



# *Katalog Pomp*

| OPIS                                                     | TYP                                 | str. |
|----------------------------------------------------------|-------------------------------------|------|
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| Samossące pompy wykonane z żeliwa                        | <b>AGE-AGC</b>                      | 8    |
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Samossące pompy wykonane ze stali AISI 304, przeznaczone do pompowania czystej wody do celów gospodarczych i bytowych, małych systemów irygacyjnych, itp. z silnikami w osłonie ze stali nierdzewnej



### SPECYFIKACJA

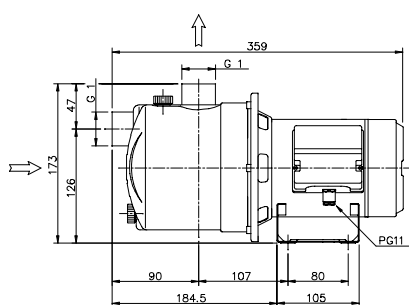
- Maksymalne ciśnienie pracy: 6 bar
- Maksymalna temperatura medium: 35°C w/g EN 60335-2-41 dla użytku domowego 45°C dla innych celów
- Maksymalne ciśnienie ssania: 8 m

### MATERIAŁY

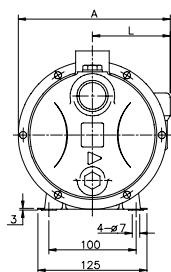
- Obudowa pompy, pokrywa obudowy, łącznik, obudowa silnika, osłona wentylatora: stal nierdzewna AISI 304
- Wał pompy: stal nierdzewna AISI 303
- Wirnik pompy: stal AISI 304 dla JE oraz technopolimer dla JES
- Uszczelnienie wału: mechaniczne ślizgowe węgiel/ceramika/NBR

### DANE TECHNICZNE

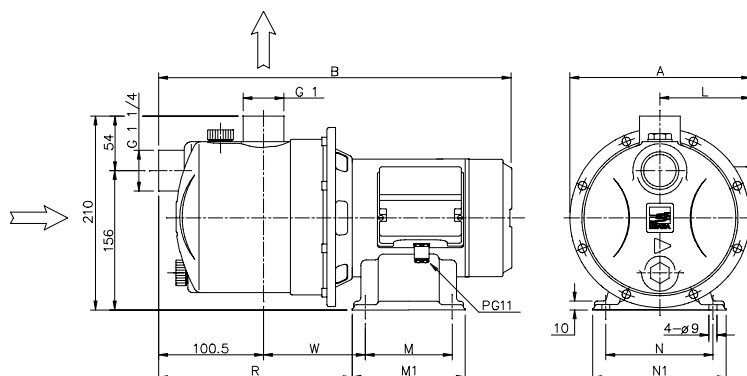
- Silnik elektryczny T.E.F.C. 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP 44 dla JES oraz IP 54 dla JE
- Zasilanie 1~ 230V  $\pm 10\%$ , 50 Hz, 3~ 230/400V  $\pm 10\%$  50 Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- Króciec ssący DNA: 1" dla JES, 1"1/4 dla JE
- Króciec tłoczny DNM: 1"



JES



JE



### TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |     |    |    | Masa<br>Kg |
|-------------|------------|--------------|-----|----|----|------------|
|             |            | A            |     | L  |    |            |
| Jednofazowa | Trójfazowa | 1~           | 3~  | 1~ | 3~ |            |
| JESM 5      | JES 5      | 181          | 177 | 96 | 92 | 5,6        |
| JESM 6      | JES 6      | 181          | 177 | 96 | 92 | 5,8        |
| JESM 8      | JES 8      | 181          | 177 | 96 | 92 | 6          |

| Typ pompy   |            | Wymiary (mm) |     |     |     |     |     |     |     |     |       |       | Masa<br>Kg |
|-------------|------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|------------|
|             |            | A            |     | B   | L   |     | M   | M1  | N   | N1  | R     | W     |            |
| Jednofazowa | Trójfazowa | 1~           | 3~  |     | 1~  | 3~  |     |     |     |     |       |       |            |
| JEM 80      | JE 80      | 209          | 205 | 401 | 105 | 101 | 100 | 130 | 120 | 150 | 213,5 | 128   | 12         |
| JEM 100     | JE 100     | 209          | 205 | 432 | 105 | 101 | 100 | 130 | 120 | 150 | 228,5 | 143   | 13,5       |
| JEM 120     | JE 120     | 209          | 205 | 432 | 105 | 101 | 100 | 130 | 120 | 150 | 228,5 | 143   | 13,5       |
| JEM 150     | JE 150     | 214          | 214 | 439 | 110 | 110 | 120 | 150 | 140 | 170 | 231   | 145,5 | 15,5       |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)

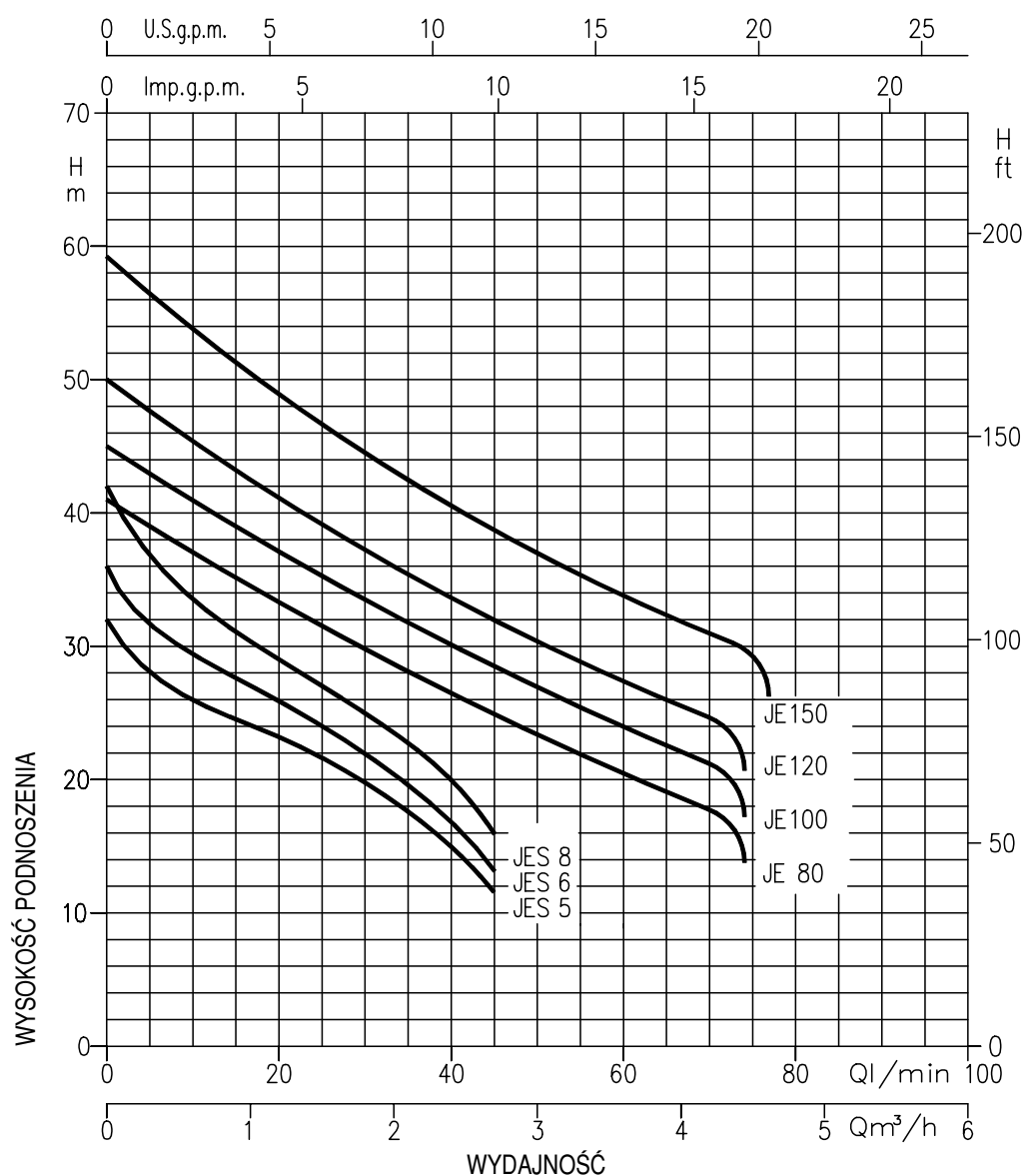


TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność             |      |      |      |      |      |      |      |    |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|--------------------|------|---------------|-------------------------|------|------|------|------|------|------|------|----|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | V <sub>c</sub> | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 5                       | 20   | 30   | 40   | 45   | 50   | 60   | 70   | 75 |
|                          |                             |      |             |                |                    |                    |      |               | H= wysokość podnoszenia |      |      |      |      |      |      |      |    |
| JESM 5                   | JES 5                       | 0,37 | 10          | 450            | 2,1                | 1,5                | 0,85 | 28            | 23                      | 20   | 15   | 11,5 | -    | -    | -    | -    |    |
| JESM 6                   | JES 6                       | 0,44 | 10          | 450            | 2,4                | 1,9                | 1,1  | 31,5          | 26                      | 22   | 17   | 13,5 | -    | -    | -    | -    |    |
| JESM 8                   | JES 8                       | 0,6  | 12,5        | 450            | 3,0                | 2,25               | 1,3  | 37            | 29                      | 25   | 20   | 16   | -    | -    | -    | -    |    |
| JEM 80                   | JE 80                       | 0,6  | 16          | 450            | 4,7                | 3,3                | 1,9  | 39            | 33                      | 29   | 26,5 | 25   | 23,5 | 20,5 | 18   | -    |    |
| JEM 100                  | JE 100                      | 0,75 | 20          | 450            | 6,4                | 4,5                | 2,6  | 43            | 37                      | 33,5 | 30   | 28   | 27   | 24   | 21   | -    |    |
| JEM 120                  | JE 120                      | 0,88 | 20          | 450            | 6,7                | 4,7                | 2,7  | 47,5          | 41                      | 37   | 34   | 32   | 30,5 | 27,5 | 24,5 | -    |    |
| JEM 150                  | JE 150                      | 1,1  | 31,5        | 450            | 7,6                | 5,6                | 3,3  | 56            | 49                      | 44,5 | 40,5 | 38,5 | 37   | 34   | 31   | 29,5 |    |

Samossące pompy elektryczne wykonane ze stali AISI 304, przeznaczone do pompowania czystej wody do celów gospodarczych i bytowych, małych systemów irygacyjnych itp.



### SPECYFIKACJA

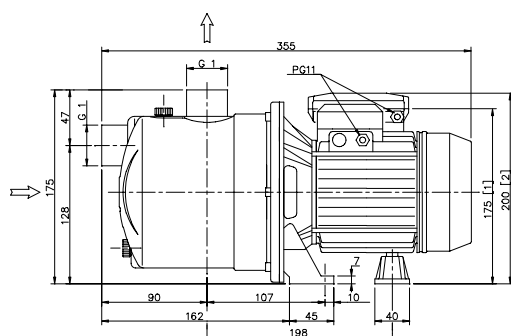
- Maksymalne ciśnienie pracy: 6 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
60°C dla innych celów
- Maksymalne ciśnienie ssania: 8 m

### MATERIAŁY

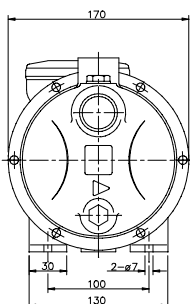
- Obudowa pompy, pokrywa obudowy: stal nierdzewna AISI 304
- Wał pompy: stal nierdzewna AISI 303
- Wirnik pompy: AISI 304 dla JEX, technopolimer dla JESX
- Uszczelnienie wału: mechaniczne ślizgowe węgiel/ceramika/NBR

### DANE TECHNICZNE

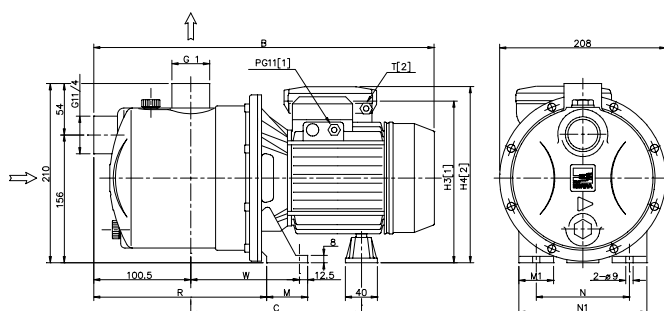
- Asynchroniczny silnik 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP54
- Zasilanie; 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- Króciec ssący DNA: 1" dla JESX i 1"1/4 dla JEX
- Króciec tłoczony DNM: 1"



JESX



JEX



[1] : 3 -  
[2] : 1 -

### TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |     |     |     |    |    |     |     |       |        |       | Masa |
|-------------|------------|--------------|-----|-----|-----|----|----|-----|-----|-------|--------|-------|------|
|             |            | B            | C   | H3  | H4  | M  | M1 | N   | N1  | R     | T      | W     | Kg   |
| Jednofazowa | Trójfazowa |              |     |     |     |    |    |     |     |       |        |       |      |
| JEXM 80     | JEX 80     | 417          | 230 | 206 | 215 | 50 | 38 | 120 | 160 | 206   | PG11   | 143   | 10,5 |
| JEXM 100    | JEX 100    | 417          | 230 | 206 | 215 | 50 | 38 | 120 | 160 | 206   | PG11   | 143   | 10,8 |
| JEXM 120    | JEX 120    | 417          | 230 | 206 | 215 | 50 | 38 | 120 | 160 | 206   | PG11   | 143   | 11,5 |
| JEXM 150    | JEX 150    | 445          | 250 | 216 | 240 | 55 | 40 | 140 | 180 | 203.5 | PG13.5 | 145.5 | 14,1 |

| Typ pompy   |            | Masa<br>Kg |
|-------------|------------|------------|
| Jednofazowa | Trójfazowa |            |
| JESXM 5     | JESX 5     | 5.1        |
| JESXM 6     | JESX 6     | 5.5        |
| JESXM 8     | JESX 8     | 6.1        |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)

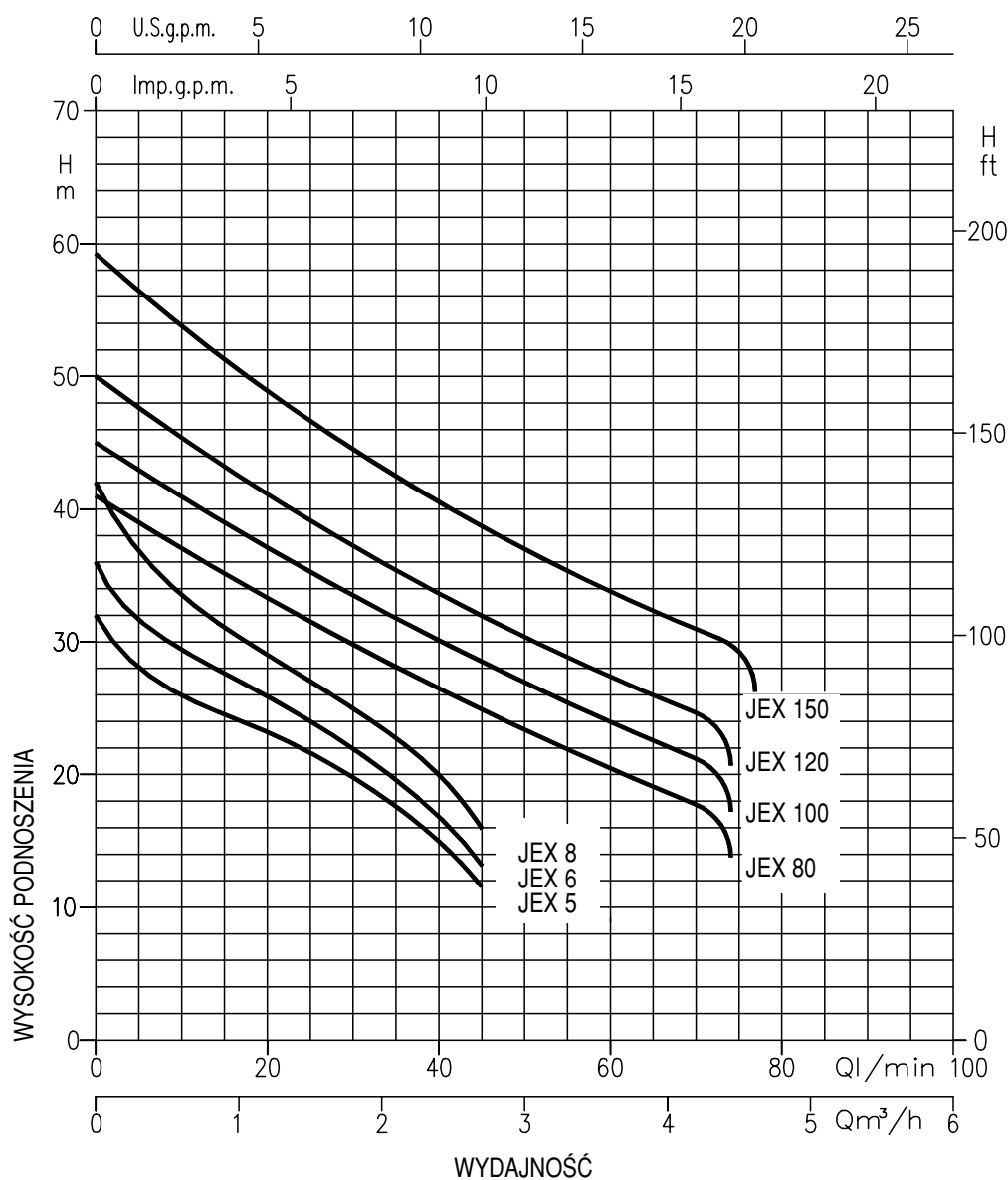


TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |                            |      | l/min<br>m³/h            | Q = Wydajność |      |      |      |      |      |      |      |    |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|----------------------------|------|--------------------------|---------------|------|------|------|------|------|------|------|----|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | V <sub>c</sub> | Jedno-<br>fazowy   | Trójfazowy<br>230V    400V |      |                          | 5             | 20   | 30   | 40   | 45   | 50   | 60   | 70   | 75 |
|                          |                             |      |             |                |                    |                            | 0,3  |                          | 1,2           | 1,8  | 2,4  | 2,7  | 3    | 3,6  | 4,2  | 4,5  |    |
|                          |                             |      |             |                |                    |                            |      | H = Wysokość podnoszenia |               |      |      |      |      |      |      |      |    |
| JESXM 5                  | JESX 5                      | 0,37 | 10          | 450            | 2,1                | 1,5                        | 0,85 | 28                       | 23            | 20   | 15   | 11,5 | -    | -    | -    | -    |    |
| JESXM 6                  | JESX 6                      | 0,44 | 10          | 450            | 2,4                | 1,9                        | 1,1  | 31,5                     | 26            | 22   | 17   | 13,5 | -    | -    | -    | -    |    |
| JESXM 8                  | JESX 8                      | 0,6  | 12,5        | 450            | 3,0                | 2,3                        | 1,3  | 37                       | 29            | 25   | 20   | 16   | -    | -    | -    | -    |    |
| JEXM 80                  | JEX 80                      | 0,6  | 16          | 450            | 4,7                | 3,3                        | 1,9  | 39                       | 33            | 29   | 26,5 | 25   | 23,5 | 20,5 | 18   | -    |    |
| JEXM 100                 | JEX 100                     | 0,75 | 20          | 450            | 6,4                | 4,5                        | 2,6  | 43                       | 37            | 33,5 | 30   | 28   | 27   | 24   | 21   | -    |    |
| JEXM 120                 | JEX 120                     | 0,88 | 20          | 450            | 6,7                | 4,7                        | 2,7  | 47,5                     | 41            | 37   | 34   | 32   | 30,5 | 27,5 | 24,5 | -    |    |
| JEXM 150                 | JEX 150                     | 1,1  | 31,5        | 450            | 8,0                | 5,6                        | 3,3  | 56                       | 49            | 44,5 | 40,5 | 38,5 | 37   | 34   | 31   | 29,5 |    |

Samossące pompy elektryczne wykonane z żeliwa, przeznaczone do podnoszenia ciśnienia wody pitnej do celów gospodarczych, małych systemów irygacyjnych, opróżniania zbiorników oraz do pompowania czystej wody w innych zastosowaniach



### SPECYFIKACJA

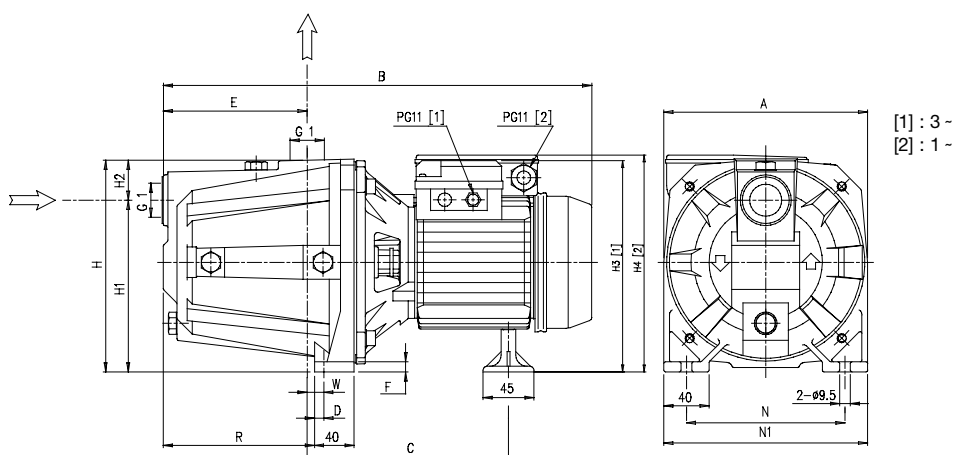
- Maksymalne ciśnienie pracy: 6 bar
- Maksymalna temperatura medium: 35°C w/g EN 60335-2-41 dla użytku domowego 45°C dla innych celów
- Maksymalne ciśnienie ssania: 8 m

### MATERIAŁY

- Obudowa pompy: żeliwo
- Pokrywa pompy: stal nierdzewna AISI 304
- Wał pompy: stal nierdzewna AISI 416
- Wirnik pompy oraz dyfuzor: technopolimer
- Uszczelnienie wału: mechaniczne ślizgowe węgiel/ceramika/NBR

### DANE TECHNICZNE

- Asynchroniczny silnik 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie; 1~230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- Króciec ssący DNA: 1"
- Króciec tłoczony DNM: 1"



### TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |     |     |      |      |   |     |     |    |       |     |     |     |     |    | Masa<br>kg |
|-------------|------------|--------------|-----|-----|------|------|---|-----|-----|----|-------|-----|-----|-----|-----|----|------------|
|             |            | A            | B   | C   | D    | E    | F | H   | H1  | H2 | H3    | H4  | N   | N1  | R   | W  |            |
| Jednofazowa | Trójfazowa |              |     |     |      |      |   |     |     |    | 3~    | 1~  |     |     |     |    |            |
| AGE 0.50 M  | AGE 0.50 T | 150          | 352 | 193 | 17,3 | 99,5 | 8 | 160 | 122 | 38 | 172,5 | 174 | 110 | 150 | 111 | 24 | 8          |
| AGE 0.60 M  | AGE 0.60 T | 150          | 352 | 193 | 17,3 | 99,5 | 8 | 160 | 122 | 38 | 172,5 | 174 | 110 | 150 | 111 | 24 | 8,5        |
| AGE 0.80 M  | AGE 0.80 T | 150          | 352 | 193 | 17,3 | 99,5 | 8 | 160 | 122 | 38 | 172,5 | 174 | 110 | 150 | 111 | 24 | 9          |
| AGF 0.60 M  | AGF 0.60 T | 180          | 377 | 191 | 10,3 | 127  | 9 | 185 | 152 | 33 | 187,5 | 189 | 140 | 180 | 129 | 12 | 11         |
| AGF 0.80 M  | AGF 0.80 T | 180          | 377 | 191 | 10,3 | 127  | 9 | 185 | 152 | 33 | 187,5 | 189 | 140 | 180 | 129 | 12 | 12         |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)

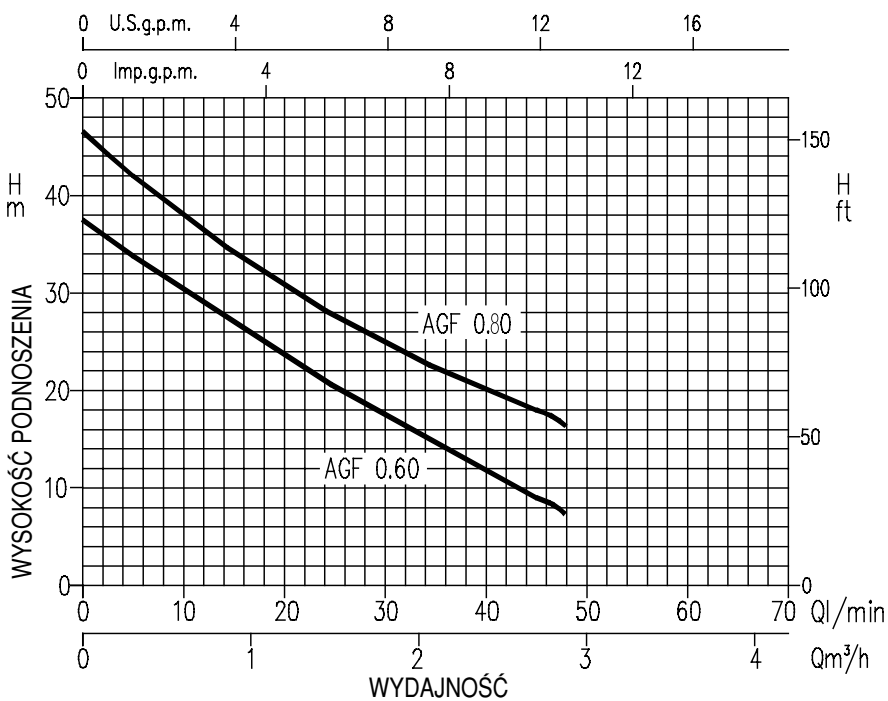
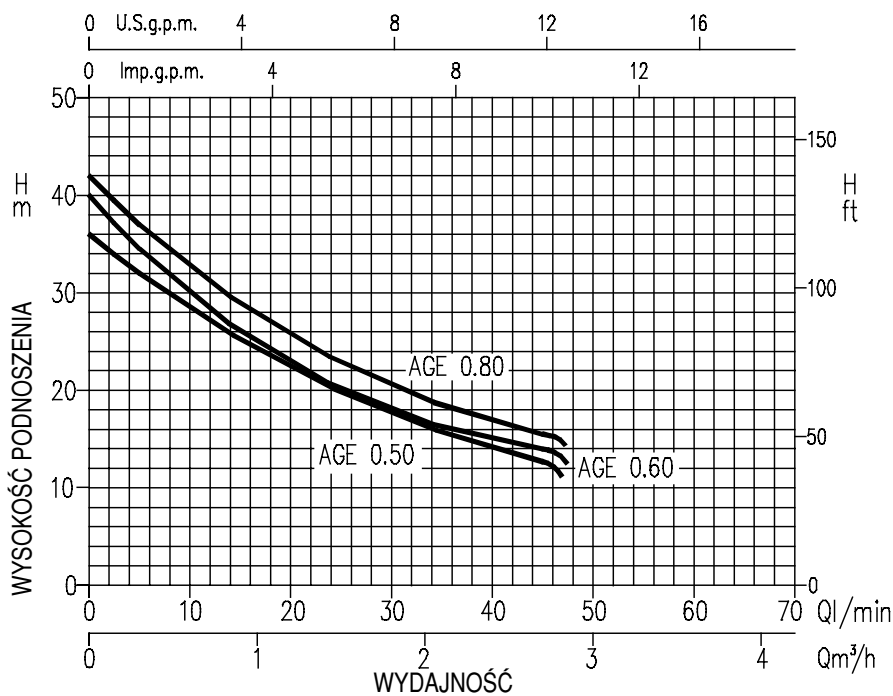


TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |      |            | l/min<br>m³/h | Q = Wydajność            |           |           |           |           |           |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|------|------------|---------------|--------------------------|-----------|-----------|-----------|-----------|-----------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | μF          | V <sub>c</sub> | 1~                 | 230V | 3~<br>400V |               | 5<br>0,3                 | 10<br>0,6 | 20<br>1,2 | 30<br>1,8 | 40<br>2,4 | 45<br>2,7 |
|                          |                             |      |             |                |                    |      |            |               | H = Wysokość podnoszenia |           |           |           |           |           |
| AGE 0.50 M               | AGE 0.50 T                  | 0,37 | 10          | 450            | 2,4                | 2    | 1,1        | 32            | 28,4                     | 22,4      | 17,6      | 14,1      | 12,7      |           |
| AGE 0.60 M               | AGE 0.60 T                  | 0,45 | 10          | 450            | 2,75               | 2    | 1,1        | 34,5          | 29,9                     | 22,8      | 17,9      | 14,9      | 14        |           |
| AGE 0.80 M               | AGE 0.80 T                  | 0,6  | 10          | 450            | 2,8                | 2,1  | 1,2        | 37            | 32,7                     | 25,6      | 20,5      | 16,8      | 15,5      |           |
| AGF 0.60 M               | AGF 0.60 T                  | 0,45 | 10          | 450            | 3                  | 2,1  | 1,2        | 33,8          | 30,2                     | 23,5      | 17,3      | 11,7      | 9         |           |
| AGF 0.80 M               | AGF 0.80 T                  | 0,6  | 12,5        | 450            | 3,7                | 2,4  | 1,4        | 42            | 37,9                     | 30,7      | 24,8      | 20        | 18        |           |



Samossące pompy elektryczne wykonane z żeliwa, przeznaczone do podnoszenia ciśnienia wody pitnej do celów gospodarczych, małych systemów irygacyjnych, opróżniania zbiorników oraz do pompowania czystej wody w innych zastosowaniach



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 6 bar dla AGA 0.60-0.75-1.00  
10 bar dla pozostałych
- Maksymalna temperatura medium: 35°C w/g EN 60335-2-41 dla użytku domowego  
45°C dla innych celów
- Maksymalne ciśnienie ssania: 8 m

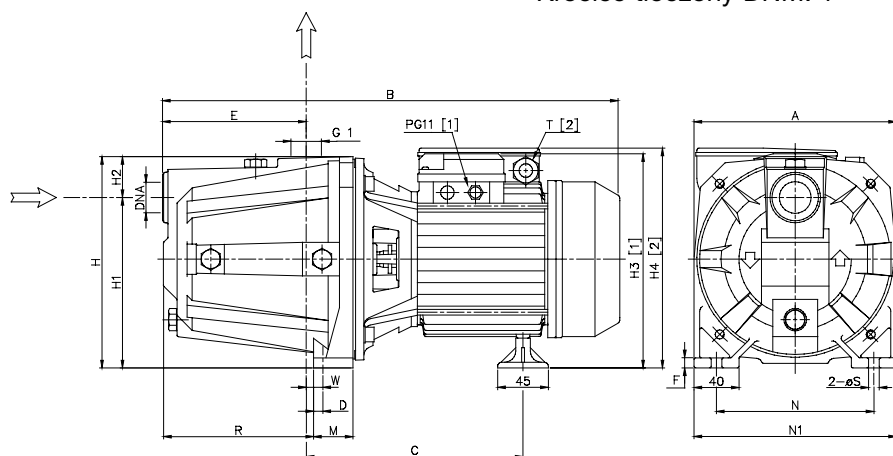
### MATERIAŁY

- Obudowa pompy: żeliwo
- Pokrywa pompy: stal nierdzewna AISI 304 dla AGA 0.60-0.75-1.00
- Wał pompy: stal nierdzewna AISI 416 dla AGA 0.60-0.75-1.00 oraz AISI 303 dla pozostałych

- Wirnik pompy oraz dyfuzor: technopolimer dla AGA 0.60-0.75-1.00 oraz brąz dla pozostałych
- Uszczelnienie wału: mechaniczne ślizgowe węgiel/ceramika/NBR

### DANE TECHNICZNE

- Asynchroniczny silnik 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie; 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- Króciec ssący DNA: 1" dla AGA 0.60-0.75-1.00 oraz 1 1/2" dla pozostałych
- Króciec tłoczony DNM: 1"



[1] : 3 -  
[2] : 1 -

### TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |     |     |     |      |     |    |     |     |    |       |     |    |     |     |       |        |      |     | Masa<br>kg |      |
|-------------|------------|--------------|-----|-----|-----|------|-----|----|-----|-----|----|-------|-----|----|-----|-----|-------|--------|------|-----|------------|------|
|             |            | A            | B   |     | C   | D    | E   | F  | H   | H1  | H2 | H3    | H4  | M  | N   | N1  | R     | T      | W    | S   |            | DNA  |
| Jednofazowa | Trójfazowa |              | 1~  | 3~  |     |      |     |    |     |     |    | 3~    | 1~  |    |     |     |       | 1~     |      |     |            |      |
| AGA 0.60 M  | AGA 0.60 T | 180          | 405 | 405 | 195 | 10,3 | 127 | 9  | 185 | 152 | 33 | 197,5 | 199 | 40 | 140 | 180 | 128,5 | PG11   | 11,8 | 9,5 | G 1        | 12,5 |
| AGA 0.75 M  | AGA 0.75 T | 180          | 405 | 405 | 195 | 10,3 | 127 | 9  | 185 | 152 | 33 | 197,5 | 199 | 40 | 140 | 180 | 128,5 | PG11   | 11,8 | 9,5 | G 1        | 13   |
| AGA 1.00 M  | AGA 1.00 T | 180          | 405 | 405 | 195 | 10,3 | 127 | 9  | 185 | 152 | 33 | 197,5 | 199 | 40 | 140 | 180 | 128,5 | PG11   | 11,8 | 9,5 | G 1        | 14   |
| AGA 1.50 M  | AGA 1.50 T | 220          | 495 | 495 | 244 | 10   | 157 | 10 | 223 | 170 | 53 | 229   | 247 | 48 | 180 | 220 | 167,5 | PG13,5 | 15,5 | 9   | G 1½       | 26   |
| AGA 2.00 M  | AGA 2.00 T | 220          | 508 | 495 | 244 | 10   | 157 | 10 | 223 | 170 | 53 | 229   | 247 | 48 | 180 | 220 | 167,5 | PG13,5 | 15,5 | 9   | G 1½       | 27   |
| -           | AGA 3.00 T | 220          | -   | 508 | 244 | 10   | 157 | 10 | 223 | 170 | 53 | 229   | -   | 48 | 180 | 220 | 167,5 | -      | 15,5 | 9   | G 1½       | 27   |
| AGC 1.50 M  | AGC 1.50 T | 220          | 495 | 495 | 244 | 10   | 157 | 10 | 223 | 170 | 53 | 229   | 247 | 48 | 180 | 220 | 167,5 | PG13,5 | 15,5 | 9   | G 1½       | 26   |
| AGC 2.00 M  | AGC 2.00 T | 220          | 508 | 495 | 244 | 10   | 157 | 10 | 223 | 170 | 53 | 229   | 247 | 48 | 180 | 220 | 167,5 | PG13,5 | 15,5 | 9   | G 1½       | 27   |
| -           | AGC 3.00 T | 220          | -   | 508 | 244 | 10   | 157 | 10 | 223 | 170 | 53 | 229   | -   | 48 | 180 | 220 | 167,5 | -      | 15,5 | 9   | G 1½       | 27   |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)

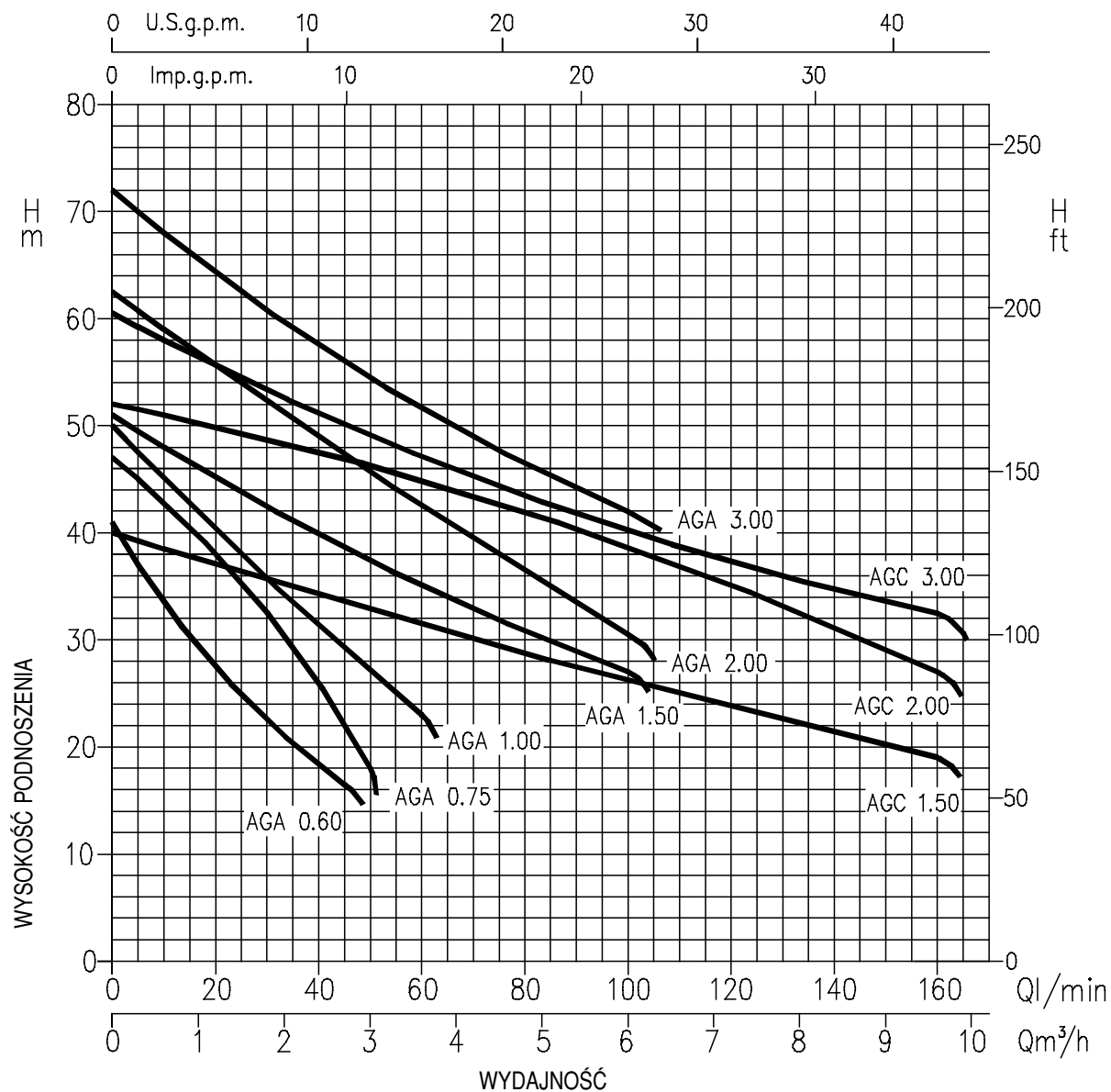


TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q = Wydajność            |      |      |      |      |      |      |      |      |      |     |  |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|--------------------|------|---------------|--------------------------|------|------|------|------|------|------|------|------|------|-----|--|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  | Jedno-<br>fazowa   | Trójfazowa<br>230V | 400V |               | 5                        | 10   | 20   | 30   | 45   | 50   | 60   | 80   | 100  | 130  | 160 |  |
|                          |                             |      |             |     |                    |                    |      |               | H = Wysokość podnoszenia |      |      |      |      |      |      |      |      |      |     |  |
| AGA 0.60 M               | AGA 0.60 T                  | 0,44 | 12,5        | 450 | 3,1                | 2,1                | 1,2  | 37            | 33,4                     | 27,1 | 22   | 16,5 | -    | -    | -    | -    | -    | -    |     |  |
| AGA 0.75 M               | AGA 0.75 T                  | 0,55 | 14          | 450 | 4,0                | 2,8                | 1,6  | 45            | 42,8                     | 37,9 | 32   | 21,9 | 18   | -    | -    | -    | -    | -    |     |  |
| AGA 1.00 M               | AGA 1.00 T                  | 0,75 | 20          | 450 | 5,5                | 3,6                | 2,1  | 47,5          | 45                       | 40,3 | 35,7 | 29,1 | 27   | 23   | -    | -    | -    | -    |     |  |
| AGA 1.50 M               | AGA 1.50 T                  | 1,1  | 35          | 450 | 8,1                | 5,3                | 3,0  | -             | 48                       | 45,1 | 42,4 | 38,6 | 37,4 | 35,1 | 30,8 | 27   | -    | -    |     |  |
| AGA 2.00 M               | AGA 2.00 T                  | 1,5  | 40          | 450 | 9,8                | 6,3                | 3,6  | -             | 59                       | 55,6 | 52,2 | 47,3 | 45,7 | 42,5 | 36,4 | 30,5 | -    | -    |     |  |
| -                        | AGA 3.00 T                  | 2,2  | -           | -   | -                  | 7,9                | 4,7  | -             | 68                       | 64,3 | 60,8 | 55,9 | 54,4 | 51,6 | 46,4 | 42   | -    | -    |     |  |
| AGC 1.50 M               | AGC 1.50 T                  | 1,1  | 35          | 450 | 8,6                | 5,8                | 3,3  | -             | 38,5                     | 37   | 35,6 | 33,5 | 32,7 | 31,4 | 28,7 | 26,1 | 22,4 | 19   |     |  |
| AGC 2.00 M               | AGC 2.00 T                  | 1,5  | 40          | 450 | 10,5               | 6,8                | 3,9  | -             | 51                       | 49,9 | 48,8 | 46,9 | 46,3 | 44,9 | 42   | 38,7 | 33,2 | 27   |     |  |
| -                        | AGC 3.00 T                  | 2,2  | -           | -   | -                  | 7,9                | 4,6  | -             | 58                       | 55,6 | 53,5 | 50,1 | 49,1 | 47,1 | 43,4 | 40,2 | 35,9 | 32,5 |     |  |

Jednowirnikowe pompy odśrodkowe ze stali nierdzewnej AISI 304, przeznaczone do pompowania czystej wody oraz innych cieczy, które nie wchodzi w reakcje chemiczne ze stalą nierdzewną AISI 304 do irygacji i nawadniania, do podnoszenia ciśnienia w zestawach hydroforowych itp.



## SPECYFIKACJA

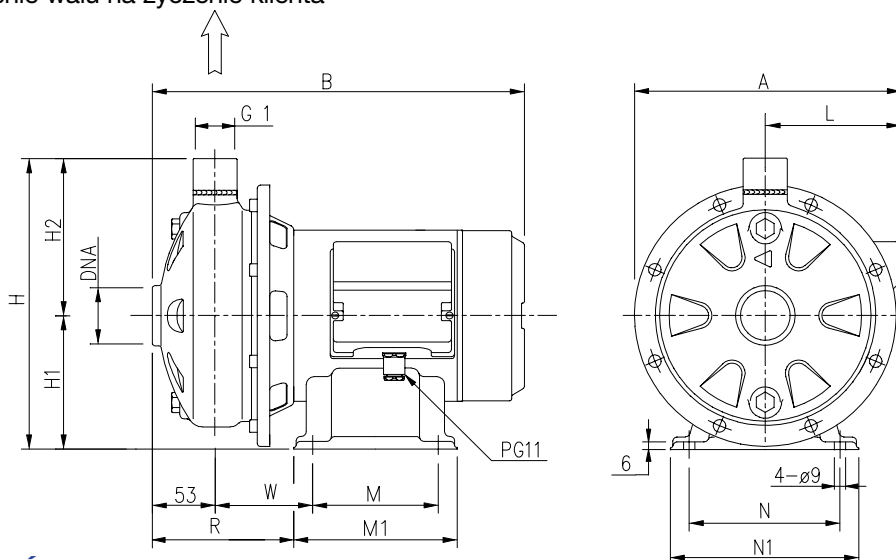
- Maksymalne ciśnienie pracy: 8 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60355-2-41 dla użytku domowego  
60°C dla innych celów oraz CD 70/05 – 70/07 – 90/10  
90°C dla pozostałych modeli

## MATERIAŁY

- Obudowa pompy, pokrywa obudowy, wirnik, dyfuzor, wspornik, wał, obudowa silnika i pokrywa wentylatora wykonana ze stali nierdzewnej AISI 304
- Uszczelnienie wału: węgiel/ceramika/NBR (SiC/SiC/Vitton – wersja CDHS, węgiel/ceramika/Vitton – wersja CDH)
- Specjalne uszczelnienie wału na życzenie klienta

## DANE TECHNICZNE

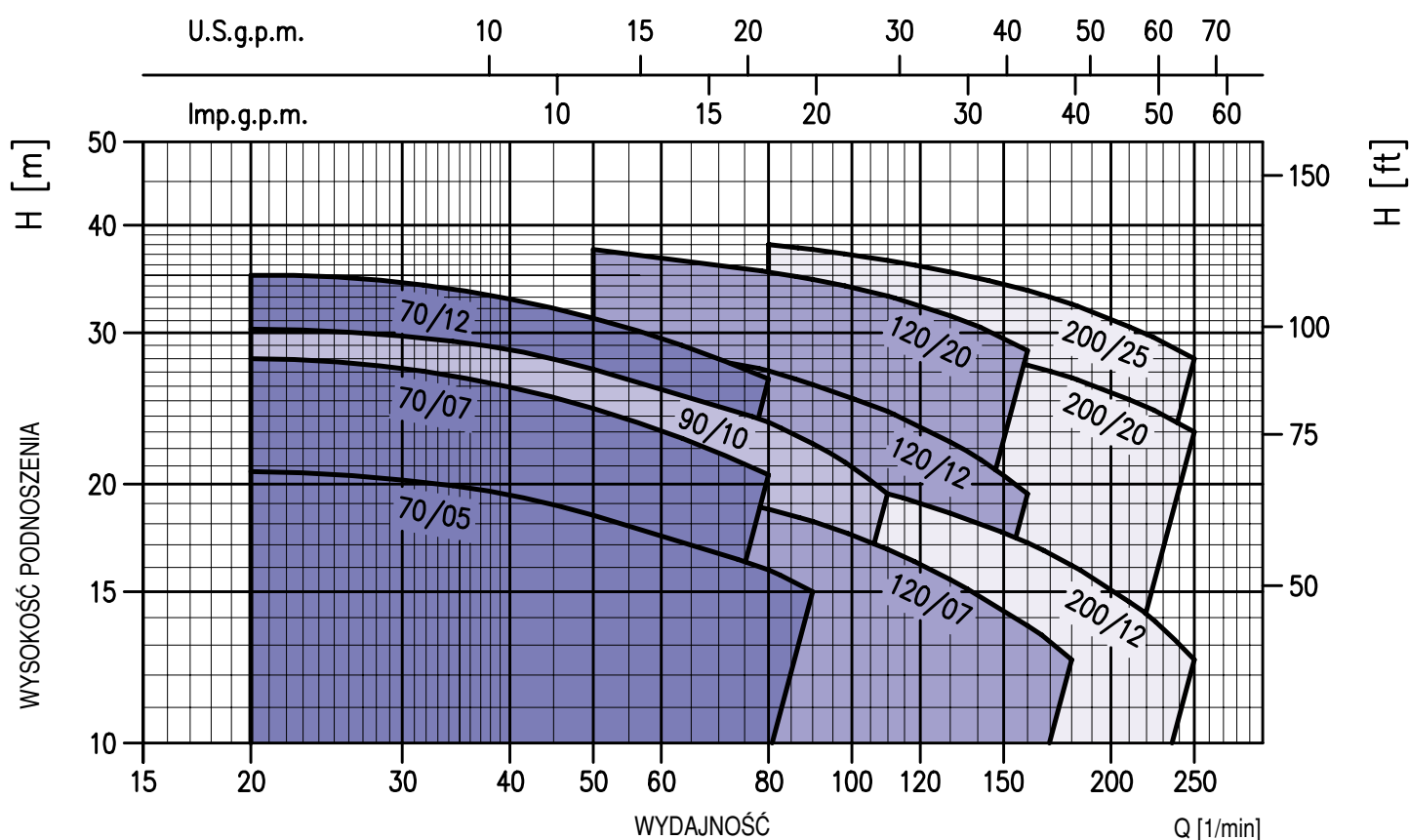
- Dwubiegunowy silnik z wymuszoną wentylacją T.E.F.C.
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 1~ 230V± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe w wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- Króciec tłoczny: DNM 1"
- Króciec ssący: DNA 1"1/2 dla CD 200,  
DNA 1"1/4 dla pozostałych modeli



## TABELA WYMIARÓW

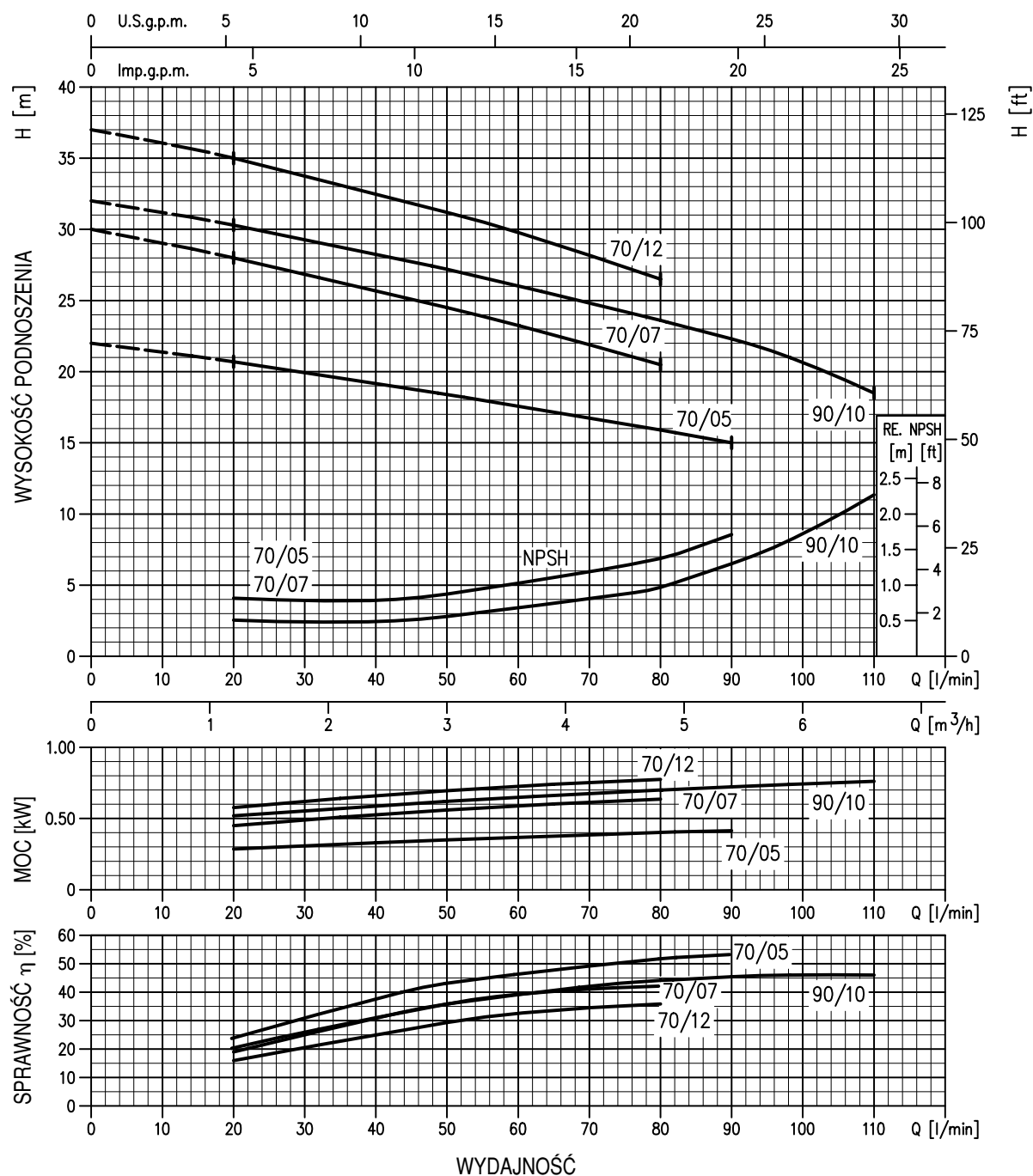
| Typ pompy   |            | Wymiary (mm) |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Masa<br>Kg |       |      |
|-------------|------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|-------|------|
|             |            | A            |     | B   | H   | H1  | H2  | L   |     | M   |     | M1  |     | N   | N1  | R   |            | W     | DNA  |
| Jednofazowa | Trójfazowa | 1~           | 3~  |     |     |     |     | 1~  | 3~  | 1~  | 3~  | 1~  | 3~  |     |     |     |            |       |      |
| CDM 70/05   | CD 70/05   | 210          | 206 | 298 | 229 | 106 | 123 | 102 | 106 | 100 | 100 | 130 | 130 | 120 | 150 | 101 | 63         | G 1 ¼ | 9,4  |
| CDM 70/07   | CD 70/07   | 210          | 206 | 298 | 229 | 106 | 123 | 102 | 106 | 100 | 100 | 130 | 130 | 120 | 150 | 101 | 63         | G 1 ¼ | 10,8 |
| CDM 70/12   | CD 70/12   | 218          | 218 | 328 | 250 | 118 | 132 | 102 | 102 | 100 | 100 | 130 | 130 | 120 | 150 | 131 | 93         | G 1 ¼ | 14,1 |
| CDM 90/10   | CD 90/10   | 210          | 206 | 328 | 229 | 106 | 123 | 102 | 106 | 100 | 100 | 130 | 130 | 120 | 150 | 131 | 93         | G 1 ¼ | 12,4 |
| CDM 120/07  | CD 120/07  | 210          | 206 | 298 | 229 | 106 | 123 | 102 | 106 | 100 | 100 | 130 | 130 | 120 | 150 | 101 | 63         | G 1 ¼ | 10,7 |
| CDM 120/12  | CD 120/12  | 206          | 206 | 328 | 229 | 106 | 123 | 102 | 102 | 100 | 100 | 130 | 130 | 120 | 150 | 101 | 63         | G 1 ¼ | 13,3 |
| CDM 120/20  | CD 120/20  | 226          | 226 | 356 | 250 | 118 | 132 | 110 | 110 | 100 | 100 | 130 | 130 | 120 | 150 | 131 | 93         | G 1 ¼ | 17,3 |
| CDM 200/12  | CD 200/12  | 206          | 206 | 328 | 229 | 106 | 123 | 102 | 102 | 100 | 100 | 130 | 130 | 120 | 150 | 131 | 93         | G 1 ½ | 12,7 |
| CDM 200/20  | CD 200/20  | 214          | 214 | 356 | 229 | 106 | 123 | 110 | 110 | 120 | 120 | 150 | 150 | 140 | 170 | 133 | 95         | G 1 ½ | 16,7 |
|             | CD 200/25  | -            | 226 | 366 | 250 | 118 | 132 | -   | 110 | -   | 120 | -   | 150 | 140 | 170 | 138 | 100        | G 1 ½ | 17,4 |

## ZAKRES ZASTOSOWANIA (w/g ISO 9906 Aneks A)

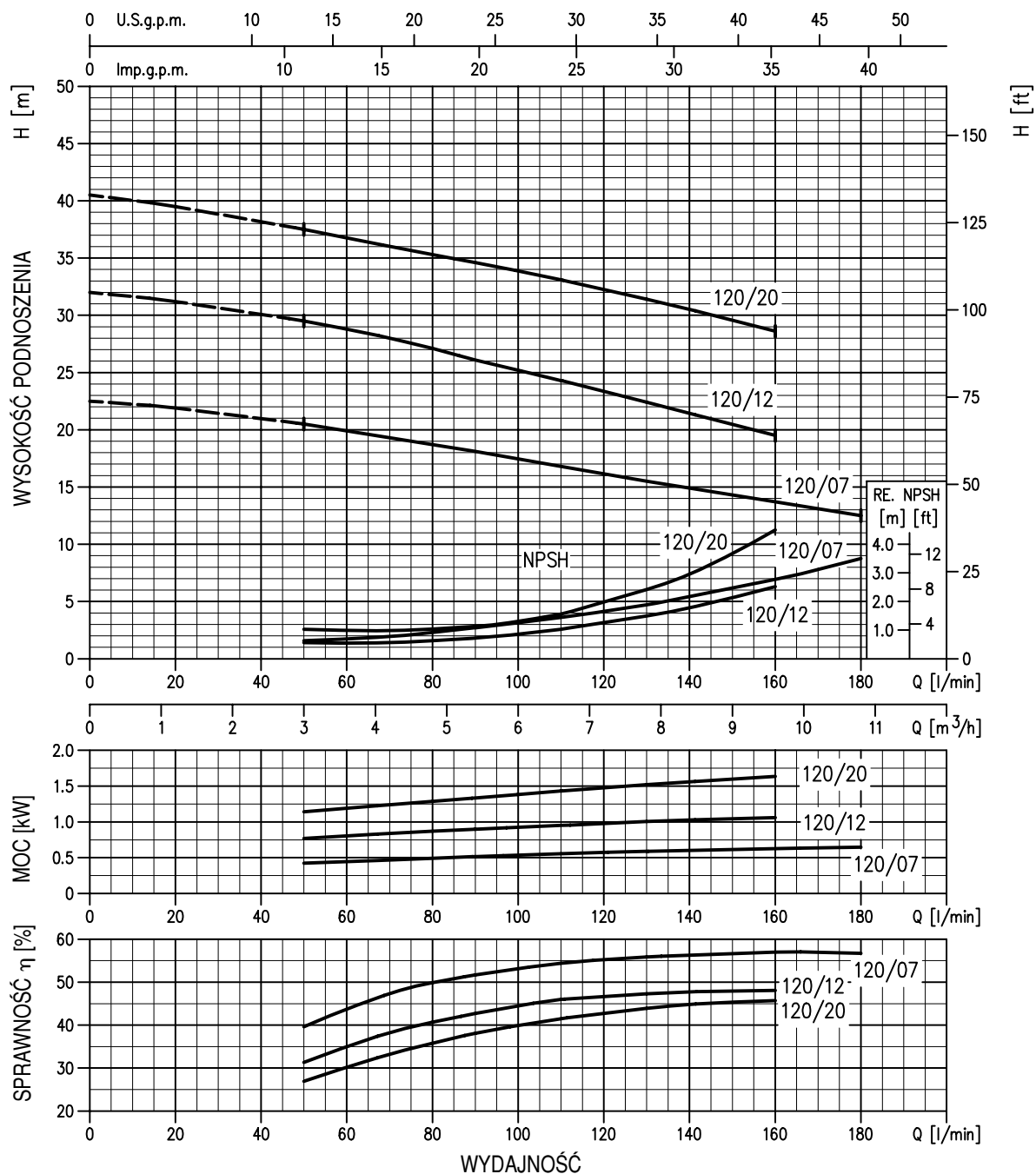

**TABELA DANYCH**

| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność            |      |      |      |      |      |      |      |      |     |  |  |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|--------------------|------|---------------|------------------------|------|------|------|------|------|------|------|------|-----|--|--|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | V <sub>c</sub> | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 20                     | 50   | 80   | 90   | 110  | 130  | 160  | 180  | 210  | 250 |  |  |
|                          |                             |      |             |                |                    |                    |      |               | 1,2                    | 3    | 4,8  | 5,4  | 6,6  | 7,8  | 9,6  | 10,8 | 12,6 | 15  |  |  |
|                          |                             |      |             |                |                    |                    |      |               | H=Wysokość podnoszenia |      |      |      |      |      |      |      |      |     |  |  |
| CDM 70/05                | CD 70/05                    | 0,37 | 12,5        | 450            | 3,1                | 2,4                | 1,4  | 20,7          | 18,4                   | 15,9 | 15   | -    | -    | -    | -    | -    | -    | -   |  |  |
| CDM 70/07                | CD 70/07                    | 0,55 | 16          | 450            | 4,6                | 3,5                | 2,0  | 28            | 24,5                   | 20,5 | -    | -    | -    | -    | -    | -    | -    | -   |  |  |
| CDM 70/12                | CD 70/12                    | 0,9  | 31,5        | 450            | 6,5                | 5,0                | 2,9  | 35            | 31,2                   | 26,5 | -    | -    | -    | -    | -    | -    | -    | -   |  |  |
| CDM 90/10                | CD 90/10                    | 0,75 | 20          | 450            | 5,6                | 4,0                | 2,3  | 30,3          | 27,2                   | 23,6 | 22,3 | 19,5 | -    | -    | -    | -    | -    | -   |  |  |
| CDM 120/07               | CD 120/07                   | 0,55 | 16          | 450            | 4,6                | 3,2                | 1,85 | -             | 20,5                   | 18,7 | 18,1 | 16,8 | 15,5 | 13,7 | 12,5 | -    | -    | -   |  |  |
| CDM 120/12               | CD 120/12                   | 0,9  | 31,5        | 450            | 6,9                | 4,9                | 2,8  | -             | 29,5                   | 27,1 | 26,1 | 24,3 | 22,4 | 19,5 | -    | -    | -    | -   |  |  |
| CDM 120/20               | CD 120/20                   | 1,5  | 40          | 450            | 9,7                | 7,0                | 4,0  | -             | 37,5                   | 35,3 | 34,6 | 33,1 | 31,4 | 28,6 | -    | -    | -    | -   |  |  |
| CDM 200/12               | CD 200/12                   | 0,9  | 31,5        | 450            | 6,3                | 4,7                | 2,7  | -             | -                      | 20,6 | 20,2 | 19,5 | 18,5 | 17,1 | 16,1 | 14,6 | 12,5 | -   |  |  |
| CDM 200/20               | CD 200/20                   | 1,5  | 40          | 450            | 9,8                | 7,0                | 4,0  | -             | -                      | 31   | 30,6 | 29,7 | 28,9 | 27,5 | 26,6 | 25,1 | 23   | -   |  |  |
|                          | CD 200/25                   | 1,8  | -           | -              | -                  | 8,6                | 5,0  | -             | -                      | 38   | 37,5 | 36,4 | 35,3 | 33,6 | 32,4 | 30,5 | 28   | -   |  |  |

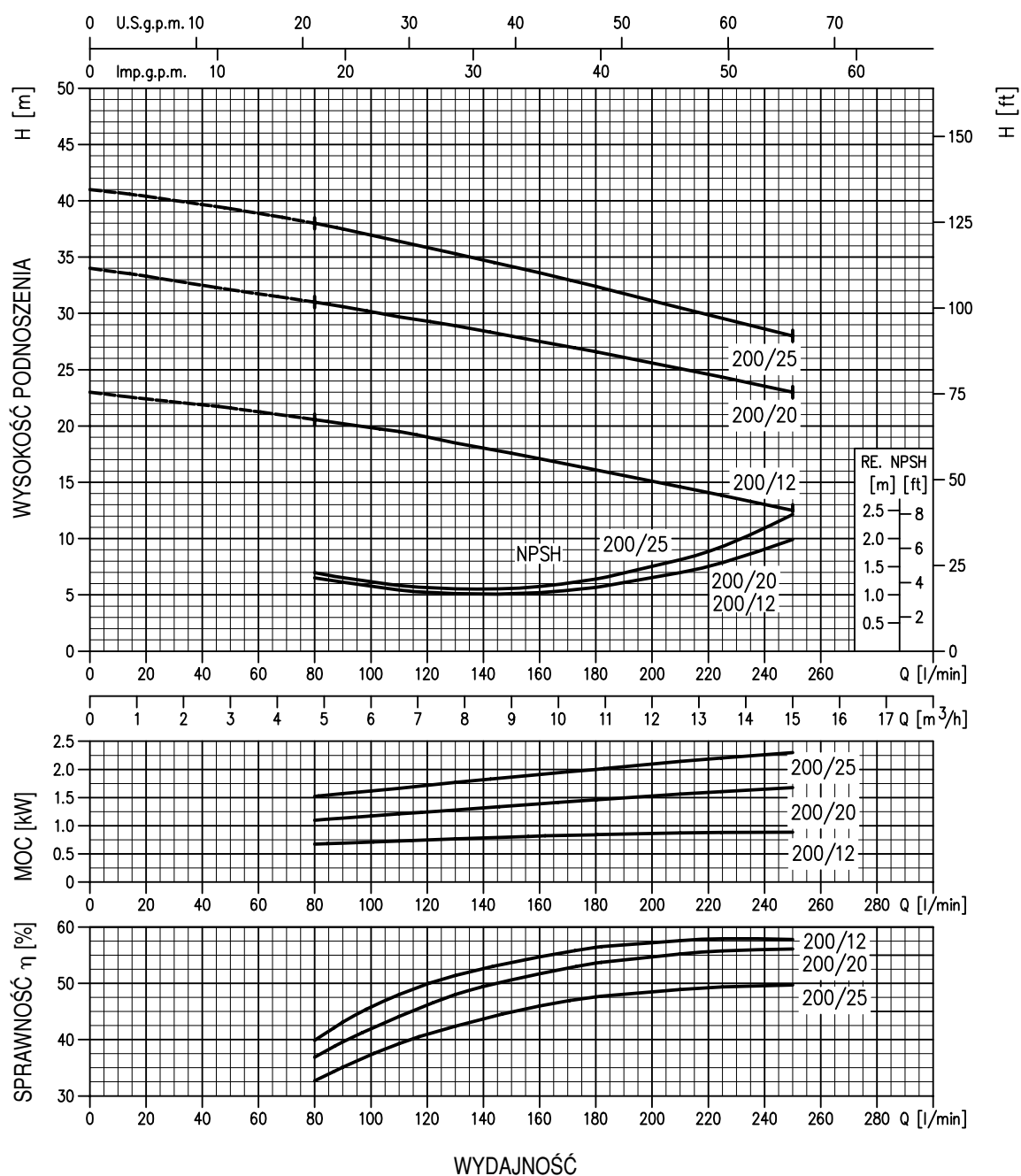
**CHARAKTERYSTYKI HYDRAULICZNE SERIA CD 70-90** (w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE SERIA CD 120 (w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE SERIA CD 200 (w/g ISO 9906 Aneks A)



Dwuwirnikowe pompy odśrodkowe wykonane ze stali nierdzewnej AISI 304, przeznaczone do pompowania czystej wody oraz innych cieczy, które nie wchodzi w reakcje chemiczne ze stalą nierdzewną AISI 304, do systemów irygacji i nawadniania, do podnoszenia ciśnienia w zestawach hydroforowych itp.



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 8 bar
- Maksymalna temperatura medium: 35°C w/g EN 60355-2-41 dla użytku domowego 60°C dla innych celów

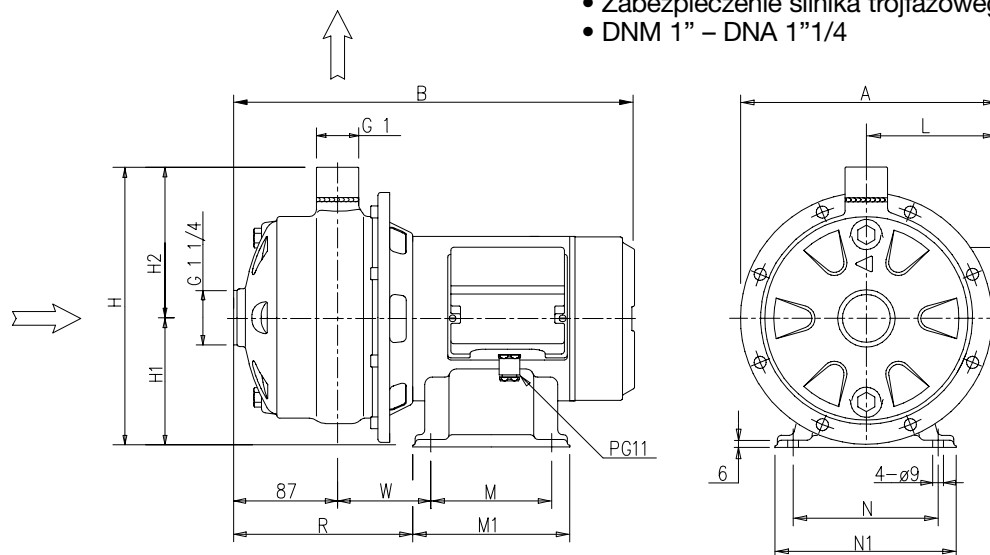
### MATERIAŁY

- Obudowa pompy, pokrywa obudowy, wirnik, dyfuzor, wspornik, wał, obudowa silnika i pokrywa wentylatora wykonana ze stali nierdzewnej AISI 304

- Uszczelnienie wału: węgiel/ceramika/NBR (SiC/SiC/Vitton – w wersji 2CDHS węgiel/ceramika/Vitton – w wersji 2CDH)
- Specjalne uszczelnienie wału na życzenie klienta

### DANE TECHNICZNE

- Dwubiegunowy silnik z wymuszoną wentylacją T.E.F.C.
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 1~ 230V ± 10% 50Hz, 3~230-400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1" – DNA 1"1/4

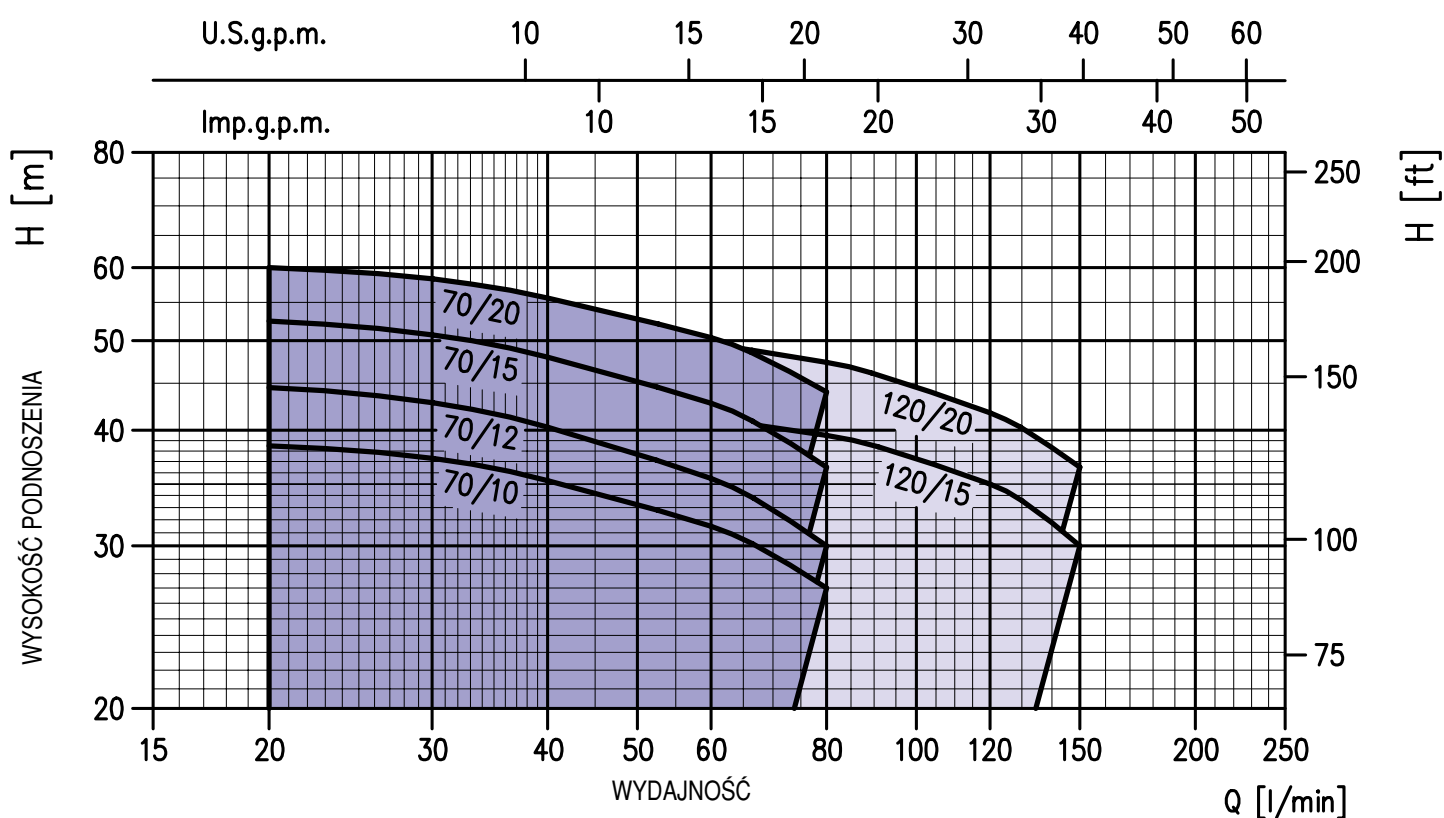


### TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |     |     |     |     |     |     |     |     |     |     |     |     |     | Masa |      |      |
|-------------|------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
|             |            | A            |     | B   |     | H   | H1  | H2  | L   |     | M   | M1  | N   | N1  | R   | W    | Kg   |      |
| Jednofazowa | Trójfazowa | 1~           | 3~  | 1~  | 3~  |     |     |     | 1~  | 3~  |     |     |     |     |     |      | 1~   | 3~   |
| 2CDM 70/10  | 2CD 70/10  | 210          | 206 | 363 | 363 | 229 | 106 | 123 | 106 | 102 | 100 | 130 | 120 | 150 | 164 | 93   | 14   | 14   |
| 2CDM 70/12  | 2CD 70/12  | 206          | 206 | 363 | 363 | 229 | 106 | 123 | 102 | 102 | 100 | 130 | 120 | 150 | 164 | 93   | 14,7 | 14,7 |
| 2CDM 70/15  | 2CD 70/15  | 226          | 226 | 375 | 393 | 229 | 106 | 123 | 110 | 110 | 120 | 150 | 140 | 170 | 170 | 95   | 17,8 | 17,8 |
| 2CDM 70/20  | 2CD 70/20  | 214          | 214 | 393 | 393 | 229 | 106 | 123 | 110 | 110 | 120 | 150 | 140 | 170 | 170 | 95   | 19,8 | 18,8 |
| 2CDM 120/15 | 2CD 120/15 | 214          | 214 | 375 | 393 | 229 | 106 | 123 | 110 | 110 | 120 | 150 | 140 | 170 | 170 | 95   | 16,1 | 15,8 |
| 2CDM 120/20 | 2CD 120/20 | 214          | 214 | 393 | 393 | 229 | 106 | 123 | 110 | 110 | 120 | 150 | 140 | 170 | 176 | 95   | 17,8 | 17,5 |

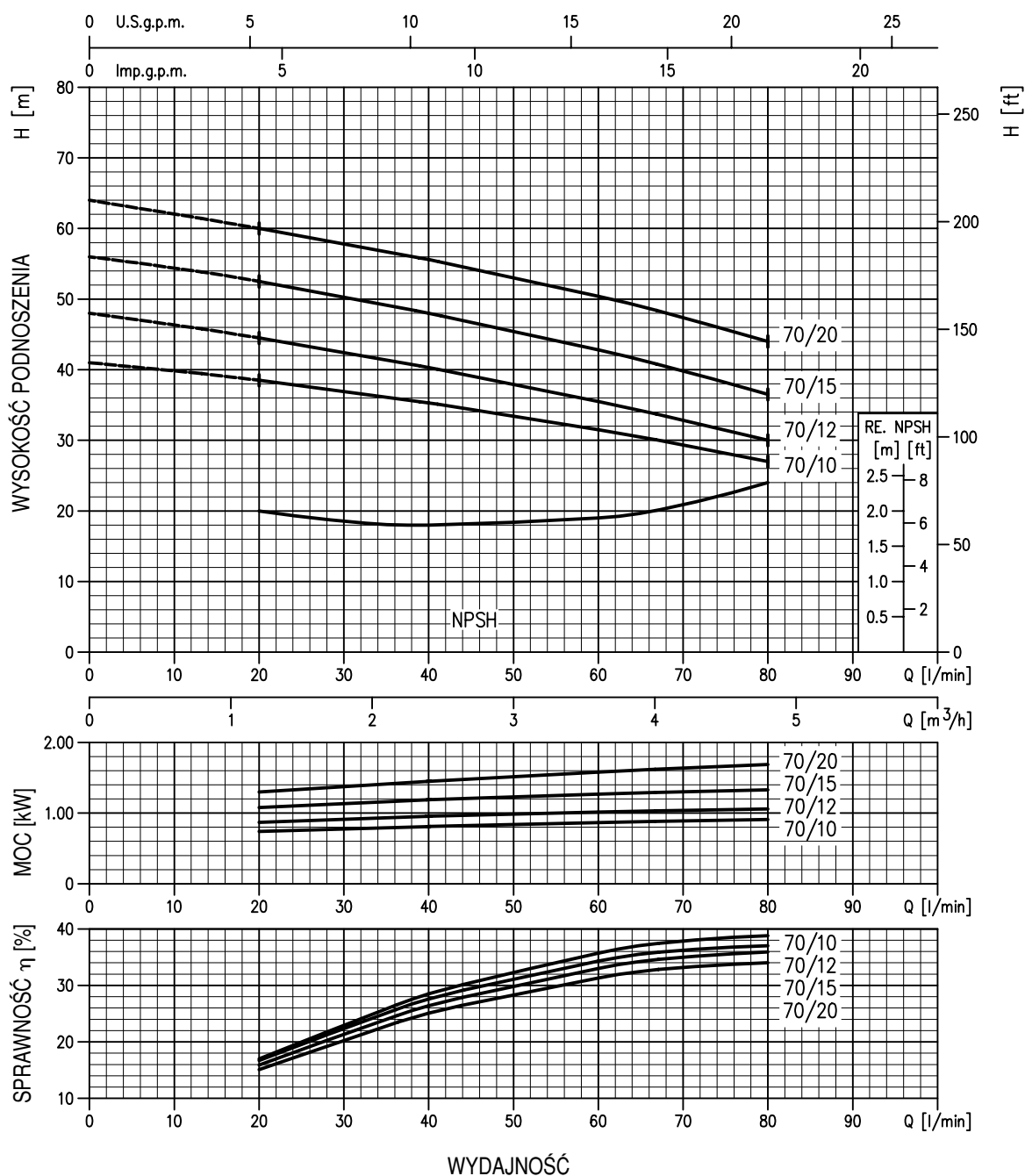


## ZAKRES STOSOWANIA (w/g ISO 9906 Aneks A)

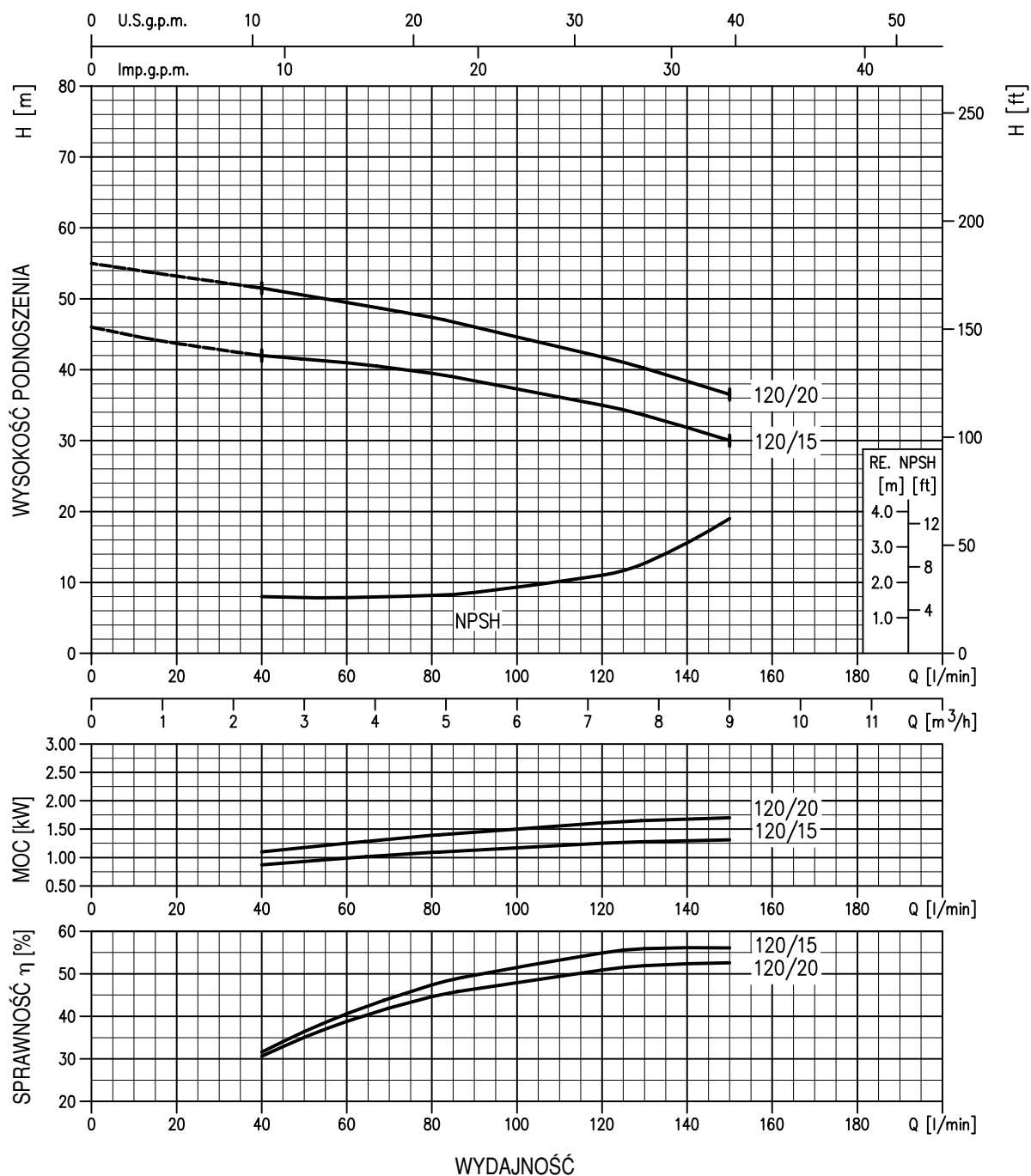

**TABELA DANYCH**

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność            |      |      |      |      |      |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|--------------------|------|---------------|------------------------|------|------|------|------|------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 20                     | 40   | 60   | 80   | 120  | 150  |
|                          |                             |      |             |     |                    |                    |      |               | H=Wysokość podnoszenia |      |      |      |      |      |
| 2CDM 70/10               | 2CD 70/10                   | 0,75 | 20          | 450 | 5,8                | 4,0                | 2,3  |               | 38,5                   | 35,3 | 31,5 | 27   | -    | -    |
| 2CDM 70/12               | 2CD 70/12                   | 0,9  | 31,5        | 450 | 7,0                | 5,0                | 2,9  |               | 44,5                   | 40,3 | 35,5 | 30   | -    | -    |
| 2CDM 70/15               | 2CD 70/15                   | 1,1  | 35          | 450 | 8,1                | 5,6                | 3,3  |               | 52,5                   | 48   | 42,8 | 36,5 | -    | -    |
| 2CDM 70/20               | 2CD 70/20                   | 1,5  | 40          | 450 | 10,0               | 7,0                | 4,0  |               | 60                     | 55,6 | 50,4 | 44   | -    | -    |
| 2CDM 120/15              | 2CD 120/15                  | 1,1  | 35          | 450 | 8,3                | 5,6                | 3,3  |               | -                      | 42   | 41   | 39,5 | 35   | 30   |
| 2CDM 120/20              | 2CD 120/20                  | 1.5  | 40          | 450 | 10.2               | 7.0                | 4.0  |               | -                      | 51.5 | 49.5 | 47.4 | 41.8 | 36.5 |

## CHARAKTERYSTYKI HYDRAULICZNE SERIA 2CD 70 (w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE SERIA 2CD 120 (w/g ISO 9906 Aneks A)



## JEDNOWIRNIKOWE POMPY ODŚRODKOWE ze stali AISI 304

Jednowirnikowe pompy odśrodkowe, wszystkie komponenty hydrauliczne wykonane ze stali nierdzewnej AISI 304, przeznaczone do pompowania czystej wody oraz innych cieczy, które nie wchodzi w reakcje chemiczne ze stalą nierdzewną AISI 304, do systemów irygacji i nawadniania, do podnoszenia ciśnienia w zestawach hydroforowych itp.



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 8 bar
- Maksymalna temperatura medium:
  - 35°C w/g EN 60335-2-41 dla użytku domowego
  - 60°C do innych celów oraz CDX 70/05 – 70/07 – 90/10
  - 90°C dla pozostałych modeli
  - 110°C dla wersji H

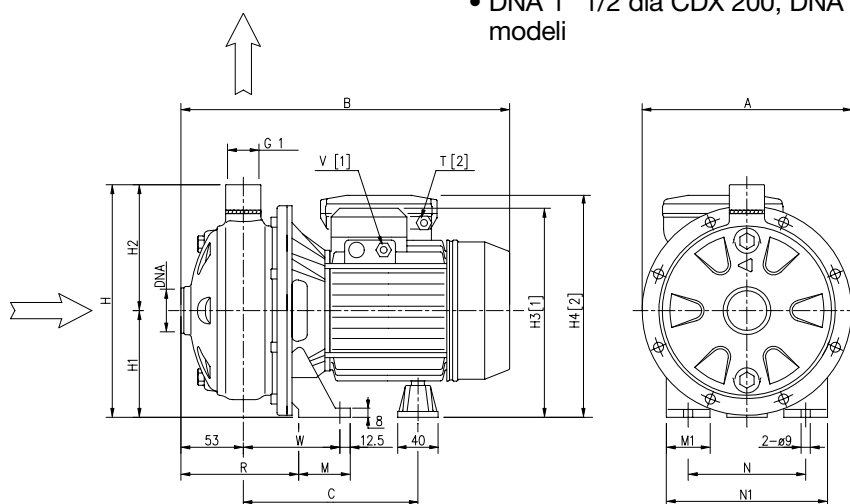
### MATERIAŁY

- Obudowa pompy, pokrywa obudowy, wirnik i dyfuzor wykonane ze stali AISI 304
- Wał: AISI 303
- Wspornik i obudowa silnika: aluminium

- Uszczelnienie wału: mechaniczne węgiel/ceramika/NBR (SiC/SiC/Vitton w wersji CDXHS)

### DANE TECHNICZNE

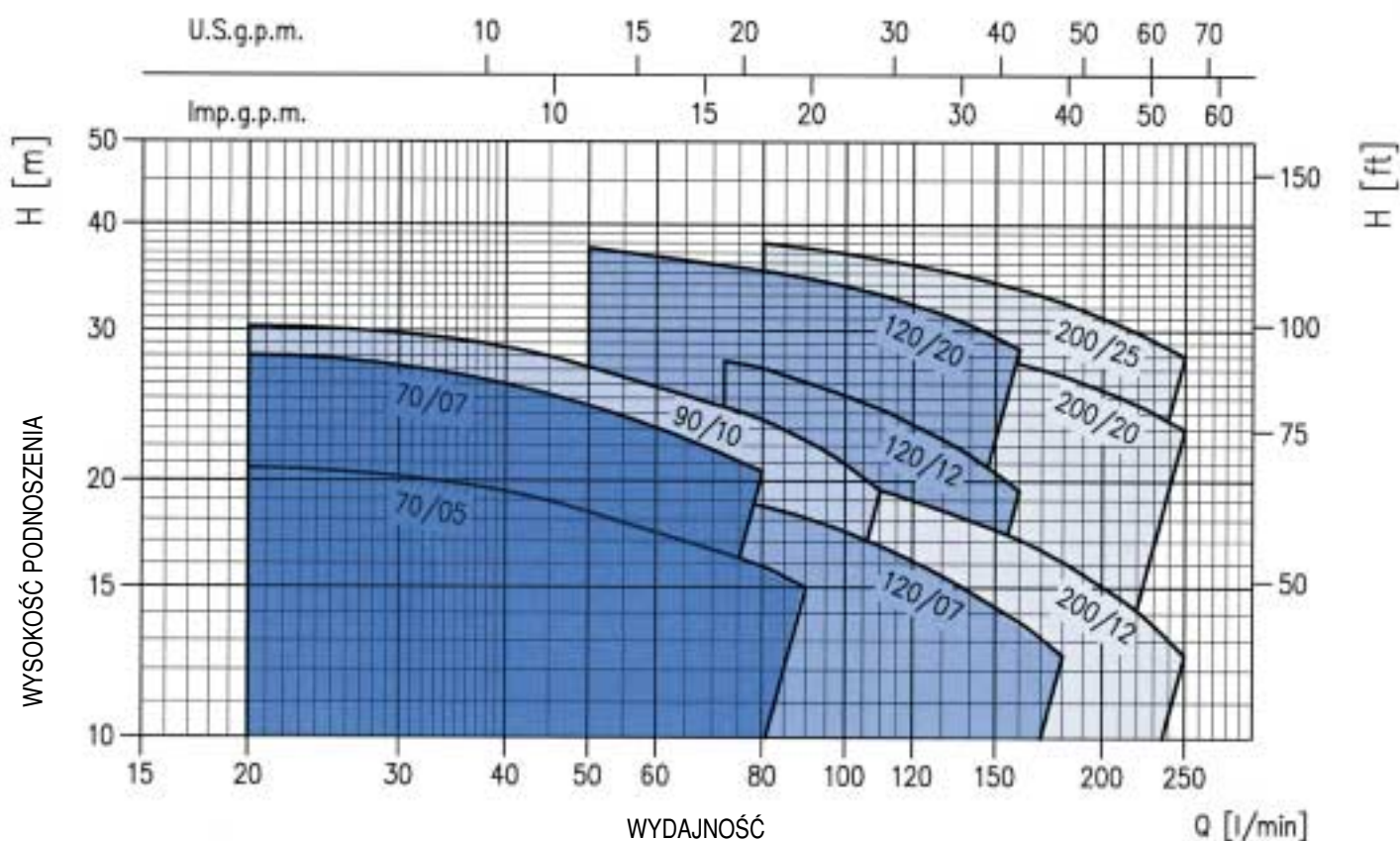
- Dwubiegunowy silnik z wymuszoną wentylacją T.E.F.C.
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 1~ 230V  $\pm$  10% 50Hz, 3~230-400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1"
- DNA 1" 1/2 dla CDX 200, DNA 1" 1/4 dla pozostałych modeli



### TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |     |     |     |       |     |       |     |     |    |    |     |     |       |        |      | Masa    |                  |                 |
|-------------|------------|--------------|-----|-----|-----|-------|-----|-------|-----|-----|----|----|-----|-----|-------|--------|------|---------|------------------|-----------------|
|             |            | A            | B   |     | C   | H     | H1  | H2    | H3  | H4  | M  | M1 | N   | N1  | R     | T      | W    | DNA     | Kg               |                 |
| Jednofazowa | Trójfazowa |              | 1~  | 3~  |     |       |     |       |     |     |    |    |     |     |       |        |      |         | Jedno-<br>fazowa | Trój-<br>fazowa |
| CDXM 70/05  | CDX 70/05  | 208          | 318 | 318 | 178 | 229,5 | 106 | 123,5 | 209 | 215 | 50 | 38 | 120 | 160 | 108   | PG11   | 92,5 | G 1 1/4 | 9,1              | 9,1             |
| CDXM 70/07  | CDX 70/07  | 208          | 318 | 318 | 178 | 229,5 | 106 | 123,5 | 209 | 215 | 50 | 38 | 120 | 160 | 108   | PG11   | 92,5 | G 1 1/4 | 10,4             | 10,4            |
| CDXM 90/10  | CDX 90/10  | 208          | 318 | 318 | 178 | 229,5 | 106 | 123,5 | 209 | 215 | 50 | 38 | 120 | 160 | 108   | PG11   | 92,5 | G 1 1/4 | 10,4             | 10,4            |
| CDXM 120/07 | CDX 120/07 | 208          | 318 | 318 | 178 | 229,5 | 106 | 123,5 | 209 | 215 | 50 | 38 | 120 | 160 | 108   | PG11   | 92,5 | G 1 1/4 | 11,9             | 11,9            |
| CDXM 120/12 | CDX 120/12 | 208          | 318 | 318 | 178 | 229,5 | 106 | 123,5 | 209 | 215 | 50 | 38 | 120 | 160 | 108   | PG13,5 | 92,5 | G 1 1/4 | 10,4             | 10,4            |
| CDXM 120/20 | CDX 120/20 | 232          | 345 | 345 | 199 | 250   | 118 | 132   | 235 | 253 | 55 | 40 | 140 | 180 | 105,5 | PG13,5 | 95   | G 1 1/4 | 12,5             | 12,5            |
| CDXM 200/12 | CDX 200/12 | 208          | 318 | 318 | 178 | 229,5 | 106 | 123,5 | 209 | 215 | 50 | 38 | 120 | 160 | 108   | PG13,5 | 92,5 | G 1 1/2 | 17,2             | 16,2            |
| CDXM 200/20 | CDX 200/20 | 208          | 345 | 345 | 199 | 229,5 | 106 | 123,5 | 223 | 240 | 55 | 40 | 140 | 180 | 105,5 | PG13,5 | 95   | G 1 1/2 | 16,3             | 11,4            |
|             | CDX 200/25 | 232          | -   | 345 | 199 | 250   | 118 | 132   | 235 | -   | 55 | 40 | 140 | 180 | 105,5 | -      | 95   | G 1 1/2 | 15,3             | 14,2            |

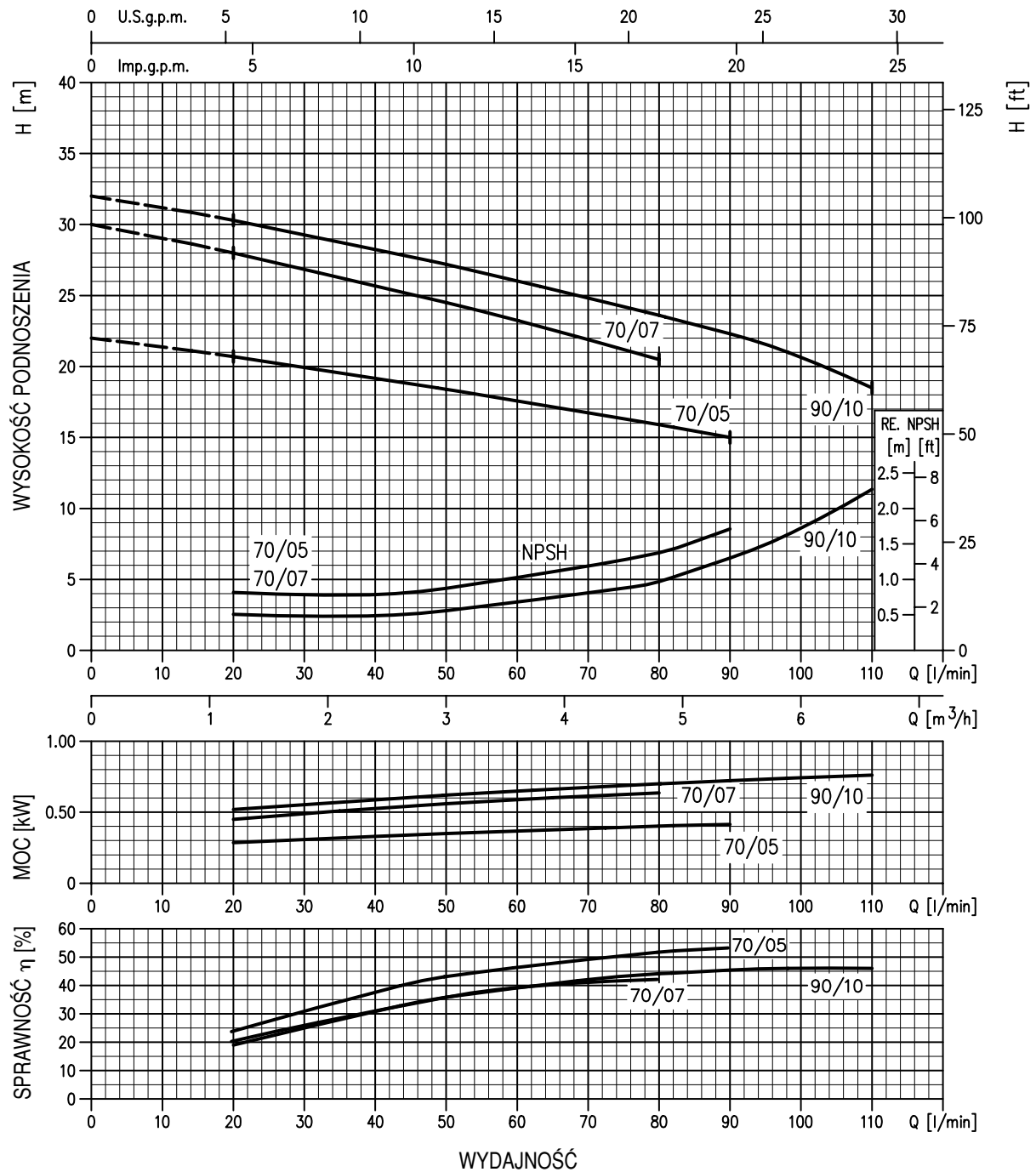
## ZAKRES ZASTOSOWANIA (w/g ISO 9906 Aneks A)


**TABELA DANYCH**

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność            |      |      |      |      |      |      |      |      |     |  |  |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|--------------------|------|---------------|------------------------|------|------|------|------|------|------|------|------|-----|--|--|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 20                     | 50   | 80   | 90   | 110  | 130  | 160  | 180  | 210  | 250 |  |  |
|                          |                             |      |             |     |                    |                    |      |               | 1,2                    | 3    | 4,8  | 5,4  | 6,6  | 7,8  | 9,6  | 10,8 | 12,6 | 15  |  |  |
|                          |                             |      |             |     |                    |                    |      |               | H=Wysokość podnoszenia |      |      |      |      |      |      |      |      |     |  |  |
| CDXM 70/05               | CDX 70/05                   | 0,37 | 12,5        | 450 | 3,1                | 2,4                | 1,4  | 20,7          | 18,4                   | 15,9 | 15   | -    | -    | -    | -    | -    | -    | -   |  |  |
| CDXM 70/07               | CDX 70/07                   | 0,55 | 16          | 450 | 4,6                | 3,5                | 2,0  | 28            | 24,5                   | 20,5 | -    | -    | -    | -    | -    | -    | -    | -   |  |  |
| CDXM 90/10               | CDX 90/10                   | 0,75 | 20          | 450 | 5,6                | 4,0                | 2,3  | 30,3          | 27,2                   | 23,6 | 22,3 | 19,5 | -    | -    | -    | -    | -    | -   |  |  |
| CDXM 120/07              | CDX 120/07                  | 0,55 | 16          | 450 | 4,6                | 3,2                | 1,9  | -             | 20,5                   | 18,7 | 18,1 | 16,8 | 15,5 | 13,7 | 12,5 | -    | -    | -   |  |  |
| CDXM 120/12              | CDX 120/12                  | 0,9  | 31,5        | 450 | 6,9                | 5,2                | 3,0  | -             | 29,5                   | 27,1 | 26,1 | 24,3 | 22,4 | 19,5 | -    | -    | -    | -   |  |  |
| CDXM 120/20              | CDX 120/20                  | 1,5  | 40          | 450 | 9,3                | 7,0                | 4,0  | -             | 37,5                   | 35,3 | 34,6 | 33,1 | 31,4 | 28,6 | -    | -    | -    | -   |  |  |
| CDXM 200/12              | CDX 200/12                  | 0,9  | 31,5        | 450 | 6,3                | 4,7                | 2,7  | -             | -                      | 20,6 | 20,2 | 19,5 | 18,5 | 17,1 | 16,1 | 14,6 | 12,5 | -   |  |  |
| CDXM 200/20              | CDX 200/20                  | 1,5  | 40          | 450 | 10,7               | 7,0                | 4,0  | -             | -                      | -    | 31   | 30,6 | 29,7 | 28,9 | 27,5 | 26,6 | 25,1 | 23  |  |  |
| CDXM 200/25              | CDX 200/25                  | 1,8  | -           | -   | -                  | 8,2                | 4,8  | -             | -                      | -    | 38   | 37,5 | 36,4 | 35,3 | 33,6 | 32,4 | 30,5 | 28  |  |  |

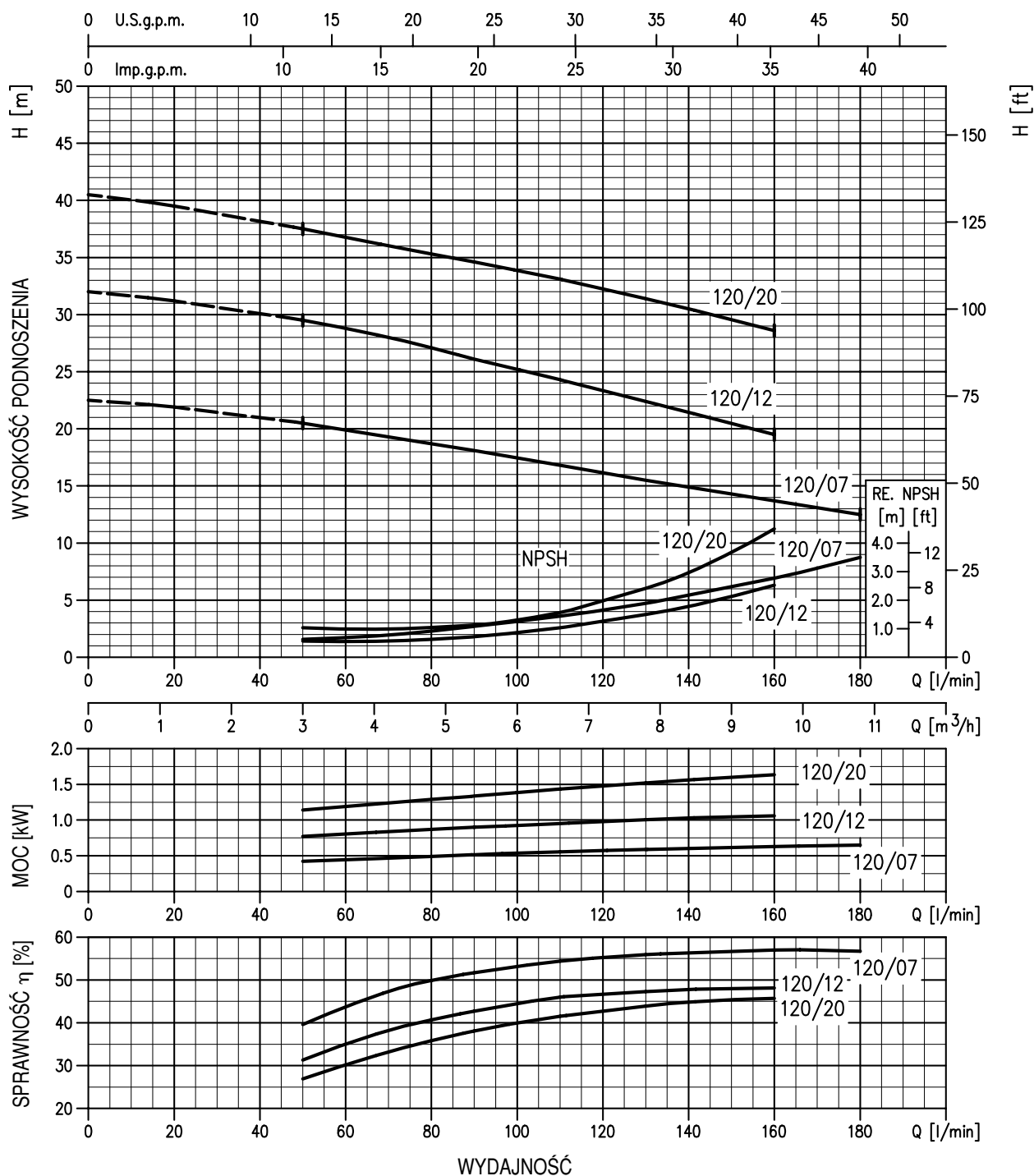
## CHARAKTERYSTYKI HYDRAULICZNE SERIA CDX 70-90

(w/g ISO 9906 Aneks A)

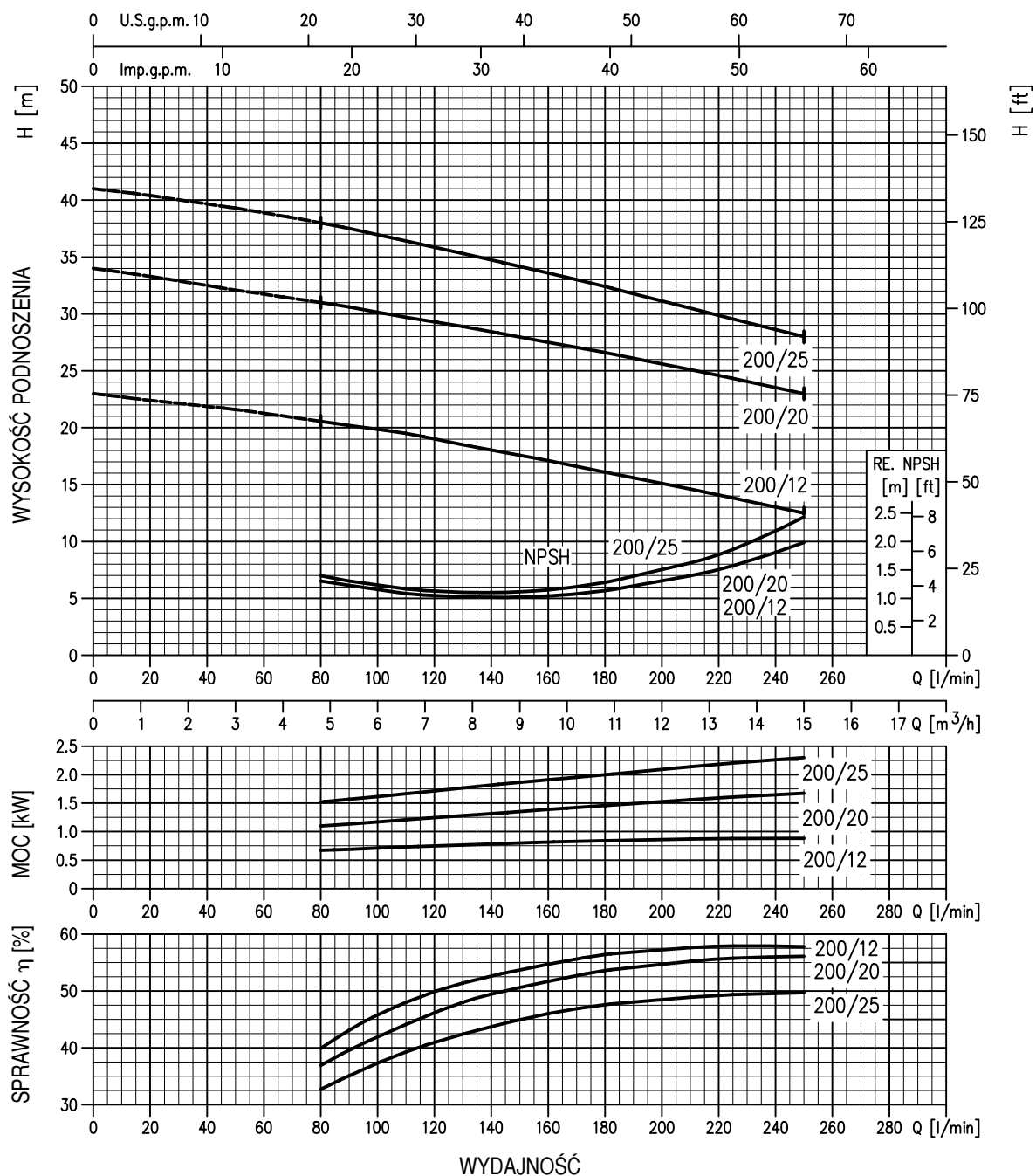


## CHARAKTERYSTYKI HYDRAULICZNE SERIA CDX 120

(w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE SERIA CDX 200 (w/g ISO 9906 Aneks A)





Dwuwirnikowe pompy odśrodkowe, wszystkie komponenty hydrauliczne wykonane ze stali nierdzewnej AISI 304, przeznaczone do pompowania czystej wody oraz innych cieczy, które nie wchodzi w reakcje chemiczne ze stalą nierdzewną AISI 304, do systemów irygacji i nawadniania, do podnoszenia ciśnienia w zestawach hydroforowych itp.



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 8 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
60°C dla innych celów  
110°C dla wersji H

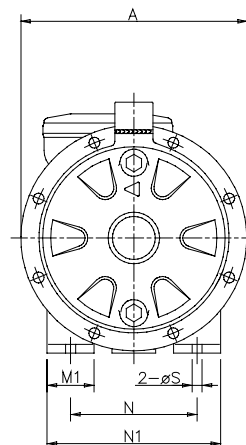
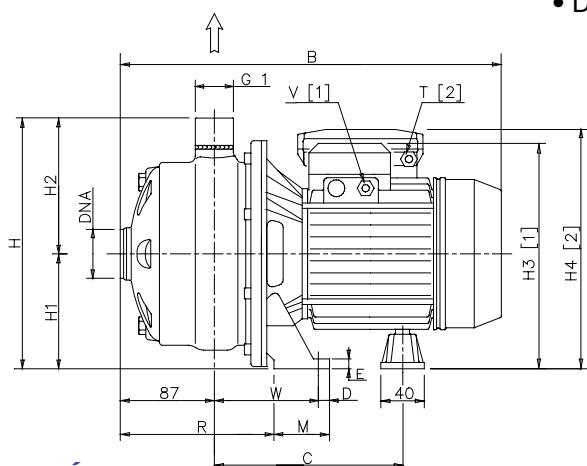
### MATERIAŁY

- Obudowa pompy, pokrywa obudowy, wirnik i dyfuzor wykonane ze stali AISI 304
- Wał: AISI 304
- Wspornik i obudowa silnika: aluminium

- Uszczelnienie wału: mechaniczne węgiel/ceramika/NBR (SiC/SiC/Vitton w wersji 2CDXHS)
- Specjalne uszczelnienie wału na życzenie klienta

### DANE TECHNICZNE

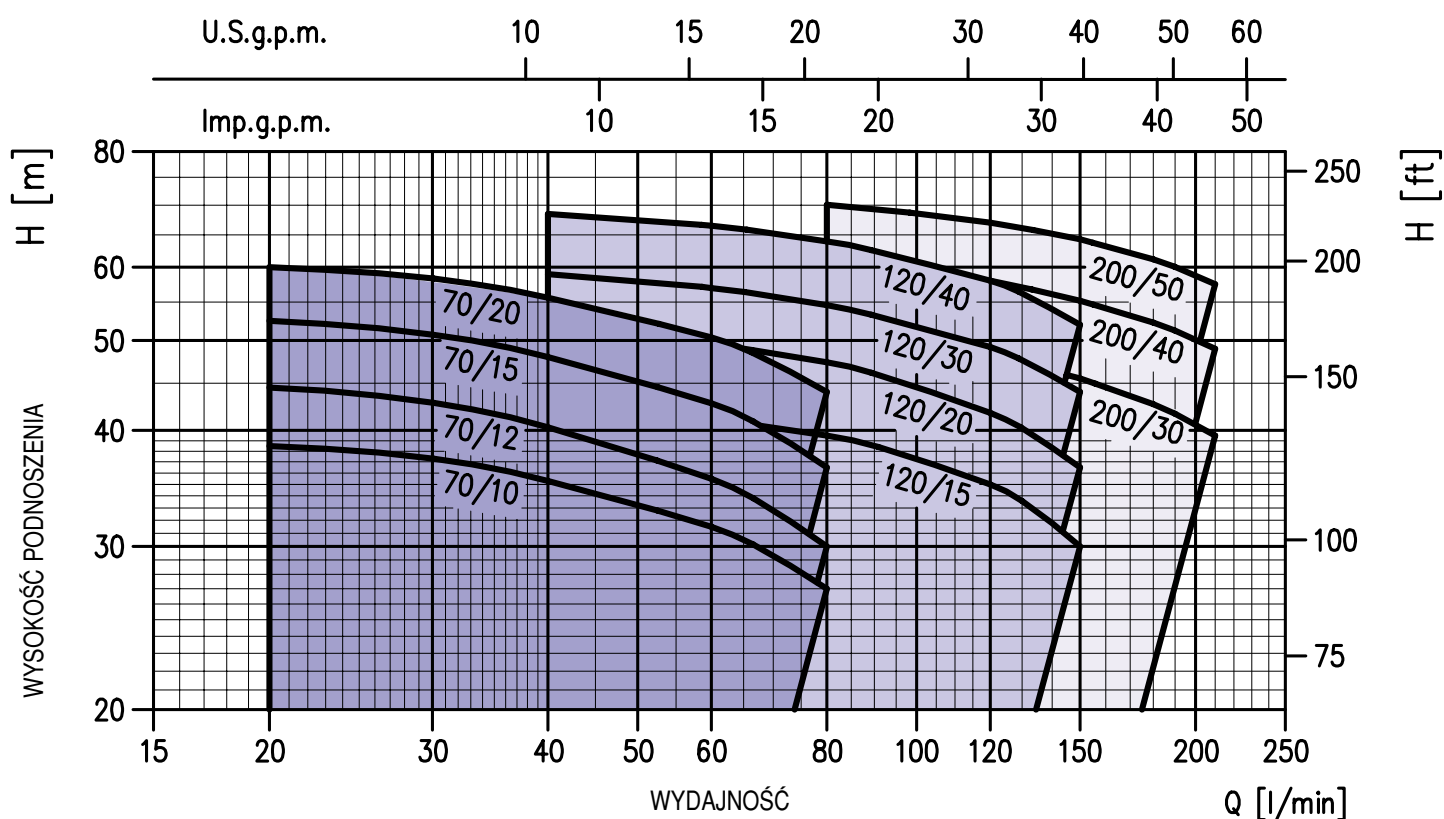
- Dwubiegunowy silnik z wymuszoną wentylacją T.E.F.C.
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 1~ 230V ± 10% 50Hz, 3~230-400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1"
- DNA 1" 1/2 dla 2CDX200
- DNA 1" 1/4 dla pozostałych modeli



### TABELA WYMIARÓW

| Typ pompy    |             | Wymiary (mm) |     |       |      |    |     |     |     |     |     |    |    |     |     |       |        |        |       |    | Masa    |                  |                  |
|--------------|-------------|--------------|-----|-------|------|----|-----|-----|-----|-----|-----|----|----|-----|-----|-------|--------|--------|-------|----|---------|------------------|------------------|
|              |             | A            | B   | C     | D    | E  | H   | H1  | H2  | H3  | H4  | M  | M1 | N   | N1  | R     | T      | V      | W     | S  | DNA     | Kg               |                  |
| Jednofazowa  | Trójfazowa  |              |     |       |      |    |     |     |     | 1~  | 3~  |    |    |     |     |       | 1~     | 3~     |       |    |         | Jedno-<br>fazowa | Trój-fazo-<br>wa |
| 2CDXM 70/10  | 2CDX 70/10  | 208          | 355 | 182   | 12,5 | 8  | 229 | 106 | 123 | 209 | 215 | 50 | 38 | 120 | 160 | 142,5 | PG11   | PG11   | 93    | 9  | G 1 1/4 |                  |                  |
| 2CDXM 70/12  | 2CDX 70/12  | 208          | 355 | 182   | 12,5 | 8  | 229 | 106 | 123 | 209 | 215 | 50 | 38 | 120 | 160 | 142,5 | PG11   | PG11   | 93    | 9  | G 1 1/4 | 13,5             | 13,3             |
| 2CDXM 70/15  | 2CDX 70/15  | 232          | 380 | 199   | 12,5 | 8  | 250 | 118 | 132 | 235 | 249 | 55 | 40 | 140 | 180 | 140   | PG13,5 | PG11   | 95,5  | 9  | G 1 1/4 | 14,2             | 13,8             |
| 2CDXM 70/20  | 2CDX 70/20  | 232          | 385 | 199   | 12,5 | 8  | 250 | 118 | 132 | 235 | 249 | 55 | 40 | 140 | 180 | 140   | PG13,5 | PG11   | 95,5  | 9  | G 1 1/4 | 17,4             | 16,4             |
| 2CDXM 120/15 | 2CDX 120/15 | 208          | 380 | 199   | 12,5 | 8  | 229 | 106 | 123 | 223 | 237 | 55 | 40 | 140 | 180 | 140   | PG13,5 | PG11   | 95,5  | 9  | G 1 1/4 | 18,6             | 18,2             |
| 2CDXM 120/20 | 2CDX 120/20 | 208          | 380 | 199   | 12,5 | 8  | 229 | 106 | 123 | 223 | 237 | 55 | 40 | 140 | 180 | 140   | PG13,5 | PG11   | 95,5  | 9  | G 1 1/4 | 15,5             | 15,3             |
| -            | 2CDX 120/30 | 232          | 390 | 209,5 | 12,5 | 8  | 250 | 118 | 132 | 240 | -   | 65 | 40 | 140 | 180 | 145   | -      | PG13,5 | 110,5 | 9  | G 1 1/4 | 18,0             | 16,9             |
| -            | 2CDX 120/40 | 232          | 420 | 231,5 | 12,5 | 8  | 250 | 118 | 132 | 240 | -   | 65 | 40 | 140 | 180 | 145   | -      | PG13,5 | 110,5 | 9  | G 1 1/4 | -                | 23,2             |
| -            | 2CDX 200/30 | 208          | 420 | 231,5 | 12,5 | 8  | 241 | 118 | 132 | 240 | -   | 55 | 40 | 140 | 180 | 145   | -      | PG13,5 | 100,5 | 9  | G 1 1/2 | -                | 26,4             |
| -            | 2CDX 200/40 | 232          | 420 | 231,5 | 12,5 | 8  | 250 | 118 | 132 | 240 | -   | 65 | 40 | 140 | 180 | 145   | -      | PG13,5 | 110,5 | 9  | G 1 1/2 | -                | 25,0             |
| -            | 2CDX 200/50 | 232          | 445 | 231,5 | 16,0 | 13 | 250 | 118 | 132 | 252 | -   | 68 | 50 | 160 | 210 | 145   | -      | PG16   | 110,0 | 12 | G 1 1/2 | -                | 32,7             |

### ZAKRES ZASTOSOWANIA (w/g ISO 9906 Aneks A)

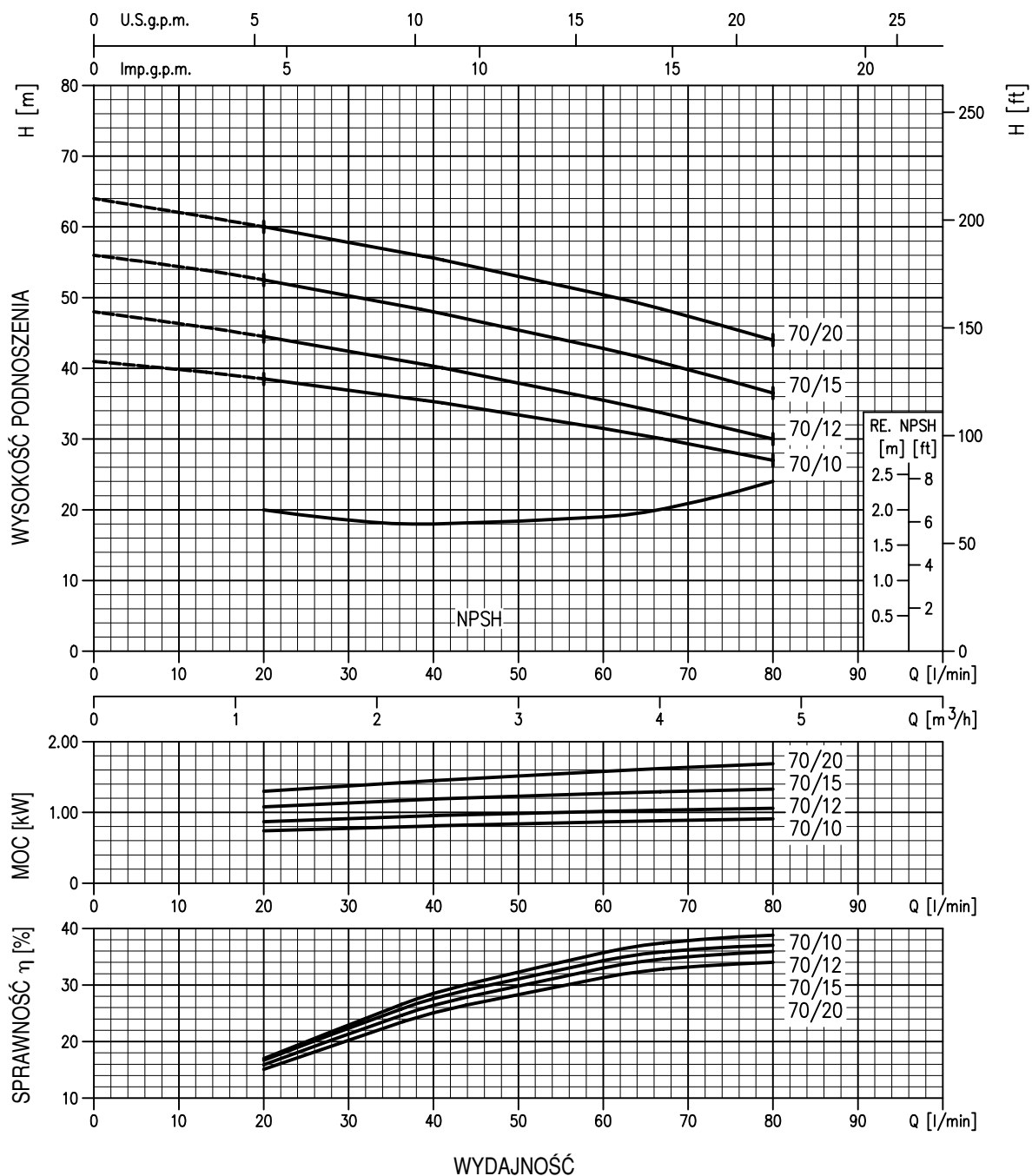


### TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |                              |     | l/min<br>m³/h | Q=Wydajność            |      |      |      |      |      |      |      |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|------------------------------|-----|---------------|------------------------|------|------|------|------|------|------|------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | V <sub>c</sub> | Jedno-<br>fazowy   | Trójfazowy<br>230V      400V |     |               | 20                     | 40   | 60   | 80   | 120  | 150  | 180  | 210  |
|                          |                             |      |             |                |                    |                              |     |               | H=Wysokość podnoszenia |      |      |      |      |      |      |      |
| 2CDXM 70/10              | 2CDX 70/10                  | 0,75 | 20          | 450            | 6,0                | 4,0                          | 2,3 |               | 38,5                   | 35,3 | 31,5 | 27   | -    | -    | -    | -    |
| 2CDXM 70/12              | 2CDX 70/12                  | 0,9  | 31,5        | 450            | 7,0                | 5,0                          | 2,9 |               | 44,5                   | 40,3 | 35,5 | 30   | -    | -    | -    | -    |
| 2CDXM 70/15              | 2CDX 70/15                  | 1,1  | 35          | 450            | 8,0                | 5,6                          | 3,2 |               | 52,5                   | 48   | 42,8 | 36,5 | -    | -    | -    | -    |
| 2CDXM 70/20              | 2CDX 70/20                  | 1,5  | 40          | 450            | 9,9                | 7,0                          | 4,0 |               | 60                     | 55,6 | 50,4 | 44   | -    | -    | -    | -    |
| 2CDXM 120/15             | 2CDX 120/15                 | 1,1  | 35          | 450            | 8,3                | 5,6                          | 3,2 |               | -                      | 42   | 41   | 39,5 | 35   | 30   | -    | -    |
| 2CDXM 120/20             | 2CDX 120/20                 | 1,5  | 40          | 450            | 10,2               | 7,0                          | 4,0 |               | -                      | 51,5 | 49,5 | 47,4 | 41,8 | 36,5 | -    | -    |
| -                        | 2CDX 120/30                 | 2,2  | -           | -              | -                  | 8,7                          | 5,0 |               | -                      | 59   | 57   | 54,6 | 49,2 | 44   | -    | -    |
| -                        | 2CDX 120/40                 | 3,0  | -           | -              | -                  | 10,8                         | 6,2 |               | -                      | 68,5 | 66,5 | 64   | 58   | 52   | -    | -    |
| -                        | 2CDX 200/30                 | 2,2  | -           | -              | -                  | 10,4                         | 6,0 |               | -                      | -    | 52   | 50,8 | 48,1 | 45,5 | 42,7 | 39,5 |
| -                        | 2CDX 200/40                 | 3,0  | -           | -              | -                  | 11,4                         | 6,6 |               | -                      | -    | 62,5 | 61,1 | 58   | 55,2 | 52,3 | 49   |
| -                        | 2CDX 200/50                 | 3,7  | -           | -              | -                  | 15                           | 8,7 |               | -                      | -    | 71,5 | 70,1 | 67   | 64,3 | 61,2 | 57,5 |

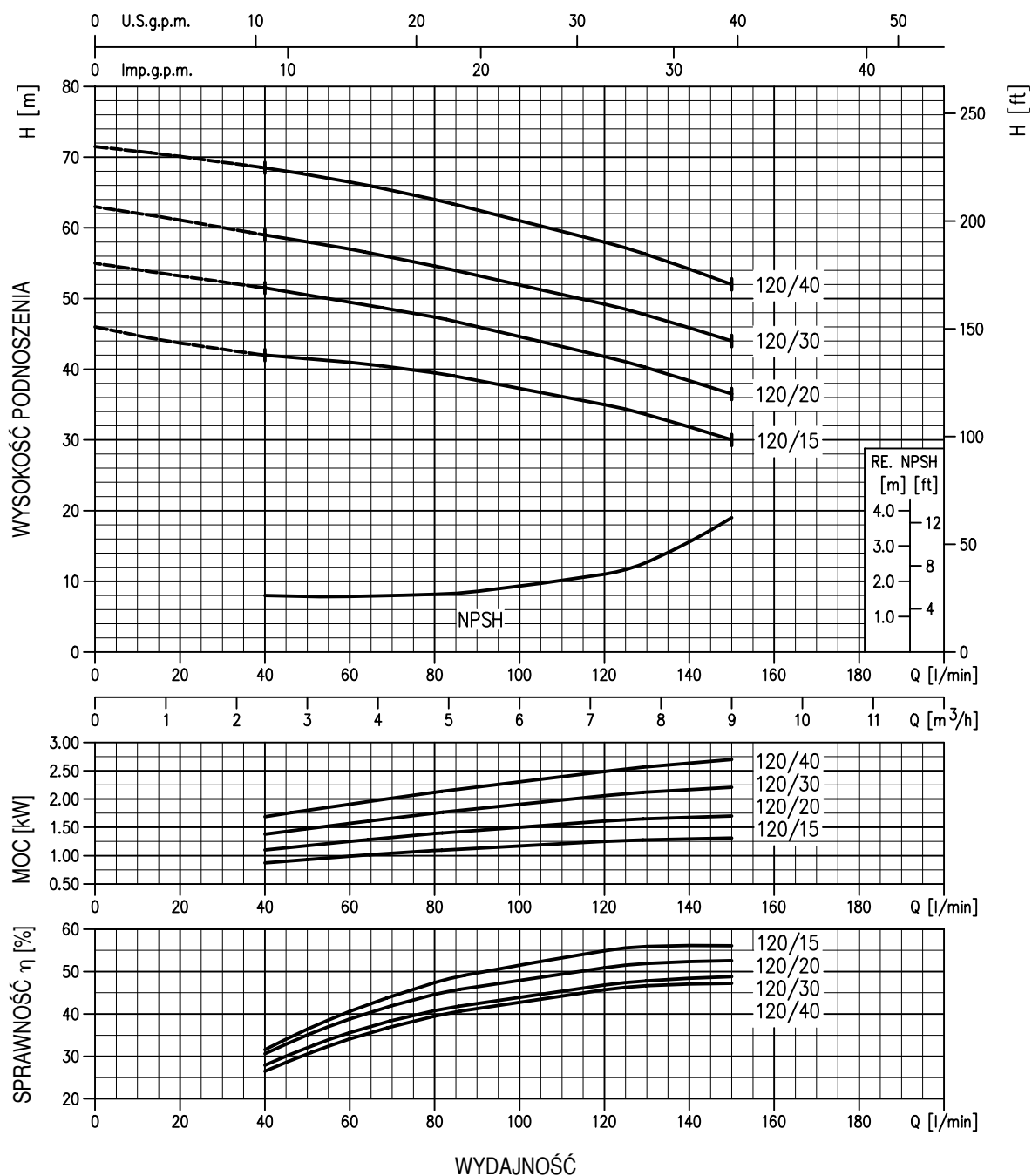
## CHARAKTERYSTYKI HYDRAULICZNE SERIA 2CDX 70

(w/g ISO 9906 Aneks A)



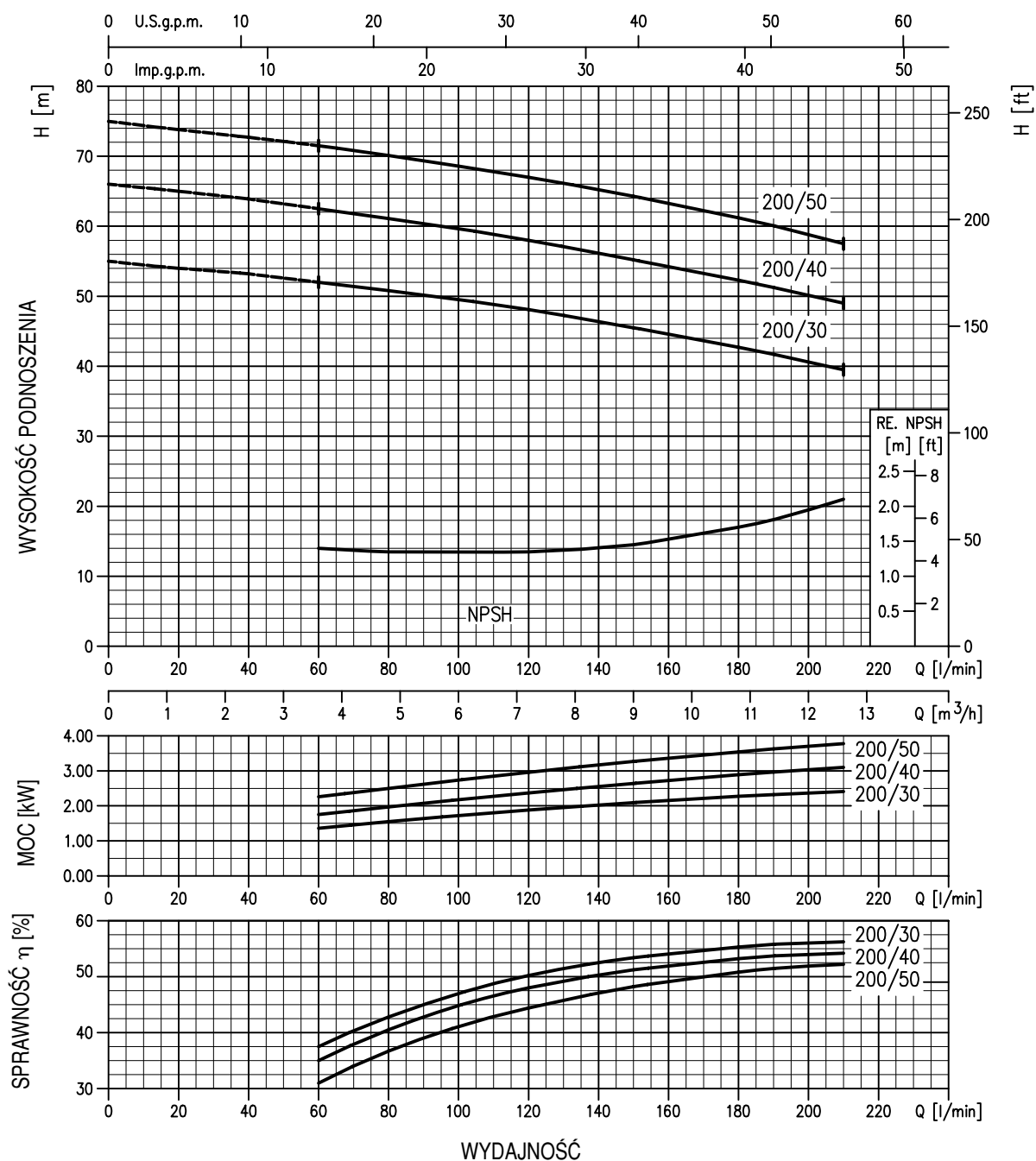
## CHARAKTERYSTYKI HYDRAULICZNE SERIA 2CDX 120

(w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE SERIA 2CDX 200

(w/g ISO 9906 Aneks A)



Pompy z wirnikiem peryferyalnym wykonane z żeliwa i brązu przeznaczone do pompowania wody zarówno gorącej jak i zimnej



## SPECYFIKACJA

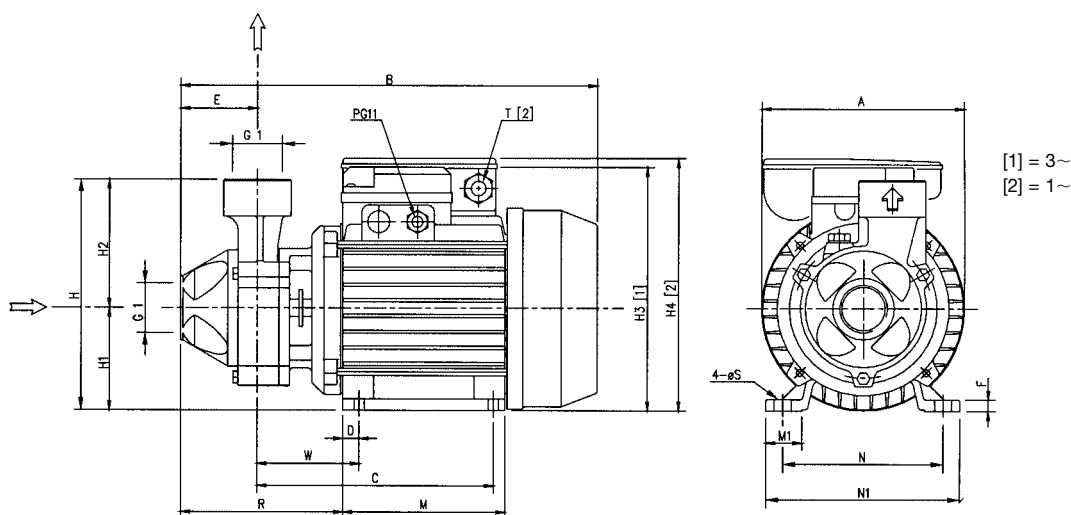
- Maksymalne ciśnienie pracy:  
6 bar dla PRA 0.50  
7,5 bar dla PRA 0.80  
12 bar dla pozostałych modeli
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
80°C dla innych celów

## MATERIAŁY

- Obudowa pompy i wspornik wykonane z żeliwa
- Wał: stal C10 dla PRA 0,50  
stal AISI 303 dla innych typów
- Uszczelnienie wału: mechaniczne węgiel/ceramika/NBR

## DANE TECHNICZNE

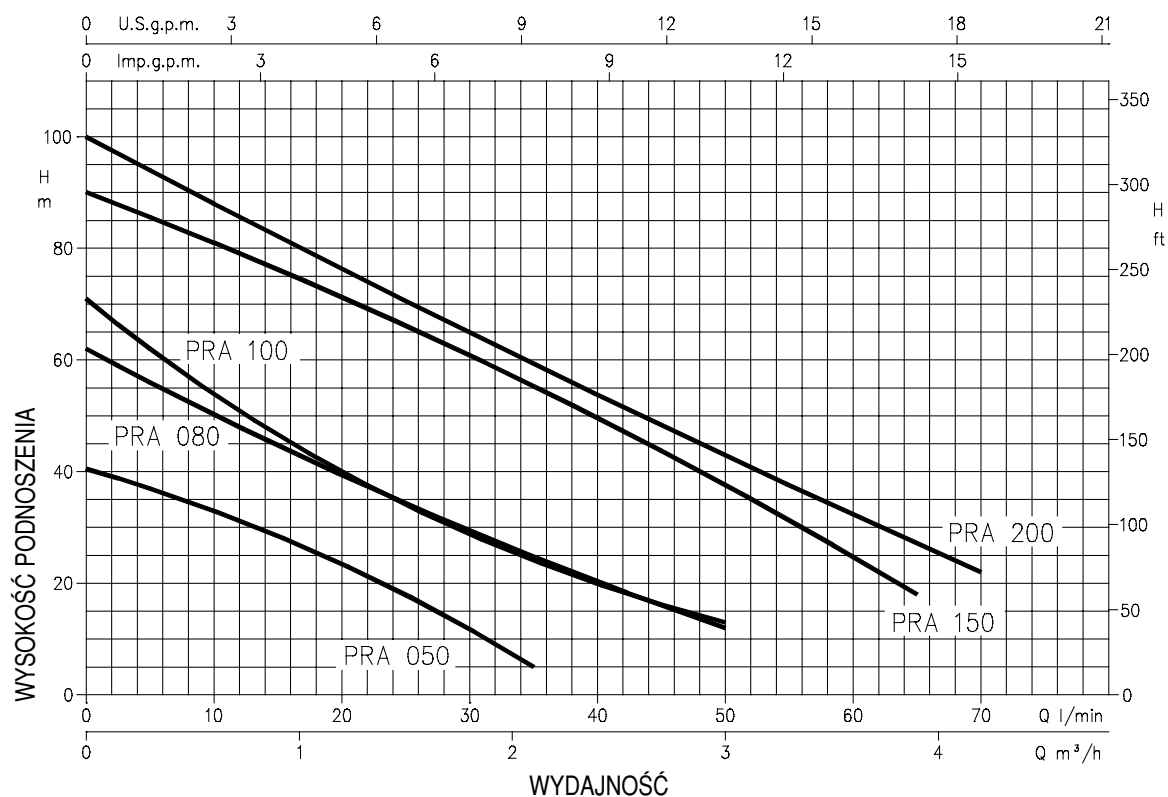
- Dwubiegunowy silnik z wymuszoną wentylacją T.E.F.C.
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie: 1~ 230V  $\pm$  10% 50Hz,  
3~230-400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy  
oraz zabezpieczenie przeciążeniowe  
dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM – DNA 1"



**TABELA WYMIARÓW**

| Typ pompy | Wymiary (mm) |       |       |    |      |    |     |    |    |       |     |     |    |     |     |       |        |    | Masa (kg) |      |
|-----------|--------------|-------|-------|----|------|----|-----|----|----|-------|-----|-----|----|-----|-----|-------|--------|----|-----------|------|
|           | A            | B     | C     | D  | E    | F  | H   | H1 | H2 | H3    | H4  | M   | M1 | N   | N1  | R     | T      | W  |           | S    |
| PRA 0.50M | 130          | 263.5 | 148.5 | 10 | 50   | 7  | 143 | 63 | 80 | -     | 160 | 100 | 23 | 100 | 120 | 118.5 | PG11   | 69 | 7         | 5.6  |
| PRA 0.50T | 130          | 263.5 | 148.5 | 10 | 50   | 7  | 143 | 63 | 80 | 149.5 | -   | 100 | 23 | 100 | 120 | 118.5 | -      | 69 | 7         | 5.6  |
| PRA 0.80M | 130          | 290.5 | 159.3 | 11 | 53.8 | 9  | 161 | 71 | 90 | -     | 178 | 112 | 25 | 112 | 135 | 122   | PG11   | 69 | 7         | 9.2  |
| PRA 0.80T | 150          | 290.5 | 159.3 | 11 | 53.8 | 9  | 161 | 71 | 90 | 167.5 | -   | 112 | 25 | 112 | 135 | 122   | -      | 69 | 7         | 9.2  |
| PRA 1.00M | 150          | 290.5 | 159.3 | 11 | 53.8 | 9  | 161 | 71 | 90 | -     | 178 | 112 | 25 | 112 | 135 | 122   | PG11   | 69 | 7         | 9.7  |
| PRA 1.00T | 150          | 290.5 | 159.3 | 11 | 53.8 | 9  | 161 | 71 | 90 | 167.5 | -   | 112 | 25 | 112 | 135 | 122   | -      | 69 | 7         | 9.7  |
| PRA 1.50M | 162          | 330.5 | 188   | 12 | 57   | 12 | 175 | 80 | 95 | -     | 212 | 124 | 28 | 125 | 152 | 144   | PG13.5 | 88 | 9         | 14.5 |
| PRA 1.50T | 162          | 330.5 | 188   | 12 | 57   | 12 | 175 | 80 | 95 | 186.5 | -   | 124 | 28 | 125 | 152 | 144   | -      | 88 | 9         | 14.5 |
| PRA 2.00M | 162          | 330.5 | 188   | 12 | 57   | 12 | 175 | 80 | 95 | -     | 212 | 124 | 28 | 125 | 152 | 144   | PG13.5 | 88 | 9         | 15.8 |
| PRA 2.00T | 162          | 330.5 | 188   | 12 | 57   | 12 | 175 | 80 | 95 | 186.5 | -   | 124 | 28 | 125 | 152 | 144   | -      | 88 | 9         | 15.8 |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)


**TABELA DANYCH**

| Typ pompy                |                             | kW   | Kondensator |     | l/min<br>m³/h | Q=Wydajność                |           |           |           |           |         |           |           |
|--------------------------|-----------------------------|------|-------------|-----|---------------|----------------------------|-----------|-----------|-----------|-----------|---------|-----------|-----------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  |               | 5<br>0.3                   | 10<br>0.6 | 15<br>0.9 | 20<br>1.2 | 35<br>2.1 | 50<br>3 | 65<br>3.9 | 70<br>4.2 |
|                          |                             |      |             |     |               | H=Wysokość podnoszenia (m) |           |           |           |           |         |           |           |
| PRA 0.50M                | PRA 0.50T                   | 0.37 | 10          | 450 |               | 37                         | 33.3      | 28.7      | 23.7      | 5         | -       | -         | -         |
| PRA 0.80M                | PRA 0.80T                   | 0.6  | 16          | 450 |               | 56                         | 50.7      | 45.1      | 39.8      | 25        | 12      | -         | -         |
| PRA 1.00M                | PRA 1.00T                   | 0.75 | 20          | 450 |               | 62                         | 54.4      | 47        | 40.4      | 24.3      | 13      | -         | -         |
| PRA 1.50M                | PRA 1.50T                   | 1.1  | 35          | 450 |               | -                          | 81        | 76.9      | 71.9      | 55.8      | 37.9    | 18        | -         |
| PRA 2.00M                | PRA 2.00T                   | 1.5  | 40          | 450 |               | -                          | 88        | 82.9      | 77        | 59.8      | 43.3    | 27.4      | 22        |

Pompy poziome, odśrodkowe, wielostopniowe przeznaczone do podnoszenia ciśnienia w systemach ciśnieniowych, myjniach samochodowych, małych ogrodowych systemach irygacyjnych, do pompowania czystej wody



### SPECYFIKACJA

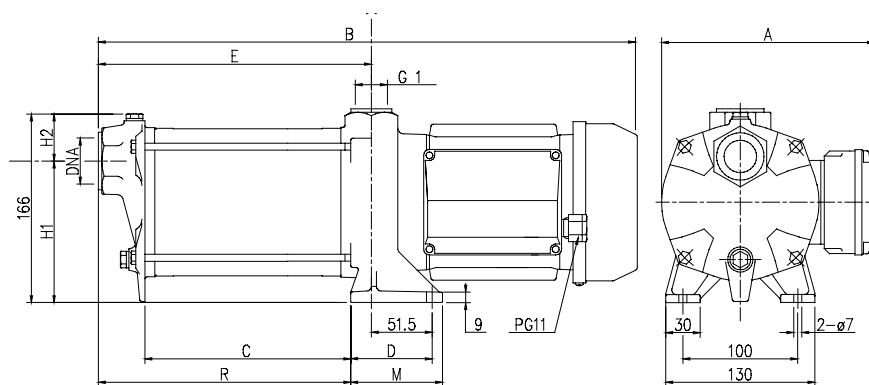
- Maksymalne ciśnienie pracy: 10 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla innych celów

### MATERIAŁY

- Obudowa pompy i wspornik wykonane z żeliwa
- Obudowa zewnętrzna: stal AISI 304
- Wirnik i dyfuzor: technopolimer
- Wał: stal AISI 416
- Uszczelnienie wału: mechaniczne węgiel/ceramika/NBR

### DANE TECHNICZNE

- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie: 1~ 230V  $\pm$  10% 50Hz, 3~230-400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1"- DNA 1"1/4 dla modeli COMPACT B/12 i B/15  
1" dla pozostałych modeli



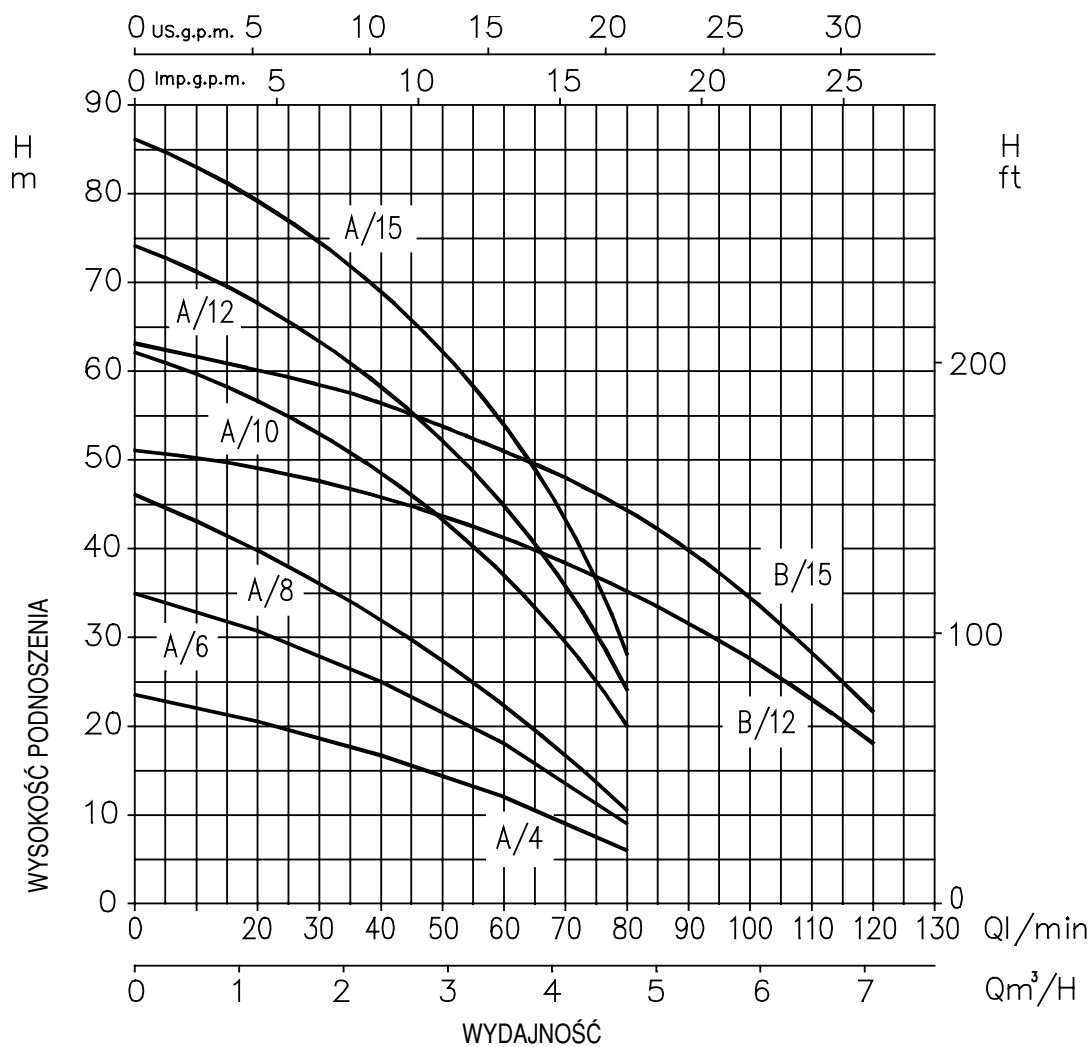
**COMPACT**

### TABELA WYMIARÓW

| Typ pompy     |              | Wymiary (mm) |     |       |     |      |       |       |      |    |       |      | Masa<br>Kg |
|---------------|--------------|--------------|-----|-------|-----|------|-------|-------|------|----|-------|------|------------|
|               |              | A            |     | B     | C   | D    | E     | H1    | H2   | M  | R     | DNA  |            |
| Jednofazowa   | Trójfazowa   | 1~           | 3~  |       |     |      |       |       |      |    |       |      |            |
| COMPACT AM/4  | COMPACT A/4  | 183,5        | 159 | 307,5 | 82  | 51,5 | 120,5 | 127,5 | 38,5 | 62 | 120,5 | G1   | 8,4        |
| COMPACT AM/6  | COMPACT A/6  | 183,5        | 159 | 333,5 | 108 | 51,5 | 146,5 | 127,5 | 38,5 | 62 | 146,5 | G1   | 9,3        |
| COMPACT AM/8  | COMPACT A/8  | 183,5        | 159 | 359,5 | 134 | 51,5 | 172,5 | 127,5 | 38,5 | 62 | 172,5 | G1   | 10,3       |
| COMPACT AM/10 | COMPACT A/10 | 193,5        | 169 | 426   | 142 | 69,5 | 198,5 | 123,5 | 42,5 | 80 | 180,5 | G1   | 14,5       |
| COMPACT AM/12 | COMPACT A/12 | 193,5        | 169 | 452   | 168 | 69,5 | 224,5 | 123,5 | 42,5 | 80 | 206,5 | G1   | 15,5       |
| COMPACT AM/15 | COMPACT A/15 | 193,5        | 169 | 490   | 194 | 69,5 | 250,5 | 123,5 | 42,5 | 80 | 232,5 | G1   | 16,7       |
| COMPACT BM/12 | COMPACT B/12 | 193,5        | 169 | 400   | 116 | 69,5 | 172,5 | 123,5 | 42,5 | 80 | 154,5 | G1 ¼ | 14,9       |
| COMPACT BM/15 | COMPACT B/15 | 193,5        | 169 | 438   | 142 | 69,5 | 198,5 | 123,5 | 42,5 | 80 | 180,5 | G1 ¼ | 15,9       |



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |                    |                            | l/min<br>m³/h | Q=Wydajność |      |      |      |      |      |     |     |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|--------------------|----------------------------|---------------|-------------|------|------|------|------|------|-----|-----|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V                       |               | 20          | 30   | 40   | 50   | 60   | 80   | 100 | 120 |
|                          |                             |      |             |     |                    |                    | 1,2                        |               | 1,8         | 2,4  | 3    | 3,6  | 4,8  | 6    | 7,2 |     |
|                          |                             |      |             |     |                    |                    | H=Wysokość podnoszenia (m) |               |             |      |      |      |      |      |     |     |
| COMPACT AM/4             | COMPACT A/4                 | 0,3  | 10          | 450 | 2,5                | 1,9                | 1,1                        | 20,5          | 18,7        | 16,7 | 14,4 | 11,9 | 6    | -    | -   |     |
| COMPACT AM/6             | COMPACT A/6                 | 0,44 | 12,5        | 450 | 3,0                | 2,3                | 1,3                        | 30,7          | 28,2        | 25,2 | 21,8 | 18   | 9    | -    | -   |     |
| COMPACT AM/8             | COMPACT A/8                 | 0,6  | 14          | 450 | 4,0                | 2,6                | 1,5                        | 39,7          | 36,1        | 32   | 27,4 | 22,4 | 10,5 | -    | -   |     |
| COMPACT AM/10            | COMPACT A/10                | 0,75 | 20          | 450 | 6,0                | 4,2                | 2,4                        | 56,5          | 53          | 48,6 | 43,4 | 37,1 | 20   | -    | -   |     |
| COMPACT AM/12            | COMPACT A/12                | 0,9  | 31,5        | 450 | 6,2                | 4,7                | 2,4                        | 67,5          | 63,4        | 58,4 | 52,3 | 44,9 | 24   | -    | -   |     |
| COMPACT AM/15            | COMPACT A/15                | 1,1  | 31,5        | 450 | 7,3                | 5,7                | 3,3                        | 79            | 74,6        | 69,1 | 62,3 | 54   | 28   | -    | -   |     |
| COMPACT BM/12            | COMPACT B/12                | 0,9  | 31,5        | 450 | 5,8                | 4,7                | 2,7                        | -             | 47,5        | 45,9 | 43,7 | 41,3 | 35,2 | 27,6 | 18  |     |
| COMPACT BM/15            | COMPACT B/15                | 1,1  | 31,5        | 450 | 7,3                | 5,9                | 3,4                        | -             | 58          | 56   | 54   | 51,5 | 44,5 | 34,5 | 22  |     |

Wielostopniowe pompy elektryczne budowy pionowej, przeznaczone do podnoszenia ciśnienia wody pitnej do celów gospodarczych, systemów irygacyjnych, oraz do pompowania czystej wody w innych zastosowaniach



### SPECYFIKACJA

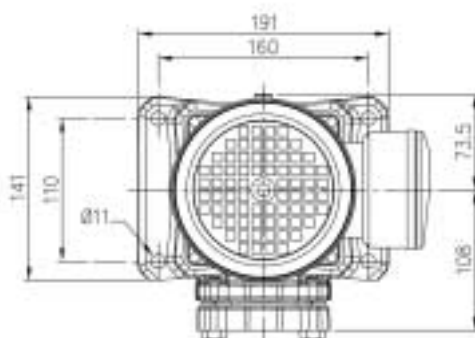
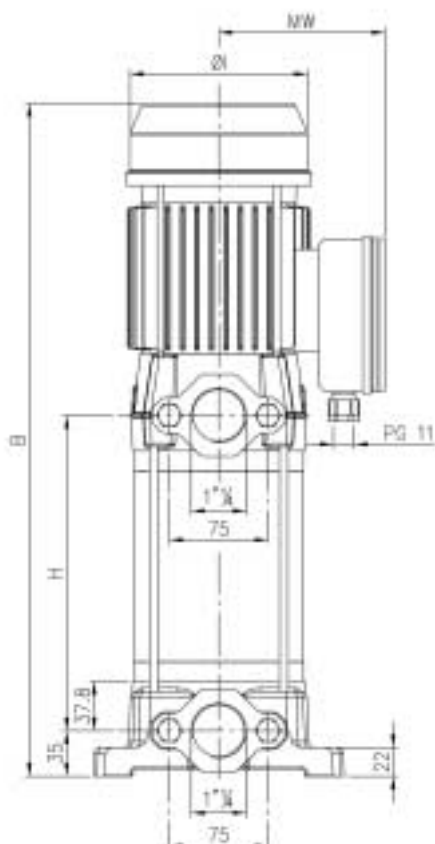
- Maksymalne ciśnienie pracy: 10 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla innych celów

### MATERIAŁY

- Korpus pompy oraz górna głowica: żeliwo
- Płaszcz zewnętrzny pompy: stal nierdzewna AISI 304
- Wał pompy: stal nierdzewna AISI 416
- Wirniki i kierownice pompy: technopolimer
- Uszczelnienie wału: mechaniczne ślizgowe węgiel/ceramika/NBR

### DANE TECHNICZNE

- Asynchroniczny silnik 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie; 1~230V  $\pm$  10% 50Hz,  
3~230/400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy  
oraz zabezpieczenie przeciążeniowe dla wersji  
jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM – DNA: 1" 1/4



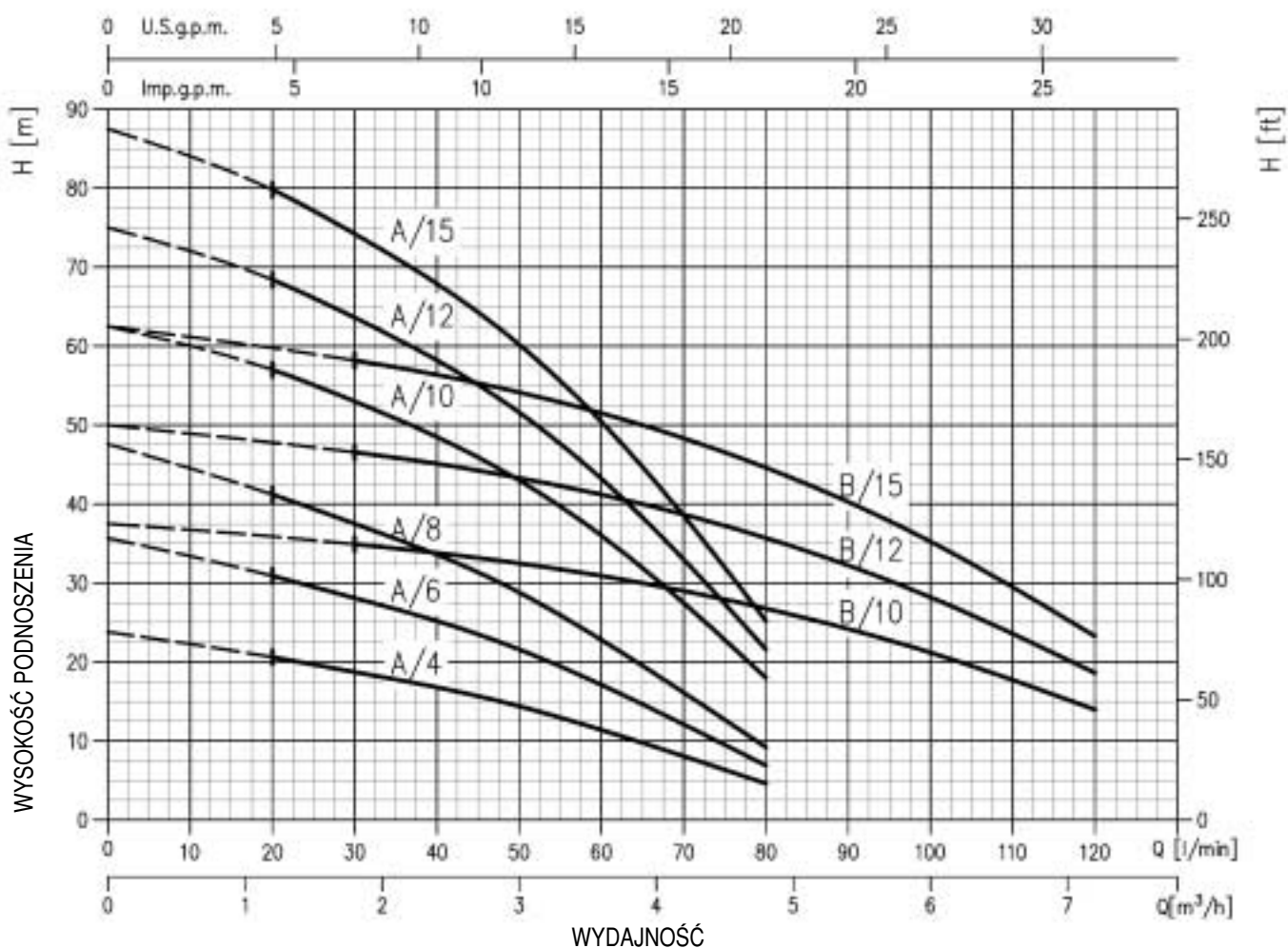
### TABELA WYMIARÓW

| Typ pompy | Wymiary (mm) |     |     |     |     |     | Masa |      |
|-----------|--------------|-----|-----|-----|-----|-----|------|------|
|           | Motor        | B   | H   | Ø   | MW  |     | Kg.  |      |
| CVM AM/4  | 63           | 355 | 112 | 116 | 92  | 113 | 11,0 | 11,0 |
| CVM AM/6  | 63           | 381 | 138 | 116 | 92  | 113 | 11,7 | 11,6 |
| CVM AM/8  | 63           | 407 | 164 | 116 | 92  | 113 | 12,7 | 12,6 |
| CVM AM/10 | 71           | 468 | 190 | 137 | 101 | 122 | 16,5 | 16,6 |
| CVM AM/12 | 71           | 494 | 216 | 137 | 101 | 122 | 17,5 | 17,6 |
| CVM AM/15 | 71           | 531 | 242 | 137 | 101 | 122 | 18,5 | 18,6 |
| CVM BM/10 | 71           | 416 | 138 | 137 | 101 | 122 | 15,9 | 15,9 |
| CVM BM/12 | 71           | 442 | 164 | 137 | 101 | 122 | 16,8 | 16,7 |
| CVM BM/15 | 71           | 479 | 190 | 137 | 101 | 122 | 18,0 | 17,9 |

[1] tylko dla wersji trójfazowej

[2] tylko dla wersji jednofazowej

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)


**TABELA DANYCH**

| Typ pompy                |                             | Silnik |     | Kondensator |     | Prąd pobierany (A) |            |      | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |     |
|--------------------------|-----------------------------|--------|-----|-------------|-----|--------------------|------------|------|---------------|----------------------------|------|------|------|------|------|------|------|-----|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz | kW     | HP  | µF          | Vc  | Jedno-<br>fazowa   | Trójfazowa |      |               | 0                          | 20   | 30   | 40   | 50   | 60   | 80   | 100  | 120 |
|                          |                             |        |     |             |     |                    | 230V       | 400V |               | 0                          | 1,2  | 1,8  | 2,4  | 3    | 3,6  | 4,8  | 6    | 7,2 |
|                          |                             |        |     |             |     |                    |            |      |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |     |
| CVM AM/4                 | CVM A/4                     | 0,3    | 0,4 | 10          | 450 | 2,6                | 1,9        | 1,9  | 23,8          | 21,2                       | 19,7 | 17,8 | 15,6 | 13,0 | 6,4  | -    | -    |     |
| CVM AM/6                 | CVM A/6                     | 0,44   | 0,6 | 12,5        | 450 | 3,2                | 2,3        | 1,3  | 35,7          | 31,8                       | 29,5 | 26,7 | 23,2 | 19,4 | 9,6  | -    | -    |     |
| CVM AM/8                 | CVM A/8                     | 0,6    | 0,8 | 14          | 450 | 4,0                | 2,8        | 1,6  | 47,6          | 42,4                       | 39,4 | 35,6 | 31,1 | 25,9 | 12,8 | -    | -    |     |
| CVM AM/10                | CVM A/10                    | 0,75   | 1   | 20          | 450 | 6,0                | 4,0        | 2,3  | 62,5          | 57,5                       | 54,0 | 49,5 | 43,7 | 36,6 | 19,5 | -    | -    |     |
| CVM AM/12                | CVM A/12                    | 0,9    | 1,2 | 31,5        | 450 | 6,5                | 4,8        | 2,8  | 75,0          | 69,0                       | 64,8 | 59,4 | 52,4 | 43,9 | 23,4 | -    | -    |     |
| CVM AM/15                | CVM A/15                    | 1,1    | 1,5 | 31,5        | 450 | 7,2                | 5,7        | 3,3  | 87,5          | 80,5                       | 75,6 | 69,3 | 61,1 | 51,2 | 27,3 | -    | -    |     |
| CVM B/10                 | CVM B/10                    | 0,75   | 1   | 20          | 450 | 5,6                | 4,1        | 2,4  | 38,1          | -                          | 36,2 | 35,1 | 33,7 | 32,0 | 27,5 | 21,6 | 14,7 |     |
| CVM B/12                 | CVM B/12                    | 0,9    | 1,2 | 31,5        | 450 | 6,2                | 4,7        | 2,7  | 50,8          | -                          | 48,2 | 46,8 | 45,0 | 42,6 | 36,6 | 28,8 | 19,6 |     |
| CVM B/15                 | CVM B/15                    | 1,1    | 1,5 | 31,5        | 450 | 7,4                | 5,5        | 3,2  | 63,5          | -                          | 60,3 | 58,5 | 56,2 | 53,3 | 45,8 | 36,0 | 24,5 |     |

Cichobieżna pompa wielostopniowa; silnik chłodzony pompowaną cieczą dzięki czemu zredukowany został poziom hałasu. Woda opływa silnik przez płaszcz wodny. Podwójne uszczelnienie mechaniczne z komorą olejową zapewnia dużą trwałość i niezawodność urządzenia. Do zastosowania w systemach podnoszących ciśnienie wody, instalacjach irygacyjnych, szczególnie tam gdzie wymaga się zachowania niskiego poziomu hałasu. Model H07 RNF zaopatrzony został w kabel 5 m



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 10 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla innych celów

### MATERIAŁY

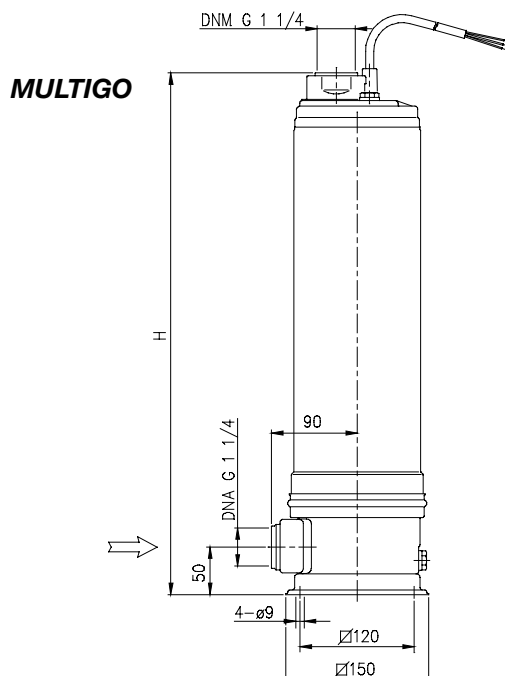
- Obudowa pompy, obudowa silnika, pokrywy pompy oraz silnika: stal AISI 304
- Wirnik i dyfuzor: technopolimer
- Wał: AISI 416
- Uszczelnienie wału: podwójne z komorą olejową węgiel/ceramika/NBR

### DANE TECHNICZNE

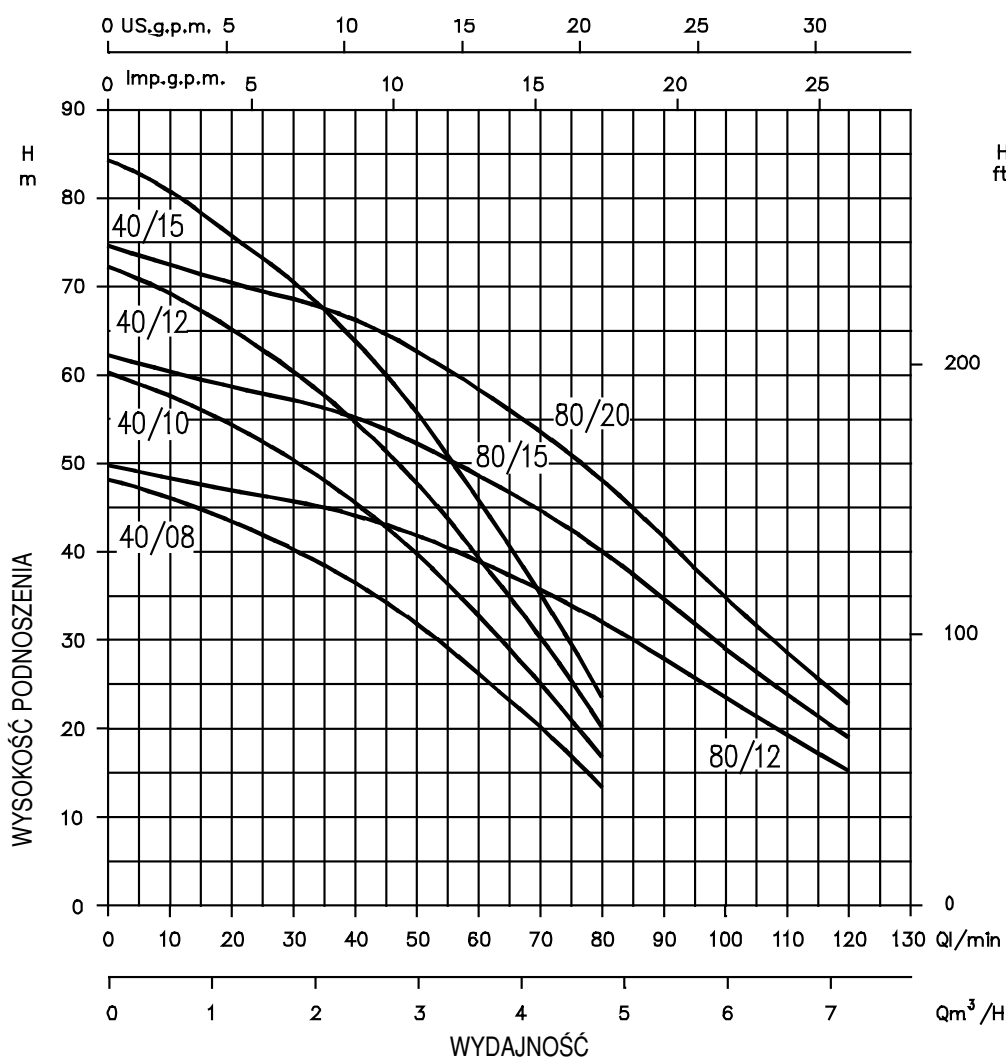
- Asynchroniczny silnik dwubiegunowy chłodzony pompowaną cieczą
- Klasa izolacji F
- Stopień ochrony IP68
- Zasilanie: 1~ 230V  $\pm$  10% 50Hz, 3~400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNA – DNM 1"1/4

### TABELA WYMIARÓW

| Typ pompy       |               | H   | Masa |      |
|-----------------|---------------|-----|------|------|
|                 |               | mm  | Kg   |      |
| Jednofazowa     | Trójfazowa    |     | 1~   | 3~   |
| MULTIGO M 40/08 | MULTIGO 40/08 | 547 | 13,4 | 13,0 |
| MULTIGO M 40/10 | MULTIGO 40/10 | 573 | 14,4 | 14,0 |
| MULTIGO M 40/12 | MULTIGO 40/12 | 624 | 14,8 | 14,4 |
| MULTIGO M 40/15 | MULTIGO 40/15 | 650 | 16,4 | 16,0 |
| MULTIGO M 80/12 | MULTIGO 80/12 | 573 | 14,8 | 14,4 |
| MULTIGO M 80/15 | MULTIGO 80/15 | 598 | 16,1 | 15,7 |
| -               | MULTIGO 80/20 | 624 | -    | 17,2 |



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



**TABELA DANYCH**

| Typ pompy                  |                         | kW   | Kondensator |                | Prąd pobierany (A) |            | l/min<br>m³/h | Q=Wydajność |      |      |      |      |      |      |
|----------------------------|-------------------------|------|-------------|----------------|--------------------|------------|---------------|-------------|------|------|------|------|------|------|
| Jenofazowa<br>230V 50Hz    | Trójfazowa<br>400V 50Hz |      | μF          | V <sub>c</sub> | 1~<br>230V         | 3~<br>400V |               | 20          | 30   | 40   | 60   | 80   | 100  | 120  |
|                            |                         |      |             |                |                    |            |               | 1,2         | 1,8  | 2,4  | 3,6  | 4,8  | 6    | 7,2  |
| H=Wysokość podnoszenia (m) |                         |      |             |                |                    |            |               |             |      |      |      |      |      |      |
| MULTIGO M 40/08            | MULTIGO 40/08           | 0,6  | 16          | 450            | 4,3                | 1,9        |               | 43,3        | 40,2 | 36,3 | 26,1 | 13,4 | -    | -    |
| MULTIGO M 40/10            | MULTIGO 40/10           | 0,75 | 20          | 450            | 5,7                | 2,2        |               | 54,1        | 50,2 | 45,4 | 32,6 | 16,8 | -    | -    |
| MULTIGO M 40/12            | MULTIGO 40/12           | 0,9  | 20          | 450            | 6,8                | 2,4        |               | 64,9        | 60,2 | 54,5 | 39,2 | 20,2 | -    | -    |
| MULTIGO M 40/15            | MULTIGO 40/15           | 1,1  | 31,5        | 450            | 7,3                | 3,0        |               | 75,7        | 70,3 | 63,6 | 45,7 | 23,5 | -    | -    |
| MULTIGO M 80/12            | MULTIGO 80/12           | 0,9  | 20          | 450            | 6,4                | 2,3        |               | -           | 45,6 | 44   | 38,8 | 32   | 23,2 | 15,2 |
| MULTIGO M 80/15            | MULTIGO 80/15           | 1,1  | 31,5        | 450            | 7,5                | 3,1        |               | -           | 57   | 55   | 48,5 | 40   | 28   | 19   |
| -                          | MULTIGO 80/20           | 1,5  | -           | -              | -                  | 3,5        |               | -           | 68,4 | 66   | 58,2 | 48   | 34,8 | 22,8 |

Wielostopniowe pompy budowy pionowej, w całości wykonane ze stali nierdzewnej AISI 304. Wielofunkcyjne, ciche i łatwe w eksploatacji. Zastosowanie w przemyśle, rolnictwie, budownictwie, np.: do podnoszenia ciśnienia wody pitnej, w systemach p-poż, do uzupełniania ciśnienia wody w zładach c.o. oraz kotłowniach, do nawadniania terenów rolnych, do systemów irygacyjnych itp.



## SPECYFIKACJA

- Maksymalne ciśnienie pracy: do 25 bar
- Temperatura medium: od -15°C do +120°C

## MATERIAŁY

- Obudowa zewnętrzna, podstawa oraz górna pokrywa, wirniki, dyfuzory, osłona sprzęgła i śruby będące w kontakcie z medium: stal nierdzewna AISI 304 (wersja G – dolny korpus z żeliwa)
- Śruby nie mające kontaktu z medium: stal ocynkowana
- Wał: stal AISI 316
- Łożysko ślizgowe: węgiel wolframu
- Uszczelnienie wału: SiC/węgiel/FPM

## DANE TECHNICZNE

- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 1~ 220V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz (do 4kW włącznie), 3~400/690V (od 5,5 kW)

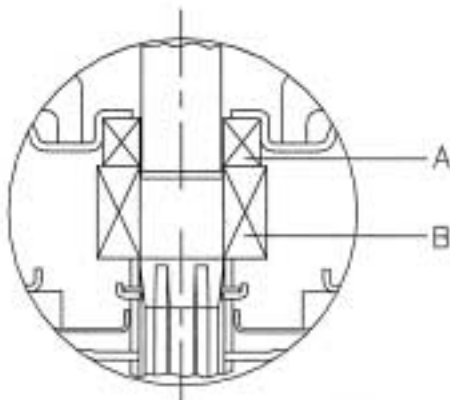


# PIONOWE POMPY WIELOSTOPNIOWE ze stali AISI 304

| Typ pompy<br>EVM                                            |              | kW   | Pmax<br>MPa | Kondensator |     | Prąd pobierany (A) |            |            |            | l/min<br>m³/h | Q = wydajność |       |       |       |       |       |       |     |     |
|-------------------------------------------------------------|--------------|------|-------------|-------------|-----|--------------------|------------|------------|------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-----|-----|
| 1 ~                                                         | 3 ~          |      |             | µF          | Vc  | 1~                 | 3~<br>230V | 3~<br>400V | 3~<br>690V |               | 20            | 40    | 60    | 75    | 80    | 120   | 150   | 225 | 300 |
| H = wysokość podnoszenia                                    |              |      |             |             |     |                    |            |            |            |               |               |       |       |       |       |       |       |     |     |
| 1,2    2,4    3,6    4,5    4,8    7,2    9,0    13,5    18 |              |      |             |             |     |                    |            |            |            |               |               |       |       |       |       |       |       |     |     |
| EVM2 2N/0,37 M                                              | EVM2 2N/0,37 | 0,37 | 1,6         | 10          | 400 | 3,0                | 1,65       | 0,95       | -          | 16,8          | 12,8          | 7,5   | -     | -     | -     | -     | -     | -   |     |
| EVM2 3N/0,37 M                                              | EVM2 3N/0,37 | 0,37 | 1,6         | 10          | 400 | 3,0                | 1,65       | 0,95       | -          | 25,2          | 19,2          | 11,1  | -     | -     | -     | -     | -     | -   |     |
| EVM2 4N/0,55 M                                              | EVM2 4N/0,55 | 0,55 | 1,6         | 12          | 400 | 3,8                | 2,34       | 1,35       | -          | 33,9          | 26            | 15,2  | -     | -     | -     | -     | -     | -   |     |
| EVM2 5N/0,55 M                                              | EVM2 5N/0,55 | 0,55 | 1,6         | 12          | 400 | 3,8                | 2,34       | 1,35       | -          | 42            | 32,5          | 18,8  | -     | -     | -     | -     | -     | -   |     |
| EVM2 6N/0,75 M                                              | EVM2 6N/0,75 | 0,75 | 1,6         | 20          | 400 | 5,3                | 2,8        | 1,6        | -          | 50,5          | 38            | 22,5  | -     | -     | -     | -     | -     | -   |     |
| EVM2 7N/0,75 M                                              | EVM2 7N/0,75 | 0,75 | 1,6         | 20          | 400 | 5,3                | 2,8        | 1,6        | -          | 58,8          | 44,3          | 26,1  | -     | -     | -     | -     | -     | -   |     |
| EVM2 9N/1,1 M                                               | EVM2 9N/1,1  | 1,1  | 1,6         | 30          | 400 | 6,5                | 4,0        | 2,3        | -          | 75,7          | 58,1          | 33,8  | -     | -     | -     | -     | -     | -   |     |
| EVM2 11N/1,1 M                                              | EVM2 11N/1,1 | 1,1  | 1,6         | 30          | 400 | 6,5                | 4,0        | 2,3        | -          | 91,1          | 68,7          | 39,5  | -     | -     | -     | -     | -     | -   |     |
| EVM2 13N/1,5 M                                              | EVM2 13N/1,5 | 1,5  | 1,6         | 40          | 400 | 9,5                | 5,7        | 3,3        | -          | 109           | 84            | 48,8  | -     | -     | -     | -     | -     | -   |     |
| EVM2 15N/1,5 M                                              | EVM2 15N/1,5 | 1,5  | 1,6         | 40          | 400 | 9,5                | 5,7        | 3,3        | -          | 126           | 95,5          | 55,9  | -     | -     | -     | -     | -     | -   |     |
| EVM2 18F/2,2 M                                              | EVM2 18F/2,2 | 2,2  | 2,5         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | 156           | 120           | 74    | -     | -     | -     | -     | -     | -   |     |
| EVM2 22F/2,2 M                                              | EVM2 22F/2,2 | 2,2  | 2,5         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | 186           | 141,2         | 81,7  | -     | -     | -     | -     | -     | -   |     |
| -                                                           | EVM2 22F/3,0 | 3,0  | 2,5         | -           | -   | -                  | 10,9       | 6,3        | -          | 220           | 165,1         | 105   | -     | -     | -     | -     | -     | -   |     |
| EVM4 2N/0,37 M                                              | EVM4 2N/0,37 | 0,37 | 1,6         | 10          | 400 | 3,0                | 1,6        | 0,95       | -          | -             | 17,2          | 15,8  | 13,9  | 13,4  | 6,9   | -     | -     | -   |     |
| EVM4 3N/0,55 M                                              | EVM4 3N/0,55 | 0,55 | 1,6         | 12          | 400 | 3,8                | 2,3        | 1,35       | -          | -             | 25,7          | 23,4  | 21    | 20,2  | 10,5  | -     | -     | -   |     |
| EVM4 4N/0,75 M                                              | EVM4 4N/0,75 | 0,75 | 1,6         | 20          | 400 | 5,3                | 2,8        | 1,6        | -          | -             | 34,9          | 32    | 28,4  | 27,4  | 15,5  | -     | -     | -   |     |
| EVM4 5N/1,1 M                                               | EVM4 5N/1,1  | 1,1  | 1,6         | 30          | 400 | 6,5                | 4,0        | 2,3        | -          | -             | 44,1          | 40,6  | 36,3  | 35    | 19,8  | -     | -     | -   |     |
| EVM4 6N/1,1 M                                               | EVM4 6N/1,1  | 1,1  | 1,6         | 30          | 400 | 6,5                | 4,0        | 2,3        | -          | -             | 53,2          | 48,2  | 43,5  | 42    | 24    | -     | -     | -   |     |
| EVM4 7N/1,5 M                                               | EVM4 7N/1,5  | 1,5  | 1,6         | 40          | 400 | 9,5                | 5,7        | 3,3        | -          | -             | 61,8          | 56,5  | 50,9  | 49    | 27,7  | -     | -     | -   |     |
| EVM4 8N/1,5 M                                               | EVM4 8N/1,5  | 1,5  | 1,6         | 40          | 400 | 9,5                | 5,7        | 3,3        | -          | -             | 71,6          | 65,8  | 58,2  | 57,1  | 33    | -     | -     | -   |     |
| EVM4 10N/2,2 M                                              | EVM4 10N/2,2 | 2,2  | 1,6         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | -             | 88,2          | 81    | 72,5  | 70,6  | 39,6  | -     | -     | -   |     |
| EVM4 11N/2,2 M                                              | EVM4 11N/2,2 | 2,2  | 1,6         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | -             | 98            | 90,2  | 81,8  | 78,6  | 45    | -     | -     | -   |     |
| EVM4 12N/2,2 M                                              | EVM4 12N/2,2 | 2,2  | 1,6         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | -             | 106           | 97,4  | 87,2  | 84    | 47,5  | -     | -     | -   |     |
| -                                                           | EVM4 14N/3,0 | 3,0  | 1,6         | -           | -   | -                  | 10,9       | 6,3        | -          | -             | 127           | 116   | 105,7 | 102,2 | 60,5  | -     | -     | -   |     |
| -                                                           | EVM4 16N/3,0 | 3,0  | 1,6         | -           | -   | -                  | 10,9       | 6,3        | -          | -             | 142           | 130   | 118   | 116,7 | 67,6  | -     | -     | -   |     |
| -                                                           | EVM4 19F/4,0 | 4,0  | 2,5         | -           | -   | -                  | 14,2       | 8,2        | -          | -             | 168           | 154,2 | 138,2 | 134,6 | 75,2  | -     | -     | -   |     |
| -                                                           | EVM4 22F/4,0 | 4,0  | 2,5         | -           | -   | -                  | 14,2       | 8,2        | -          | -             | 195           | 180   | 163,5 | 158,1 | 88,9  | -     | -     | -   |     |
| EVM8 2N/0,75 M                                              | EVM8 2N/0,75 | 0,75 | 1,6         | 20          | 400 | 5,3                | 2,8        | 1,6        | -          | -             | -             | -     | 21,1  | 20,8  | 19,2  | 17,1  | 10,4  | -   |     |
| EVM8 3N/1,1 M                                               | EVM8 3N/1,1  | 1,1  | 1,6         | 30          | 400 | 6,5                | 4,0        | 2,3        | -          | -             | -             | -     | 32    | 31,8  | 29,5  | 26,8  | 16,7  | -   |     |
| EVM8 4N/1,5 M                                               | EVM8 4N/1,5  | 1,5  | 1,6         | 40          | 400 | 9,5                | 5,7        | 3,3        | -          | -             | -             | -     | 42,8  | 42,2  | 40    | 36,1  | 22,6  | -   |     |
| EVM8 5N/2,2 M                                               | EVM8 5N/2,2  | 2,2  | 1,6         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | -             | -             | -     | 53,6  | 53    | 49,1  | 44,3  | 28,3  | -   |     |
| EVM8 6N/2,2 M                                               | EVM8 6N/2,2  | 2,2  | 1,6         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | -             | -             | -     | 64,4  | 64,2  | 59    | 53,6  | 33,8  | -   |     |
| -                                                           | EVM8 8N/3,0  | 3,0  | 1,6         | -           | -   | -                  | 7,6        | 6,3        | -          | -             | -             | -     | 85,7  | 85    | 80,2  | 72,5  | 45,8  | -   |     |
| -                                                           | EVM8 10N/4,0 | 4,0  | 1,6         | -           | -   | -                  | 10,9       | 8,2        | -          | -             | -             | -     | 107   | 106   | 98,4  | 87,9  | 56,5  | -   |     |
| -                                                           | EVM8 11N/4,0 | 4,0  | 1,6         | -           | -   | -                  | 14,2       | 8,2        | -          | -             | -             | -     | 117   | 116,2 | 108   | 97,8  | 61,4  | -   |     |
| -                                                           | EVM8 12N/5,5 | 5,5  | 1,6         | -           | -   | -                  | 14,2       | 11,5       | 6,6        | -             | -             | -     | 129   | 127,1 | 118,4 | 107,5 | 67,8  | -   |     |
| -                                                           | EVM8 14N/5,5 | 5,5  | 1,6         | -           | -   | -                  | -          | 11,5       | 6,6        | -             | -             | -     | 150   | 148,3 | 137,5 | 124,8 | 79,1  | -   |     |
| -                                                           | EVM8 15F/5,5 | 5,5  | 2,5         | -           | -   | -                  | -          | 11,5       | 6,6        | -             | -             | -     | 162   | 160,7 | 148,7 | 134,2 | 86,6  | -   |     |
| -                                                           | EVM8 16F/7,5 | 7,5  | 2,5         | -           | -   | -                  | -          | 15,3       | 8,8        | -             | -             | -     | 171   | 170   | 157,8 | 140,9 | 90,4  | -   |     |
| -                                                           | EVM8 18F/7,5 | 7,5  | 2,5         | -           | -   | -                  | -          | 15,3       | 8,8        | -             | -             | -     | 193   | 191,2 | 176,2 | 158   | 102   | -   |     |
| -                                                           | EVM8 20F/7,5 | 7,5  | 2,5         | -           | -   | -                  | -          | 15,3       | 8,8        | -             | -             | -     | 219   | 217,2 | 202,3 | 183,2 | 121   | -   |     |
| EVM16 2F/2,2 M                                              | EVM16 2F/2,2 | 2,2  | 1,6         | 60          | 400 | 13                 | 7,6        | 4,4        | -          | -             | -             | -     | -     | -     | 29    | 26,2  | 21,1  | -   |     |
| -                                                           | EVM16 3F/3,0 | 3,0  | 1,6         | -           | -   | -                  | 10,9       | 6,3        | -          | -             | -             | -     | -     | -     | 43,6  | 38,1  | 30,7  | -   |     |
| -                                                           | EVM16 4F/4,0 | 4,0  | 1,6         | -           | -   | -                  | 14,2       | 8,2        | -          | -             | -             | -     | -     | -     | 58,2  | 52    | 42,3  | -   |     |
| -                                                           | EVM16 5F/5,5 | 5,5  | 1,6         | -           | -   | -                  | -          | 11,5       | 6,6        | -             | -             | -     | -     | -     | 73,8  | 67,1  | 54,9  | -   |     |
| -                                                           | EVM16 6F/5,5 | 5,5  | 1,6         | -           | -   | -                  | -          | 11,5       | 6,6        | -             | -             | -     | -     | -     | 88,3  | 79,8  | 65    | -   |     |
| -                                                           | EVM16 7F/7,5 | 7,5  | 1,6         | -           | -   | -                  | -          | 15,3       | 8,8        | -             | -             | -     | -     | -     | 103   | 92,5  | 76,5  | -   |     |
| -                                                           | EVM16 8F/7,5 | 7,5  | 1,6         | -           | -   | -                  | -          | 15,3       | 8,8        | -             | -             | -     | -     | -     | 119   | 108   | 88,1  | -   |     |
| -                                                           | EVM16 10F/11 | 11   | 2,5         | -           | -   | -                  | -          | 20,4       | 11,8       | -             | -             | -     | -     | -     | 148   | 132,2 | 108,9 | -   |     |
| -                                                           | EVM16 12F/11 | 11   | 2,5         | -           | -   | -                  | -          | 20,4       | 11,8       | -             | -             | -     | -     | -     | 181   | 164,5 | 138   | -   |     |
| -                                                           | EVM16 14F/15 | 15   | 2,5         | -           | -   | -                  | -          | 27,6       | 15,9       | -             | -             | -     | -     | -     | 207   | 186,5 | 152,3 | -   |     |
| -                                                           | EVM16 15F/15 | 15   | 2,5         | -           | -   | -                  | -          | 27,6       | 15,9       | -             | -             | -     | -     | -     | 226   | 207   | 171,8 | -   |     |
| -                                                           | EVM16 16F/15 | 15   | 2,5         | -           | -   | -                  | -          | 27,6       | 15,9       | -             | -             | -     | -     | -     | 236   | 215,2 | 181   | -   |     |

| Typ pompy<br>EVM         | kW   | P<br>max<br><br>[MPa] | Prąd pobierany (A) |      |      | l/min<br>m³/h | Q = wydajność |       |       |       |      |      |      |      |
|--------------------------|------|-----------------------|--------------------|------|------|---------------|---------------|-------|-------|-------|------|------|------|------|
|                          |      |                       | Trójfazowy         |      |      |               | 200           | 300   | 400   | 500   | 600  | 800  | 1000 | 1200 |
|                          |      |                       | 230V               | 400V | 690V |               | 12            | 18    | 24    | 30    | 36   | 48   | 60   | 72   |
| H = wysokość podnoszenia |      |                       |                    |      |      |               |               |       |       |       |      |      |      |      |
| EVM30 2F/4               | 4    | 1,6                   | 13,2               | 7,6  | -    | 39            | 36,5          | 33    | 28    | 21    |      |      |      |      |
| EVM30 3F/5,5             | 5,5  | 1,6                   | -                  | 10,6 | 6,1  | 58,5          | 54,8          | 49,5  | 42    | 31,5  |      |      |      |      |
| EVM30 4F/7,5             | 7,5  | 1,6                   | -                  | 13,9 | 8,0  | 78            | 73            | 66    | 56    | 42    |      |      |      |      |
| EVM30 5F/11              | 11   | 1,6                   | -                  | 20,1 | 11,6 | 95,3          | 89,2          | 80,3  | 67,9  | 52,3  |      |      |      |      |
| EVM30 6F/11              | 11   | 1,6                   | -                  | 20,1 | 11,6 | 112,6         | 105,4         | 94,6  | 79,8  | 62,5  |      |      |      |      |
| EVM30 7F/15              | 15   | 1,6                   | -                  | 26,8 | 15,4 | 134,3         | 125           | 113   | 96,6  | 75,3  |      |      |      |      |
| EVM30 8F/15              | 15   | 2,5                   | -                  | 26,8 | 15,4 | 156           | 144           | 130   | 114   | 88    |      |      |      |      |
| EVM30 9F/18,5            | 18,5 | 2,5                   | -                  | 32,3 | 18,6 | 175,5         | 163           | 148   | 128,5 | 100   |      |      |      |      |
| EVM30 10F/18,5           | 18,5 | 2,5                   | -                  | 32,3 | 18,6 | 195           | 182           | 166   | 143   | 112   |      |      |      |      |
| EVM30 11F/22             | 22   | 2,5                   | -                  | 39,7 | 22,9 | 214,5         | 201,5         | 183   | 157   | 123   |      |      |      |      |
| EVM30 12F/22             | 22   | 2,5                   | -                  | 39,7 | 22,9 | 234           | 221           | 200   | 171   | 134   |      |      |      |      |
| EVM60 2F/5,5             | 5,5  | 1,6                   | -                  | 10,6 | 6,1  | -             | -             | 30    | 29    | 27,8  | 24,7 | 20,2 | 14,5 |      |
| EVM60 3F/7,5             | 7,5  | 1,6                   | -                  | 13,9 | 8,0  | -             | -             | 43    | 41,4  | 39,3  | 34,7 | 28,5 | 20   |      |
| EVM60 4F/11              | 11   | 1,6                   | -                  | 20,1 | 11,6 | -             | -             | 59,5  | 57,2  | 54,6  | 48,8 | 40,3 | 29   |      |
| EVM60 5F/15              | 15   | 1,6                   | -                  | 26,8 | 15,4 | -             | -             | 71,5  | 69    | 66    | 58,4 | 48,8 | 35   |      |
| EVM60 6F/15              | 15   | 1,6                   | -                  | 26,8 | 15,4 | -             | -             | 83,5  | 80,6  | 77    | 68,3 | 57   | 41   |      |
| EVM60 7F/18,5            | 18,5 | 1,6                   | -                  | 32,3 | 18,6 | -             | -             | 103,5 | 99,8  | 95,6  | 85   | 71,2 | 52   |      |
| EVM60 8F/22              | 22   | 1,6                   | -                  | 39,7 | 22,9 | -             | -             | 120   | 115,7 | 110,5 | 98,2 | 83   | 62   |      |

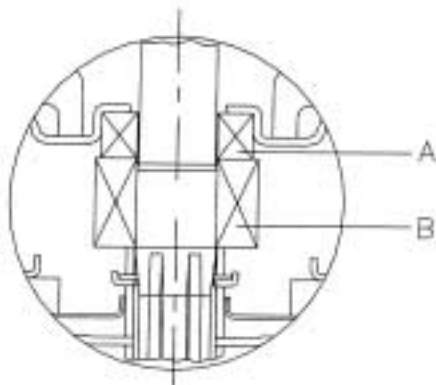
## USZCZELNIENIE MECHANICZNE EVM 2-16



| Typ pompy<br>EVM | Wielkość<br>[mm] | P max<br>[MPa] | A<br>Pierścień stały   | Materiał<br>B<br>Pierścień ruchomy | Elastomer      |
|------------------|------------------|----------------|------------------------|------------------------------------|----------------|
| 2-4              | 12.7             | 1.6            | SiC<br>(węglík krzemu) | C<br>(węgiel)                      | FPM<br>(viton) |
|                  |                  | 2.5            |                        |                                    |                |
| 8                | 16               | 1.6            |                        |                                    |                |
|                  |                  | 2.5            |                        |                                    |                |
| 16               | 20               | 1.6            | Ceramika               | C                                  | EPDM           |
|                  |                  | 2.5            |                        |                                    |                |
| 2-4*             | 12.7             | 1.6            |                        |                                    |                |
|                  |                  | 2.5            |                        |                                    |                |
| 8*               | 16               | 1.6            | Ceramika               | C                                  | EPDM           |
|                  |                  | 2.5            |                        |                                    |                |
| 16*              | 20               | 1.6            | Ceramika               | C                                  | EPDM           |
|                  |                  | 2.5            |                        |                                    |                |

\* wersja potwierdzona WRAS

## USZCZELNIENIE MECHANICZNE EVM 30-60



| Typ pompy<br>EVM | Wielkość<br>[mm] | P max<br>[MPa] | A<br>Pierścień stały | Materiał<br>B<br>Pierścień ruchomy | Elastomer |
|------------------|------------------|----------------|----------------------|------------------------------------|-----------|
| 30-60            | 25               | 1.6            | SiC                  | C                                  | FPM       |
|                  |                  | 2.5            |                      |                                    |           |
| 30-60*           | 25               | 1.6            | SiC                  | C                                  | EPDM      |
|                  |                  | 2.5            |                      |                                    |           |

\* wersja potwierdzona WRAS



Wielostopniowe pompy pionowe EVM są przykładem realizacji technicznie zaawansowanych konstrukcji, spełniających wymagania współczesnego rynku, włącznie z zastosowaniami do pompowania gorącej wody, oraz mediów chemicznych.

Unikalny proces tłoczenia stali daje sztywną konstrukcję pompy, zapewniając jednocześnie maksymalną powtarzalność wszystkich komponentów

**Wirnik**


T = grubość tylnej tarczy

t = grubość przedniej tarczy

Komory poszczególnych stopni wykonane są w pompach EBARA z blach o 25% do 55% grubszych niż w innych pompach tej konstrukcji

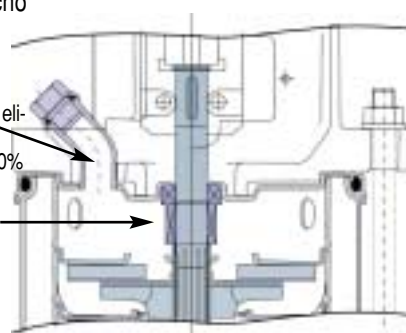
**Komora stopnia**

**Silnik w/g standardu IEC**
**Odpowietrzenie**

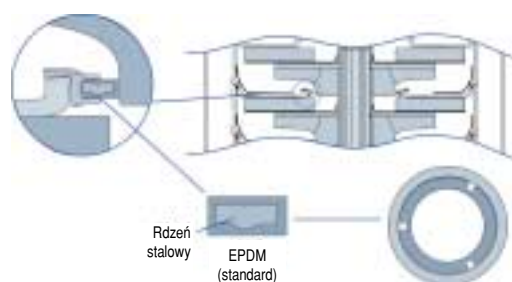
umieszczone na górnej pokrywie pompy chroni przed pracą na sucho

Górne umiejscowienie odpowietrzenia eliminuje powietrze w 100%

Uszczelnienie mechaniczne znajduje się zawsze „pod wodą”


**Pierścień bieżny**

wykonany jest ze stali nierdzewnej pokrytej EPDM, ma konstrukcję „pływającą”, nie wymaga ustawiania


**Uszczelnienie mechaniczne**

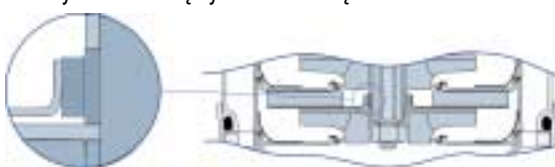
SIC/Węgiel/Viton


**Uszczelnienie stopnia**

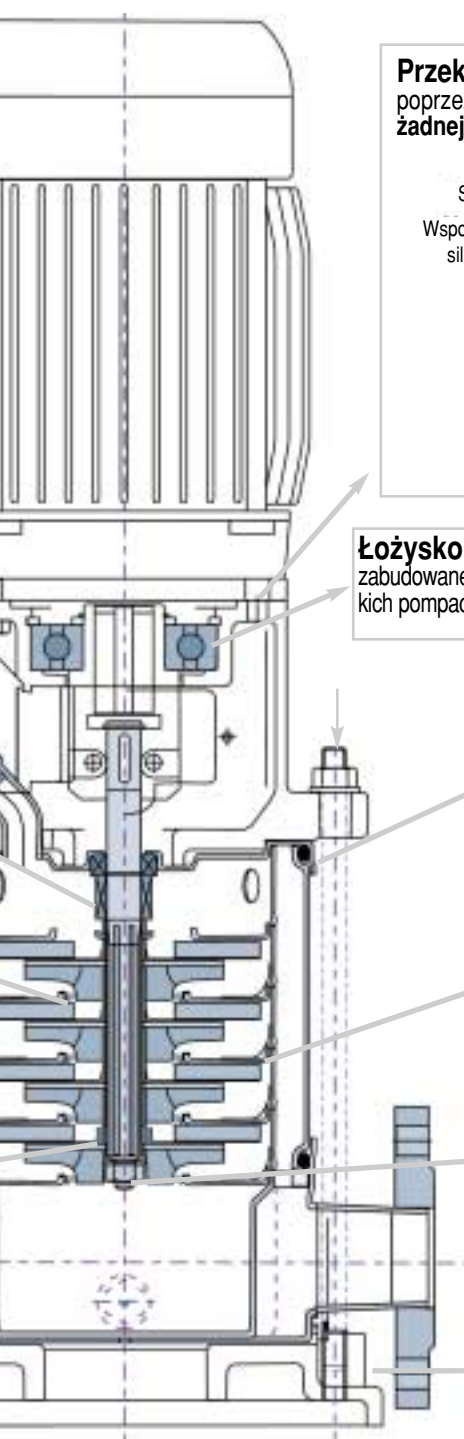
O-ringi pomiędzy komorami stopni


**Dolne łożysko pompy**

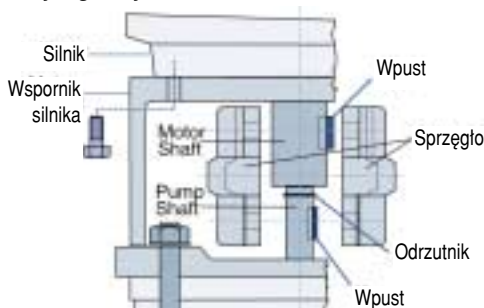
wykonane z węgliku wolframu zapewnia maksymalnie dużą żywotność urządzenia



Wszystkie „mokre” elementy pompy wykonane są z wysokiej jakości stali nierdzewnej. Solidność Ebary w konstruowaniu pomp uwidacznia się we wszystkich komponentach, jak np. wirnikach: ich tylne tarcze są trzy razy grubsze od przednich, podczas gdy te są od 20% do 60% grubsze od innych, dostępnych na naszym rynku


**Przekazanie napędu**

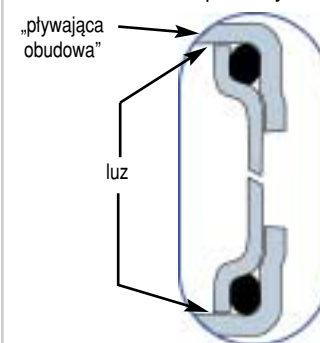
poprzez sprzęgło z wpustem nie wymaga żadnej regulacji ani ustawiania


**Łożysko oporowe**

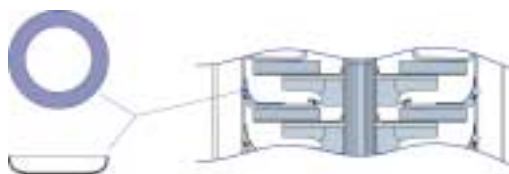
zabudowane standardowo we wszystkich pompach od 1,5 kW w górę

**„Pływająca” obudowa zewnętrzna**

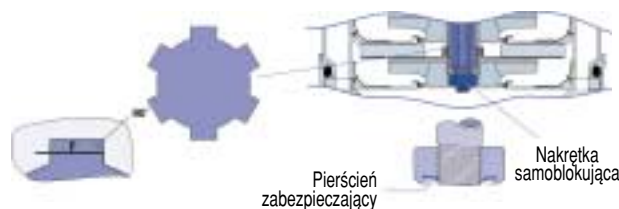
pozwała na pompowanie gorących mediów oraz gwarantuje całkowitą szczelność przy gwałtownych zmianach ciśnienia i temperatury


**Kształtki anti-erozyjne**

w komorach stopni zapewniają niezakłócony przepływ medium oraz chronią elementy stopnia przed ich erozją

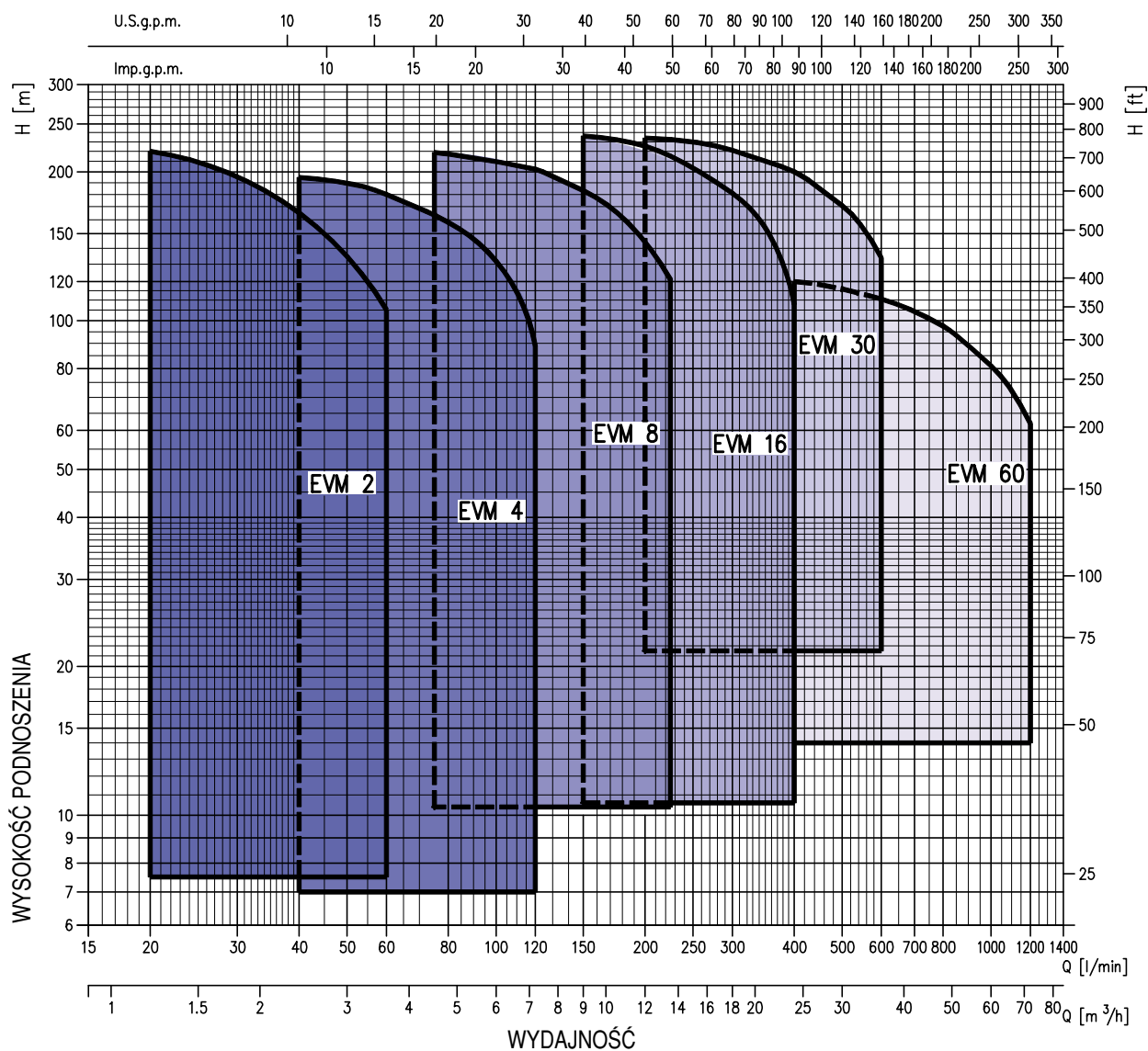

**Wał pompy z wielowypustem**

o krawędziach 90° gwarantuje dokładne ustalenie wirników

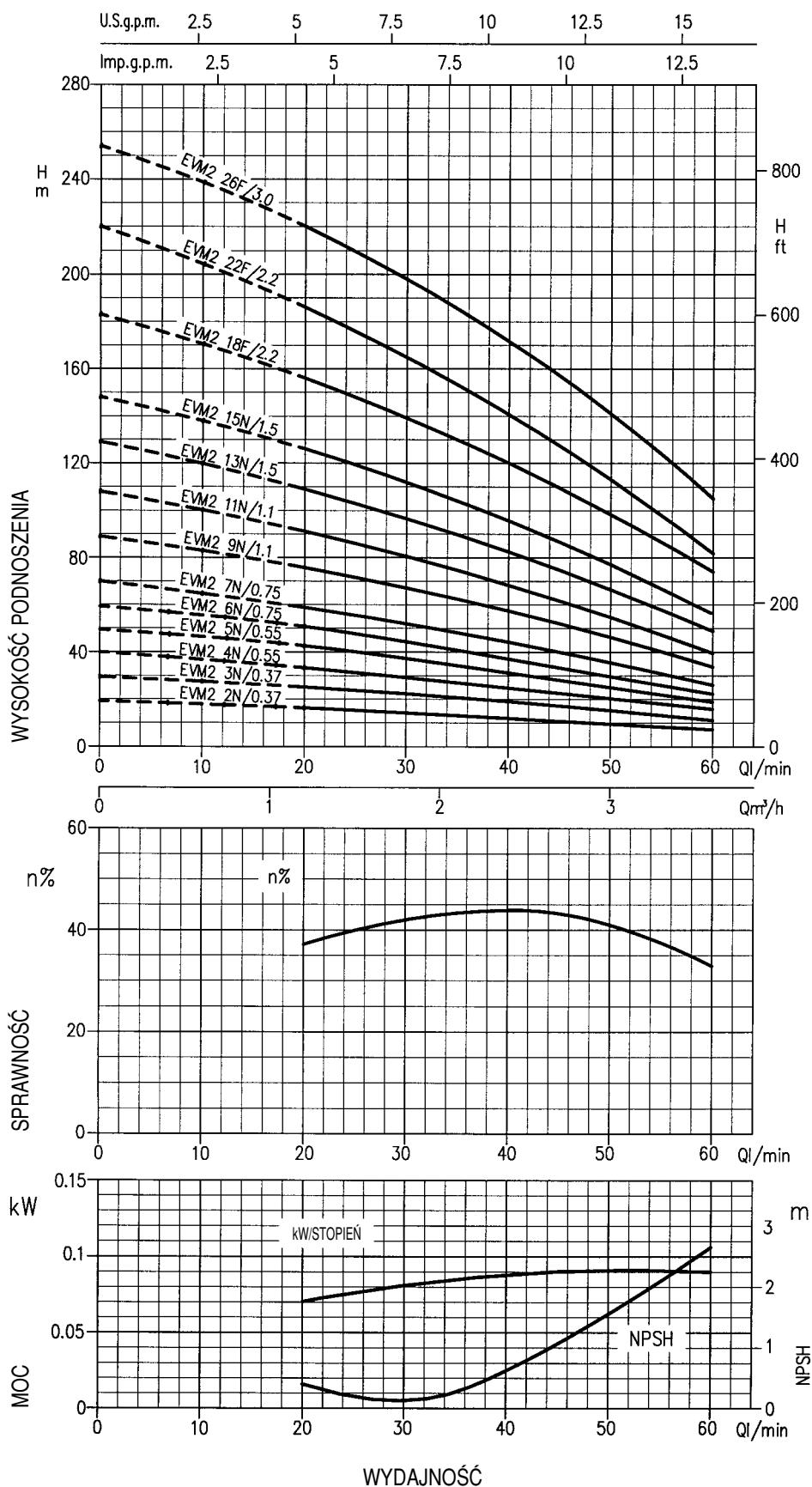

**Przyłącza**

w/g przyjętych na rynku standardów umożliwiającą błyskawiczną wymianę urządzenia

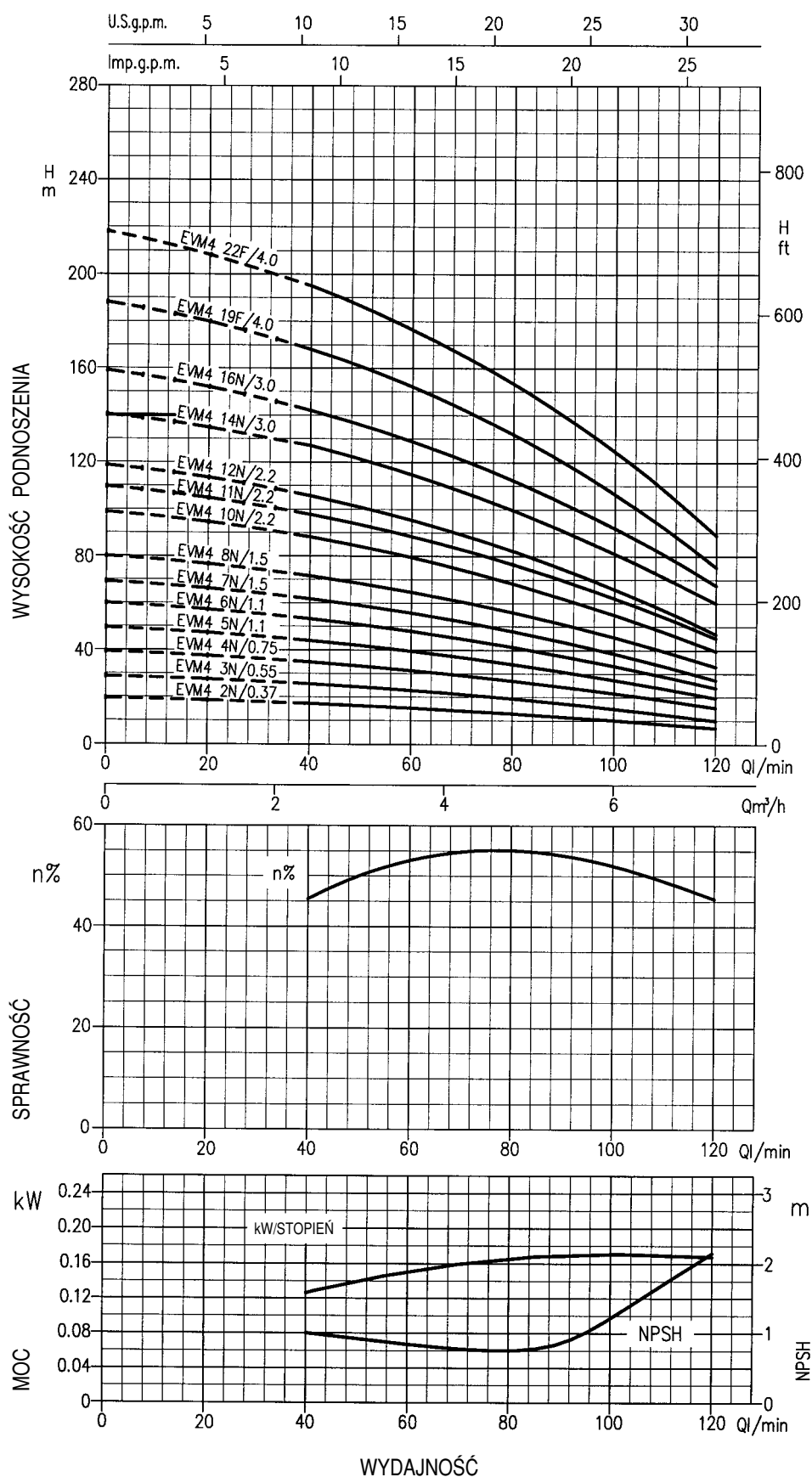
## ZAKRES STOSOWANIA (w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE SERIA EVM2 (w/g ISO 9906 Aneks A)

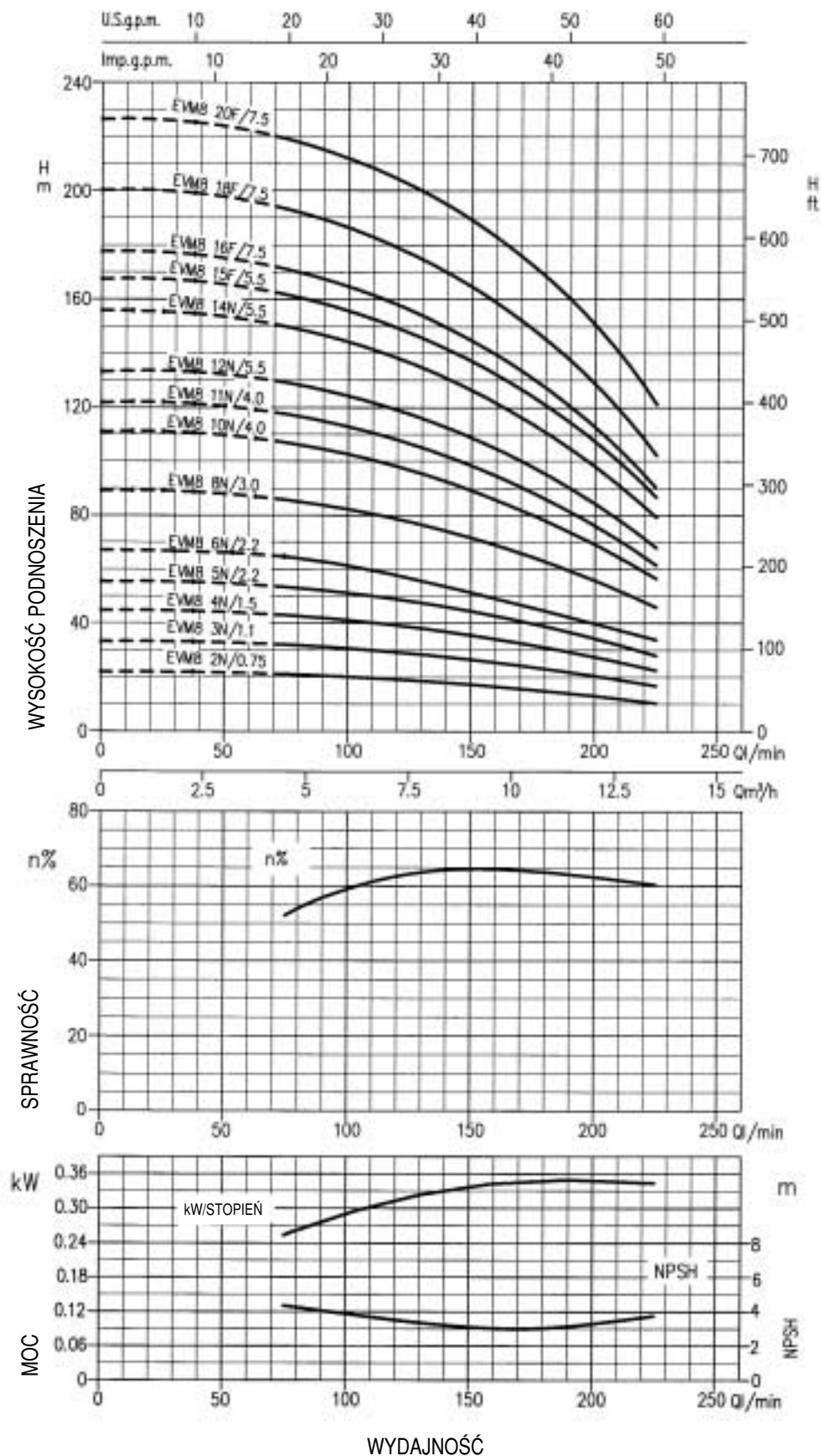


## CHARAKTERYSTYKI HYDRAULICZNE SERIA EVM4 (w/g ISO 9906 Aneks A)



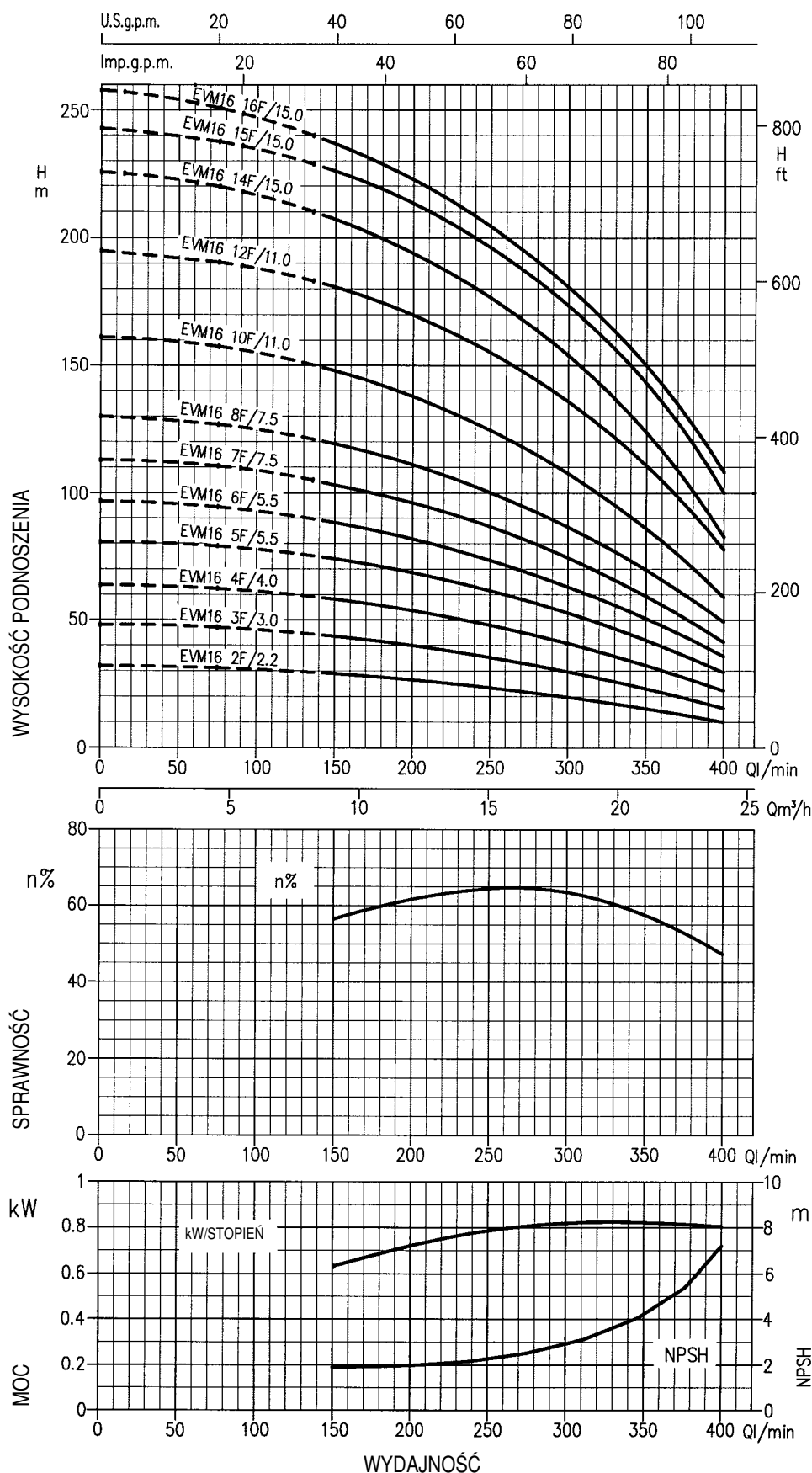


## CHARAKTERYSTYKI HYDRAULICZNE SERIA EVM8 (w/g ISO 9906 Aneks A)

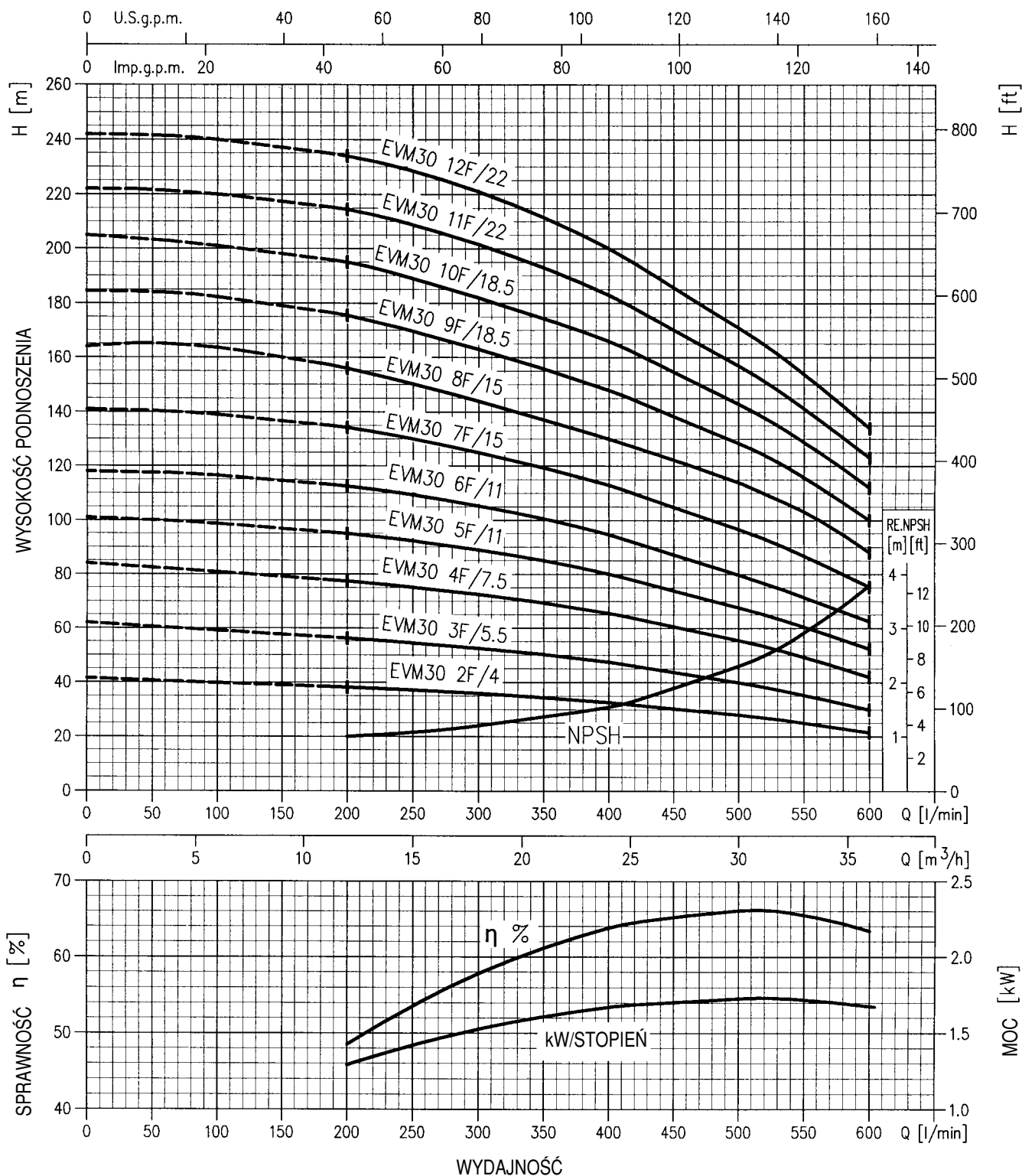


WYDAJNOŚĆ

## CHARAKTERYSTYKI HYDRAULICZNE SERIA EVM16 (w/g ISO 9906 Aneks A)

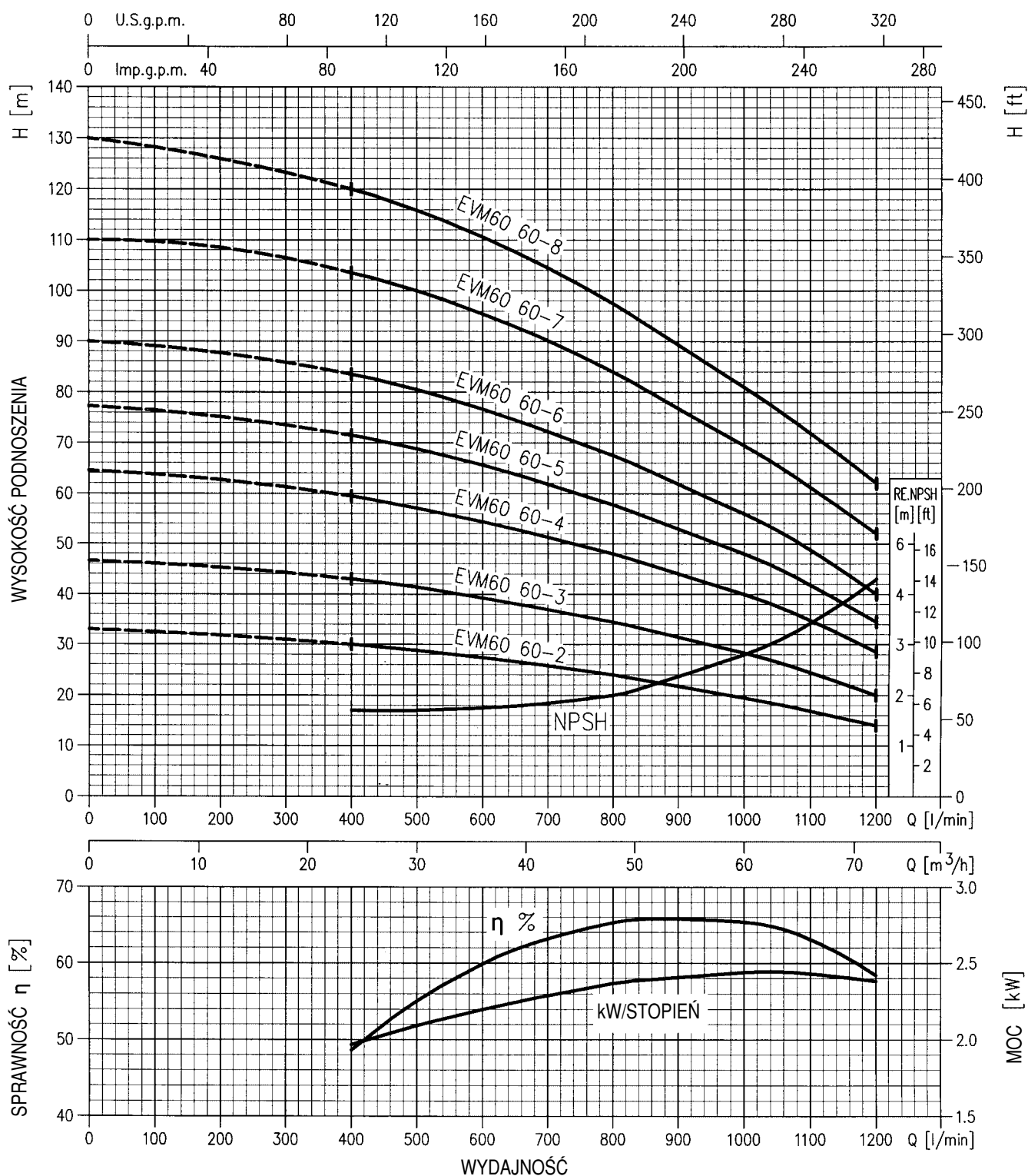


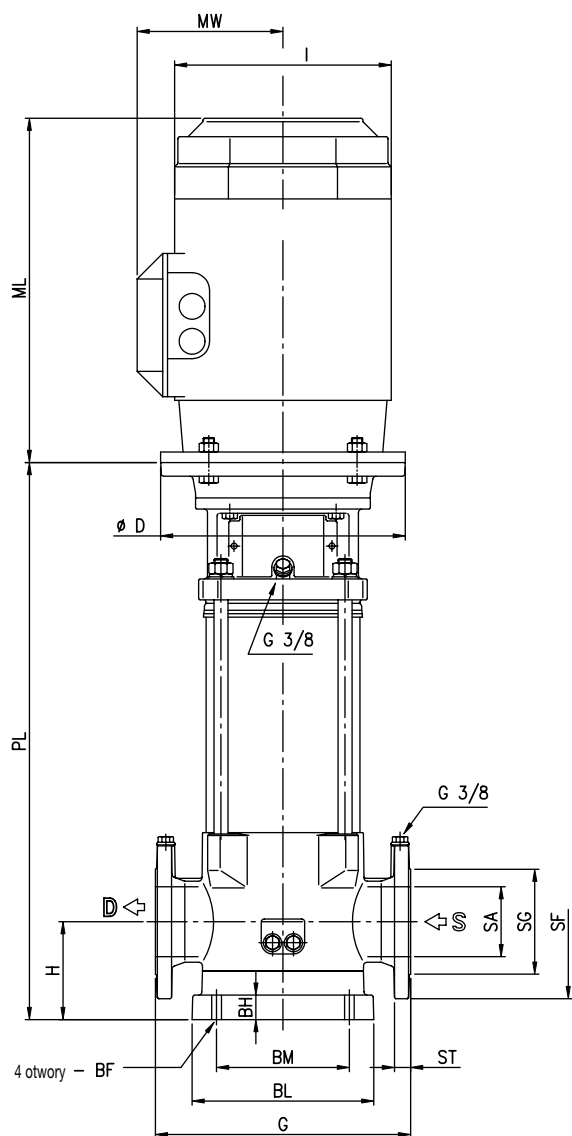
## CHARAKTERYSTYKI HYDRAULICZNE SERIA EVM30 (w/g ISO 9906 Aneks A)



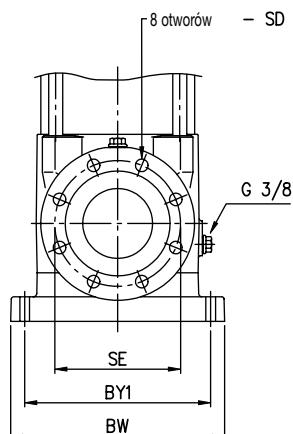
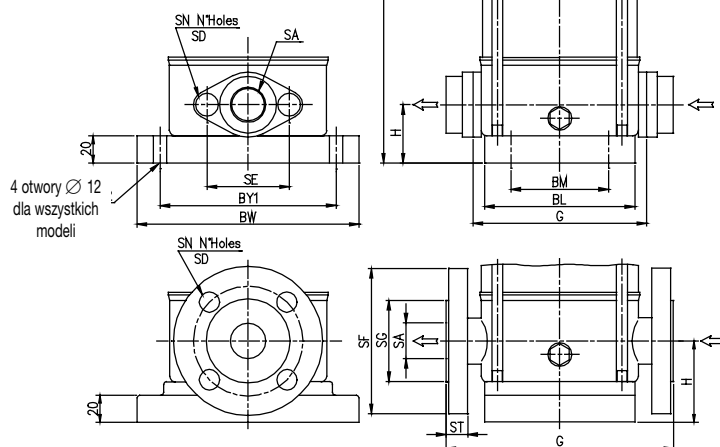


## CHARAKTERYSTYKI HYDRAULICZNE SERIA EVM60 (w/g ISO 9906 Aneks A)





**EVM 2-16**



**EVM 30-60**

**TABELA WYMIARÓW EVM 2-16**

| Typ pompy<br>EVM | Wymiary (mm) |    |     |     |       |     |     |     |     |       |     |     |     |     |         |      |     |      |    |    | Masa kg |      |            |      |       |
|------------------|--------------|----|-----|-----|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|---------|------|-----|------|----|----|---------|------|------------|------|-------|
|                  | MEC          | H  | PL  | ML  |       | G   | ØI  |     | MW  |       | BM  | BL  | BY1 | BW  | SA      | SG   | SE  | SF   | ST | SN | SD      | V    | sama pompa | 1~   | 3~    |
|                  |              |    |     | 1~  | 3~    |     | 1~  | 3~  | 1~  | 3~    |     |     |     |     |         |      |     |      |    |    |         |      |            |      |       |
| EVM2 2N/0,37     | 71           | 50 | 226 | 185 | 208   | 160 | 140 | 141 | 106 | 102   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG11 | 10,7       | 18,2 | 17,1  |
| EVM2 3N/0,37     | 71           | 50 | 247 | 185 | 208   | 160 | 140 | 141 | 106 | 102   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG11 | 11,4       | 18,9 | 17,8  |
| EVM2 4N/0,55     | 71           | 50 | 268 | 185 | 208   | 160 | 140 | 141 | 106 | 102   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG11 | 12,2       | 20,2 | 19,5  |
| EVM2 5N/0,55     | 71           | 50 | 289 | 185 | 208   | 160 | 140 | 141 | 106 | 102   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG11 | 14,7       | 20,9 | 20,2  |
| EVM2 6N/0,75     | 80           | 50 | 320 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG16 | 13,6       | 24,6 | 22,6  |
| EVM2 7N/0,75     | 80           | 50 | 341 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG16 | 14,4       | 25,4 | 23,4  |
| EVM2 9N/1,1      | 80           | 50 | 383 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG16 | 15,9       | 28,5 | 26,4  |
| EVM2 11N/1,1     | 80           | 50 | 425 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG16 | 17,3       | 29,9 | 27,8  |
| EVM2 13N/1,5     | 90           | 50 | 477 | 245 | 250   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG16 | 20,7       | 39,2 | 35,7  |
| EVM2 15N/1,5     | 90           | 50 | 519 | 245 | 250   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1"     | -    | 75  | -    | -  | 2  | M10     | PG16 | 22,2       | 40,7 | 37,2  |
| EVM2 18F/2,2     | 90           | 75 | 607 | 245 | 278   | 250 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | Ø25     | Ø70  | 85  | Ø120 | 16 | 4  | Ø14     | PG16 | 27         | 47   | 45    |
| EVM2 22F/2,2     | 90           | 75 | 691 | 245 | 278   | 250 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | Ø25     | Ø70  | 85  | Ø120 | 16 | 4  | Ø14     | PG16 | 30         | 50   | 48    |
| EVM2 26F/3,0     | 100          | 75 | 785 | -   | 303   | 250 | -   | 200 | -   | 135   | 100 | 149 | 180 | 210 | Ø25     | Ø70  | 85  | Ø120 | 16 | 4  | Ø14     | PG16 | 32,9       | -    | 53,9  |
| EVM4 2N/0,37     | 71           | 50 | 240 | 185 | 208   | 160 | 140 | 141 | 106 | 102   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG11 | 11,1       | 18,6 | 17,5  |
| EVM4 3N/0,55     | 71           | 50 | 268 | 185 | 208   | 160 | 140 | 141 | 106 | 102   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG11 | 11,9       | 19,9 | 19,2  |
| EVM4 3N/0,75     | 80           | 50 | 306 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 20,8       | 23,6 | 20,8  |
| EVM4 5N/1,1      | 80           | 50 | 334 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 17,3       | 25,9 | 23    |
| EVM4 6N/1,1      | 80           | 50 | 362 | 214 | 234   | 160 | 158 | 159 | 121 | 110   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 16,2       | 26,7 | 23,8  |
| EVM4 7N/1,5      | 90           | 50 | 400 | 245 | 250   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 17,2       | 35,2 | 28,7  |
| EVM4 8N/1,5      | 90           | 50 | 428 | 245 | 250   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 18,8       | 36   | 29,5  |
| EVM4 10N/2,2     | 90           | 50 | 484 | 245 | 278   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 22         | 37,5 | 35    |
| EVM4 11N/2,2     | 90           | 50 | 512 | 245 | 278   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 24,5       | 38,2 | 35,7  |
| EVM4 12N/2,2     | 90           | 50 | 550 | 245 | 278   | 160 | 178 | 180 | 131 | 126   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 25,6       | 39,5 | 37,5  |
| EVM4 14N/3,0     | 100          | 50 | 606 | -   | 303   | 160 | -   | 200 | -   | 135   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 29,5       | -    | 42,9  |
| EVM4 16N/3,0     | 100          | 50 | 662 | -   | 303   | 160 | -   | 200 | -   | 135   | 100 | 149 | 180 | 210 | G1" 1/2 | -    | 75  | -    | -  | 2  | M10     | PG16 | 30,5       | -    | 44,4  |
| EVM4 19F/4,0     | 112          | 75 | 771 | -   | 301   | 250 | -   | 221 | -   | 146   | 100 | 149 | 180 | 210 | Ø32     | Ø78  | 100 | Ø140 | 16 | 4  | Ø14     | PG16 | 29,2       | -    | 51,2  |
| EVM4 22F/4,0     | 112          | 75 | 855 | -   | 301   | 250 | -   | 221 | -   | 146   | 100 | 149 | 180 | 210 | Ø25     | Ø78  | 100 | Ø140 | 16 | 4  | Ø14     | PG16 | 31,5       | -    | 53,5  |
| EVM8 2N/0,75     | 80           | 80 | 327 | 214 | 234   | 200 | 158 | 159 | 121 | 110   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 18,6       | 29,6 | 26,8  |
| EVM8 3N/1,1      | 80           | 80 | 357 | 214 | 234   | 200 | 158 | 159 | 121 | 110   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 19,5       | 30,5 | 29,2  |
| EVM8 4N/1,5      | 90           | 80 | 397 | 245 | 250   | 200 | 178 | 180 | 131 | 126   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 26,9       | 38,9 | 32,4  |
| EVM8 5N/2,2      | 90           | 80 | 427 | 245 | 278   | 200 | 178 | 180 | 131 | 126   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 25,2       | 41,3 | 37,3  |
| EVM8 6N/2,2      | 90           | 80 | 457 | 245 | 278   | 200 | 178 | 180 | 131 | 126   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 27,2       | 42,3 | 38,3  |
| EVM8 8N/3,0      | 100          | 80 | 527 | -   | 303   | 200 | -   | 200 | -   | 135   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 24,1       | -    | 44,1  |
| EVM8 10N/4,0     | 112          | 80 | 617 | -   | 301   | 200 | -   | 221 | -   | 146   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 26         | -    | 48    |
| EVM8 11N/4,0     | 112          | 80 | 647 | -   | 301   | 200 | -   | 221 | -   | 146   | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG16 | 26,9       | -    | 48,9  |
| EVM8 12N/5,5     | 132          | 80 | 667 | -   | 367   | 200 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG21 | 59,6       | -    | 60,3  |
| EVM8 14N/5,5     | 132          | 80 | 727 | -   | 367   | 200 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | G1" 1/2 | -    | 100 | -    | -  | 2  | M12     | PG21 | 62,8       | -    | 32,2  |
| EVM8 15F/5,5     | 132          | 80 | 757 | -   | 367   | 280 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø40     | Ø88  | 110 | Ø150 | 18 | 4  | Ø19     | PG21 | 65         | -    | 66,8  |
| EVM8 16F/7,5     | 132          | 80 | 787 | -   | 367   | 280 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø40     | Ø88  | 110 | Ø150 | 18 | 4  | Ø19     | PG21 | 59         | -    | 74,2  |
| EVM8 18F/7,5     | 132          | 80 | 847 | -   | 367   | 280 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø40     | Ø88  | 110 | Ø150 | 18 | 4  | Ø19     | PG21 | 60,5       | -    | 76,1  |
| EVM8 20F/7,5     | 132          | 80 | 907 | -   | 367   | 280 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø40     | Ø88  | 110 | Ø150 | 18 | 4  | Ø19     | PG21 | 61         | -    | 77,9  |
| EVM16 2F/2,2     | 90           | 90 | 367 | 245 | 278   | 300 | 178 | 180 | 131 | 126   | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG16 | 34         | 48   | 44    |
| EVM16 3F/3,0     | 100          | 90 | 417 | -   | 303   | 300 | -   | 200 | -   | 135   | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG16 | 36         | -    | 49,1  |
| EVM16 4F/4,0     | 112          | 90 | 457 | -   | 301   | 300 | -   | 221 | -   | 146   | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG16 | 38,5       | -    | 62    |
| EVM16 5F/5,5     | 132          | 90 | 517 | -   | 367   | 300 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG21 | 48,2       | -    | 63,8  |
| EVM16 6F/5,5     | 132          | 90 | 557 | -   | 367   | 300 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG21 | 49         | -    | 95,5  |
| EVM16 7F/7,5     | 132          | 90 | 597 | -   | 367   | 300 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG21 | 51,5       | -    | 97,5  |
| EVM16 8F/7,5     | 132          | 90 | 637 | -   | 367   | 300 | -   | 261 | -   | 163,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG21 | 53         | -    | 98,8  |
| EVM16 10F/11     | 160          | 90 | 747 | -   | 492,5 | 300 | -   | 310 | -   | 208,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG29 | 64         | -    | 138   |
| EVM16 12F/11     | 160          | 90 | 827 | -   | 492,5 | 300 | -   | 310 | -   | 208,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG29 | 62         | -    | 139,2 |
| EVM16 14F/15     | 160          | 90 | 907 | -   | 492,5 | 300 | -   | 310 | -   | 208,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG29 | 70,5       | -    | 140,2 |
| EVM16 15F/15     | 160          | 90 | 947 | -   | 492,5 | 300 | -   | 310 | -   | 208,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG29 | 70,2       | -    | 141,2 |
| EVM16 16F/15     | 160          | 90 | 987 | -   | 492,5 | 300 | -   | 310 | -   | 208,5 | 130 | 190 | 215 | 250 | Ø50     | Ø102 | 125 | Ø165 | 18 | 4  | Ø18     | PG29 | 74         | -    | 142,2 |

**TABELA WYMIARÓW EVM 30-60**

| Typ pompy<br>EVM | Wilkość<br>silnika | Wymiary (mm) |        |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    | Masa kg |       |        |       |
|------------------|--------------------|--------------|--------|-------|-----|-----|-----|-------|-------|-----|-----|-----|----|----|-----|-----|-----|-----|----|---------|-------|--------|-------|
|                  |                    | H            | PL     | ML    | D   | G   | I   | MW    | SA    | SG  | SE  | SF  | ST | SD | BL  | BW  | BM  | BY1 | BF | BH      | Pompa | Silnik |       |
| EVM30 2F/4       | 112                |              | 502    | 301   | 250 |     | 221 | 146   |       |     |     |     |    |    |     |     |     |     |    |         | 60,5  | 25     |       |
| EVM30 3F/5,5     | 132                |              | 571    | 367   | 300 |     | 261 | 163,5 |       |     |     |     |    |    |     |     |     |     |    |         | 75,5  | 37     |       |
| EVM30 4F/7,5     | 132                |              | 619    |       | 300 |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 79    | 42     |       |
| EVM30 5F/11      | 160                |              | 697    |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 93    | 73     |       |
| EVM30 6F/11      | 160                | 105          | 745    |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 96    | 73     |       |
| EVM30 7F/15      | 160                |              | 793    | 492,5 | 350 | 320 | 310 | 208,5 | 65    | 122 | 145 | 185 | 22 | 18 | 210 | 280 | 170 | 240 | 14 | 35      | 100   | 84     |       |
| EVM30 8F/15      | 160                |              | 841    |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 103   | 84     |       |
| EVM30 9F/18,5    | 160                |              | 889    |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 106,5 | 94     |       |
| EVM30 10F/18,5   | 160                |              | 937    |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 110   | 94     |       |
| EVM30 11F/22     | 180                |              | 985    | 570   |     |     | 360 | 223,5 |       |     |     |     |    |    |     |     |     |     |    |         | 115,5 | 119    |       |
| EVM30 12F/22     | 180                |              | 1033   |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         |       | 119    | 119   |
| EVM60 2F/5,5     | 132                |              | 623,5  |       | 367 | 300 |     | 261   | 163,5 |     |     |     |    |    |     |     |     |     |    |         |       | 84,5   | 37    |
| EVM60 3F/7,5     | 132                |              | 695,5  |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 88,5  | 42     |       |
| EVM60 4F/11      | 160                | 140          | 797,5  |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 104   | 73     |       |
| EVM60 5F/15      | 160                |              | 869,5  | 492,5 | 350 | 365 | 310 | 208,5 | 100   | 150 | 180 | 220 | 24 | 18 | 260 | 306 | 190 | 266 | 14 | 35      | 108   | 84     |       |
| EVM60 6F/15      | 160                |              | 941,5  |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 112   | 84     |       |
| EVM60 7F/18,5    | 160                |              | 1013,5 |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 116   | 94     |       |
| EVM60 8F/22      | 180                |              | 1085,5 |       |     |     |     |       |       |     |     |     |    |    |     |     |     |     |    |         | 570   | 360    | 223,5 |

Pompy wirowe, odśrodkowe z otwartym wirnikiem z elementami hydraulicznymi wykonanymi ze stali nierdzewnej AISI 304, do zastosowania w systemach myjących zmywarek zarówno domowych, jak i przemysłowych; do pompowania cieczy brudnych oraz mediów zawierających ciała stałe o średnicy do 19 mm.

Dostępna także wersja IP68



## SPECYFIKACJA

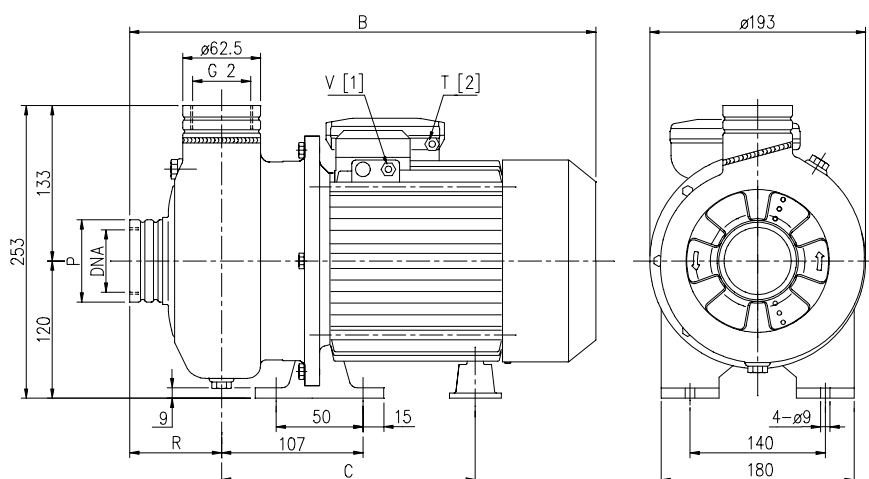
- Maksymalne ciśnienie pracy: 8 bar
- Maksymalna temperatura medium: 90°C
- Przepływ ciał stałych: maksymalna średnica zanieczyszczeń 19 mm

## MATERIAŁY

- Obudowa pompy, pokrywa, wał i wirnik: stal AISI 304
- Wspornik i obudowa silnika wykonane z żeliwa
- Mechaniczne uszczelnienie wału: węgiel/ceramika/NBR (wersja DWOHS - SiC/SiC/Vitton)
- Specjalne mechaniczne uszczelnienia na życzenie klienta

## DANE TECHNICZNE

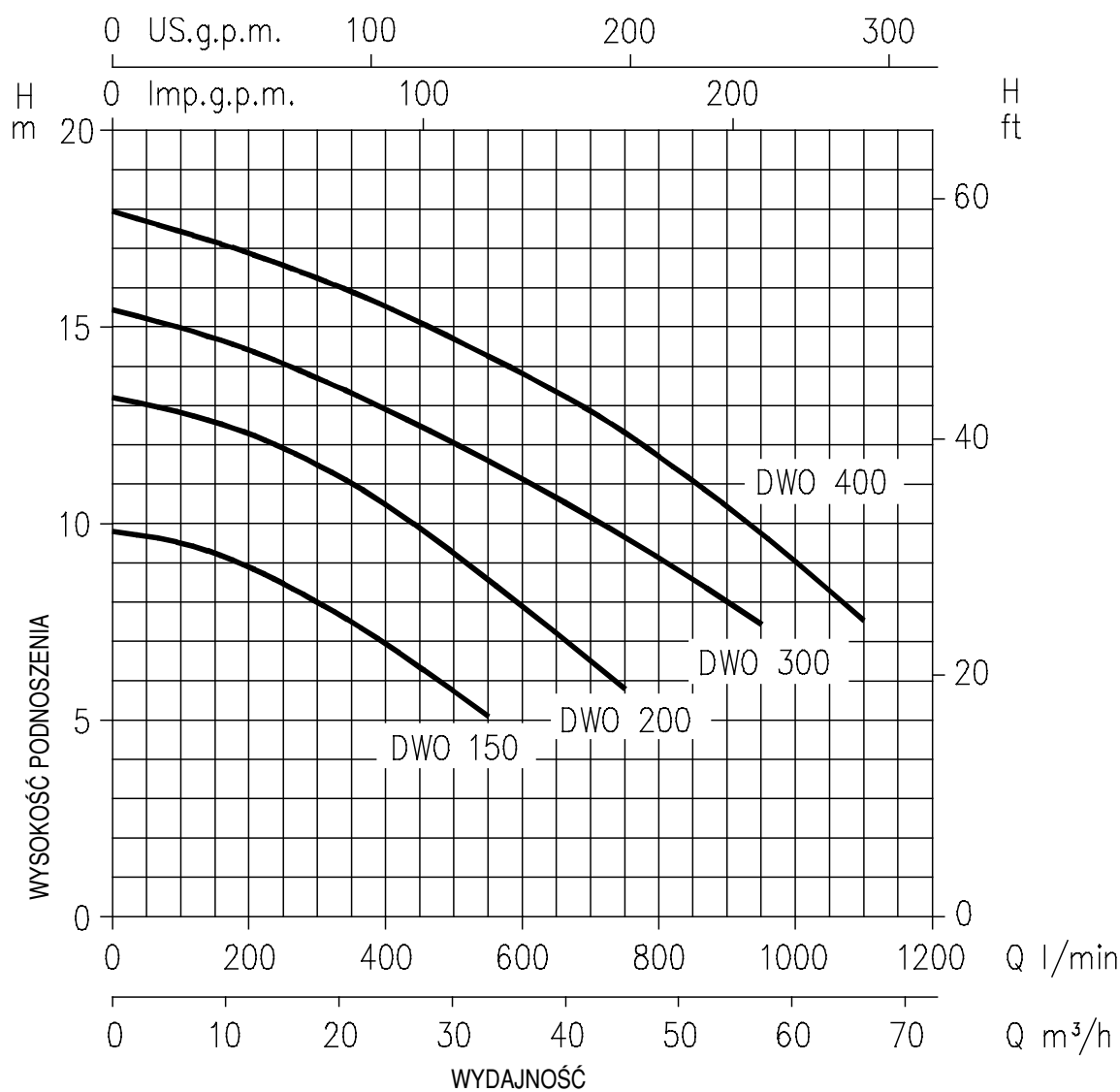
- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 1~ 230V  $\pm$  10% 50Hz, 3~230/400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNA 2" 1/2 dla DWO 300-400
- DNA 2" dla pozostałych modeli
- DNM 2"



## TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |       |    |      |       |        | Masa |      |
|-------------|------------|--------------|-------|----|------|-------|--------|------|------|
|             |            | B            | C     | R  | Ø P  | V     | Ø T    | Kg   |      |
| Jednofazowa | Trójfazowa |              |       |    |      | 3~    | 1~     | 1~   | 3~   |
| DWO 150 M   | DWO 150    | 364          | 198,5 | 74 | 62,5 | PG11  | PG13,5 | 13,6 | 12,6 |
| DWO 200 M   | DWO 200    | 364          | 198,5 | 74 | 62,5 | PG11  | PG13,5 | 15,7 | 14,4 |
| -           | DWO 300    | 390          | 215,5 | 78 | 80   | G 3/8 | -      | -    | 16,9 |
| -           | DWO 400    | 415          | 240,5 | 78 | 80   | G 3/8 | -      | -    | 20,0 |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)


**TABELA DANYCH**

| Typ pompy                |                             | kW  | Kondensator |                | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |     |      |
|--------------------------|-----------------------------|-----|-------------|----------------|--------------------|--------------------|------|---------------|----------------------------|------|------|------|------|------|-----|------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |     | μF          | V <sub>c</sub> | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 100                        | 200  | 300  | 400  | 550  | 750  | 950 | 1100 |
|                          |                             |     |             |                |                    |                    |      |               | 6                          | 12   | 18   | 24   | 33   | 42   | 57  | 66   |
|                          |                             |     |             |                |                    |                    |      |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |     |      |
| DWO 150 M                | DWO 150                     | 1,1 | 31,5        | 450            | 6,8                | 4,4                | 2,5  |               | 9,5                        | 8,9  | 7,9  | 6,9  | 5,1  | -    | -   | -    |
| DWO 200 M                | DWO 200                     | 1,5 | 40          | 450            | 9,0                | 6,1                | 3,5  |               | 12,7                       | 12,3 | 11,5 | 10,5 | 8,6  | 5,8  | -   | -    |
| -                        | DWO 300                     | 2,2 | -           | -              | -                  | 8,3                | 4,8  |               | 15                         | 14,5 | 13,8 | 12,9 | 11,7 | 9,7  | 7,5 | -    |
| -                        | DWO 400                     | 3,0 | -           | -              | -                  | 11,0               | 6,4  |               | 17,5                       | 16,9 | 16,3 | 15,6 | 14,3 | 12,4 | 9,8 | 7,6  |

Normalniessące jednowirnikowe pompy elektryczne wykonane z żeliwa, przeznaczone do podnoszenia ciśnienia wody pitnej do celów gospodarczych, małych systemów irygacyjnych, opróżniania zbiorników oraz do pompowania czystej wody w innych zastosowaniach. Pompy CMR wyposażone zostały w wirnik otwarty wskazany dla wody zanieczyszczonej



### SPECYFIKACJA

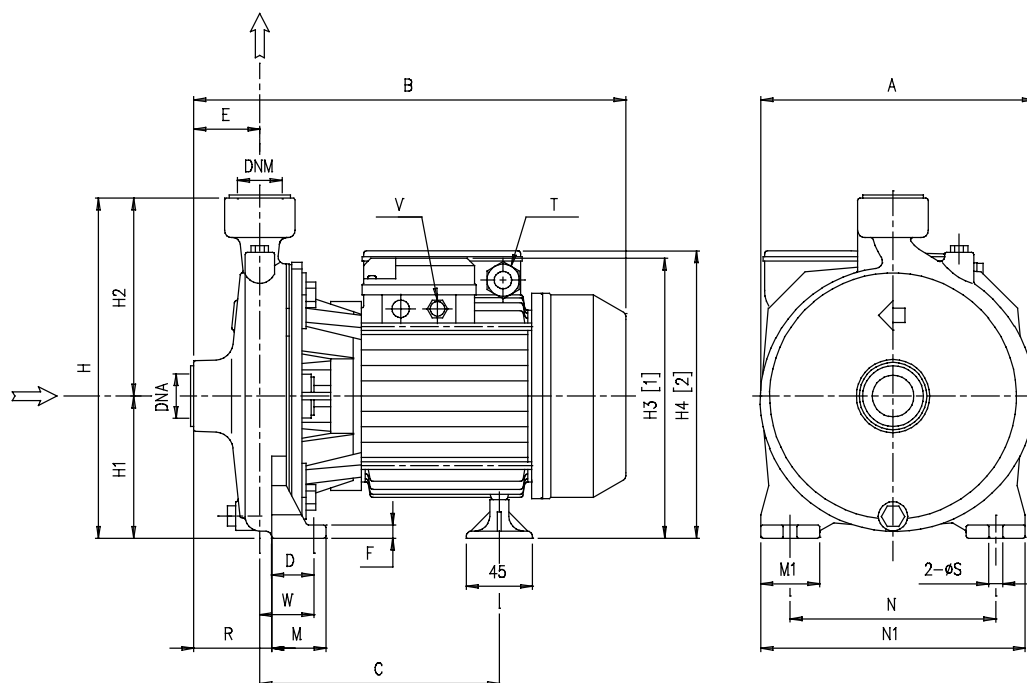
- Maksymalne ciśnienie pracy: 6 bar  
8 bar dla CMA 1.50-2.00-3.00-CMB 4.40-5.50
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla CMA 0.50-0.75-0.80-1.00  
90°C dla pozostałych

### MATERIAŁY

- Obudowa pompy: żeliwo
- Uszczelnienie wału: mechaniczne ślizgowe  
węgiel/ceramika/NBR
- Wirnik pompy: – technopolimer  
dla CMA 0.50-0.75-0.80-1.00  
– brąz dla CMA 1.50-2.00-3.00  
CMB 2.00-3.00-4.00-5.50  
CMR 0.75-1.00  
– żeliwo dla pozostałych modeli
- Wał pompy: – AISI 303  
dla CMA 0.75-0.80-1.00-1.50-2.00-3.00  
dla CMB 1.50-2.00-3.00  
dla CMD 1.50-2.00-3.00  
– AISI 304 dla CMB 4.00-5.50  
dla CMD 4.00  
– AISI 416 dla CMA 0.50
- Wspornik: – aluminium dla CMA 0.50-0.75-0.80-1.00  
dla CMB 0.75-1.00  
dla CMC 0.75-1.00  
dla CMR 0.75-1.00  
– żeliwo dla pozostałych modeli

### DANE TECHNICZNE

- Asynchroniczny silnik 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie; 1~230V  $\pm$  10% 50Hz,  
3~230/400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy  
oraz zabezpieczenie przeciążeniowe dla wersji  
jednofazowej
- Zabezpieczenie silnika trójfazowego  
w gestii użytkownika

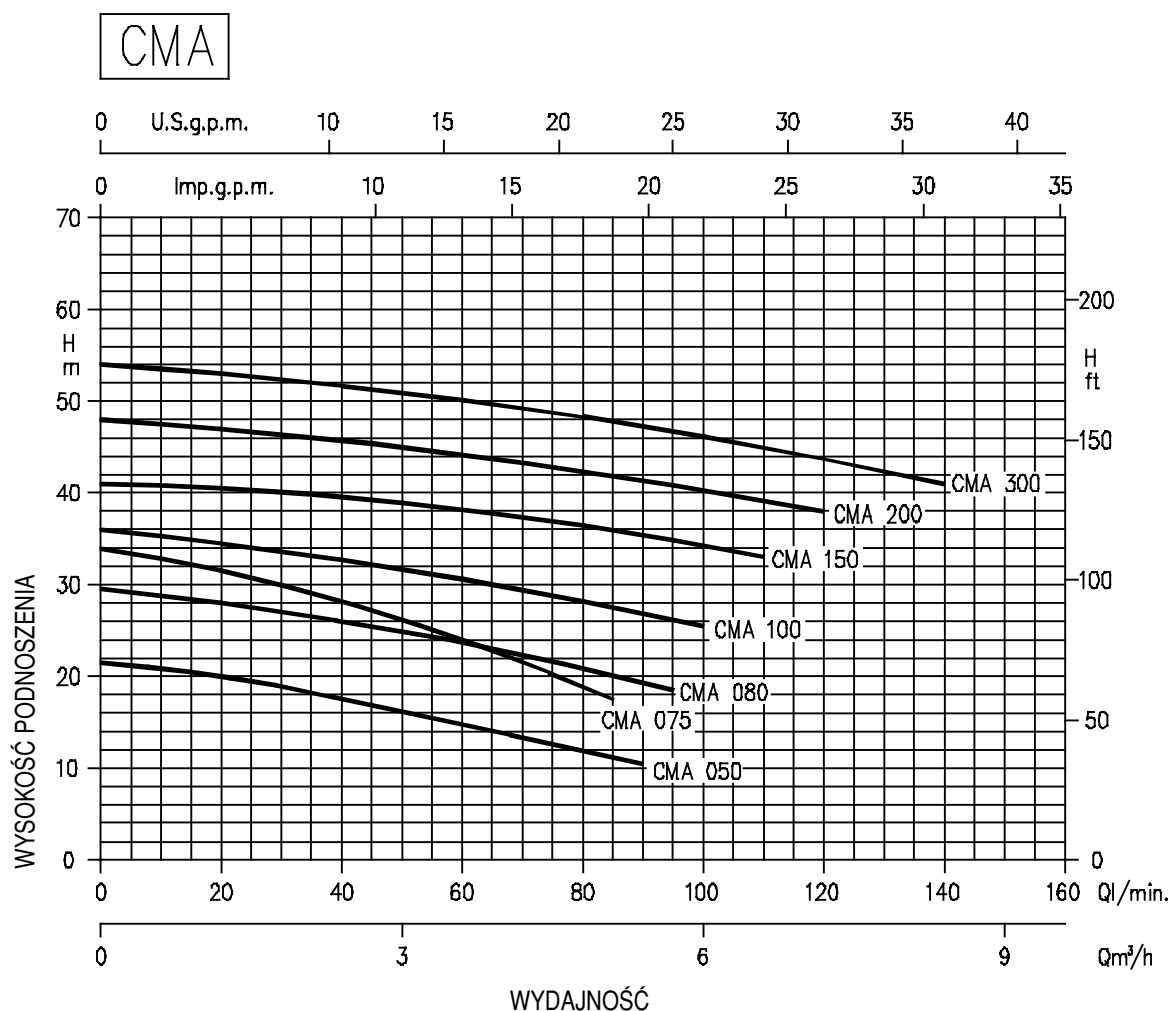


### TABELA DANYCH

| Typ pompy   |            | Wymiary (mm) |       |       |      |      |    |       |       |     |       |       |    |    |     |     |       |        |       |      |     | Masa<br>kg |      |      |
|-------------|------------|--------------|-------|-------|------|------|----|-------|-------|-----|-------|-------|----|----|-----|-----|-------|--------|-------|------|-----|------------|------|------|
|             |            | A            | B     | C     | D    | E    | F  | H     | H1    | H2  | H3    | H4    | M  | M1 | N   | N1  | R     | T      | V     | W    | S   |            | DNA  | DNM  |
| Jednofazowa | Trójfazowa |              |       |       |      |      |    |       |       |     | 3-    | 1-    |    |    |     |     |       | 1-     | 3-    |      |     |            |      |      |
| CMA 0.50 M  | CMA 0.50 T | 160          | 261,8 | 158,8 | 30   | 44   | 8  | 202   | 82    | 120 | 172,5 | 173   | 40 | 40 | 110 | 150 | 44    | PG11   | PG11  | 30   | 9,5 | G 1        | G 1  | 7,2  |
| CMA 0.75 M  | CMA 0.75 T | 185          | 300,3 | 171,8 | 36,8 | 45   | 9  | 232   | 97    | 135 | 197,5 | 198   | 45 | 40 | 140 | 180 | 45    | PG11   | PG11  | 36,8 | 9,5 | G 1        | G 1  | 11,7 |
| CMA 0.80 M  | CMA 0.80 T | 185          | 300,3 | 171,8 | 36,8 | 45   | 9  | 232   | 97    | 135 | 197,5 | 198   | 45 | 40 | 140 | 180 | 45    | PG11   | PG11  | 36,8 | 9,5 | G 1        | G 1  | 10,7 |
| CMA 1.00 M  | CMA 1.00 T | 185          | 300,3 | 171,8 | 36,8 | 45   | 9  | 232   | 97    | 135 | 197,5 | 198   | 45 | 40 | 140 | 180 | 45    | PG11   | PG11  | 36,8 | 9,5 | G 1        | G 1  | 12,0 |
| CMA 1.50 M  | CMA 1.50 T | 200          | 347,3 | 208,3 | 41,8 | 45,5 | 9  | 252   | 100   | 152 | 214   | 232   | 50 | 40 | 155 | 194 | 45,5  | PG13,5 | PG11  | 41,8 | 9,5 | G 1½       | G 1  | 19,4 |
| CMA 2.00 M  | CMA 2.00 T | 225          | 380,3 | 208,3 | 41,8 | 45,5 | 9  | 285   | 115   | 170 | 229   | 247   | 50 | 40 | 180 | 220 | 45,5  | PG13,5 | PG11  | 41,8 | 9,5 | G 1½       | G 1  | 21,3 |
| -           | CMA 3.00 T | 225          | 380,3 | 208,3 | 41,8 | 45,5 | 9  | 285   | 115   | 170 | 229   | -     | 50 | 40 | 180 | 220 | 45,5  | -      | PG11  | 41,8 | 9,5 | G 1½       | G 1  | 22,0 |
| CMB 0.75 M  | CMB 0.75 T | 188          | 315,3 | 182,3 | 36,8 | 49,5 | 9  | 251,5 | 101,5 | 150 | 127   | 127,5 | 45 | 40 | 140 | 180 | 65,5  | PG11   | PG11  | 52,8 | 9,5 | G 2        | G 1½ | 12,5 |
| CMB 1.00 M  | CMB 1.00 T | 188          | 315,3 | 182,3 | 36,8 | 49,5 | 9  | 251,5 | 101,5 | 150 | 127   | 127,5 | 45 | 40 | 140 | 180 | 65,5  | PG11   | PG11  | 52,8 | 9,5 | G 2        | G 1½ | 13,8 |
| CMB 1.50 M  | CMB 1.50 T | 188          | 349,3 | 206,3 | 36,8 | 49,5 | 9  | 251,5 | 101,5 | 150 | 215,5 | 233,5 | 45 | 40 | 140 | 180 | 65,5  | PG13,5 | PG11  | 52,8 | 9,5 | G 2        | G 1½ | 20,5 |
| CMB 2.00 M  | CMB 2.00 T | 200          | 373,3 | 209,3 | 36,8 | 57,5 | 9  | 271,5 | 111,5 | 160 | 225,5 | 243,5 | 45 | 40 | 160 | 200 | 76,5  | PG13,5 | PG11  | 55,8 | 9,5 | G 2        | G 1½ | 21,5 |
| -           | CMB 3.00 T | 200          | 373,3 | 209,3 | 36,8 | 57,5 | 9  | 271,5 | 111,5 | 160 | 225,5 | -     | 45 | 40 | 160 | 200 | 76,5  | -      | PG11  | 55,8 | 9,5 | G 2        | G 1½ | 21,5 |
| -           | CMB 4.00 T | 247          | 428,8 | 222,3 | 48   | 60   | 12 | 323,5 | 133,5 | 190 | 264,5 | -     | 60 | 50 | 190 | 240 | 77,5  | -      | G 1/2 | 65,5 | 12  | G 2        | G 1½ | 39,0 |
| -           | CMB 5.50 T | 247          | 428,8 | 222,3 | 48   | 60   | 12 | 323,5 | 133,5 | 190 | 264,5 | -     | 60 | 50 | 190 | 240 | 77,5  | -      | G 1/2 | 65,5 | 12  | G 2        | G 1½ | 41,0 |
| CMC 0.75 M  | CMC 0.75 T | 186          | 313,3 | 186,8 | 36,8 | 43   | 9  | 247   | 97    | 150 | 197,5 | 198   | 45 | 40 | 140 | 180 | 63,5  | PG11   | PG11  | 57,3 | 9,5 | G 2        | G 2  | 12,3 |
| CMC 1.00 M  | CMC 1.00 T | 186          | 313,3 | 186,8 | 36,8 | 43   | 9  | 247   | 97    | 150 | 197,5 | 198   | 45 | 40 | 140 | 180 | 63,5  | PG11   | PG11  | 57,3 | 9,5 | G 2        | G 2  | 13,0 |
| CMD 1.50 M  | CMD 1.50 T | 213          | 384,3 | 222,8 | 36,8 | 68   | 12 | 271,5 | 111,5 | 160 | 225,5 | 243,5 | 45 | 40 | 160 | 200 | 100,5 | PG13,5 | PG11  | 69,3 | 9,5 | G 2½       | G 2½ | 22,0 |
| CMD 2.00 M  | CMD 2.00 T | 213          | 397,3 | 222,8 | 36,8 | 68   | 12 | 271,5 | 111,5 | 160 | 225,5 | 243,5 | 45 | 40 | 160 | 200 | 100,5 | PG13,5 | PG11  | 69,3 | 9,5 | G 2½       | G 2½ | 24,0 |
| -           | CMD 3.00 T | 213          | 397,3 | 222,8 | 36,8 | 68   | 12 | 271,5 | 111,5 | 160 | 225,5 | -     | 45 | 40 | 160 | 200 | 100,5 | -      | PG11  | 69,3 | 9,5 | G 2½       | G 2½ | 24,0 |
| -           | CMD 4.00 T | 213          | 449,3 | 234,8 | 36,8 | 68   | 12 | 271,5 | 111,5 | 160 | 354   | -     | 45 | 50 | 160 | 200 | 100,5 | -      | G1/2  | 69,3 | 9,5 | G 2½       | G 2½ | 31,5 |
| CMR 0.75 M  | CMR 0.75 T | 180          | 310,3 | 181,8 | 36,8 | 45   | 9  | 229   | 97    | 132 | 197,5 | 198   | 45 | 40 | 140 | 180 | 60,5  | PG11   | PG11  | 52,3 | 9,5 | G 1½       | G 1½ | 11,0 |
| CMR 1.00 M  | CMR 1.00 T | 180          | 310,3 | 181,8 | 36,8 | 45   | 9  | 229   | 97    | 132 | 197,5 | 198   | 45 | 40 | 140 | 180 | 60,5  | PG11   | PG11  | 52,3 | 9,5 | G 1½       | G 1½ | 12,2 |



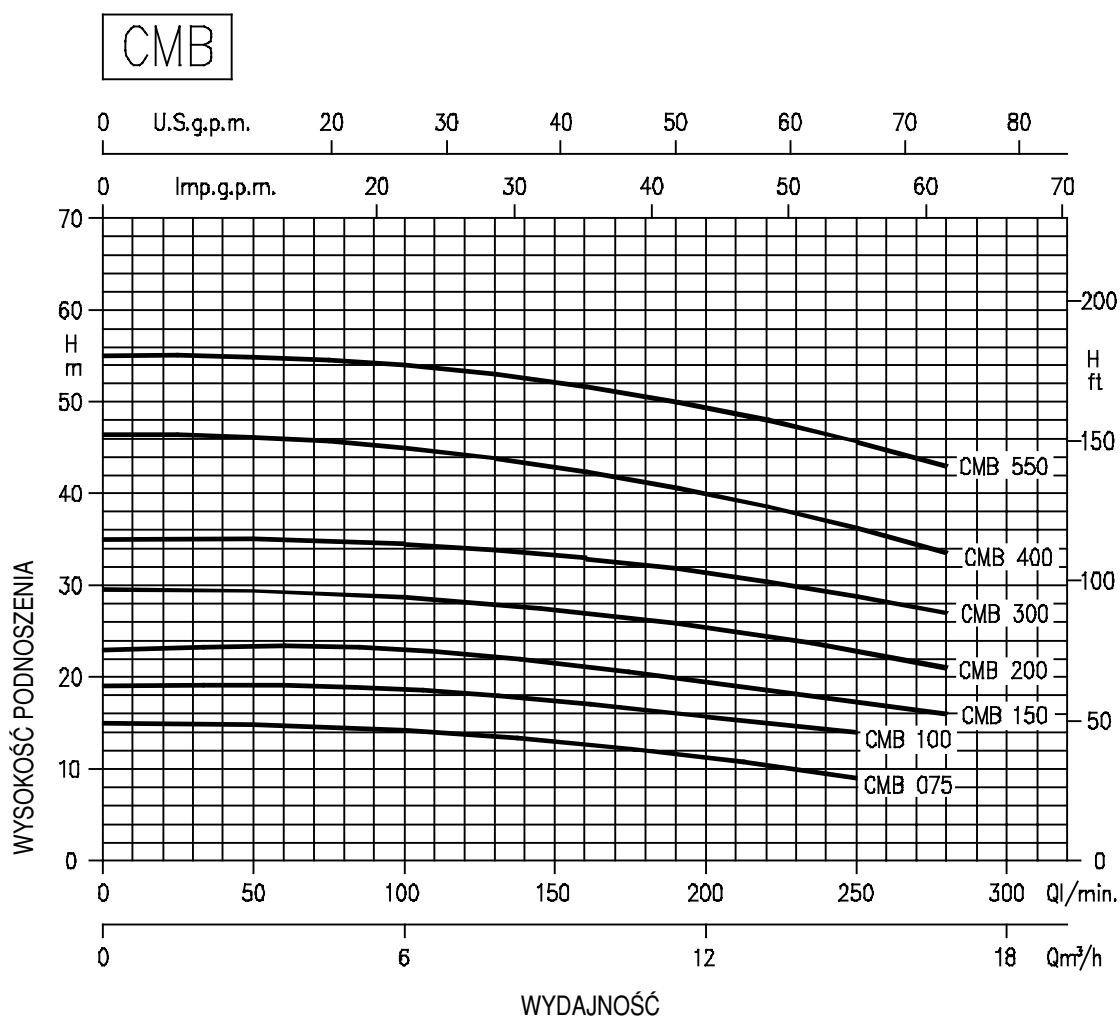
## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |      |     |     |  |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|--------------------|------|---------------|----------------------------|------|------|------|------|------|------|------|------|-----|-----|--|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  | Jednofa-<br>zowa   | Trójfazowa<br>230V | 400V |               | 20                         | 40   | 60   | 80   | 85   | 90   | 95   | 100  | 110  | 120 | 140 |  |
|                          |                             |      |             |     |                    |                    |      |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |      |     |     |  |
| CMA 0.50 M               | CMA 0.50 T                  | 0,37 | 10          | 450 | 3,2                | 2,4                | 1,4  | 20            | 17,8                       | 15   | 12,1 | 11,2 | 10,5 | -    | -    | -    | -    | -   |     |  |
| CMA 0.75 M               | CMA 0.75 T                  | 0,55 | 16          | 450 | 4,7                | 3,2                | 1,8  | 31,5          | 28,2                       | 24   | 18,9 | 17,5 | -    | -    | -    | -    | -    | -   |     |  |
| CMA 0.80 M               | CMA 0.80 T                  | 0,6  | 16          | 450 | 4,8                | 3,3                | 1,9  | 28            | 26,1                       | 23,8 | 20,9 | 20,1 | 19,3 | 18,5 | -    | -    | -    | -   |     |  |
| CMA 1.00 M               | CMA 1.00 T                  | 0,75 | 20          | 450 | 6,2                | 4,3                | 2,5  | 34,5          | 32,8                       | 30,6 | 28,2 | 27,6 | 26,9 | 26,2 | 25,5 | -    | -    | -   |     |  |
| CMA 1.50 M               | CMA 1.50 T                  | 1,1  | 35          | 450 | 8                  | 5,4                | 3,1  | 40,5          | 39,6                       | 38,2 | 36,5 | 36   | 35,6 | 34,9 | 34,3 | 33   | -    | -   |     |  |
| CMA 2.00 M               | CMA 2.00 T                  | 1,5  | 40          | 450 | 10,3               | 7,5                | 4,3  | 47            | 45,8                       | 44,2 | 42,4 | 41,9 | 41,4 | 40,9 | 40,3 | 39,2 | 38   | -   |     |  |
| -                        | CMA 3.00 T                  | 2,2  | -           | -   | -                  | 9,5                | 5,5  | 53            | 51,8                       | 50,2 | 48,3 | 47,8 | 47,3 | 46,7 | 46,2 | 45   | 43,7 | 41  |     |  |

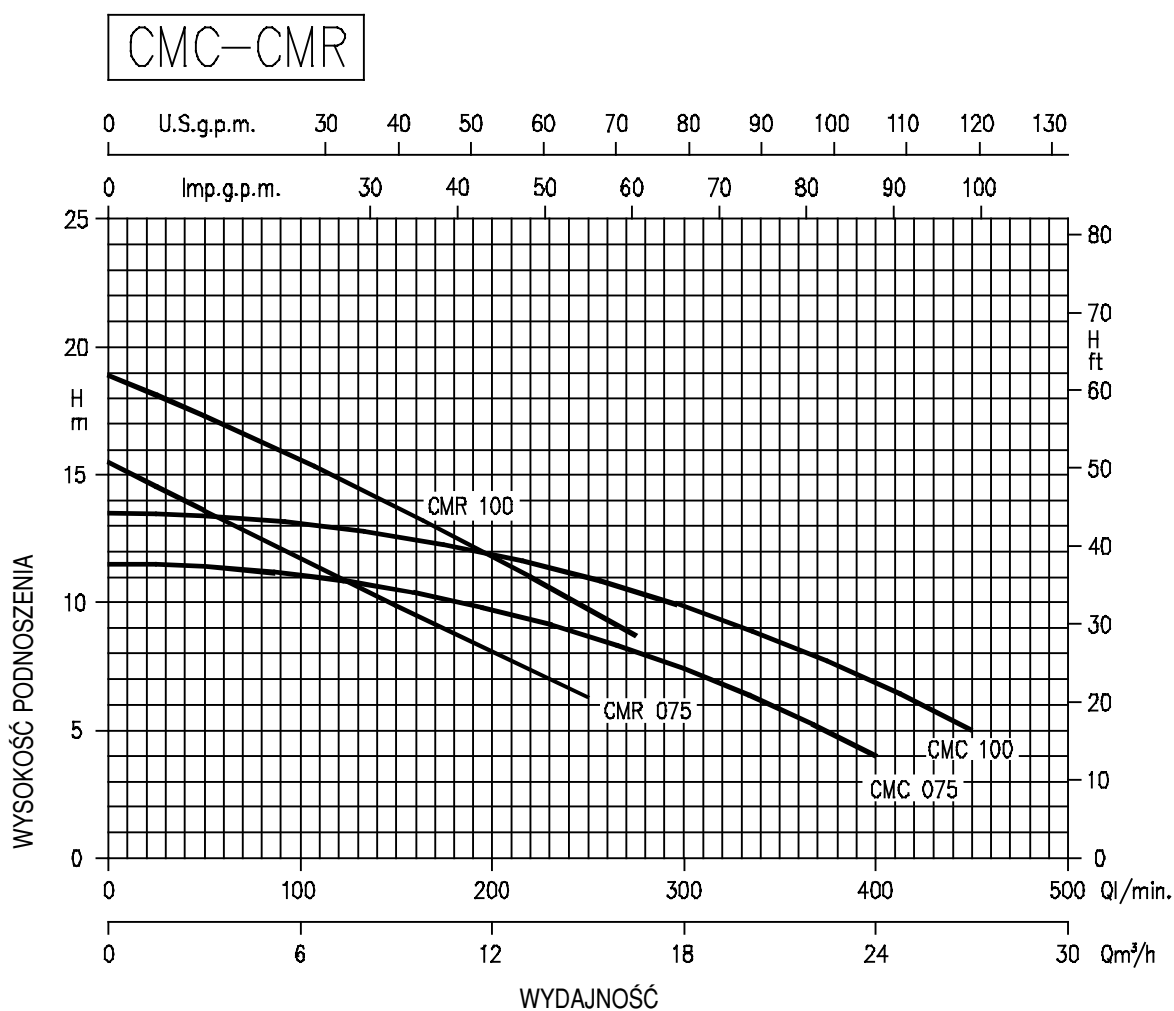
## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność            |      |      |      |      |      |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|--------------------|------|---------------|------------------------|------|------|------|------|------|
| Jednofazowy<br>230V 50Hz | Trójfazowy<br>230/400V 50Hz |      | µF          | Vc  | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 100                    | 140  | 180  | 220  | 250  | 280  |
|                          |                             |      |             |     |                    |                    |      |               | 6                      | 8,4  | 11   | 13   | 15   | 17   |
|                          |                             |      |             |     |                    |                    |      |               | H=Wysokość podnoszenia |      |      |      |      |      |
| CMB 0.75 M               | CMB 0.75 T                  | 0,55 | 14          | 450 | 4,5                | 3,0                | 1,7  |               | 14,2                   | 13,3 | 12   | 10,4 | 9    | -    |
| CMB 1.00 M               | CMB 1.00 T                  | 0,75 | 20          | 450 | 6,0                | 4,5                | 2,6  |               | 18,4                   | 17,4 | 16,1 | 15,2 | 14   | -    |
| CMB 1.50 M               | CMB 1.50 T                  | 1,1  | 31,5        | 450 | 8,5                | 5,5                | 3,2  |               | 22,4                   | 21,1 | 19,8 | 18   | 17,1 | 16   |
| CMB 2.00 M               | CMB 2.00 T                  | 1,5  | 40          | 450 | 10,8               | 7,5                | 4,3  |               | 28,7                   | 27,7 | 26,3 | 24,5 | 22,8 | 21   |
| -                        | CMB 3.00 T                  | 2,2  | -           | -   | -                  | 8,3                | 4,8  |               | 34,5                   | 33,7 | 32,1 | 30,3 | 28,8 | 27   |
| -                        | CMB 4.00 T                  | 3,0  | -           | -   | -                  | 12,0               | 6,9  |               | 45                     | 43,4 | 41,5 | 38,4 | 36,2 | 33,5 |
| -                        | CMB 5.50 T                  | 4,0  | -           | -   | -                  | 15,9               | 9,2  |               | 54                     | 52,3 | 50,4 | 48,1 | 45,7 | 43   |

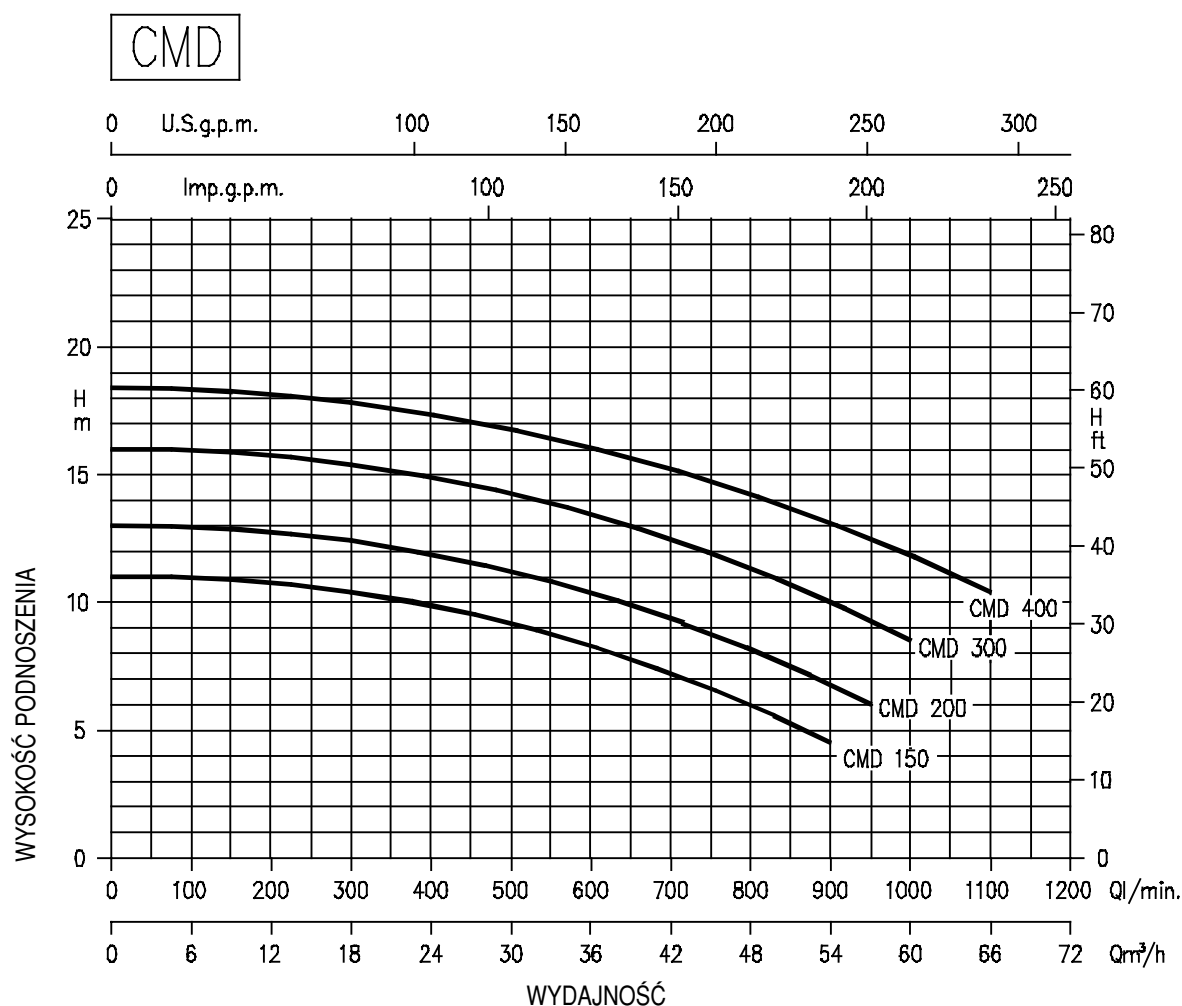
## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność                |     |      |      |     |      |     |     |     |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|--------------------|------|---------------|----------------------------|-----|------|------|-----|------|-----|-----|-----|
| Jednofazowa<br>230V 50Hz | Trójfazową<br>230/400V 50Hz |      | µF          | V <sub>c</sub> | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 50                         | 100 | 150  | 200  | 250 | 275  | 350 | 400 | 450 |
|                          |                             |      |             |                |                    |                    |      |               | 3                          | 6   | 9    | 12   | 15  | 16,5 | 21  | 24  | 27  |
|                          |                             |      |             |                |                    |                    |      |               | H=Wysokość podnoszenia (m) |     |      |      |     |      |     |     |     |
| CMC 0.75 M               | CMC 0.75 T                  | 0,55 | 14          | 450            | 4,2                | 2,8                | 1,6  | 11,4          |                            |     | 10,6 |      | 8,8 |      | 5,9 | 4   | -   |
| CMC 1.00 M               | CMC 1.00 T                  | 0,75 | 20          | 450            | 5,3                | 3,5                | 2,0  | 13,4          |                            |     | 12,6 |      | 11  |      | 8,6 | 6,8 | 5   |
| CMR 0.75 M               | CMR 0.75 T                  | 0,55 | 14          | 450            | 3,8                | 2,8                | 1,6  | 13,6          | 11,4                       |     |      | 8,1  | 6,3 | -    |     |     |     |
| CMR 1.00 M               | CMR 1.00 T                  | 0,75 | 20          | 450            | 4,85               | 3,5                | 2,0  | 17,3          | 15,4                       |     |      | 11,5 | 9,6 | 8,7  |     |     |     |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                             | kW  | Kondensator |     | Prąd pobierany (A) |                    |      | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |
|--------------------------|-----------------------------|-----|-------------|-----|--------------------|--------------------|------|---------------|----------------------------|------|------|------|------|------|------|------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |     | µF          | Vc  | Jedno-<br>fazowy   | Trójfazowy<br>230V | 400V |               | 300                        | 400  | 600  | 800  | 900  | 950  | 1000 | 1100 |
|                          |                             |     |             |     |                    |                    |      |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |
| CMD 1.50 M               | CMD 1.50 T                  | 1,1 | 31,5        | 450 | 8,9                | 5,9                | 3,4  | 10,4          | 9,9                        | 8,4  | 6    | 4,5  | -    | -    | -    |      |
| CMD 2.00 M               | CMD 2.00 T                  | 1,5 | 40          | 450 | 10,8               | 7,5                | 4,3  | 12,4          | 11,9                       | 10,5 | 8,3  | 6,8  | 6    | -    | -    |      |
| -                        | CMD 3.00 T                  | 2,2 | -           | -   | -                  | 9,0                | 5,2  | 15,4          | 14,9                       | 13,5 | 11,4 | 10   | 9,3  | 8,5  | -    |      |
| -                        | CMD 4.00 T                  | 3,0 | -           | -   | -                  | 12,3               | 7,1  | 17,8          | 17,3                       | 16,1 | 14,2 | 13,1 | 12,5 | 11,8 | 10,4 |      |

Normalniessące dwuwirnikowe pompy elektryczne wykonane z żeliwa, przeznaczone do podnoszenia ciśnienia wody pitnej do celów gospodarczych, małych systemów irygacyjnych, opróżniania zbiorników oraz do pompowania czystej wody w innych zastosowaniach



## SPECYFIKACJA

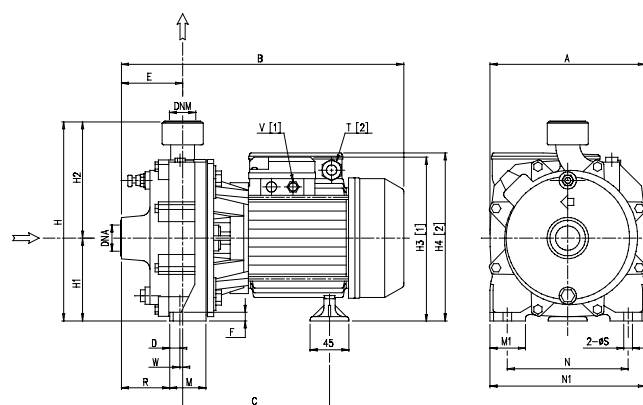
- Maksymalne ciśnienie pracy: 6 bar dla CDA 0.75-1.00  
10 bar dla pozostałych
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla CDA 0.75-1.00  
90°C dla pozostałych

## MATERIAŁY

- Obudowa pompy: żeliwo
- Uszczelnienie wału: mechaniczne ślizgowe  
węgiel/ceramika/NBR
- Wirnik Pompy: – technopolimer dla CDA 0.75-1.00  
– brąz dla pozostałych modeli
- Wał pompy: – AISI 303 dla CDA 1.50-2.00-3.00  
– AISI 304 dla CDA 4.00-5.50  
– AISI 416 dla pozostałych modeli
- Wspornik: – aluminium dla CDA 0.75-1.00  
– żeliwo dla pozostałych modeli
- Tarcza obudowy: – AISI 304 dla CDA 0.75-1.00  
– żeliwo dla pozostałych modeli

## DANE TECHNICZNE

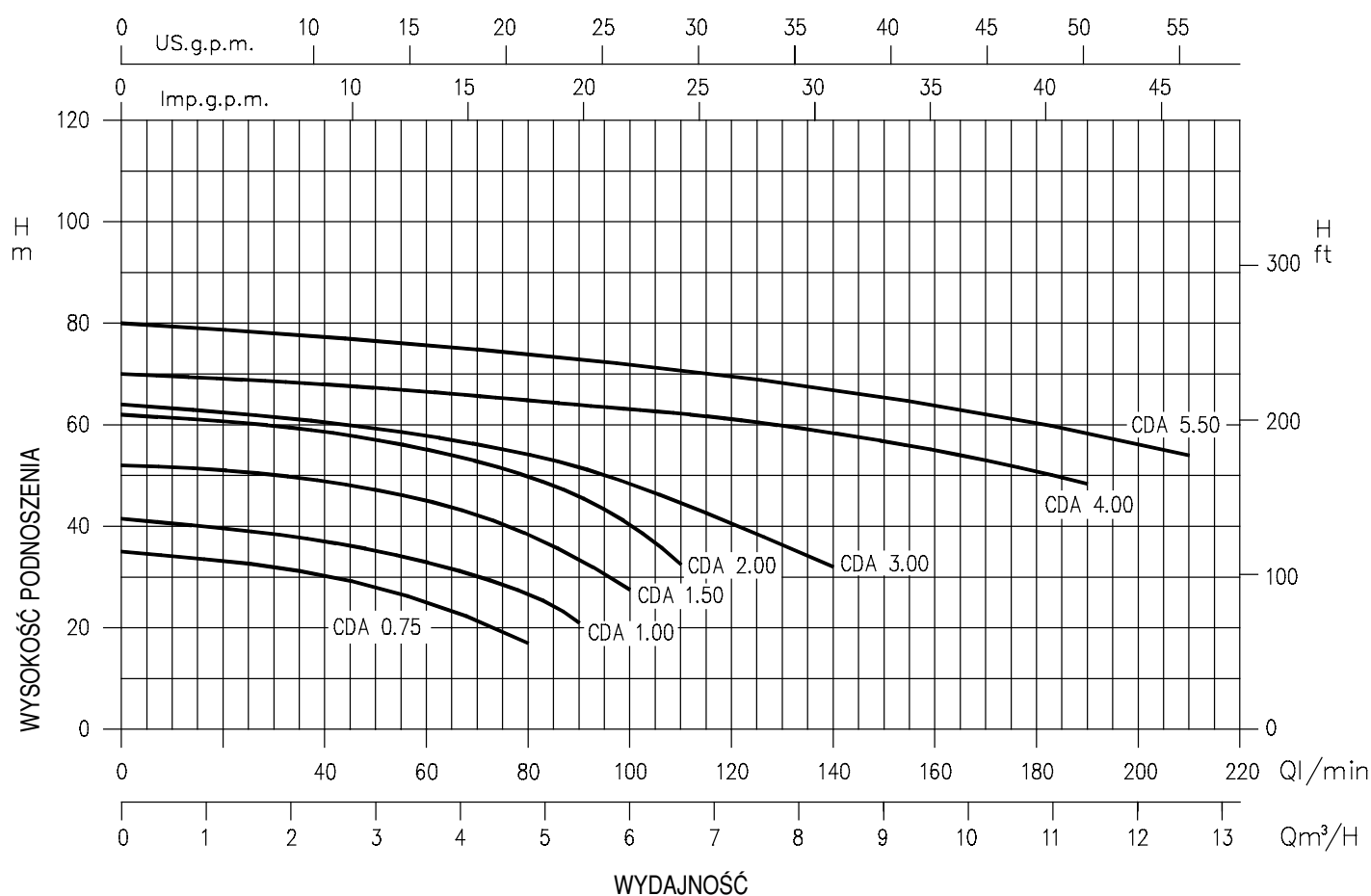
- Asynchroniczny silnik 2-biegunowy
- Klasa izolacji F
- Stopień ochrony IP44
- Zasilanie; 1~230V ± 10% 50Hz,  
3~230/400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy  
oraz zabezpieczenie przeciążeniowe  
dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego  
w gestii użytkownika



## TABELA WYMIARÓW

| Typ pompy   |            | Wymiary (mm) |       |       |     |      |    |       |       |     |       |     |    |    |     |     |      |        |         |      |     |         |         | Masa<br>kg |
|-------------|------------|--------------|-------|-------|-----|------|----|-------|-------|-----|-------|-----|----|----|-----|-----|------|--------|---------|------|-----|---------|---------|------------|
|             |            | A            | B     | C     | D   | E    | F  | H     | H1    | H2  | H3    | H4  | M  | M1 | N   | N1  | R    | T      | V       | W    | S   | DNA     | DNM     |            |
| Jednofazowa | Trójfazowa |              |       |       |     |      |    |       |       |     |       |     |    |    |     |     |      |        |         |      |     |         |         |            |
| CDA 0.75 M  | CDA 0.75 T | 183          | 336,3 | 179,8 | 8,3 | 73   | 9  | 227   | 97    | 130 | 197,5 | 198 | 42 | 40 | 140 | 180 | 57,5 | PG11   | PG11    | 6,8  | 9,5 | G 1     | G 1     | 13,5       |
| CDA 1.00 M  | CDA 1.00 T | 183          | 336,3 | 179,8 | 8,3 | 73   | 9  | 227   | 97    | 130 | 197,5 | 198 | 42 | 40 | 140 | 180 | 57,5 | PG11   | PG11    | 6,8  | 9,5 | G 1     | G 1     | 15,0       |
| CDA 1.50 M  | CDA 1.50 T | 209          | 394,8 | 218,3 | 8,3 | 86   | 9  | 265   | 110   | 155 | 224   | 242 | 48 | 40 | 155 | 195 | 65,5 | PG13,5 | PG11    | 12,3 | 9,5 | G 1 1/4 | G 1     | 25,0       |
| CDA 2.00 M  | CDA 2.00 T | 209          | 410,8 | 218,3 | 8,3 | 86   | 9  | 265   | 110   | 155 | 224   | 242 | 48 | 40 | 155 | 195 | 65,5 | PG13,5 | PG11    | 12,3 | 9,5 | G 1 1/4 | G 1     | 27,0       |
| -           | CDA 3.00 T | 194          | 410,8 | 218,3 | 8,3 | 86   | 9  | 265   | 110   | 155 | 224   | -   | 48 | 40 | 155 | 195 | 65,5 | -      | PG11    | 12,3 | 9,5 | G 1 1/4 | G 1     | 27,0       |
| -           | CDA 4.00 T | 228          | 467,3 | 225,3 | 12  | 95,5 | 12 | 308,5 | 133,5 | 175 | 264,5 | -   | 57 | 50 | 180 | 230 | 71,5 | -      | G 1 1/2 | 12   | 12  | G 1 1/2 | G 1 1/4 | 42,5       |
| -           | CDA 5.50 T | 228          | 467,3 | 225,3 | 12  | 95,5 | 12 | 308,5 | 133,5 | 175 | 264,5 | -   | 57 | 50 | 180 | 230 | 71,5 | -      | G 1 1/2 | 12   | 12  | G 1 1/2 | G 1 1/4 | 46,3       |

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                             | kW   | Kondensator |     | Prąd pobierany (A) |            |      | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |      |      |      |  |
|--------------------------|-----------------------------|------|-------------|-----|--------------------|------------|------|---------------|----------------------------|------|------|------|------|------|------|------|------|------|------|--|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | Vc  | Jesno-<br>fazowy   | Trójfazowy |      |               | 20                         | 40   | 50   | 80   | 90   | 100  | 110  | 140  | 170  | 190  | 210  |  |
|                          |                             |      |             |     |                    | 230V       | 400V |               | 1,2                        | 2,4  | 3    | 4,8  | 5,4  | 6    | 6,6  | 8,4  | 10,2 | 11,4 | 12,6 |  |
|                          |                             |      |             |     |                    |            |      |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |      |      |      |  |
| CDA 0.75 M               | CDA 0.75 T                  | 0,55 | 16          | 450 | 5,0                | 3,4        | 2,0  |               | 33                         | 30,2 | 27,9 | 17   | -    | -    | -    | -    | -    | -    | -    |  |
| CDA 1.00 M               | CDA 1.00 T                  | 0,75 | 20          | 450 | 6,1                | 4,0        | 2,3  |               | 39,5                       | 37   | 35,2 | 27   | 21   | -    | -    | -    | -    | -    | -    |  |
| CDA 1.50 M               | CDA 1.50 T                  | 1,1  | 35          | 450 | 8,6                | 5,6        | 3,3  |               | 50,8                       | 48,8 | 47,1 | 38,4 | 33,4 | 27,5 | -    | -    | -    | -    | -    |  |
| CDA 2.00 M               | CDA 2.00 T                  | 1,5  | 40          | 450 | 10,8               | 7,2        | 4,1  |               | 60,5                       | 58,6 | 56,9 | 49,8 | 46,5 | 40,3 | 32,5 | -    | -    | -    | -    |  |
| -                        | CDA 3.00 T                  | 2,2  | -           | -   | -                  | 8,8        | 5,1  |               | -                          | 60,5 | 59,3 | 54,1 | 51,6 | 48,4 | 44,6 | 32   | -    | -    | -    |  |
| -                        | CDA 4.00 T                  | 3,0  | -           | -   | -                  | 13,0       | 7,5  |               | -                          | -    | 67   | 64,8 | 63,9 | 62,5 | 62   | 58   | 53,5 | 48   | -    |  |
| -                        | CDA 5.50 T                  | 4,0  | -           | -   | -                  | 16,5       | 9,5  |               | -                          | -    | 76,5 | 73,9 | 72,9 | 71,8 | 70,5 | 66,8 | 62   | 58,3 | 54   |  |

Pompy odśrodkowe, normalnie ssące zgodne ze standardem EN 733 (DIN 24255), wykonane ze stali nierdzewnej AISI 304; oraz AISI 316L przeznaczone do pompowania wody oraz cieczy dopuszczonych do kontaktu ze stalą j.w., w wodnych systemach pompowych, grzewczych, klimatyzacyjnych, oraz do pompowania mediów przemysłowych takich jak glikole, alkohole, roztwory detergentów oraz środków myjących, roztwory niektórych cieczy agresywnych bez zanieczyszczeń mechanicznych itp.



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 10 bar
- Temperatura medium:  
od - 10°C do + 110°C  
110°C wersja H

### MATERIAŁY

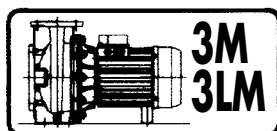
- Obudowa pompy, wirnik, wał i pokrywa obudowy: AISI 304 dla serii 3, AISI 316L dla serii 3L
- Mechaniczne uszczelnienie wału:
  - standard: węgiel/ceramika/NBR (dla serii 3)
  - SiC/SiC/FPM (dla serii 3L)
  - węgiel/ceramika/FPM (wersja H)
  - SiC/SiC/FPM (wersja HS)

### DANE TECHNICZNE

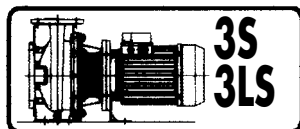
- Asynchroniczny silnik dwu- i czterobiegunowy
- Klasa izolacji F
- Stopień ochrony IP55
- Zasilanie: 3~230/400V ± 10% 50Hz (do 4kW włącznie)  
400/690V ± 10% (pozostałe)
- Zabezpieczenie silnika w gestii użytkownika

Dostępna w 5 różnych wersjach, dwu- i czterobiegunowych

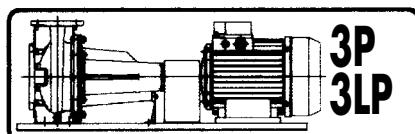
Dostępne w 4 wykończeniach, 2- i 4-biegunowych



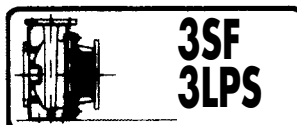
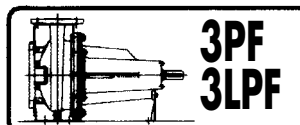
monoblok z silnikiem  
o wydłużonym wale



pompa blokowa  
z silnikiem standardowym  
i sprzęgłem sztywnym



pompa blokowana  
na fundamencie  
z silnikiem standardowym  
na łapach i sprzęgłem  
elastycznym



pompa  
bez  
silnika



### ZAKRES ZASTOSOWANIA dla 2900 obr./min (w/g ISO 9906 Aneks A)

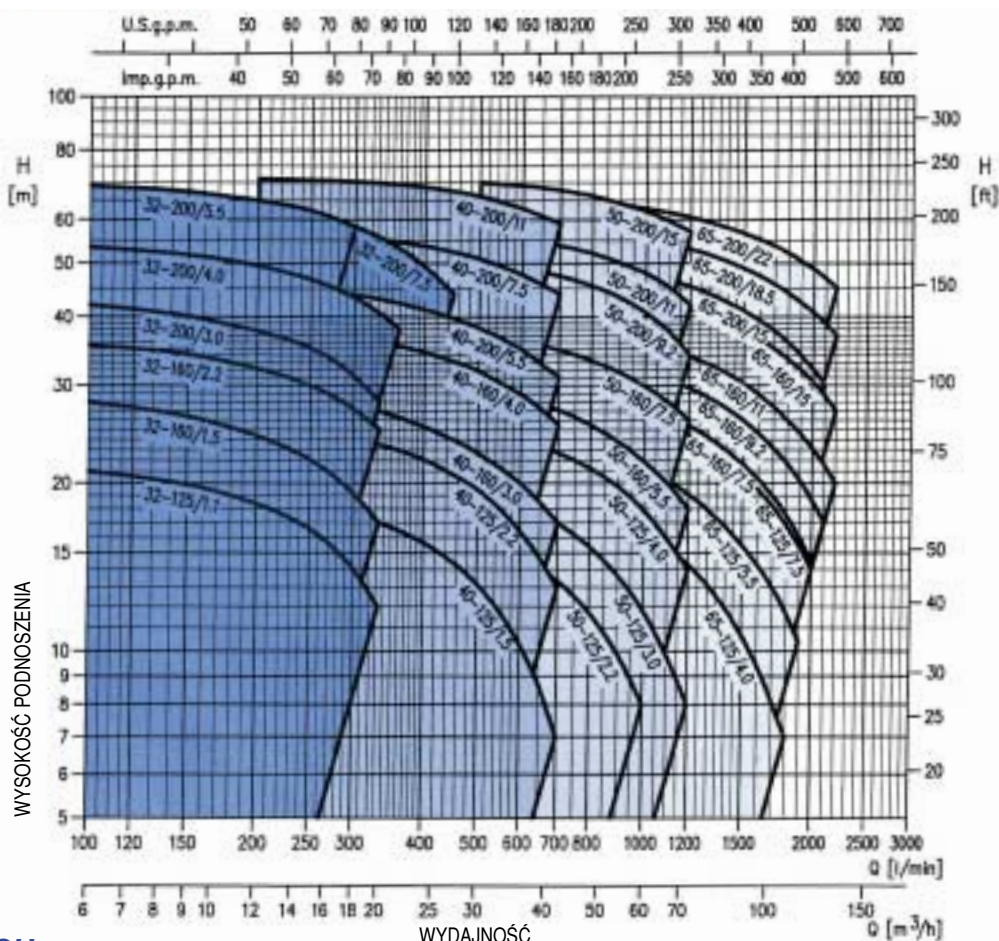
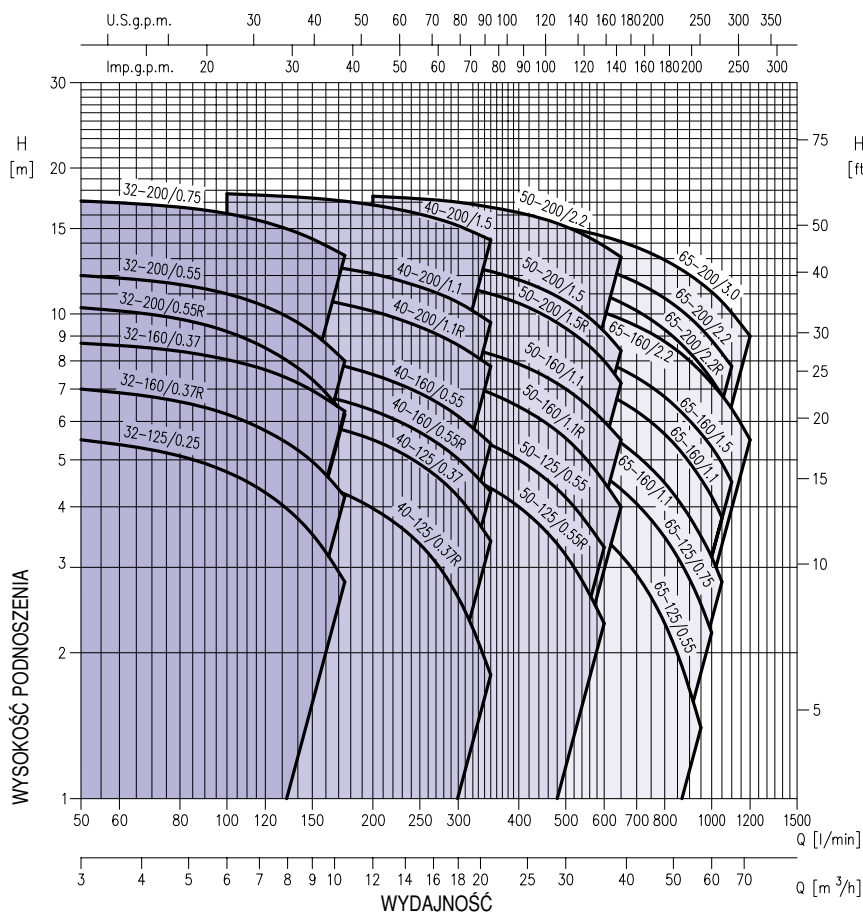


TABELA DANYCH

| Typ pompy<br>3(L)M | kW   | HP   | Prąd pobierany (A) |      |      | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|--------------------|------|------|--------------------|------|------|---------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|--|
|                    |      |      | 3~                 |      |      |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |
|                    |      |      | 230V               | 400V | 690V |               | 0                          | 100  | 150  | 200  | 300  | 333  | 360  | 400  | 450  | 500  | 600  | 700  | 800  | 1000 | 1200 | 1500 | 1800 | 1900 | 2000 | 2100 | 2200 |   |  |  |
|                    |      |      |                    |      |      | 0             | 6                          | 9    | 12   | 18   | 20   | 22   | 24   | 27   | 30   | 36   | 42   | 48   | 60   | 72   | 90   | 108  | 114  | 120  | 126  | 132  |      |   |  |  |
| 32-125/1.1 (M)     | 1,1  | -    | 5,0                | 2,9  | -    | 22,5          | 21                         | 19,9 | 18,4 | 14,1 | 12   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 32-160/1.5 (M)     | 1,5  | -    | 5,9                | 3,4  | -    | 29,5          | 28                         | 26,5 | 24,5 | 19,2 | 17   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 32-160/2.2 (M)     | 2,2  | -    | 8,3                | 4,8  | -    | 37            | 35,5                       | 34   | 32   | 27   | 25   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 32-200/3.0         | 3,0  | -    | 11,8               | 6,8  | -    | 44            | 42                         | 40   | 37,5 | 31   | 28   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 32-200/4.0         | 4,0  | -    | 15,6               | 9,0  | -    | 55            | 53,5                       | 52   | 49,5 | 43,5 | 40,5 | 38   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 32-200/5.5         | 5,5  | -    | -                  | 11,8 | 6,8  | 70,5          | 69                         | 67,5 | 65   | 58,3 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 32-200/7.5         | 7,5  | 10   | -                  | -    | -    | 70,5          | 69                         | 67,5 | 65   | 58,3 | 55,5 | 53   | 49   | 44   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-125/1.5 (M)     | 1,5  | -    | 5,9                | 3,4  | -    | 20            | -                          | -    | 19   | 17,6 | 17   | 16,5 | 15,7 | 14,5 | 13,2 | 10,3 | 7    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-125/2.2 (M)     | 2,2  | -    | 8,3                | 4,8  | -    | 26,5          | -                          | -    | 25,5 | 24   | 23,5 | 23   | 22   | 21   | 19,5 | 16,4 | 13   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-160/3.0         | 3,0  | -    | 11,8               | 6,8  | -    | 31            | -                          | -    | 29,5 | 27,5 | 27   | 26,5 | 25,5 | 24   | 22,5 | 20   | 17   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-160/4.0         | 4,0  | -    | 15,9               | 9,2  | -    | 40            | -                          | -    | 38,5 | 37   | 36   | 35,5 | 34,5 | 33   | 32   | 29   | 25,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-200/5.5         | 5,5  | -    | -                  | 11,1 | 6,4  | 47            | -                          | -    | 45,5 | 44   | 43   | 42,5 | 41   | 39,5 | 38   | 35   | 31   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-200/7.5         | 7,5  | -    | -                  | 15,1 | 8,7  | 58            | -                          | -    | 57   | 55,5 | 55   | 54,5 | 53,5 | 52,5 | 51   | 47,5 | 44   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 40-200/11          | 11   | -    | -                  | 20,0 | 11,6 | 72            | -                          | -    | 71   | 70   | 70   | 69,5 | 68,5 | 67,5 | 66   | 63   | 59   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-125/2.2 (M)     | 2,2  | -    | 8,3                | 4,8  | -    | 19            | -                          | -    | -    | -    | -    | -    | 17,5 | 17   | 16,3 | 14,9 | 13,4 | 11,7 | 8    | -    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-125/3.0         | 3,0  | -    | 11,8               | 6,8  | -    | 22            | -                          | -    | -    | -    | -    | -    | 20,5 | 20   | 19,6 | 18,4 | 17   | 15,4 | 11,8 | 8    | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-125/4.0         | 4,0  | -    | 15,9               | 9,2  | -    | 26,5          | -                          | -    | -    | -    | -    | -    | 26   | 25,5 | 25   | 24   | 22,5 | 21,5 | 17,9 | 14   | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-160/5.5         | 5,5  | -    | -                  | 11,5 | 6,6  | 33            | -                          | -    | -    | -    | -    | -    | 31   | 30,5 | 30   | 28,5 | 27   | 25,5 | 22   | 18   | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-160/7.5         | 7,5  | -    | -                  | 15,5 | 9,0  | 40            | -                          | -    | -    | -    | -    | -    | 38,5 | 38   | 37,5 | 36   | 35   | 33,5 | 30   | 26   | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-200/9.2         | 9,2  | -    | -                  | 17,4 | 10,0 | 53            | -                          | -    | -    | -    | -    | -    | -    | -    | 50   | 49   | 47,5 | 45,5 | 40,5 | 34   | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-200/11          | 11   | -    | -                  | 22,0 | 12,7 | 59            | -                          | -    | -    | -    | -    | -    | -    | -    | 56   | 55   | 54   | 52   | 48   | 42   | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 50-200/15          | 15   | -    | -                  | 31,3 | 18,0 | 72            | -                          | -    | -    | -    | -    | -    | -    | -    | 70   | 69   | 68   | 66   | 62   | 57   | -    | -    | -    | -    | -    | -    | -    |   |  |  |
| 65-125/4.0         | 4    | 5.5  | -                  | -    | -    | 22,5          | -                          | -    | -    | -    | -    | -    | -    | -    | -    | 20   | 19,4 | 18,5 | 16,5 | 14,3 | 10,7 | 7    | -    | -    | -    | -    | -    | - |  |  |
| 65-125/5.5         | 5,5  | 7,5  | -                  | -    | -    | 27            | -                          | -    | -    | -    | -    | -    | -    | -    | -    | 25   | 24,5 | 23,5 | 21,5 | 19,1 | 15,5 | 11,7 | 10,4 | -    | -    | -    | -    |   |  |  |
| 65-125/7.5         | 7,5  | 10   | -                  | -    | -    | 32            | -                          | -    | -    | -    | -    | -    | -    | -    | -    | 30,5 | 29,5 | 29   | 27   | 24,5 | 21   | 16,8 | 15,4 | 14   | -    | -    | -    |   |  |  |
| 65-160/7.5         | 7,5  | 10   | -                  | -    | -    | 32            | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 30   | 29   | 27   | 25,5 | 21,5 | 17,5 | 16   | 14,5 | -    | -    | -    |   |  |  |
| 65-160/9.2         | 9,2  | 12,5 | -                  | -    | -    | 36,5          | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 34,5 | 34   | 32   | 29,5 | 26   | 21,5 | 20   | 18,6 | 17   | -    | -    |   |  |  |
| 65-160/11          | 11   | 15   | -                  | -    | -    | 40,5          | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 38,5 | 38   | 36   | 34   | 30,5 | 26   | 24,5 | 23   | 21,5 | 20   |      |   |  |  |
| 65-160/15          | 15   | 20   | -                  | -    | -    | 48            | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 45,5 | 45   | 43   | 41   | 37,5 | 33,5 | 32   | 30,5 | 29   | 27   |      |   |  |  |
| 65-200/15          | 15   | 20   | -                  | -    | -    | 54            | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 51   | 50   | 48   | 45,5 | 41   | 36   | 34   | 32   | 30   | -    | -    |   |  |  |
| 65-200/18.5        | 18,5 | 25   | -                  | -    | -    | 60,5          | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 58,5 | 57,5 | 55,5 | 53   | 49   | 44   | 42,5 | 40,5 | 39   | 37   |      |   |  |  |
| 65-200/22          | 22   | 30   | -                  | -    | -    | 67            | -                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 65,5 | 65   | 63   | 60,5 | 56,5 | 52   | 50,5 | 48,5 | 47   | 45   |      |   |  |  |

(M) – wykonanie jednofazowe

### ZAKRES ZASTOSOWANIA dla 1450 obr./min (w/g ISO 9906 Aneks A)

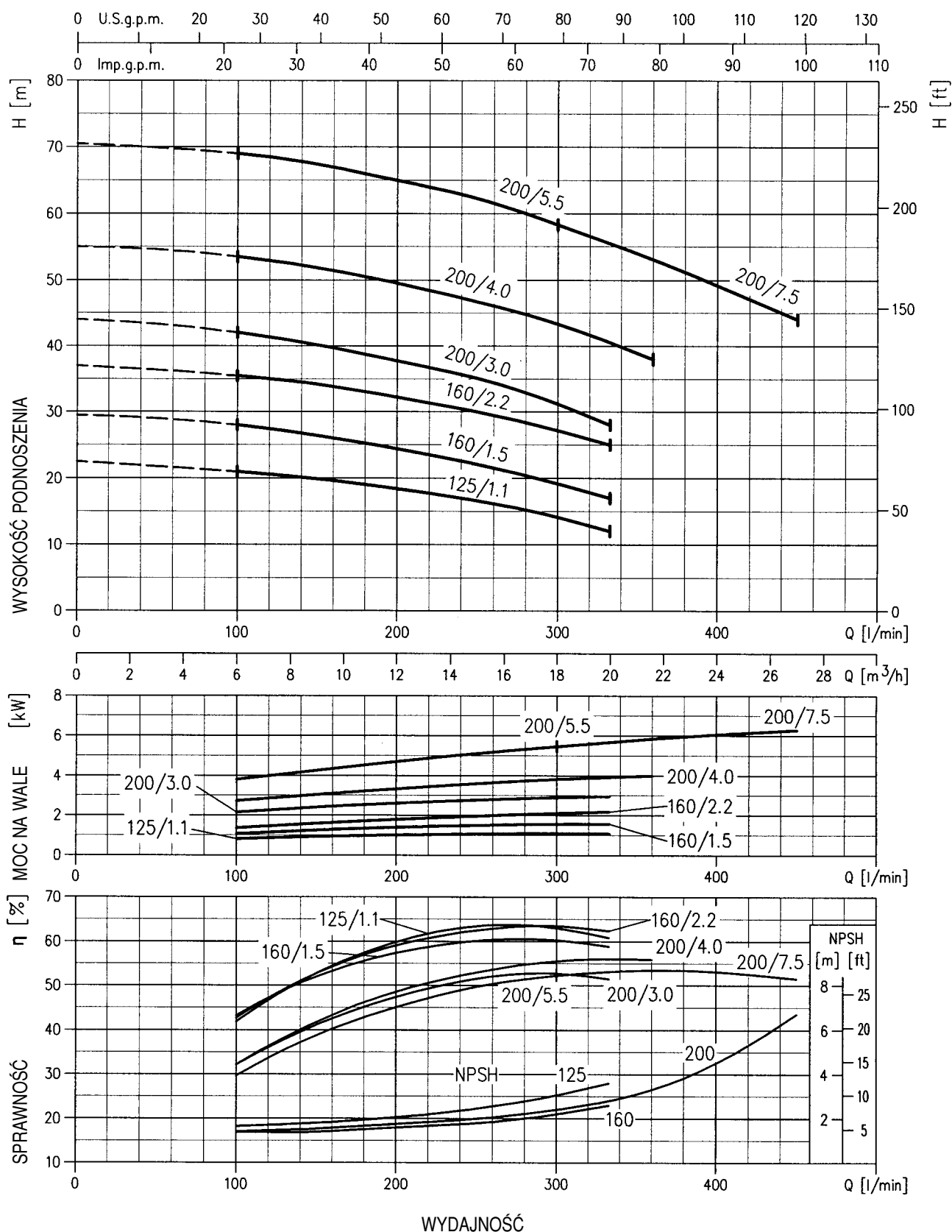


### TABELA DANYCH

| Typ pompy<br><br>1450<br>obr/min | kW   | HP   | Q=Wydajność |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |  |
|----------------------------------|------|------|-------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|--|
|                                  |      |      | l/min 50    | 100  | 160  | 200  | 250  | 300  | 350  | 400  | 500   | 600  | 650  | 800  | 950  | 1000 | 1050 | 1100 | 1200 |  |
|                                  |      |      | m³/h 3      | 6    | 9,6  | 12   | 15   | 18   | 21   | 24   | 30    | 36   | 39   | 48   | 57   | 60   | 63   | 66   | 72   |  |
| H=Wysokość podnoszenia (m)       |      |      |             |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |  |
| 32-125/0.25                      | 0,25 | 0,33 | 5,6         | 4,9  | 3,3  | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 32-160/0.37R                     | 0,37 | 0,5  | 7,2         | 6,3  | 4,5  | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 32-160/0.37                      | 0,37 | 0,5  | 8,7         | 8    | 6,7  | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 32-200/0.55R                     | 0,55 | 0,75 | 10,5        | 9,3  | 7    | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 32-200/0.55                      | 0,55 | 0,75 | 12          | 11   | 9,2  | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 32-200/0.75                      | 0,75 | 1    | 17,3        | 16,5 | 14,6 | -    | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-125/0.37R                     | 0,37 | 0,5  | -           | 4,5  | 4    | 3,6  | 3    | 2,3  | 1,5  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-125/0.37                      | 0,37 | 0,5  | -           | 6,2  | 5,7  | 5,2  | 4,6  | 3,8  | 3    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-160/0.55R                     | 0,55 | 0,75 | -           | 7,2  | 6,7  | 6,3  | 5,7  | 5    | 4,3  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-160/0.55                      | 0,55 | 0,75 | -           | 8,5  | 7,9  | 7,5  | 6,9  | 6,2  | 5,4  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-200/1.1R                      | 1,1  | 1,5  | -           | 11   | 10,5 | 10,1 | 9,6  | 9    | 8,3  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-200/1.1                       | 1,1  | 1,5  | -           | 12,7 | 12,3 | 11,9 | 11,2 | 10,4 | 9,4  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 40-200/1.5                       | 1,5  | 2    | -           | 17,8 | 17,4 | 16,9 | 16,2 | 15,3 | 14,2 | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |  |
| 50-125/0.55R                     | 0,55 | 0,75 | -           | -    | -    | 4,9  | 4,7  | 4,4  | 4,2  | 3,8  | 3     | 2    | -    | -    | -    | -    | -    | -    | -    |  |
| 50-125/0.55                      | 0,55 | 0,75 | -           | -    | -    | 5,8  | 5,6  | 5,4  | 5,2  | 4,9  | 4,1   | 3,2  | -    | -    | -    | -    | -    | -    | -    |  |
| 50-160/1.1R                      | 1,1  | 1,5  | -           | -    | -    | 7,7  | 7,5  | 7,2  | 6,9  | 6,5  | 5,6   | 4,5  | -    | -    | -    | -    | -    | -    | -    |  |
| 50-160/1.1                       | 1,1  | 1,5  | -           | -    | -    | 9    | 8,8  | 8,5  | 8,2  | 7,8  | 6,9   | 5,8  | -    | -    | -    | -    | -    | -    | -    |  |
| 50-200/1.5R                      | 1,5  | 2    | -           | -    | -    | 12,1 | 11,8 | 11,5 | 11,1 | 10,6 | 9,5   | 8    | -    | -    | -    | -    | -    | -    | -    |  |
| 50-200/1.5                       | 1,5  | 2    | -           | -    | -    | 13   | 12,7 | 12,3 | 11,9 | 11,5 | 10,5  | 9,1  | -    | -    | -    | -    | -    | -    | -    |  |
| 50-200/2.2                       | 2,2  | 3    | -           | -    | -    | 17,7 | 17,5 | 17,2 | 16,8 | 16,4 | 15,4  | 14   | -    | -    | -    | -    | -    | -    | -    |  |
| 65-125/0.55                      | 0,55 | 0,75 | -           | -    | -    | -    | -    | 4,8  | 4,6  | 4,4  | 4,0   | 3,5  | 3,2  | 2,3  | 1,4  | -    | -    | -    | -    |  |
| 65-125/90.75                     | 0,75 | 1    | -           | -    | -    | -    | -    | 6    | 5,8  | 5,7  | 5,2   | 4,6  | 4,4  | 3,5  | 2,5  | 2,2  | -    | -    | -    |  |
| 65-125/1.1                       | 1,1  | 1,5  | -           | -    | -    | -    | -    | 7,2  | 7    | 5,8  | 6,3   | 5,8  | 5,4  | 4,5  | 3,5  | 3,2  | 2,8  | -    | -    |  |
| 65-160/1.1                       | 1,1  | 1,5  | -           | -    | -    | -    | -    | -    | 8,1  | 8,0  | 7,4   | 7,0  | 6,6  | 5,7  | 4,6  | 4,2  | 3,8  | -    | -    |  |
| 65-160/1.5                       | 1,5  | 2    | -           | -    | -    | -    | -    | -    | 9,2  | 9    | 8,5   | 8    | 7,7  | 6,7  | 5,7  | 5,3  | 4,9  | 4,5  | -    |  |
| 65-160/2.2                       | 2,2  | 3    | -           | -    | -    | -    | -    | -    | 11,3 | 11,1 | 10,6  | 10   | 9,8  | 8,8  | 7,6  | 7,2  | 6,8  | 6,4  | 5,5  |  |
| 65-200/2.2R                      | 2,2  | 3    | -           | -    | -    | -    | -    | -    | 12,4 | 12,2 | 11,6  | 11   | 10,6 | 9,3  | 7,8  | 7,3  | 6,8  | -    | -    |  |
| 65-200/2.2                       | 2,2  | 3    | -           | -    | -    | -    | -    | -    | 13,9 | 13,7 | 13,0  | 12,4 | 12   | 10,8 | 9,3  | 8,8  | 8,3  | 7,8  | -    |  |
| 65-200/3.0                       | 3    | 4    | -           | -    | -    | -    | -    | -    | 15,8 | 15,6 | 15,06 | 14,5 | 14,1 | 12,9 | 11,6 | 11,1 | 10,6 | 10,1 | 9    |  |

### Charakterystyki hydrauliczne seria 3(L)M-3(L)S-3(L)P 32

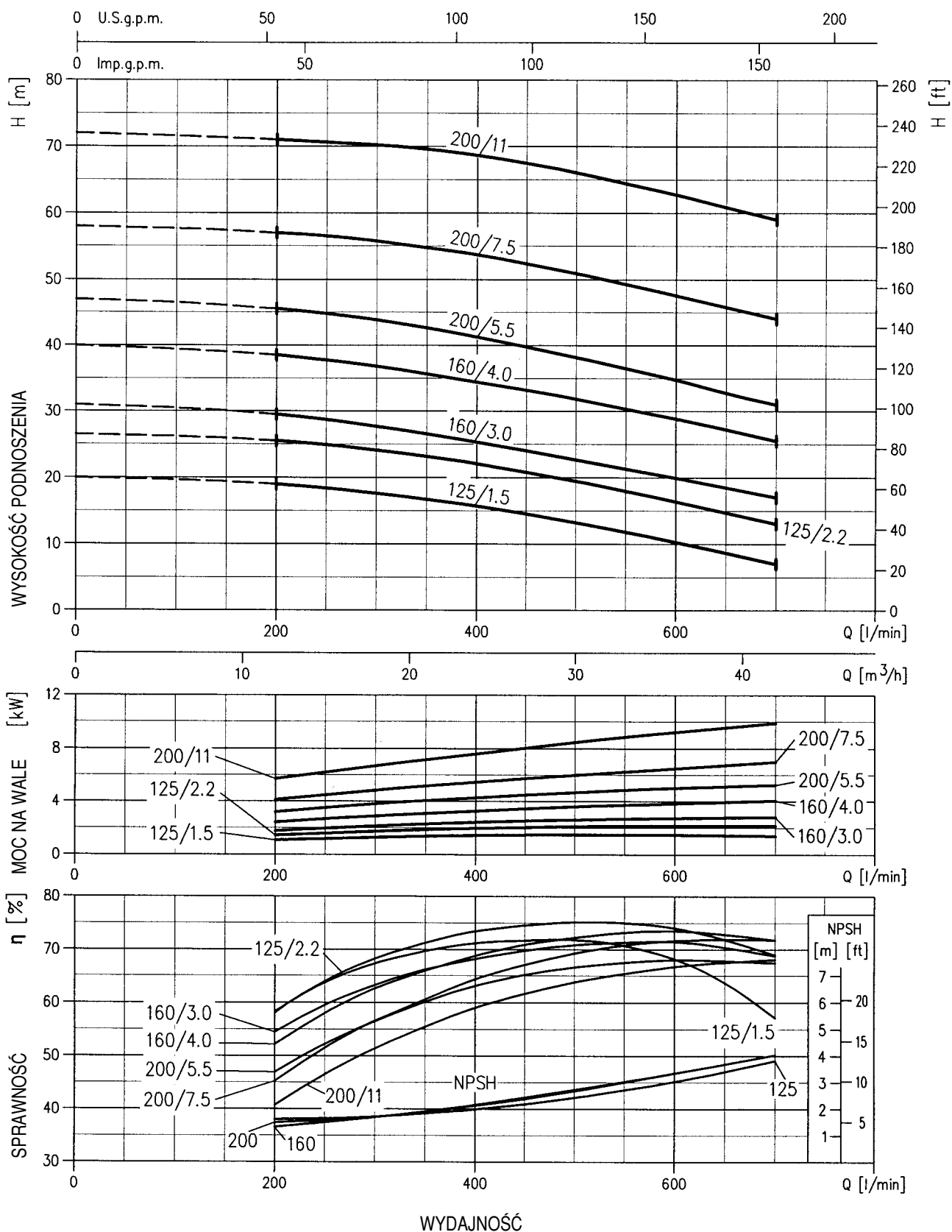
dla 2900 obr./min (w/g ISO 9906 Aneks A)



WYDAJNOŚĆ

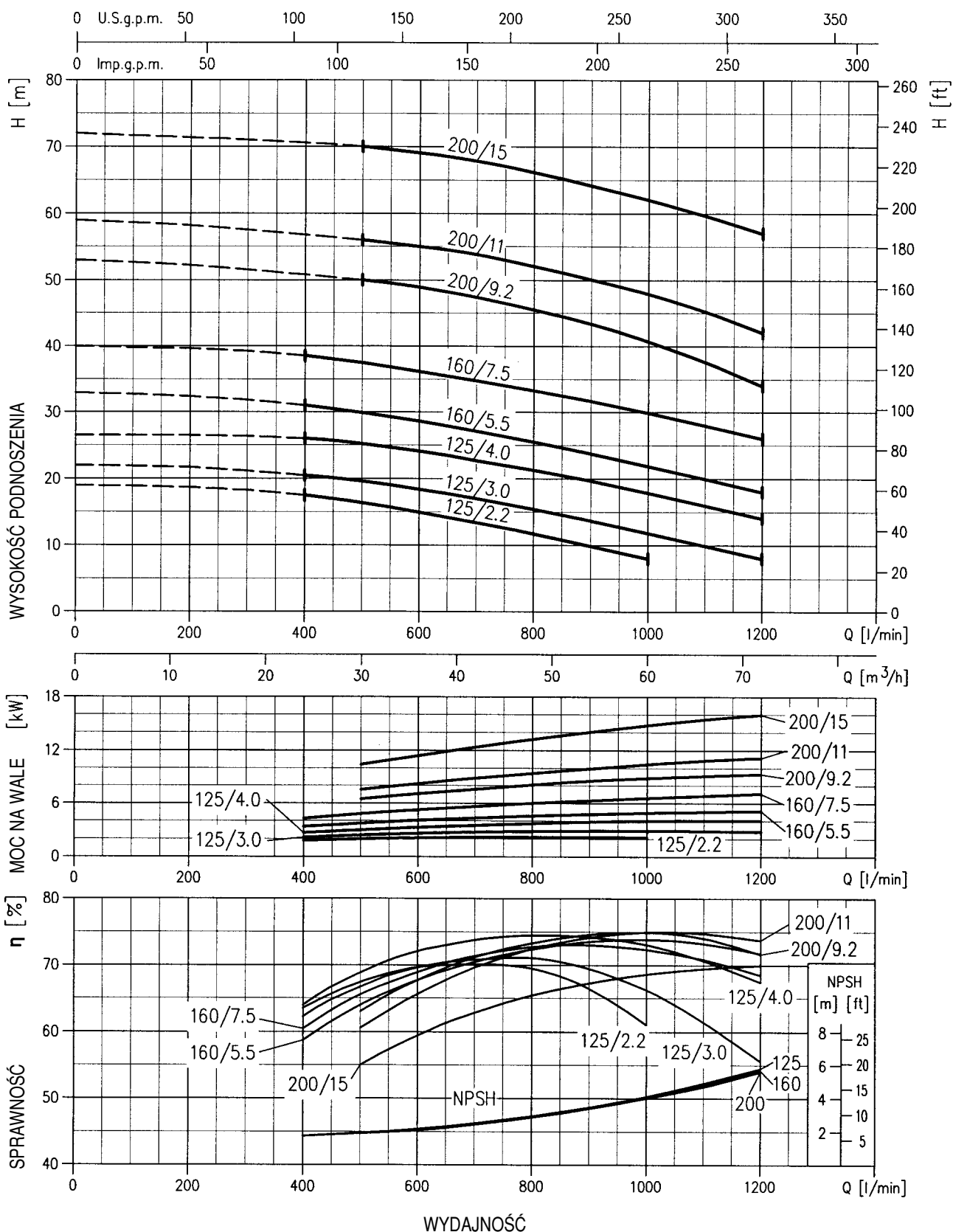
### Charakterystyki hydrauliczne seria 3(L)M-3(L)S-3(L)P 40

dla 2900 obr./min (w/g ISO 9906 Aneks A)



### Charakterystyki hydrauliczne seria 3(L)M-3(L)S-3(L)P 50

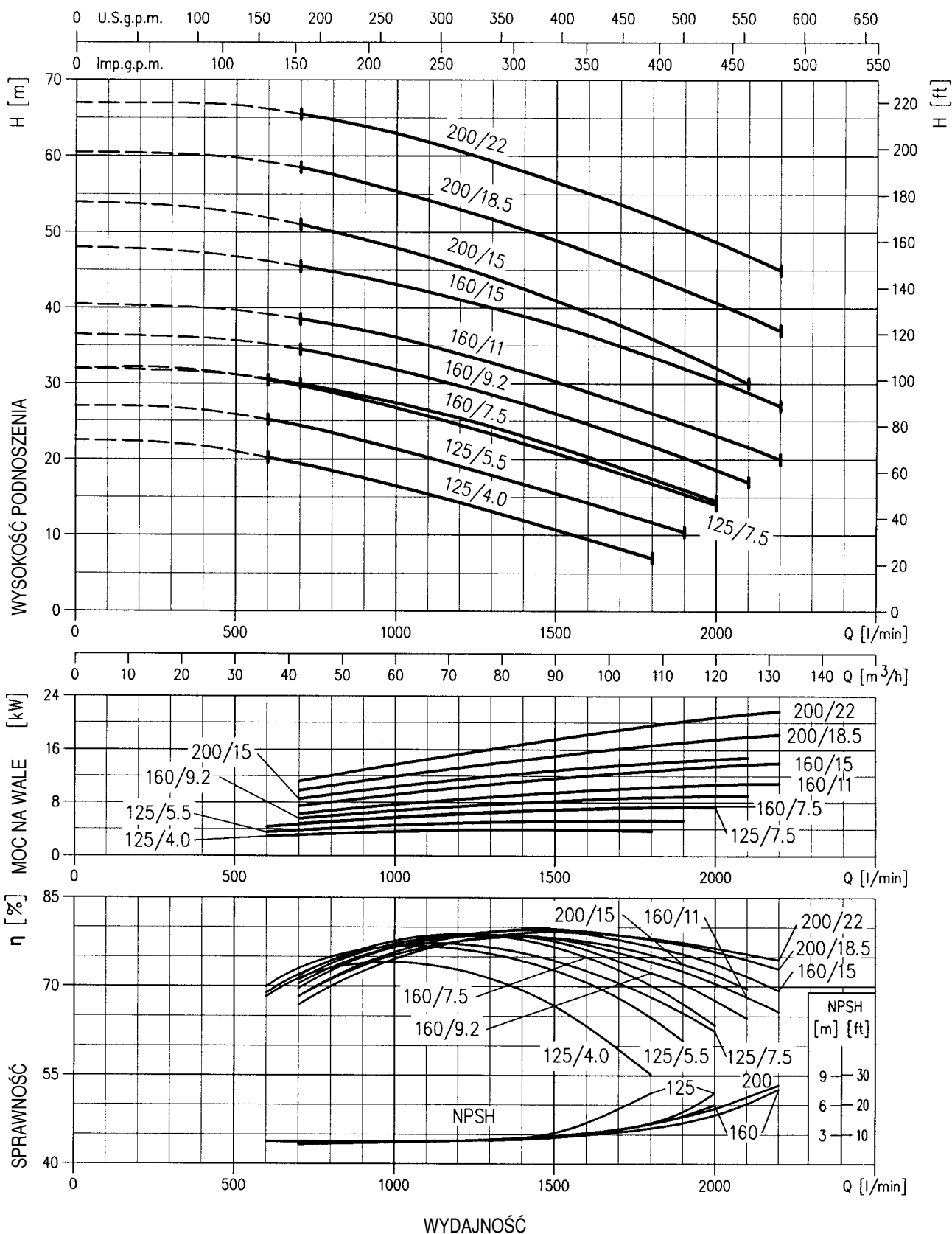
dla 2900 obr./min (w/g ISO 9906 Aneks A)





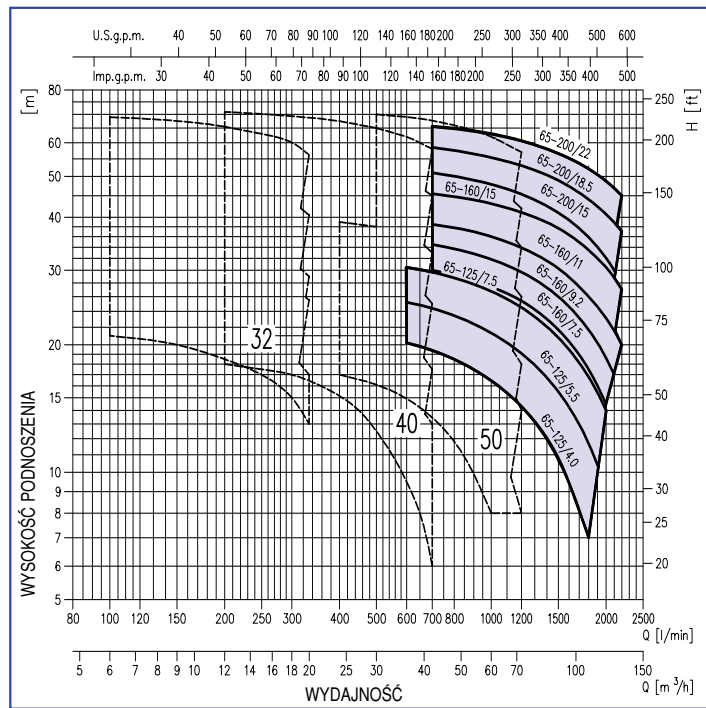
### Charakterystyki hydrauliczne seria 3(L)M-3(L)S-3(L)P 65

dla 2900 obr./min (w/g ISO 9906 Anex A)

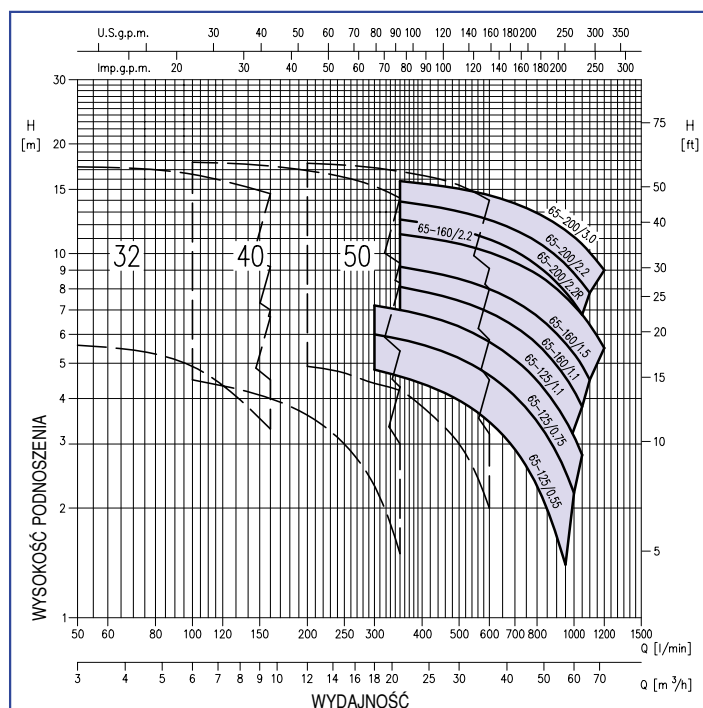


### 3M-3S-3P 65 ZAKRES STOSOWANIA

### NOWE TYPOWIELKOŚCI



2 bieguny – 50 Hz



4 bieguny – 50 Hz



3M 65



3S 65



3P 65

### ZASTOSOWANIE

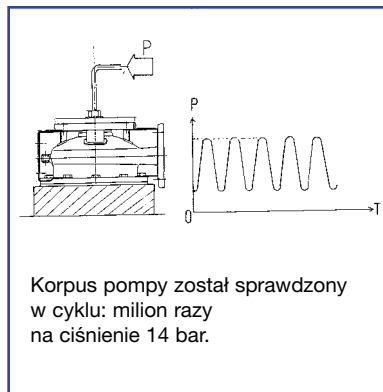
- zaopatrzenie w wodę pitną oraz do celów gospodarczych
- podnoszenie ciśnienia wody
- instalacje grzewcze, chłodnicze i klimatyzacyjne
- urządzenie myjące

- atrakcje basenowe
- nawadnianie
- opróżnianie zbiorników
- systemy p-poż.

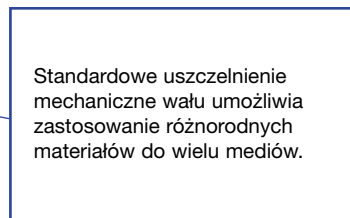
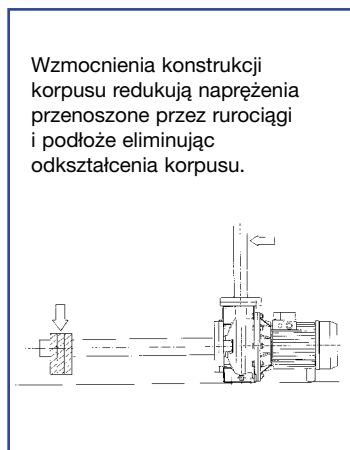
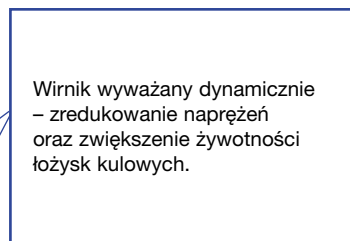
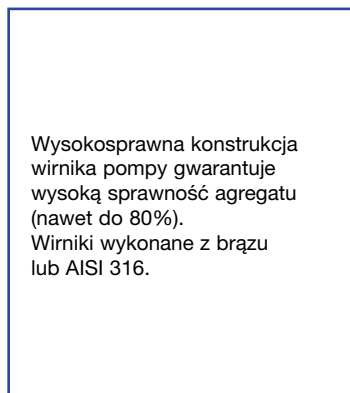
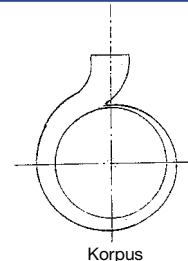
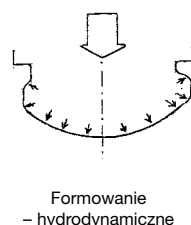


### 3M-3S-3P 65

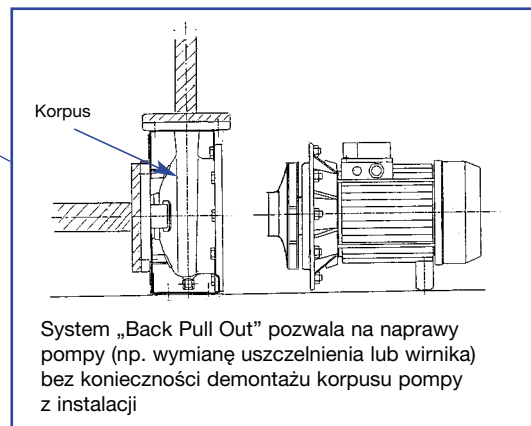
### EBARA Advanced Technology



Proces formowania hydrodynamicznego korpusu pompy jest strzeżony patentem. Nieposiadający spawów korpus gwarantuje wyższą sprawność pompy oraz pozwala na uniknięcie problemów związanych z korozją.

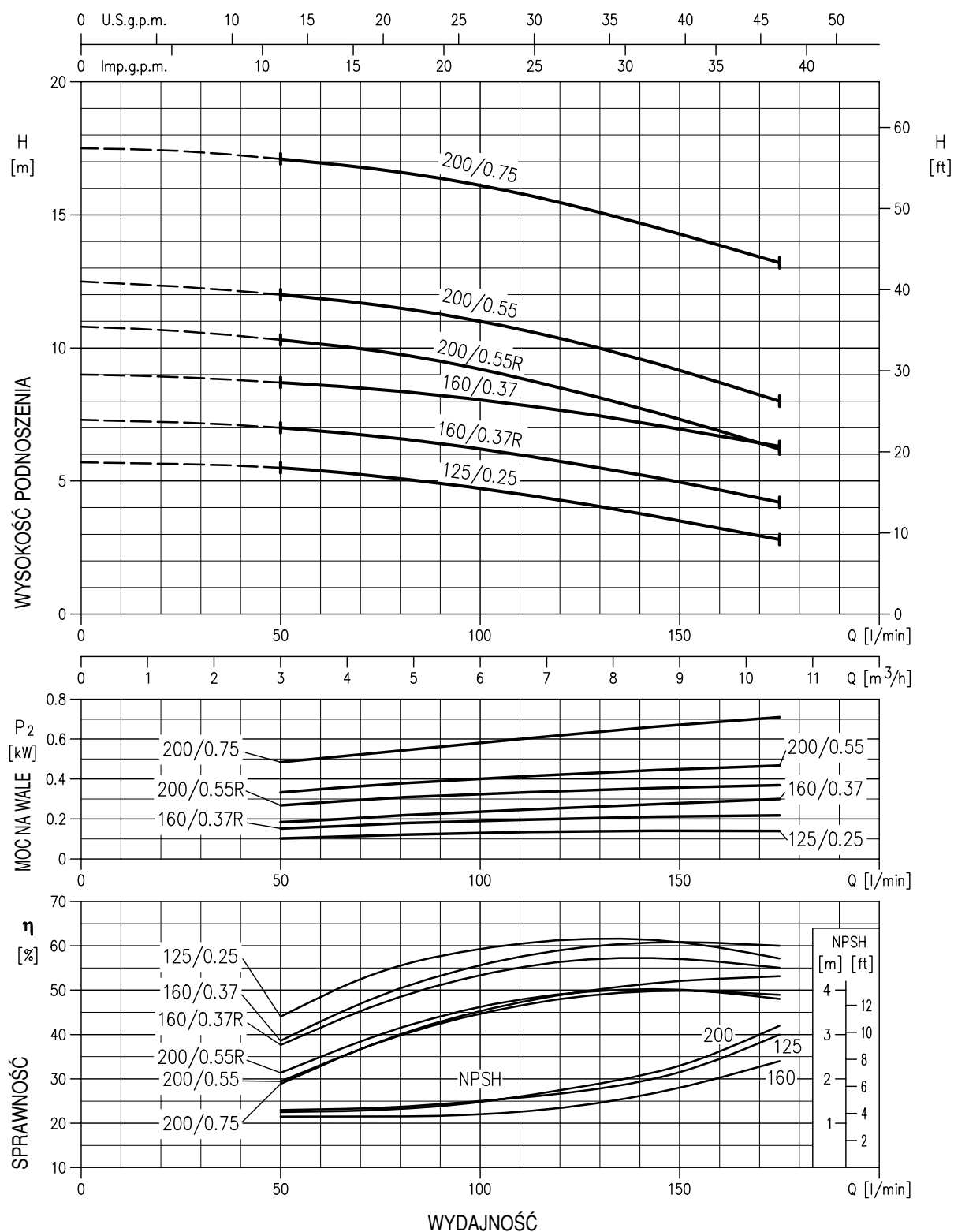


| SERIA 3 ZAKRES STOSOWANIA          |
|------------------------------------|
| Wydajność do 132 m <sup>3</sup> /h |
| Wysokość podnoszenia do 72 m       |



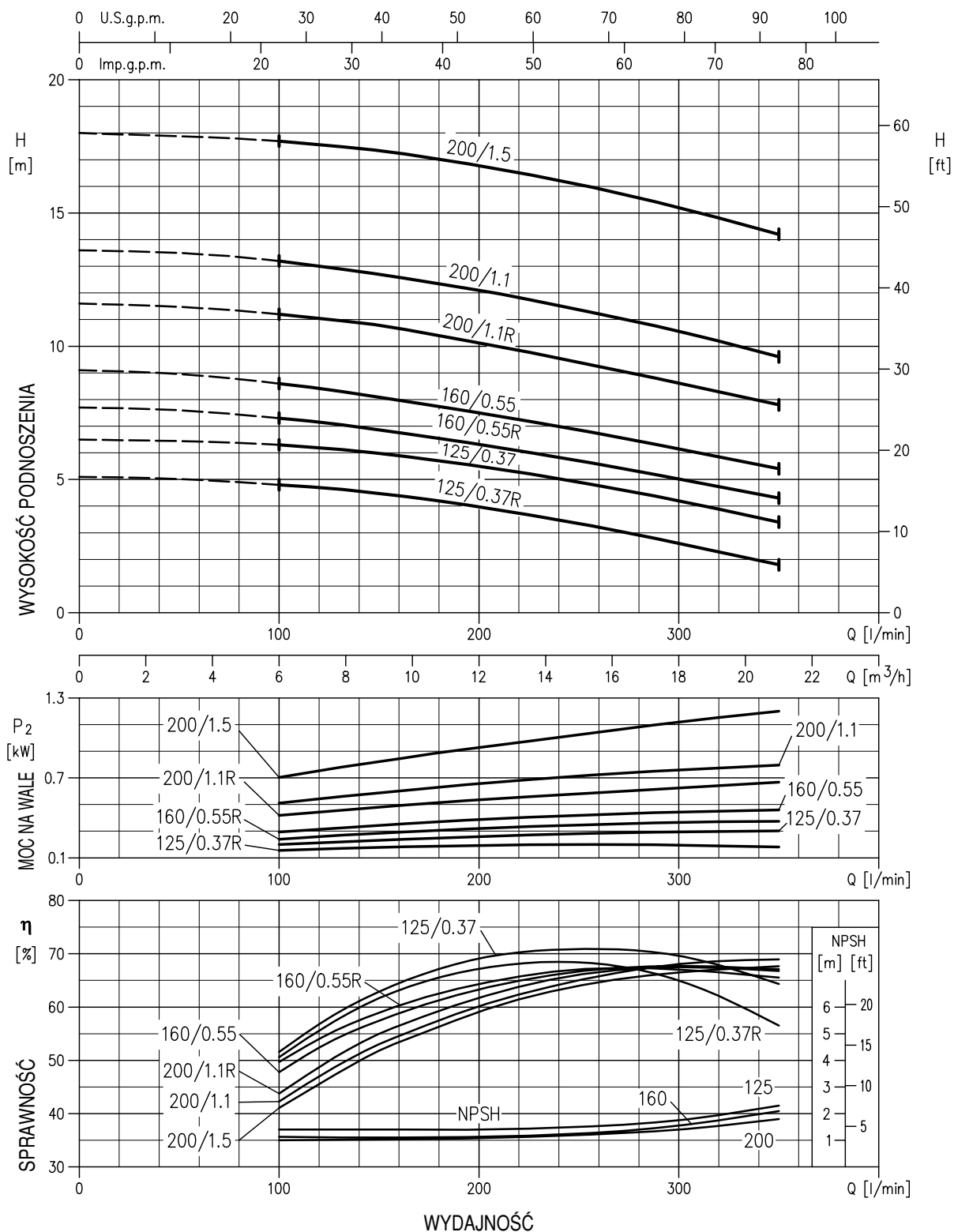
### CHARAKTERYSTYKI HYDRAULICZNE seria 3(L)M-3(L)S-3(L)P 32

1450 obr./min. (w/g ISO 9906 Aneks A)



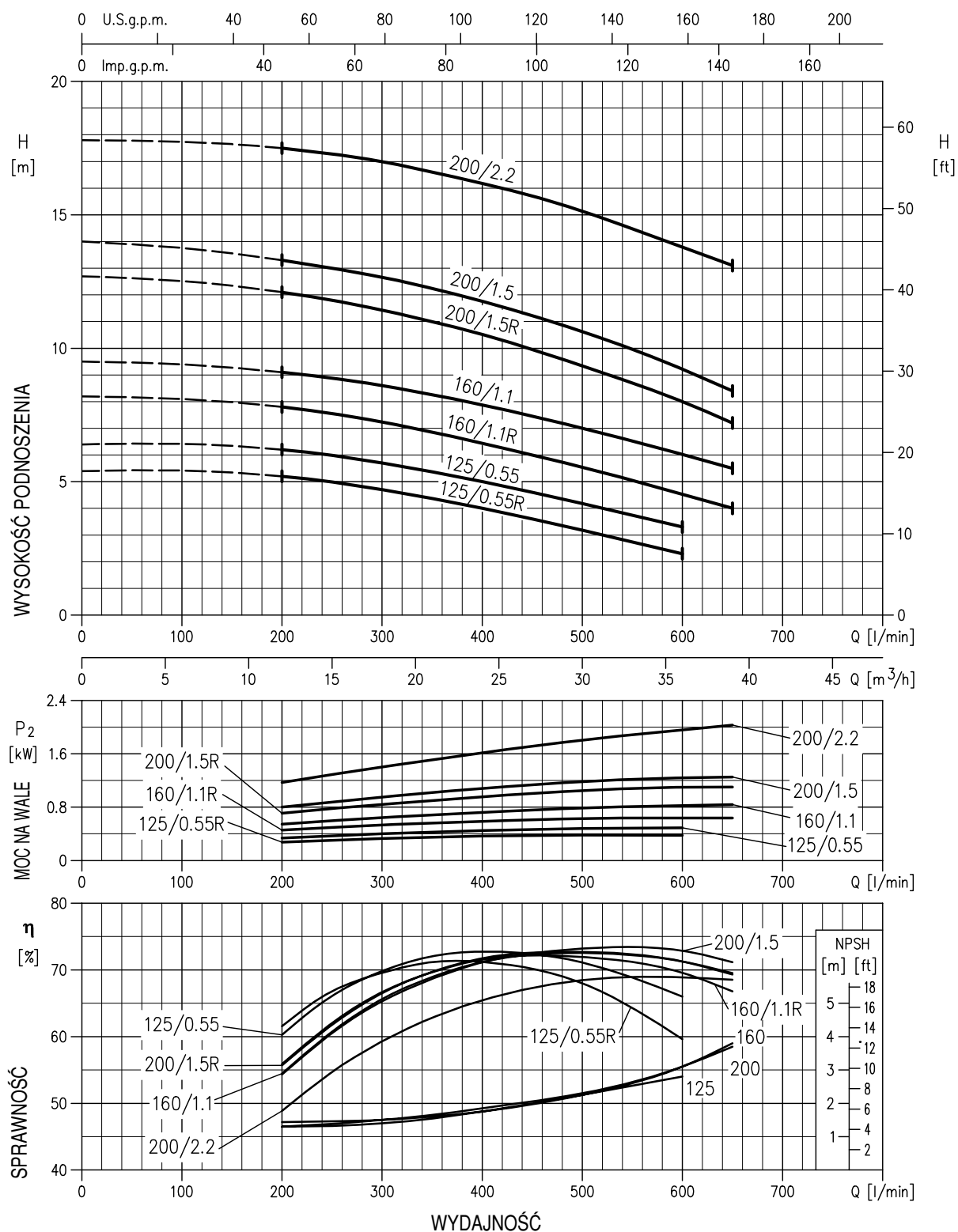
### CHARAKTERYSTYKI HYDRAULICZNE seria 3(L)M-3(L)S-3(L)P 40

1450 obr./min. (w/g ISO 9906 Aneks A)



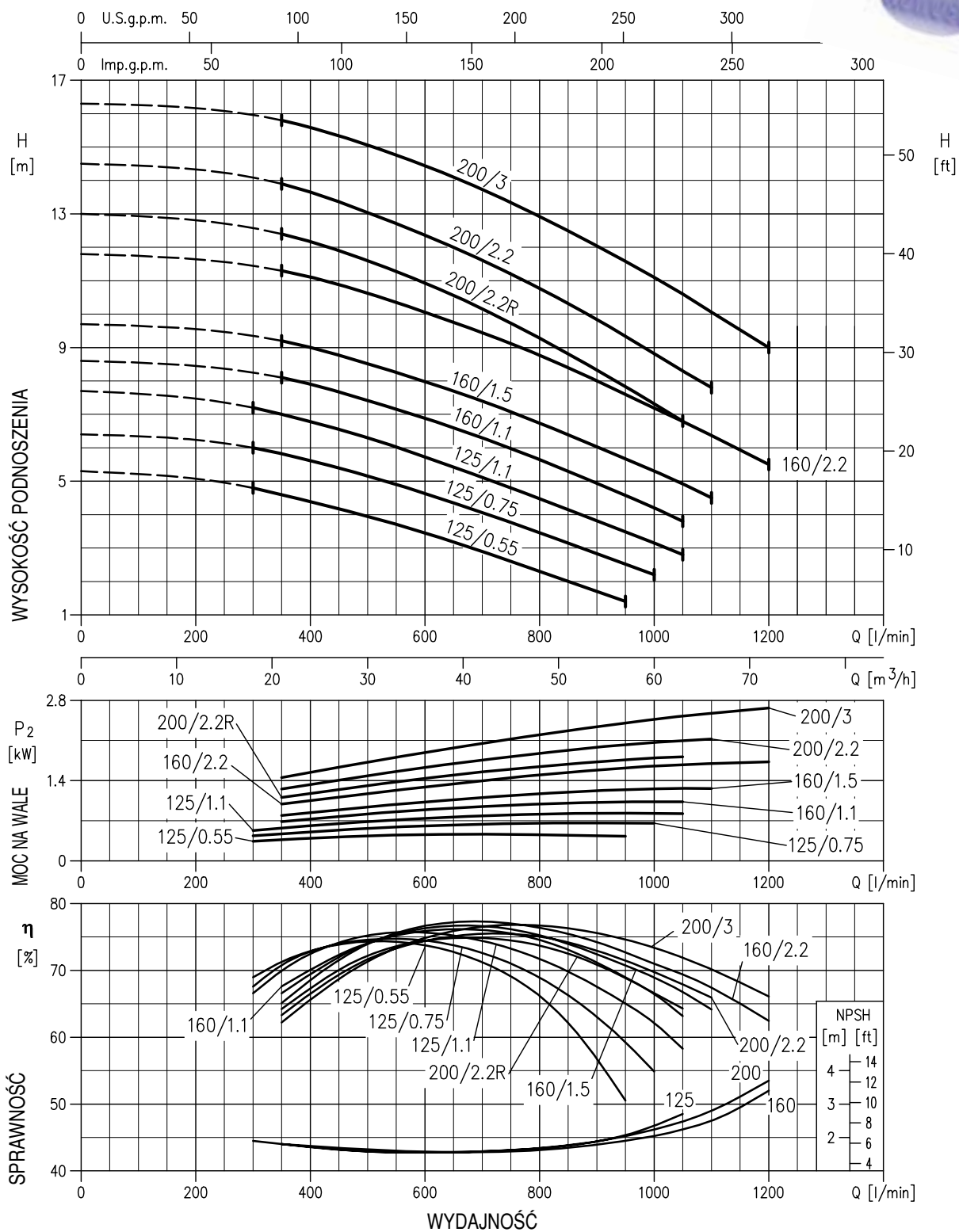
### CHARAKTERYSTYKI HYDRAULICZNE seria 3(L)M-3(L)S-3(L)P 50

1450 obr./min. (w/g ISO 9906 Aneks A)



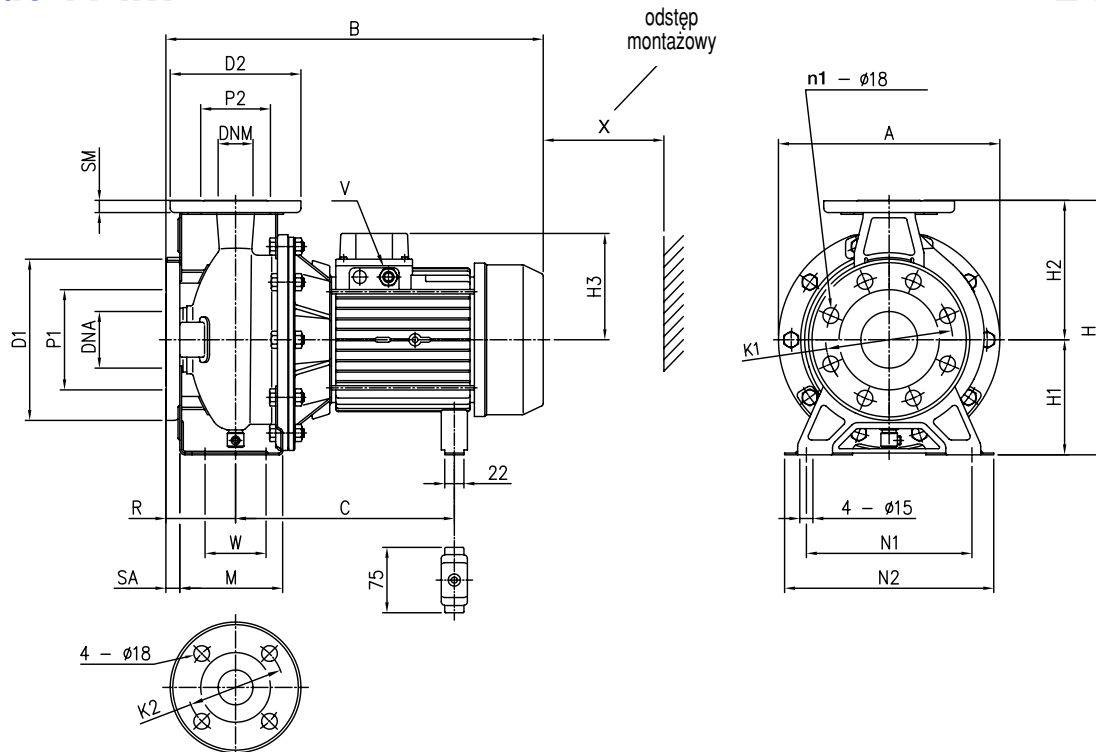
### CHARAKTERYSTYKI HYDRAULICZNE seria 3(L)M-3(L)S-3(L)P 65

1450 obr./min. (w/g ISO 9906 Aneks A)



### 3M (3LM) do 11 kW

### 2 bieguny



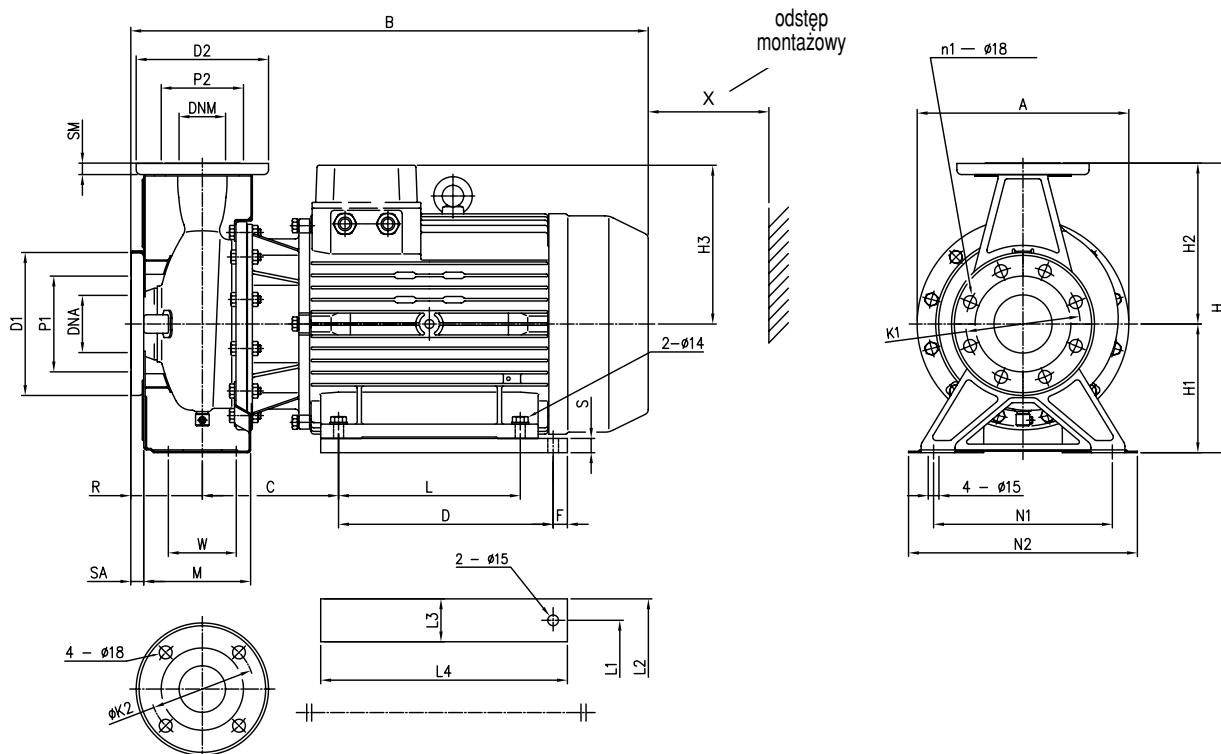
**TABELA WYMIARÓW**

| Typ pompy<br>3(L)M | Wymiary (mm) |         |    |    |         |         |    |          |         |         |         |    |     |     |     |       |     |     |    |     |       |     |     |     |     |          | Masa<br>kg |          |
|--------------------|--------------|---------|----|----|---------|---------|----|----------|---------|---------|---------|----|-----|-----|-----|-------|-----|-----|----|-----|-------|-----|-----|-----|-----|----------|------------|----------|
|                    | Ø<br>DNA     | Ø<br>P1 | n1 |    | Ø<br>K1 | Ø<br>D1 | SA | Ø<br>DNM | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | SM | H   | H1  | H2  | H3    |     | R   | W  | N1  | M     | N2  | A   | B   | C   | V<br>[3] |            | X<br>[4] |
|                    | [1]          | [2]     | K1 | D1 | SA      | DNM     | P2 | K2       | D2      | SM      | H       | H1 | H2  | [3] | [4] | R     | W   | N1  | M  | N2  | A     | B   | C   | [3] | [4] |          |            |          |
| 32-125/1,1 (M)     | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 252 | 112 | 140 | 122   | 139 | 80  | 70 | 140 | 114   | 190 | 213 | 408 | 231 | PG 13,5  | 110        | 21,5     |
| 32-160/1,5 (M)     | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 292 | 132 | 160 | 122   | 139 | 80  | 70 | 190 | 118   | 240 | 254 | 408 | 231 | PG 13,5  | 110        | 24,2     |
| 32-160/2,2 (M)     | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 292 | 132 | 160 | 122   | 139 | 80  | 70 | 190 | 118   | 240 | 254 | 408 | 231 | PG 13,5  | 110        | 27,3     |
| 32-200/3,0         | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 340 | 160 | 180 | 122   | -   | 80  | 70 | 190 | 119   | 240 | 296 | 433 | 256 | PG 13,5  | 110        | 34,9     |
| 32-200/4,0         | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 340 | 160 | 180 | 134   | -   | 80  | 70 | 190 | 119   | 240 | 296 | 458 | 256 | PG 16    | 110        | 42,3     |
| 32-200/5,5         | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 340 | 160 | 180 | 153   | -   | 80  | 70 | 190 | 119   | 240 | 296 | 477 | 276 | PG 16    | 110        | 53,2     |
| 32-200/7,5         | 50           | 96      | 4  | –  | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 340 | 160 | 180 | 153   | -   | 80  | 70 | 190 | 119   | 240 | 296 | 520 | 276 | PG 16    | 110        | 65       |
| 40-125/1,5 (M)     | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 252 | 112 | 140 | 122   | 139 | 80  | 70 | 160 | 114   | 210 | 213 | 408 | 231 | PG 13,5  | 115        | 22,3     |
| 40-125/2,2 (M)     | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 252 | 112 | 140 | 122   | 139 | 80  | 70 | 160 | 114   | 210 | 213 | 408 | 231 | PG 13,5  | 115        | 24,7     |
| 40-160/3,0         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 292 | 132 | 160 | 122   | -   | 80  | 70 | 190 | 118   | 240 | 254 | 433 | 255 | PG 13,5  | 115        | 30       |
| 40-160/4,0         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 292 | 132 | 160 | 134   | -   | 80  | 70 | 190 | 118   | 240 | 254 | 458 | 255 | PG 16    | 115        | 37,6     |
| 40-200/5,5         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 340 | 160 | 180 | 153   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 497 | 278 | PG 16    | 115        | 54,5     |
| 40-200/7,5         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 340 | 160 | 180 | 153   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 520 | 224 | PG 16    | 115        | 61,6     |
| 40-200/11          | 65           | 116     | 4  | –  | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 340 | 160 | 180 | 181   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 577 | 224 | PG 21    | 115        | 73,8     |
| 50-125/2,2 (M)     | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 292 | 132 | 160 | 122   | 139 | 100 | 70 | 190 | 138   | 240 | 254 | 428 | 231 | PG 13,5  | 125        | 30       |
| 50-125/3,0         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 292 | 132 | 160 | 122   | -   | 100 | 70 | 190 | 138   | 240 | 254 | 453 | 255 | PG 13,5  | 125        | 31,5     |
| 50-125/4,0         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 292 | 132 | 160 | 134   | -   | 100 | 70 | 190 | 138   | 240 | 254 | 478 | 255 | PG 16    | 125        | 37,6     |
| 50-160/5,5         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 340 | 160 | 180 | 153   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 497 | 278 | PG 16    | 125        | 54       |
| 50-160/7,5         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 340 | 160 | 180 | 153   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 520 | 224 | PG 16    | 125        | 61,1     |
| 50-200/9,2         | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 360 | 160 | 200 | 181   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 582 | 239 | PG 21    | 125        | 67,5     |
| 50-200/11          | 65           | 116     | 4  | –  | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 360 | 160 | 200 | 181   | -   | 100 | 70 | 212 | 139   | 265 | 296 | 582 | 239 | PG 21    | 125        | 73,5     |
| 65-125/4           | 80           | 134     | 8  | 4  | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 139   | -   | 100 | 95 | 212 | 149,5 | 280 | 254 | 483 | 253 | PG 16    | 145        | 40       |
| 65-125/5,5         | 80           | 134     | 8  | 4  | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 150   | -   | 100 | 95 | 212 | 149,5 | 280 | 254 | 496 | 275 | PG 16    | 145        | 52       |
| 65-125/7,5         | 80           | 134     | 8  | 4  | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 150   | -   | 100 | 95 | 212 | 149,5 | 280 | 254 | 540 | 275 | PG 16    | 145        | 58,5     |
| 65-160/7,5         | 80           | 134     | 8  | 4  | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 150   | -   | 100 | 95 | 212 | 149,5 | 280 | 296 | 540 | 275 | PG 16    | 145        | 62       |
| 65-160/9,2         | 80           | 134     | 8  | 4  | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 177,5 | -   | 100 | 95 | 212 | 149,5 | 280 | 296 | 593 | 356 | PG 21    | 145        | 67       |
| 65-160/11          | 80           | 134     | 8  | 4  | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 177,5 | -   | 100 | 95 | 212 | 149,5 | 280 | 296 | 593 | 356 | PG 21    | 145        | 75,6     |

[1] Standard  
[2] na życzenie  
[3] 3~  
[4] 1~

**3M (3LM) 15 ÷ 22 kW**

**2 bieguny**



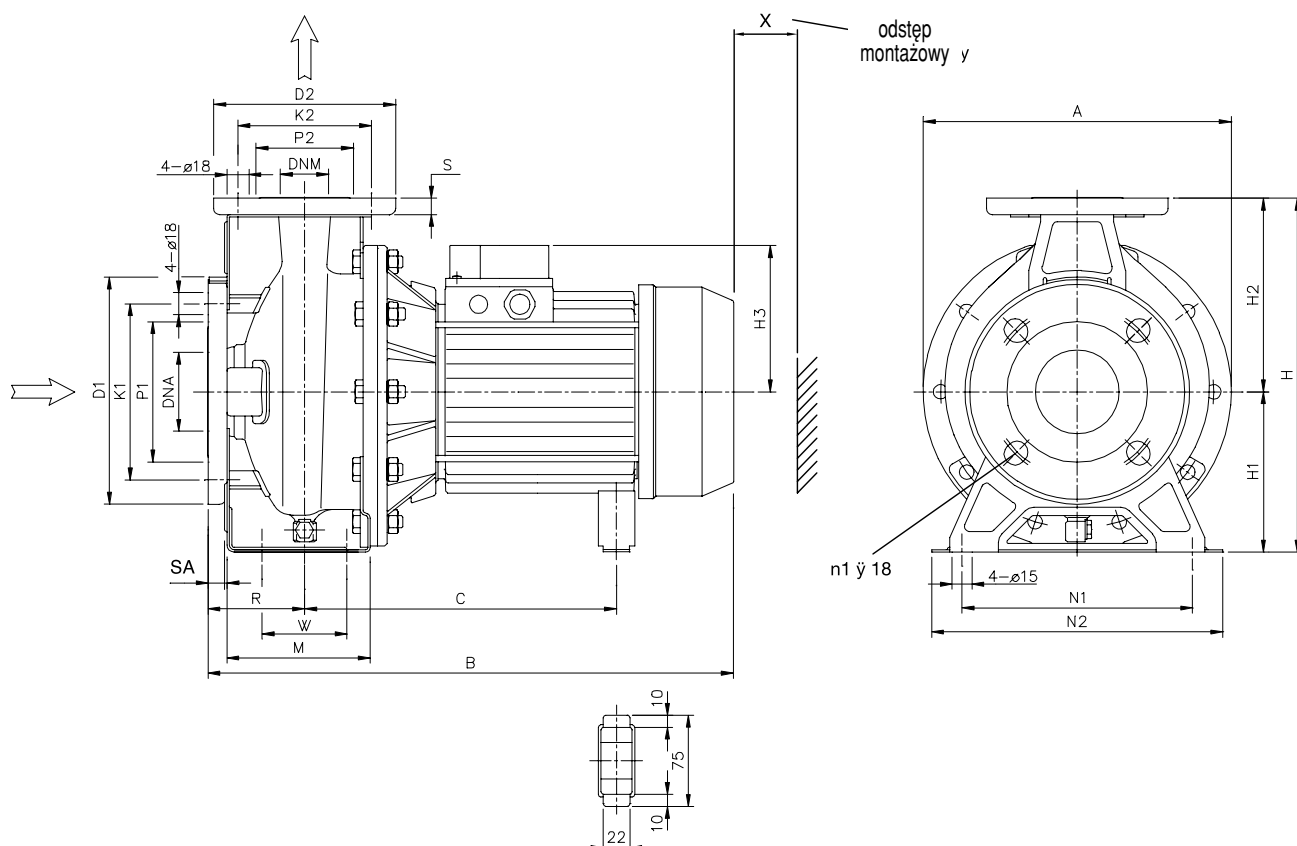
**TABELA WYMIARÓW**

| TYP POMPY   | Wymiary (mm) |      |     |     |      |      |    |       |      |      |      |    |     |     |     |     |     |    |     |       |     |     |       |     |     |     |    |     |       |     | Masa |       |    |     |     |    |
|-------------|--------------|------|-----|-----|------|------|----|-------|------|------|------|----|-----|-----|-----|-----|-----|----|-----|-------|-----|-----|-------|-----|-----|-----|----|-----|-------|-----|------|-------|----|-----|-----|----|
|             | Ø DNA        | Ø P1 | N1  |     | Ø K1 | Ø D1 | SA | Ø DNM | Ø P2 | Ø K2 | Ø D2 | SM | H   | H1  | H2  | H3  | R   | W  | N1  | M     | N2  | A   | B     | L   | L1  | L2  | L3 | L4  | C     | D   |      | F     | V  | S   | X   | kg |
| 3(L)M       |              |      | [1] | [2] |      |      |    |       |      |      |      |    |     |     |     |     |     |    |     |       |     |     |       |     |     |     |    |     |       |     |      |       |    |     |     |    |
| 50-200/15   | 65           | 116  | 4   | -   | 145  | 185  | 16 | 50    | 96   | 125  | 165  | 16 | 360 | 160 | 200 | 222 | 100 | 70 | 212 | 115   | 265 | 296 | 723,5 | 254 | 254 | 318 | 65 | 304 | 190,5 | -   | -    | PG 21 | -  | 125 | 100 |    |
| 65-160/15   | 80           | 134  | 8   | 4   | 160  | 200  | 18 | 65    | 115  | 145  | 185  | 16 | 360 | 160 | 200 | 222 | 100 | 95 | 212 | 149,5 | 280 | 296 | 733   | 254 | 254 | 318 | 65 | 304 | 199,5 | -   | -    | PG 21 | -  | 145 | 93  |    |
| 65-200/15   | 80           | 134  | 8   | 4   | 160  | 200  | 18 | 65    | 115  | 145  | 185  | 16 | 405 | 180 | 225 | 222 | 100 | 95 | 250 | 149,5 | 320 | 296 | 733   | -   | 258 | 318 | 60 | 345 | 199,5 | 300 | 20   | PG 21 | 20 | 145 | 114 |    |
| 65-200/18,5 | 80           | 134  | 8   | 4   | 160  | 200  | 18 | 65    | 115  | 145  | 185  | 16 | 405 | 180 | 225 | 222 | 100 | 95 | 250 | 149,5 | 320 | 296 | 733   | -   | 258 | 318 | 60 | 345 | 199,5 | 300 | 20   | PG 21 | 20 | 145 | 127 |    |
| 65-200/22   | 80           | 134  | 8   | 4   | 160  | 200  | 18 | 65    | 115  | 145  | 185  | 16 | 405 | 180 | 225 | 222 | 100 | 95 | 250 | 149,5 | 320 | 286 | 733   | -   | 258 | 318 | 60 | 345 | 199,5 | 300 | 20   | PG 21 | 20 | 145 | 136 |    |



### 3M4 (3LM4)

### 4 bieguny



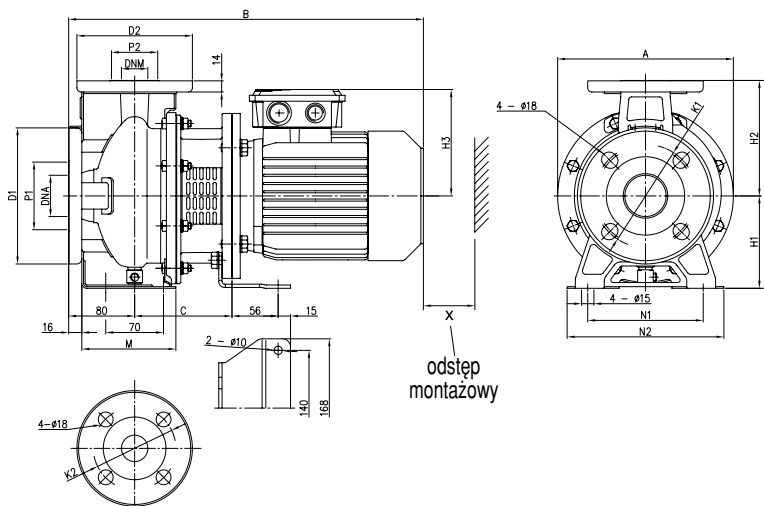
### TABELA WYMIARÓW

| Typ pompy<br>3(L)M4 | Wymiary (mm) |      |     |     |     |     |     |     |     |     |     |     |     |     |     |       |       |     |     |     |    |     |    | Masa |     |      |
|---------------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-----|-----|-----|----|-----|----|------|-----|------|
|                     | ØDNA         | ØDNM | n1  |     | ØK1 | ØP1 | ØD2 | ØK2 | ØP2 | A   | B   | C   | H   | H1  | H2  | H3    | M     | N1  | N2  | R   | S  | ØD1 | SA | W    | X   | kg   |
|                     |              |      | [1] | [2] |     |     |     |     |     |     |     |     |     |     |     |       |       |     |     |     |    |     |    |      |     |      |
| 32-125/0.25         | 50           | 32   | 4   | -   | 125 | 96  | 140 | 100 | 76  | 213 | 375 | 205 | 252 | 112 | 140 | 104   | 114   | 140 | 190 | 80  | 14 | 165 | 16 | 70   | 110 | 15.0 |
| 32-160/0.37R        | 50           | 32   | 4   | -   | 125 | 96  | 140 | 100 | 76  | 254 | 395 | 222 | 292 | 132 | 160 | 117   | 118   | 190 | 240 | 80  | 14 | 165 | 16 | 70   | 110 | 20.0 |
| 32-160/0.37         | 50           | 32   | 4   | -   | 125 | 96  | 140 | 100 | 76  | 254 | 395 | 222 | 292 | 132 | 160 | 117   | 118   | 190 | 240 | 80  | 14 | 165 | 16 | 70   | 110 | 20.0 |
| 32-200/0.55R        | 50           | 32   | 4   | -   | 125 | 96  | 140 | 100 | 76  | 294 | 395 | 223 | 340 | 160 | 180 | 117   | 119   | 190 | 240 | 80  | 14 | 165 | 16 | 70   | 110 | 25.0 |
| 32-200/0.55         | 50           | 32   | 4   | -   | 125 | 96  | 140 | 100 | 76  | 294 | 395 | 223 | 340 | 160 | 180 | 117   | 119   | 190 | 240 | 80  | 14 | 165 | 16 | 70   | 110 | 25.0 |
| 32-200/0.75         | 50           | 32   | 4   | -   | 125 | 96  | 140 | 100 | 76  | 294 | 408 | 232 | 340 | 160 | 180 | 122   | 119   | 190 | 240 | 80  | 14 | 165 | 16 | 70   | 110 | 29.3 |
| 40-125/0.37R        | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 213 | 375 | 205 | 252 | 112 | 140 | 104   | 114   | 160 | 210 | 80  | 14 | 185 | 16 | 70   | 115 | 15.0 |
| 40-125/0.37         | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 213 | 375 | 205 | 252 | 112 | 140 | 104   | 114   | 160 | 210 | 80  | 14 | 185 | 16 | 70   | 115 | 15.0 |
| 40-160/0.55R        | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 254 | 395 | 222 | 292 | 132 | 160 | 117   | 118   | 190 | 240 | 80  | 14 | 185 | 16 | 70   | 115 | 20.0 |
| 40-160/0.55         | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 254 | 395 | 222 | 292 | 132 | 160 | 117   | 118   | 190 | 240 | 80  | 14 | 185 | 16 | 70   | 115 | 20.0 |
| 40-200/1.1R         | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 294 | 428 | 232 | 340 | 160 | 180 | 122   | 115   | 212 | 265 | 100 | 14 | 185 | 16 | 70   | 115 | 30.0 |
| 40-200/1.1          | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 294 | 428 | 232 | 340 | 160 | 180 | 122   | 115   | 212 | 265 | 100 | 14 | 185 | 16 | 70   | 115 | 30.0 |
| 40-200/1.5          | 65           | 40   | 4   | -   | 145 | 116 | 150 | 110 | 81  | 294 | 428 | 232 | 340 | 160 | 180 | 122   | 115   | 212 | 265 | 100 | 14 | 185 | 16 | 70   | 115 | 32.2 |
| 50-125/0.55R        | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 254 | 415 | 222 | 292 | 132 | 160 | 117   | 114   | 190 | 240 | 100 | 16 | 185 | 16 | 70   | 125 | 20.0 |
| 50-125/0.55         | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 254 | 415 | 222 | 292 | 132 | 160 | 117   | 114   | 190 | 240 | 100 | 16 | 185 | 16 | 70   | 125 | 20.0 |
| 50-160/1.1R         | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 296 | 428 | 232 | 340 | 160 | 180 | 122   | 115   | 212 | 265 | 100 | 16 | 185 | 16 | 70   | 125 | 30.0 |
| 50-160/1.1          | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 296 | 428 | 232 | 340 | 160 | 180 | 122   | 115   | 212 | 265 | 100 | 16 | 185 | 16 | 70   | 125 | 30.0 |
| 50-200/1.5R         | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 296 | 428 | 232 | 360 | 160 | 200 | 122   | 115   | 212 | 265 | 100 | 16 | 185 | 16 | 70   | 125 | 30.0 |
| 50-200/1.5          | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 296 | 428 | 232 | 360 | 160 | 200 | 122   | 115   | 212 | 265 | 100 | 16 | 185 | 16 | 70   | 125 | 30.0 |
| 50-200/2.2          | 65           | 50   | 4   | -   | 145 | 116 | 165 | 125 | 96  | 296 | 478 | 256 | 360 | 160 | 200 | 134   | 115   | 212 | 265 | 100 | 16 | 185 | 16 | 70   | 125 | 31.8 |
| 65-125/0.55         | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 254 | 415 | 219 | 340 | 160 | 180 | 117   | 149.5 | 212 | 280 | 100 | 16 | 200 | 18 | 95   | 145 | 22.9 |
| 65-125/0.75         | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 254 | 427 | 230 | 340 | 160 | 180 | 123.5 | 149.5 | 212 | 280 | 100 | 16 | 200 | 18 | 95   | 145 | 27.8 |
| 65-125/1.1          | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 254 | 427 | 230 | 340 | 160 | 180 | 123.5 | 149.5 | 212 | 280 | 100 | 16 | 200 | 18 | 95   | 145 | 28.1 |
| 65-160/1.1          | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 296 | 427 | 230 | 360 | 160 | 200 | 123.5 | 149.5 | 212 | 280 | 100 | 16 | 200 | 18 | 95   | 145 | 30.8 |
| 65-160/1.5          | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 296 | 483 | 253 | 360 | 160 | 200 | 123.5 | 149.5 | 212 | 280 | 100 | 16 | 200 | 18 | 95   | 145 | 32.6 |
| 65-160/2.2          | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 296 | 483 | 253 | 360 | 160 | 200 | 139   | 149.5 | 212 | 280 | 100 | 16 | 200 | 18 | 95   | 145 | 37.8 |
| 65-200/2.2R         | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 296 | 483 | 253 | 405 | 180 | 225 | 139   | 149.5 | 250 | 320 | 100 | 16 | 200 | 18 | 95   | 145 | 38.5 |
| 65-200/2.2          | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 296 | 483 | 253 | 405 | 180 | 225 | 139   | 149.5 | 250 | 320 | 100 | 16 | 200 | 18 | 95   | 145 | 38.7 |
| 65-200/3.0          | 80           | 65   | 8   | 4   | 160 | 134 | 185 | 145 | 115 | 296 | 483 | 253 | 405 | 180 | 225 | 139   | 149.5 | 250 | 320 | 100 | 16 | 200 | 18 | 95   | 145 | 43.3 |

[1] Standard  
[2] na życzenie

### 3S (3LS) do 2,2 kW

### 2 bieguny



#### TABELA WYMIARÓW

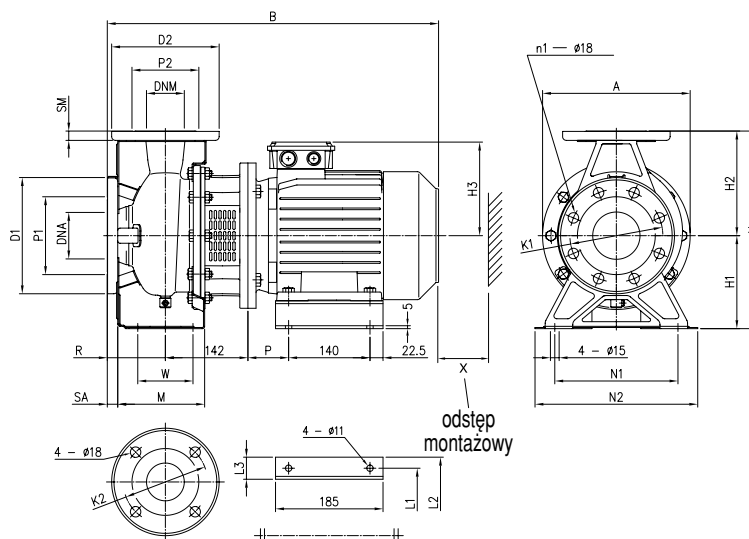
| Typ pompy<br>3(L)S | Wymiary (mm) |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |     |     |     |       |         | Masa<br>kg |
|--------------------|--------------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|------------|
|                    | $\phi$       | $\phi$ | $\phi$ | $\phi$ | $\phi$ | $\phi$ | $\phi$ | $\phi$ |     |     |     | H3  |     |     |     |     |     |     |     |       |         |            |
|                    | DNA          | P1     | K1     | D1     | DNM    | P2     | K2     | D2     | H   | H1  | H2  | [1] | [2] | N1  | M   | N2  | A   | B   | C   | V1    | V2      |            |
| 32-125/1,1 (M)     | 50           | 96     | 125    | 165    | 32     | 76     | 100    | 140    | 252 | 112 | 140 | 129 | 150 | 140 | 114 | 190 | 213 | 430 | 118 | PG 16 | PG 13,5 | 23,1       |
| 32-160/1,5 (M)     | 50           | 96     | 125    | 165    | 32     | 76     | 100    | 140    | 292 | 132 | 160 | 138 | 160 | 190 | 118 | 240 | 254 | 477 | 130 | PG 16 | PG 13,5 | 28,5       |
| 32-160/2,2 (M)     | 50           | 96     | 125    | 165    | 32     | 76     | 100    | 140    | 292 | 132 | 160 | 138 | 160 | 190 | 118 | 240 | 254 | 477 | 130 | PG 16 | PG 13,5 | 32,4       |
| 40-125/1,5 (M)     | 65           | 116    | 145    | 185    | 40     | 81     | 110    | 150    | 252 | 112 | 140 | 138 | 160 | 160 | 114 | 210 | 213 | 477 | 130 | PG 16 | PG 13,5 | 26,5       |
| 40-125/2,2 (M)     | 65           | 116    | 145    | 185    | 40     | 81     | 110    | 150    | 252 | 112 | 140 | 138 | 160 | 160 | 114 | 210 | 213 | 477 | 130 | PG 16 | PG 13,5 | 29,6       |
| 50-125/2,2 (M)     | 65           | 116    | 145    | 185    | 50     | 95     | 125    | 165    | 292 | 132 | 160 | 138 | 160 | 190 | 138 | 240 | 254 | 497 | 130 | PG 16 | PG 13,5 | 32,9       |

[1] 3~

[2] 1~

### 3S (3LS) 3 ÷ 4 kW

### 2 bieguny



#### TABELA WYMIARÓW

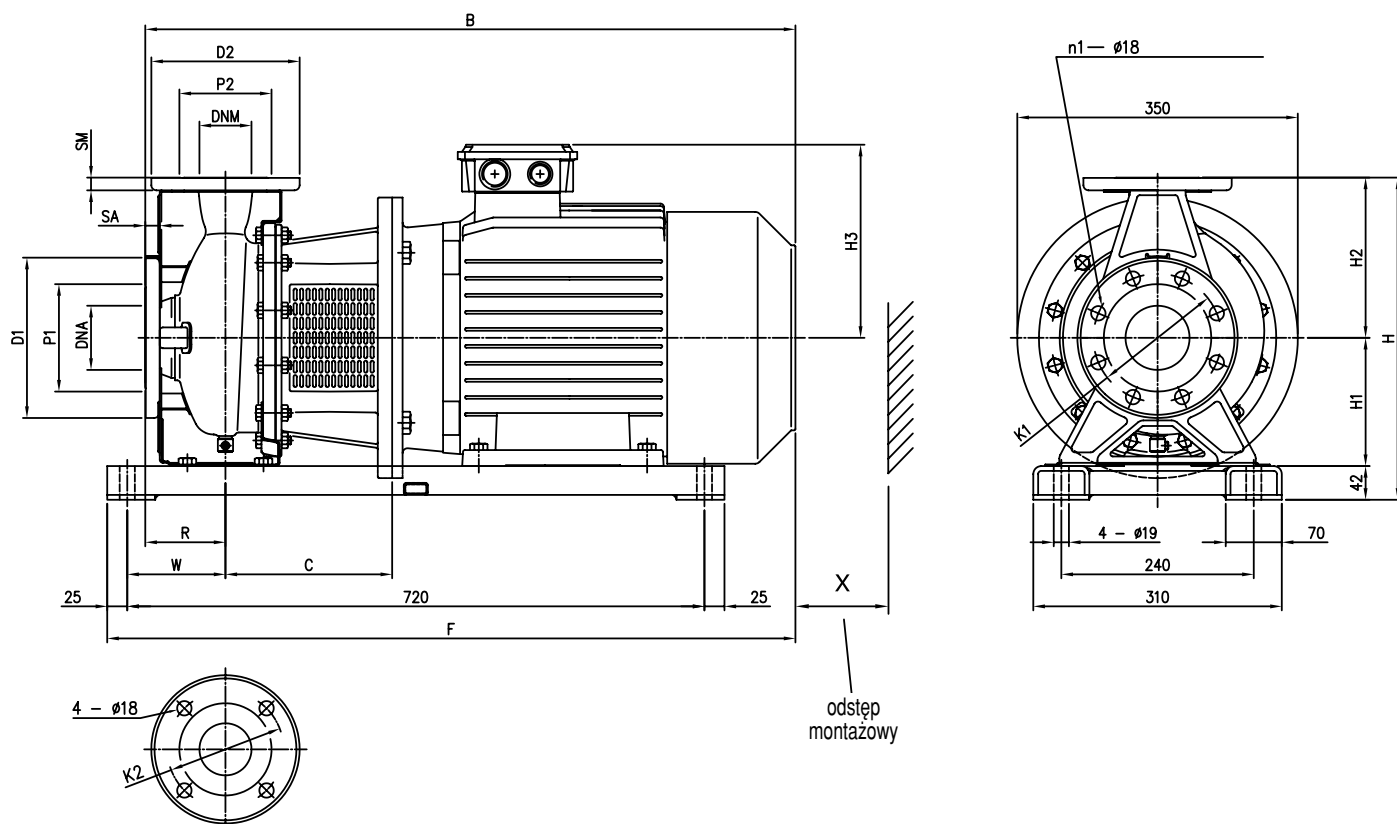
| Typ pompy<br>3(L)S | Wymiary (mm) |   |    |  |   |   |  |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Masa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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### 3S (3LS)

### 2 bieguny



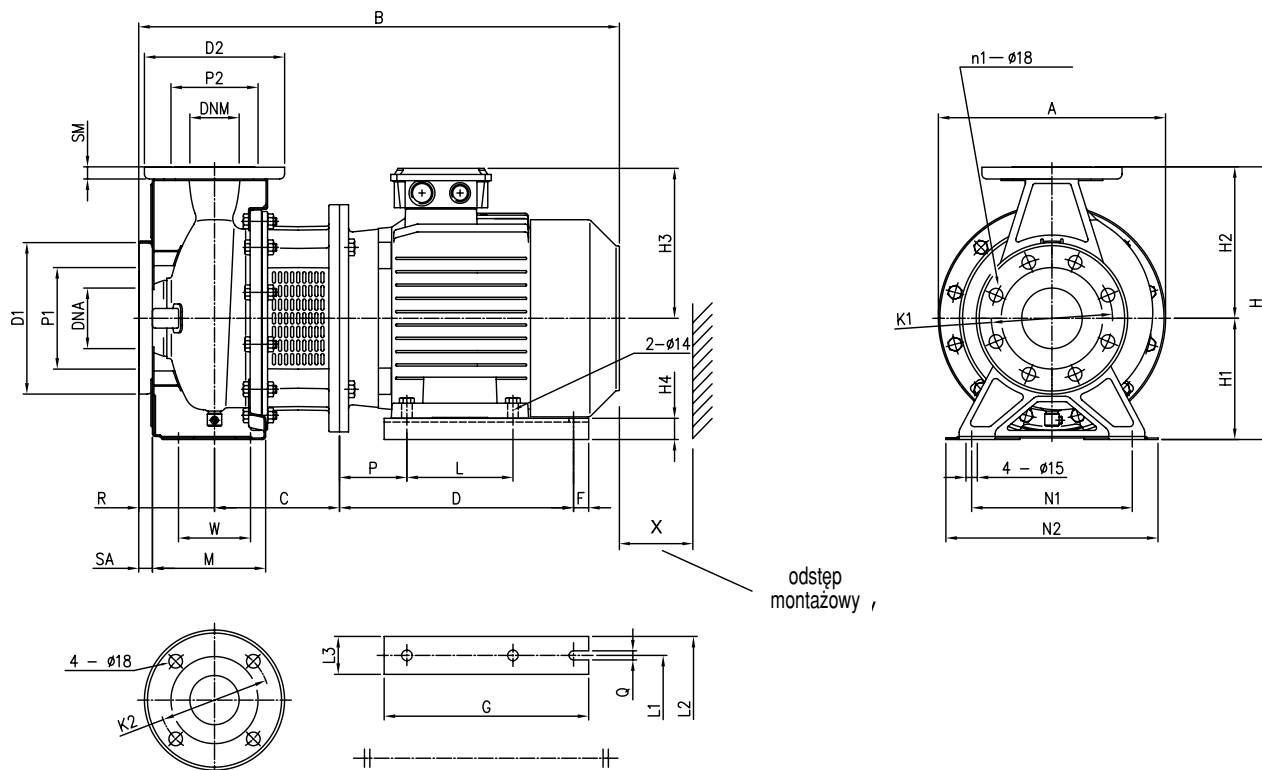
### TABELA WYMIARÓW

| Typ pompy<br>3(L)S | Wymiary (mm) |         |     |     |         |         |         |          |         |         |     |    |     |     |     |     |     |       |     |     |     |     | Masa |
|--------------------|--------------|---------|-----|-----|---------|---------|---------|----------|---------|---------|-----|----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|------|
|                    | Ø<br>DNM     | Ø<br>P1 | n1  |     | Ø<br>K1 | Ø<br>D1 | Ø<br>SA | Ø<br>DNA | Ø<br>P2 | Ø<br>K2 | D2  | SM | H   | H1  | H2  | H3  | R   | W     | B   | C   | F   | X   | kg   |
|                    |              |         | [1] | [2] |         |         |         |          |         |         |     |    |     |     |     |     |     |       |     |     |     |     |      |
| 40-200/11          | 40           | 115     | 4   | -   | 145     | 185     | 16      | 65       | 80      | 110     | 150 | 14 | 382 | 160 | 180 | 250 | 100 | 110   | 801 | 198 | 836 | 115 | 107  |
| 50-200/11          | 50           | 115     | 4   | -   | 145     | 185     | 16      | 65       | 95      | 125     | 165 | 16 | 402 | 160 | 200 | 250 | 100 | 110   | 801 | 198 | 836 | 125 | 107  |
| 50-200/15          | 50           | 115     | 4   | -   | 145     | 185     | 16      | 65       | 95      | 125     | 165 | 16 | 402 | 160 | 200 | 250 | 100 | 110   | 801 | 198 | 836 | 125 | 131  |
| 65-160/11          | 65           | 134     | 8   | 4   | 160     | 200     | 18      | 80       | 115     | 145     | 185 | 16 | 402 | 160 | 200 | 246 | 100 | 122,5 | 801 | 198 | 849 | 145 | 76   |
| 65-160/15          | 65           | 134     | 8   | 4   | 160     | 200     | 18      | 80       | 115     | 145     | 185 | 16 | 402 | 160 | 200 | 246 | 100 | 122,5 | 811 | 208 | 859 | 145 | 104  |

[1] Standard  
[2] Na życzenie

### 3S (3LS)

### 2 bieguny



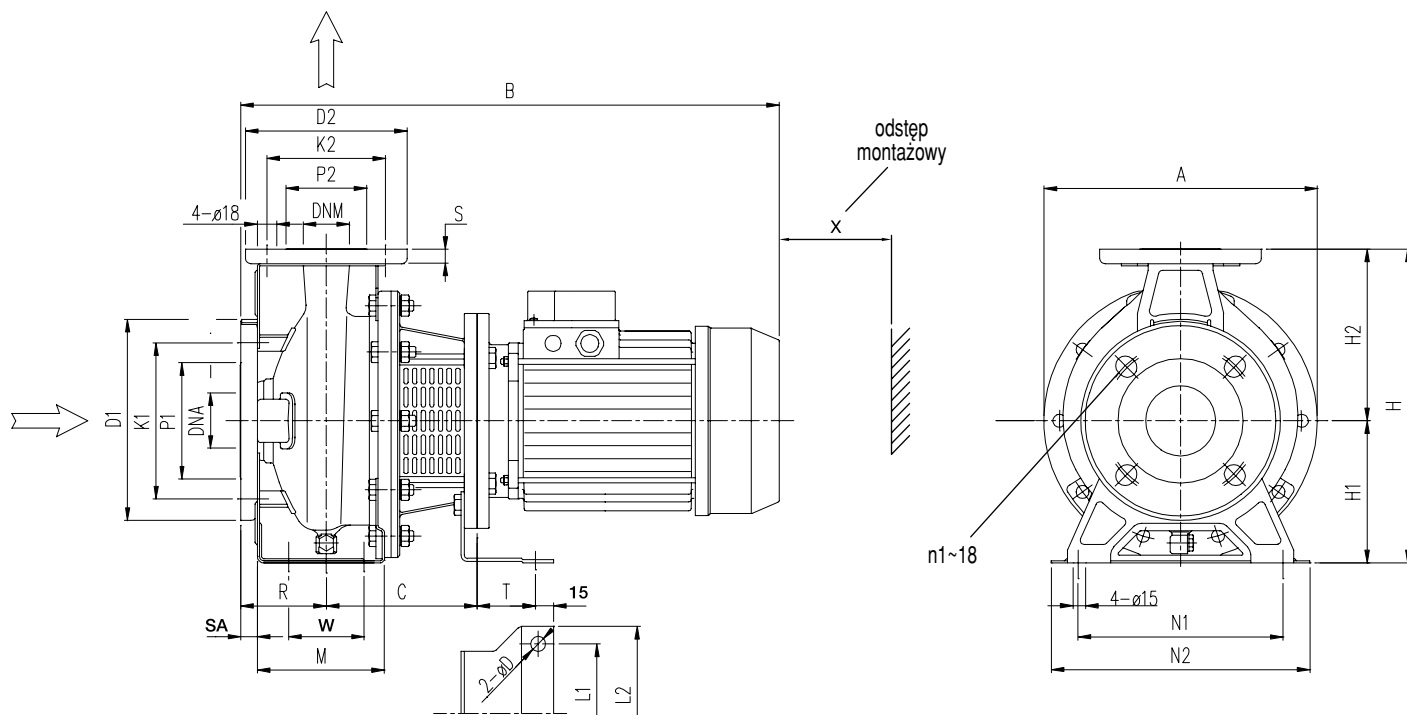
### TABELA WYMIARÓW

| Typ pompy<br>3(L)S | Wymiary (mm) |         |           |     |         |         |    |          |         |         |         |    |     |     |     |     |    |     |    |     |       |     |     |     |     |     |    |     | Masa |     |    |     |    |     |     |      |
|--------------------|--------------|---------|-----------|-----|---------|---------|----|----------|---------|---------|---------|----|-----|-----|-----|-----|----|-----|----|-----|-------|-----|-----|-----|-----|-----|----|-----|------|-----|----|-----|----|-----|-----|------|
|                    | Ø<br>DNA     | Ø<br>P1 | n1<br>[1] | [2] | Ø<br>K1 | Ø<br>D1 | SA | Ø<br>DNM | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | SM | H   | H1  | H2  | H3  | H4 | R   | W  | N1  | M     | N2  | A   | B   | C   | D   | F  | L   | L1   | L2  | L3 | G   | Q  | P   | X   | kg   |
| 32-200/5,5         | 50           | 96      | 4         | -   | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 340 | 160 | 180 | 205 | 28 | 80  | 70 | 190 | 119   | 240 | 300 | 615 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 110 | 62,8 |
| 32-200/7,5         | 50           | 96      | 4         | -   | 125     | 165     | 16 | 32       | 76      | 100     | 140     | 14 | 340 | 160 | 180 | 205 | 28 | 80  | 70 | 190 | 119   | 240 | 300 | 615 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 110 | 74,6 |
| 40-160/3,0         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 292 | 132 | 160 | 145 | 32 | 80  | 70 | 190 | 118   | 240 | 254 | 528 | 142 | 246 | 15 | -   | 160  | 200 | 40 | 220 | 12 | -   | 115 | 39   |
| 40-160/4,0         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 292 | 132 | 160 | 161 | 20 | 80  | 70 | 190 | 118   | 240 | 254 | 550 | 142 | 253 | 15 | -   | 190  | 240 | 50 | 220 | 12 | -   | 115 | 41,5 |
| 40-200/5,5         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 340 | 160 | 180 | 205 | 28 | 100 | 70 | 212 | 139   | 265 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 115 | 63,2 |
| 40-200/7,5         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 40       | 81      | 110     | 150     | 14 | 340 | 160 | 180 | 205 | 28 | 100 | 70 | 212 | 139   | 265 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 115 | 69,6 |
| 50-125/3,0         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 292 | 132 | 160 | 145 | 32 | 100 | 70 | 190 | 138   | 240 | 254 | 548 | 142 | 246 | 15 | -   | 160  | 200 | 40 | 220 | 12 | -   | 125 | 42   |
| 50-125/4,0         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 292 | 132 | 160 | 161 | 20 | 100 | 70 | 190 | 138   | 240 | 254 | 570 | 142 | 253 | 15 | -   | 190  | 240 | 50 | 220 | 12 | -   | 125 | 42,5 |
| 50-160/5,5         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 340 | 160 | 180 | 205 | 28 | 100 | 70 | 212 | 139   | 265 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 125 | 63,8 |
| 50-160/7,5         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 340 | 160 | 180 | 205 | 28 | 100 | 70 | 212 | 139   | 265 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 125 | 69,6 |
| 50-200/9,2         | 65           | 116     | 4         | -   | 145     | 185     | 16 | 50       | 96      | 125     | 165     | 16 | 360 | 160 | 200 | 205 | 28 | 100 | 70 | 212 | 139   | 265 | 300 | 673 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 125 | 79,7 |
| 65-125/5,5         | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 212 | 149,5 | 280 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 145 | 60   |
| 65-125/7,5         | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 212 | 149,5 | 280 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 145 | 67   |
| 65-160/7,5         | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 212 | 149,5 | 280 | 300 | 635 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 145 | 70   |
| 65-160/9,2         | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 212 | 149,5 | 280 | 300 | 673 | 165 | 314 | 15 | -   | 216  | 266 | 50 | 270 | 12 | -   | 145 | 77   |
| 65-200/15          | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 405 | 180 | 225 | 246 | 20 | 100 | 95 | 250 | 149,5 | 320 | 350 | 811 | 208 | 413 | 20 | -   | 254  | 314 | 60 | 350 | 14 | -   | 145 | 128  |
| 65-200/18,5        | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 405 | 180 | 225 | 246 | 20 | 100 | 95 | 250 | 149,5 | 320 | 350 | 855 | 208 | 413 | 20 | -   | 254  | 314 | 60 | 350 | 14 | -   | 145 | 141  |
| 65-200/22          | 80           | 134     | 8         | 4   | 160     | 200     | 18 | 65       | 115     | 145     | 185     | 16 | 405 | 180 | 225 | 266 | -  | 100 | 95 | 250 | 149,5 | 320 | 350 | 910 | 208 | -   | -  | 241 | 279  | 330 | 83 | -   | -  | 121 | 145 | 160  |

[1] Standard  
[2] Na życzenie

### 3S4 (3LS4) do 1,5 kW

### 4 bieguny



### TABELA WYMIARÓW

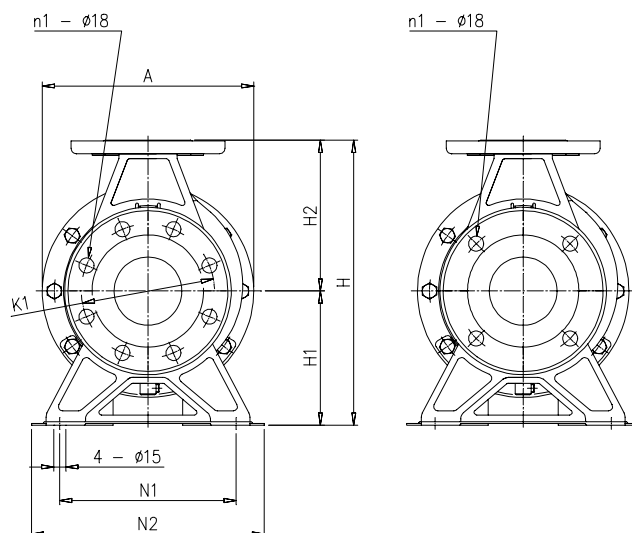
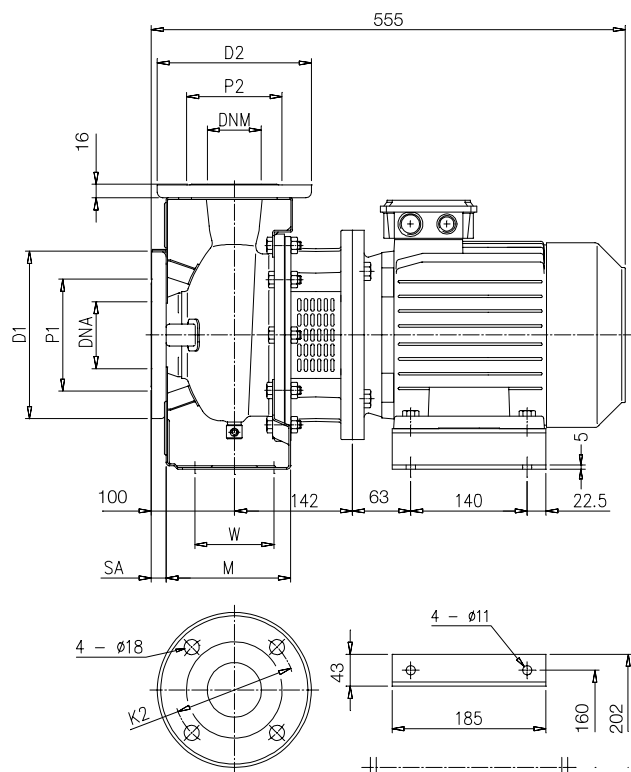
| Typ pompy<br>3(L)S4 | Wymiary (mm) |      |         |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |       |     |     |     |    |    |    | Masa |      |
|---------------------|--------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|-----|-----|-----|----|----|----|------|------|
|                     | ØDNA         | ØDNM | n1      | ØD1 | SA  | ØK1 | ØP1 | NI  | ØD2 | ØK2 | ØP2 | A   | B   | C   | D   | H  | H1  | H2  | L1  | L2  | M   | N1    | N2  | R   | W   | S  | T  | X  | kg   |      |
|                     |              |      | [1] [2] |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |       |     |     |     |    |    |    |      |      |
| 32-125/0,25         | 50           | 32   | 4       | -   | 165 | 16  | 125 | 96  | 4   | 140 | 100 | 76  | 213 | 401 | 108 | 8  | 252 | 112 | 140 | 112 | 140 | 114   | 140 | 190 | 80  | 70 | 14 | 45 | 110  | 15,5 |
| 32-160/0,37R        | 50           | 32   | 4       | -   | 165 | 16  | 125 | 96  | 4   | 140 | 100 | 76  | 254 | 401 | 108 | 8  | 292 | 132 | 160 | 112 | 140 | 118   | 190 | 240 | 80  | 70 | 14 | 45 | 110  | 20,7 |
| 32-160/0,37         | 50           | 32   | 4       | -   | 165 | 16  | 125 | 96  | 4   | 140 | 100 | 76  | 254 | 401 | 108 | 8  | 292 | 132 | 160 | 112 | 140 | 118   | 190 | 240 | 80  | 70 | 14 | 45 | 110  | 20,7 |
| 32-200/0,55R        | 50           | 32   | 4       | -   | 165 | 16  | 125 | 96  | 4   | 140 | 100 | 76  | 296 | 435 | 118 | 10 | 340 | 160 | 180 | 140 | 168 | 119   | 190 | 240 | 80  | 70 | 14 | 56 | 110  | 28,9 |
| 32-200/0,55         | 50           | 32   | 4       | -   | 165 | 16  | 125 | 96  | 4   | 140 | 100 | 76  | 296 | 435 | 118 | 10 | 340 | 160 | 180 | 140 | 168 | 119   | 190 | 240 | 80  | 70 | 14 | 56 | 110  | 28,9 |
| 32-200/0,75         | 50           | 32   | 4       | -   | 165 | 16  | 125 | 96  | 4   | 140 | 100 | 76  | 296 | 435 | 118 | 10 | 252 | 160 | 180 | 140 | 168 | 119   | 190 | 240 | 80  | 70 | 14 | 56 | 110  | 30,1 |
| 40-125/0,37R        | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 213 | 401 | 118 | 8  | 252 | 112 | 180 | 112 | 140 | 114   | 160 | 210 | 80  | 70 | 14 | 45 | 115  | 17,6 |
| 40-125/0,37         | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 213 | 401 | 118 | 8  | 292 | 112 | 140 | 112 | 140 | 114   | 160 | 210 | 80  | 70 | 14 | 45 | 115  | 17,6 |
| 40-160/0,55R        | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 254 | 435 | 118 | 10 | 292 | 132 | 140 | 140 | 168 | 118   | 190 | 210 | 80  | 70 | 14 | 56 | 115  | 23,2 |
| 40-160/0,55         | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 254 | 435 | 118 | 10 | 340 | 132 | 160 | 140 | 168 | 118   | 190 | 210 | 80  | 70 | 14 | 56 | 115  | 23,2 |
| 40-200/1,1R         | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 294 | 487 | 130 | 10 | 340 | 160 | 180 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 14 | 56 | 115  | 33,3 |
| 40-200/1,1          | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 294 | 487 | 130 | 10 | 340 | 160 | 180 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 14 | 56 | 115  | 33,3 |
| 40-200/1,5          | 65           | 40   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 110 | 81  | 294 | 512 | 130 | 10 | 292 | 160 | 180 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 14 | 56 | 115  | 35,5 |
| 50-125/0,55R        | 65           | 50   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 125 | 96  | 254 | 452 | 118 | 10 | 292 | 132 | 160 | 140 | 168 | 114   | 190 | 240 | 100 | 70 | 16 | 56 | 125  | 23,5 |
| 50-125/0,55         | 65           | 50   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 125 | 96  | 254 | 452 | 118 | 10 | 340 | 132 | 160 | 140 | 168 | 114   | 190 | 240 | 100 | 70 | 16 | 56 | 125  | 23,5 |
| 50-160/1,1R         | 65           | 50   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 125 | 96  | 296 | 487 | 130 | 10 | 340 | 160 | 180 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 16 | 56 | 125  | 34,0 |
| 50-160/1,1          | 65           | 50   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 125 | 96  | 296 | 487 | 130 | 10 | 360 | 160 | 180 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 16 | 56 | 125  | 34,0 |
| 50-200/1,5R         | 65           | 50   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 125 | 96  | 296 | 512 | 130 | 10 | 360 | 160 | 200 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 16 | 56 | 125  | 30,0 |
| 50-200/1,5          | 65           | 50   | 4       | -   | 185 | 16  | 145 | 116 | 4   | 150 | 125 | 96  | 296 | 512 | 130 | 10 | 360 | 160 | 200 | 140 | 168 | 115   | 212 | 265 | 100 | 70 | 16 | 56 | 125  | 30,0 |
| 65-125/0,35         | 80           | 65   | 8       | 4   | 200 | 18  | 160 | 134 | 8   | 185 | 145 | 115 | 254 | 450 | 118 | 10 | 340 | 160 | 180 | 140 | 168 | 149,5 | 212 | 280 | 100 | 95 | 16 | 56 | 145  | 24,8 |
| 65-125/0,75         | 80           | 65   | 8       | 4   | 200 | 18  | 160 | 134 | 8   | 185 | 145 | 115 | 254 | 450 | 118 | 10 | 340 | 160 | 180 | 140 | 168 | 149,5 | 212 | 280 | 100 | 95 | 16 | 56 | 145  | 26   |
| 65-125/1,1          | 80           | 65   | 8       | 4   | 200 | 18  | 160 | 134 | 8   | 185 | 145 | 115 | 254 | 497 | 130 | 10 | 340 | 160 | 180 | 140 | 168 | 149,5 | 212 | 280 | 100 | 95 | 16 | 56 | 145  | 30   |
| 65-160/1,1          | 80           | 65   | 8       | 4   | 200 | 18  | 160 | 134 | 8   | 185 | 145 | 115 | 296 | 497 | 130 | 10 | 360 | 160 | 200 | 140 | 168 | 149,5 | 212 | 280 | 100 | 95 | 16 | 56 | 145  | 34,1 |
| 65-160/1,5          | 80           | 65   | 8       | 4   | 200 | 18  | 160 | 134 | 8   | 185 | 145 | 115 | 296 | 497 | 130 | 10 | 360 | 160 | 200 | 140 | 168 | 149,5 | 212 | 280 | 100 | 95 | 16 | 56 | 145  | 35,2 |

[1] Standard

[2] Na życzenie

### 3S4 (3LS4) 2,2 ÷ 3 kW

### 4 bieguny

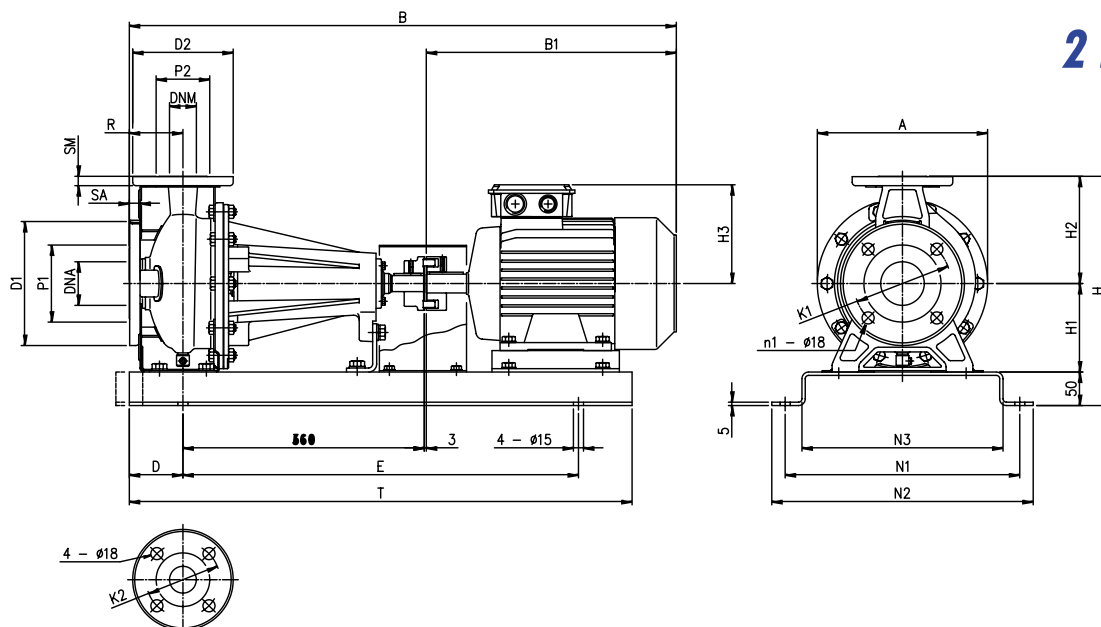


### TABELA WYMIARÓW

| Typ pompy<br>3(L)S | Wymiary (mm) |          |           |           |         |         |         |    |         |         |         |     |     |     |    |     |     |       |     | Masa |
|--------------------|--------------|----------|-----------|-----------|---------|---------|---------|----|---------|---------|---------|-----|-----|-----|----|-----|-----|-------|-----|------|
|                    | Ø<br>DNA     | Ø<br>DNM | n1<br>[1] | n1<br>[2] | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | SA | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | H   | H1  | H2  | W  | N1  | N2  | M     | A   | kg   |
| 50-200/2.2         | 65           | 50       | 4         | -         | 116     | 145     | 185     | 16 | 96      | 125     | 165     | 360 | 160 | 200 | 70 | 212 | 265 | 139   | 296 | 42,8 |
| 65-160/2.2         | 80           | 65       | 8         | 4         | 134     | 160     | 200     | 18 | 115     | 145     | 185     | 360 | 160 | 200 | 95 | 212 | 280 | 149,5 | 296 | 43,7 |
| 65-200/2.2R        | 80           | 65       | 8         | 4         | 134     | 160     | 200     | 18 | 115     | 145     | 185     | 405 | 180 | 225 | 95 | 250 | 320 | 149,5 | 296 | 44,8 |
| 65-200/2.2         | 80           | 65       | 8         | 4         | 134     | 160     | 200     | 18 | 115     | 145     | 185     | 405 | 180 | 225 | 95 | 250 | 320 | 149,5 | 296 | 45   |
| 65-200/3.0         | 80           | 65       | 8         | 4         | 134     | 160     | 200     | 18 | 115     | 145     | 185     | 405 | 180 | 225 | 95 | 250 | 320 | 149,5 | 296 | 48,2 |

### 3P (3LP)

### 2 bieguny



### TABELA WYMIARÓW

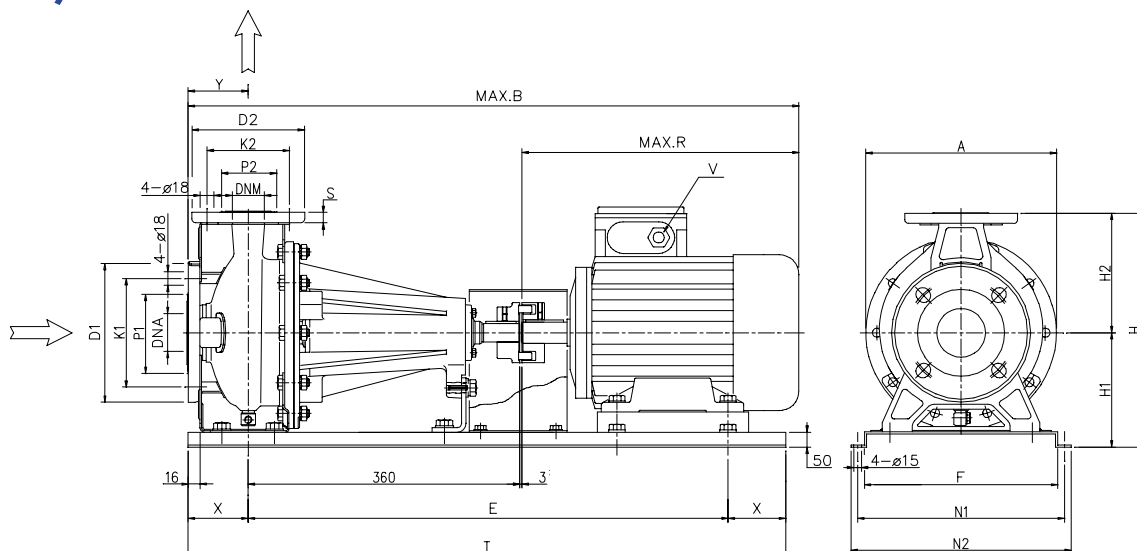
| Typ pompy<br>3(L)P | Wymiary (mm) |     |     |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |     |      |     |     |     |     |     |     |      |       | Masa |  |
|--------------------|--------------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-------|------|--|
|                    | Ø            | Ø   | n1  |     | Ø   | Ø   |    | Ø   | Ø   | Ø   | Ø   |    |     |     | H3  |     |     |     |     |      |     |     |     |     |     |     |      |       |      |  |
|                    | DNA          | P1  | [1] | [2] | K1  | D1  | SA | DNM | P2  | K2  | D2  | SM | H   | H1  | H2  | [3] | [4] | R   | A   | B    | B1  | D   | E   | N1  | N2  | N3  | T    | kg    |      |  |
| 32-125/1,1 (M)     | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 302 | 112 | 140 | 129 | 150 | 80  | 213 | 715  | 272 | 80  | 550 | 300 | 340 | 250 | 710  | 43,5  |      |  |
| 32-160/1,5 (M)     | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 342 | 132 | 160 | 138 | 160 | 80  | 254 | 760  | 317 | 80  | 590 | 350 | 390 | 300 | 750  | 51    |      |  |
| 32-160/2,2 (M)     | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 342 | 132 | 160 | 138 | 160 | 80  | 254 | 760  | 317 | 80  | 590 | 350 | 390 | 300 | 750  | 53,5  |      |  |
| 32-200/3           | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 390 | 160 | 180 | 145 | -   | 80  | 296 | 809  | 366 | 80  | 590 | 350 | 390 | 300 | 750  | 68    |      |  |
| 32-200/4           | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 390 | 160 | 180 | 161 | -   | 80  | 296 | 831  | 388 | 80  | 590 | 350 | 390 | 300 | 750  | 72    |      |  |
| 32-200/5,5         | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 390 | 160 | 180 | 198 | -   | 80  | 296 | 893  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 88    |      |  |
| 32-200/7,5         | 50           | 95  | 4   | -   | 125 | 165 | 16 | 32  | 75  | 100 | 140 | 14 | 390 | 160 | 180 | 198 | -   | 80  | 296 | 893  | 450 | 100 | 650 | 350 | 390 | 300 | 820  | 99,8  |      |  |
| 40-125/1,5 (M)     | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 302 | 112 | 140 | 138 | 160 | 80  | 213 | 760  | 317 | 80  | 550 | 300 | 340 | 250 | 710  | 48,5  |      |  |
| 40-125/2,2 (M)     | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 302 | 112 | 140 | 138 | 160 | 80  | 213 | 760  | 317 | 80  | 550 | 300 | 340 | 250 | 710  | 51    |      |  |
| 40-160/3           | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 342 | 132 | 160 | 145 | -   | 80  | 254 | 809  | 366 | 80  | 590 | 350 | 390 | 300 | 750  | 77,5  |      |  |
| 40-160/4           | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 342 | 132 | 160 | 161 | -   | 80  | 254 | 831  | 388 | 80  | 590 | 350 | 390 | 300 | 750  | 64,5  |      |  |
| 40-200/5,5         | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 390 | 160 | 180 | 198 | -   | 100 | 296 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 89    |      |  |
| 40-200/7,5         | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 390 | 160 | 180 | 198 | -   | 100 | 296 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 94,5  |      |  |
| 40-200/11          | 65           | 115 | 4   | -   | 145 | 185 | 16 | 40  | 80  | 110 | 150 | 14 | 390 | 160 | 180 | 246 | -   | 100 | 296 | 1076 | 613 | 100 | 800 | 380 | 420 | 330 | 1000 | 117   |      |  |
| 50-125/2,2 (M)     | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 342 | 132 | 160 | 138 | 160 | 100 | 254 | 780  | 317 | 80  | 590 | 350 | 390 | 300 | 750  | 132   |      |  |
| 50-125/3           | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 342 | 132 | 160 | 145 | -   | 100 | 254 | 829  | 366 | 80  | 590 | 350 | 390 | 300 | 750  | 79    |      |  |
| 50-125/4           | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 342 | 132 | 160 | 161 | -   | 100 | 254 | 851  | 388 | 80  | 590 | 350 | 390 | 300 | 750  | 81,5  |      |  |
| 50-160/5,5         | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 390 | 160 | 180 | 198 | -   | 100 | 296 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 89    |      |  |
| 50-160/7,5         | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 390 | 160 | 180 | 198 | -   | 100 | 296 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 94,5  |      |  |
| 50-200/9,2         | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 410 | 160 | 200 | 198 | -   | 100 | 296 | 951  | 488 | 100 | 650 | 350 | 390 | 300 | 850  | 100   |      |  |
| 50-200/11          | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 410 | 160 | 200 | 246 | -   | 100 | 296 | 1076 | 613 | 100 | 800 | 380 | 420 | 330 | 1000 | 117,5 |      |  |
| 50-200/15          | 65           | 115 | 4   | -   | 145 | 185 | 16 | 50  | 95  | 125 | 165 | 16 | 410 | 160 | 200 | 246 | -   | 100 | 296 | 1076 | 613 | 100 | 800 | 380 | 420 | 330 | 1000 | 125,4 |      |  |
| 65-125/4           | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 390 | 160 | 180 | 161 | -   | 100 | 254 | 851  | 388 | 80  | 590 | 350 | 390 | 300 | 750  | 82    |      |  |
| 65-125/5,5         | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 390 | 160 | 180 | 198 | -   | 100 | 254 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 90    |      |  |
| 65-125/7,5         | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 390 | 160 | 180 | 198 | -   | 100 | 254 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 97    |      |  |
| 65-160/7,5         | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 410 | 160 | 200 | 198 | -   | 100 | 296 | 913  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 103   |      |  |
| 65-160/9,2         | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 410 | 160 | 200 | 198 | -   | 100 | 296 | 951  | 450 | 100 | 650 | 350 | 390 | 300 | 850  | 107   |      |  |
| 65-160/11          | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 410 | 160 | 200 | 246 | -   | 100 | 296 | 1076 | 613 | 100 | 800 | 380 | 420 | 330 | 1000 | 114   |      |  |
| 65-160/15          | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 410 | 160 | 200 | 246 | -   | 100 | 296 | 1076 | 613 | 100 | 800 | 380 | 420 | 330 | 1000 | 119   |      |  |
| 65-200/15          | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 455 | 180 | 225 | 246 | -   | 100 | 296 | 1076 | 613 | 100 | 800 | 380 | 420 | 330 | 1000 | 127   |      |  |
| 65-200/18,5        | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 455 | 180 | 225 | 246 | -   | 100 | 296 | 1120 | 657 | 100 | 800 | 380 | 420 | 330 | 1000 | 139   |      |  |
| 65-200/22          | 80           | 134 | 8   | 4   | 160 | 200 | 18 | 65  | 115 | 145 | 185 | 16 | 455 | 180 | 225 | 266 | -   | 100 | 296 | 1175 | 712 | 100 | 800 | 410 | 450 | 360 | 1000 | 182   |      |  |

[1] Standard  
[2] Na życzenie  
[3] 3~  
[4] 1~



### 3P4 (3LP4)

### 4 bieguny



### TABELA WYMIARÓW

| Typ pompy<br>3(L)P4 | Wymiary (mm) |      |     |                       |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     | Masa<br>kg |      |
|---------------------|--------------|------|-----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|------------|------|
|                     | ØDNA         | ØDNM | [1] | n <sup>1</sup><br>[2] | S  | ØD1 | ØK1 | ØP1 | ØD2 | ØK2 | ØP2 | A   | B   | E   | F   | H   | H1  | H2  | N1  | N2  | X  | Y   | R   |            | T    |
| 32-125/0.25         | 50           | 32   | 4   | -                     | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 213 | 683 | 550 | 250 | 302 | 162 | 140 | 300 | 340 | 80 | 80  | 240 | 710        | 37,0 |
| 32-160/0.37R        | 50           | 32   | 4   | -                     | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 254 | 683 | 510 | 300 | 342 | 182 | 160 | 350 | 390 | 80 | 80  | 240 | 670        | 41,0 |
| 32-160/0.37         | 50           | 32   | 4   | -                     | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 254 | 683 | 510 | 300 | 342 | 182 | 160 | 350 | 390 | 80 | 80  | 240 | 670        | 41,0 |
| 32-200/0.55R        | 50           | 32   | 4   | -                     | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 296 | 717 | 510 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 274 | 670        | 53,5 |
| 32-200/0.55         | 50           | 32   | 4   | -                     | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 296 | 717 | 510 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 274 | 670        | 53,5 |
| 32-200/0.75         | 50           | 32   | 4   | -                     | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 296 | 717 | 510 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 274 | 670        | 54,5 |
| 40-125/0.37R        | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 213 | 683 | 550 | 250 | 302 | 162 | 140 | 300 | 340 | 80 | 80  | 240 | 710        | 46,5 |
| 40-125/0.37         | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 213 | 683 | 550 | 250 | 302 | 162 | 140 | 300 | 340 | 80 | 80  | 240 | 710        | 46,5 |
| 40-160/0.55R        | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 254 | 717 | 510 | 300 | 342 | 182 | 160 | 350 | 390 | 80 | 80  | 274 | 670        | 44,5 |
| 40-160/0.55         | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 254 | 717 | 590 | 300 | 342 | 182 | 160 | 350 | 390 | 80 | 80  | 274 | 670        | 44,5 |
| 40-200/1.1R         | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 296 | 795 | 590 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 332 | 750        | 61,5 |
| 40-200/1.1          | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 296 | 795 | 590 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 332 | 750        | 61,5 |
| 40-200/1.5          | 65           | 40   | 4   | -                     | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 296 | 795 | 510 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 332 | 750        | 64,0 |
| 50-125/0.55R        | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 254 | 737 | 510 | 300 | 342 | 182 | 160 | 350 | 390 | 80 | 80  | 274 | 670        | 45,0 |
| 50-125/0.55         | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 254 | 737 | 590 | 300 | 342 | 182 | 160 | 350 | 390 | 80 | 80  | 274 | 670        | 45,0 |
| 50-160/1.1R         | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 296 | 795 | 590 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 332 | 750        | 52,5 |
| 50-160/1.1          | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 296 | 795 | 590 | 300 | 390 | 210 | 180 | 350 | 390 | 80 | 80  | 332 | 750        | 52,5 |
| 50-200/1.5R         | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 296 | 795 | 590 | 300 | 410 | 210 | 200 | 350 | 390 | 80 | 80  | 332 | 750        | 64,0 |
| 50-200/1.5          | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 296 | 795 | 590 | 300 | 410 | 210 | 200 | 350 | 390 | 80 | 80  | 332 | 750        | 64,0 |
| 50-200/2.2          | 65           | 50   | 4   | -                     | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 296 | 863 | 590 | 300 | 410 | 210 | 200 | 350 | 390 | 80 | 80  | 400 | 750        | 70   |
| 65-125/0.55         | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 254 | 735 | 510 | 300 | 390 | 160 | 180 | 350 | 390 | 80 | 100 | 272 | 670        | 48,6 |
| 65-125/0.75         | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 254 | 735 | 510 | 300 | 390 | 160 | 180 | 350 | 390 | 80 | 100 | 272 | 670        | 49,8 |
| 65-125/1.1          | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 254 | 780 | 590 | 300 | 390 | 160 | 180 | 350 | 390 | 80 | 100 | 317 | 750        | 56,1 |
| 65-160/1.1          | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 296 | 780 | 590 | 300 | 410 | 160 | 200 | 350 | 390 | 80 | 100 | 317 | 750        | 62,6 |
| 65-160/1.5          | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 296 | 780 | 590 | 300 | 410 | 160 | 200 | 350 | 390 | 80 | 100 | 317 | 750        | 63,7 |
| 65-160/2.2          | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 296 | 829 | 590 | 300 | 410 | 160 | 200 | 350 | 390 | 80 | 100 | 366 | 750        | 71,5 |
| 65-200/2.2R         | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 296 | 829 | 590 | 330 | 455 | 180 | 225 | 380 | 420 | 80 | 100 | 366 | 750        | 74,1 |
| 65-200/2.2          | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 296 | 829 | 590 | 330 | 455 | 180 | 225 | 380 | 420 | 80 | 100 | 366 | 750        | 74,2 |
| 65-200/3.0          | 80           | 65   | 8   | 4                     | 16 | 200 | 185 | 134 | 185 | 145 | 115 | 296 | 829 | 590 | 330 | 455 | 180 | 225 | 380 | 420 | 80 | 100 | 366 | 750        | 77,5 |

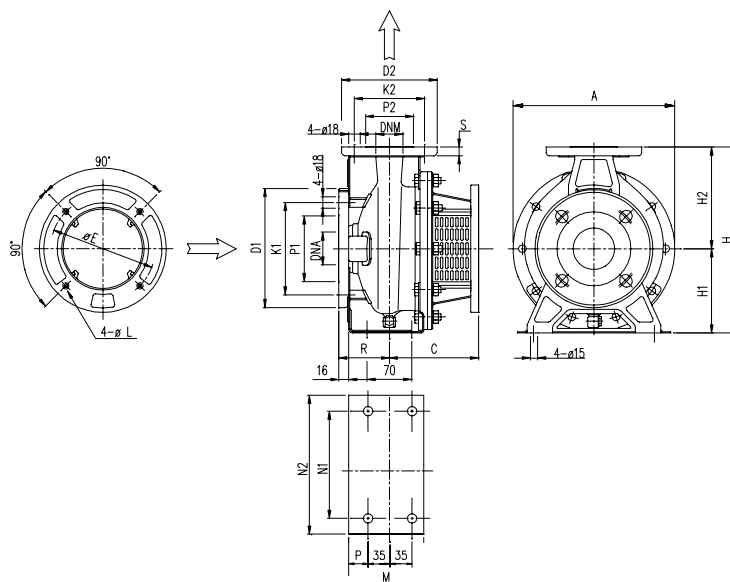
[1] Standard  
[2] Na życzenie

### 3SF (3LSF)

## 2 bieguny

### TABELA WYMIARÓW

| Typ pompy<br>3(L)/SF | Wymiary (mm) |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|----------------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|                      | ØDNA         | ØDNM | ØD1 | ØK1 | ØP1 | ØD2 | ØK2 | ØP2 | A   | C   | E   | H   | H1  | H2  | L   | M   | N1  | N2  | P   | R   | S  |
| 32-125/1,1           | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 213 | 118 | 165 | 252 | 112 | 140 | M10 | 114 | 140 | 190 | 29  | 80  | 14 |
| 32-160/1,5           | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 254 | 130 | 165 | 292 | 132 | 160 | M10 | 118 | 190 | 240 | 29  | 80  | 14 |
| 32-160/2,2           | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 254 | 130 | 165 | 292 | 132 | 160 | M10 | 118 | 190 | 240 | 29  | 80  | 14 |
| 32-200/3             | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 294 | 142 | 215 | 340 | 160 | 180 | M12 | 119 | 190 | 240 | 29  | 80  | 14 |
| 32-200/4             | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 294 | 142 | 215 | 340 | 160 | 180 | M12 | 119 | 190 | 240 | 29  | 80  | 14 |
| 32-200/5,5           | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 294 | 165 | 265 | 340 | 160 | 180 | M12 | 119 | 190 | 240 | 29  | 80  | 14 |
| 32-200/7,5           | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 294 | 165 | 265 | 340 | 160 | 180 | M12 | 119 | 190 | 240 | 29  | 80  | 14 |
| 40-125/1,5           | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 213 | 130 | 165 | 252 | 112 | 140 | M10 | 114 | 160 | 210 | 29  | 80  | 14 |
| 40-125/2,2           | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 213 | 130 | 165 | 252 | 112 | 140 | M10 | 114 | 160 | 210 | 29  | 80  | 14 |
| 40-160/3             | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 254 | 142 | 215 | 292 | 132 | 160 | M12 | 118 | 190 | 240 | 29  | 80  | 14 |
| 40-160/4             | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 254 | 142 | 215 | 292 | 132 | 160 | M12 | 118 | 190 | 240 | 29  | 80  | 14 |
| 40-200/5,5           | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 294 | 165 | 265 | 340 | 160 | 180 | M12 | 115 | 212 | 265 | 25  | 80  | 14 |
| 40-200/7,5           | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 294 | 165 | 265 | 340 | 160 | 180 | M12 | 115 | 212 | 265 | 25  | 100 | 14 |
| 40-200/11            | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 294 | 198 | 300 | 340 | 160 | 180 | M16 | 115 | 212 | 265 | 25  | 100 | 14 |
| 50-125/2,2           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 254 | 142 | 215 | 292 | 132 | 160 | M12 | 114 | 190 | 240 | 25  | 100 | 16 |
| 50-125/3             | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 254 | 142 | 215 | 292 | 132 | 160 | M12 | 114 | 190 | 240 | 25  | 100 | 16 |
| 50-125/4             | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 254 | 142 | 215 | 292 | 132 | 160 | M12 | 114 | 190 | 240 | 25  | 100 | 16 |
| 50-160/5,5           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 165 | 265 | 340 | 160 | 180 | M12 | 115 | 212 | 25  | 100 | 16  | 16 |
| 50-160/7,5           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 165 | 265 | 340 | 160 | 180 | M12 | 115 | 212 | 25  | 100 | 16  | 16 |
| 50-200/9,2           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 165 | 265 | 360 | 160 | 200 | M12 | 115 | 212 | 265 | 25  | 390 | 16 |
| 50-200/11            | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 198 | 300 | 360 | 160 | 200 | M16 | 115 | 212 | 265 | 25  | 390 | 16 |
| 50-200/15            | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 198 | 300 | 360 | 160 | 200 | M16 | 115 | 212 | 265 | 25  | 390 | 16 |



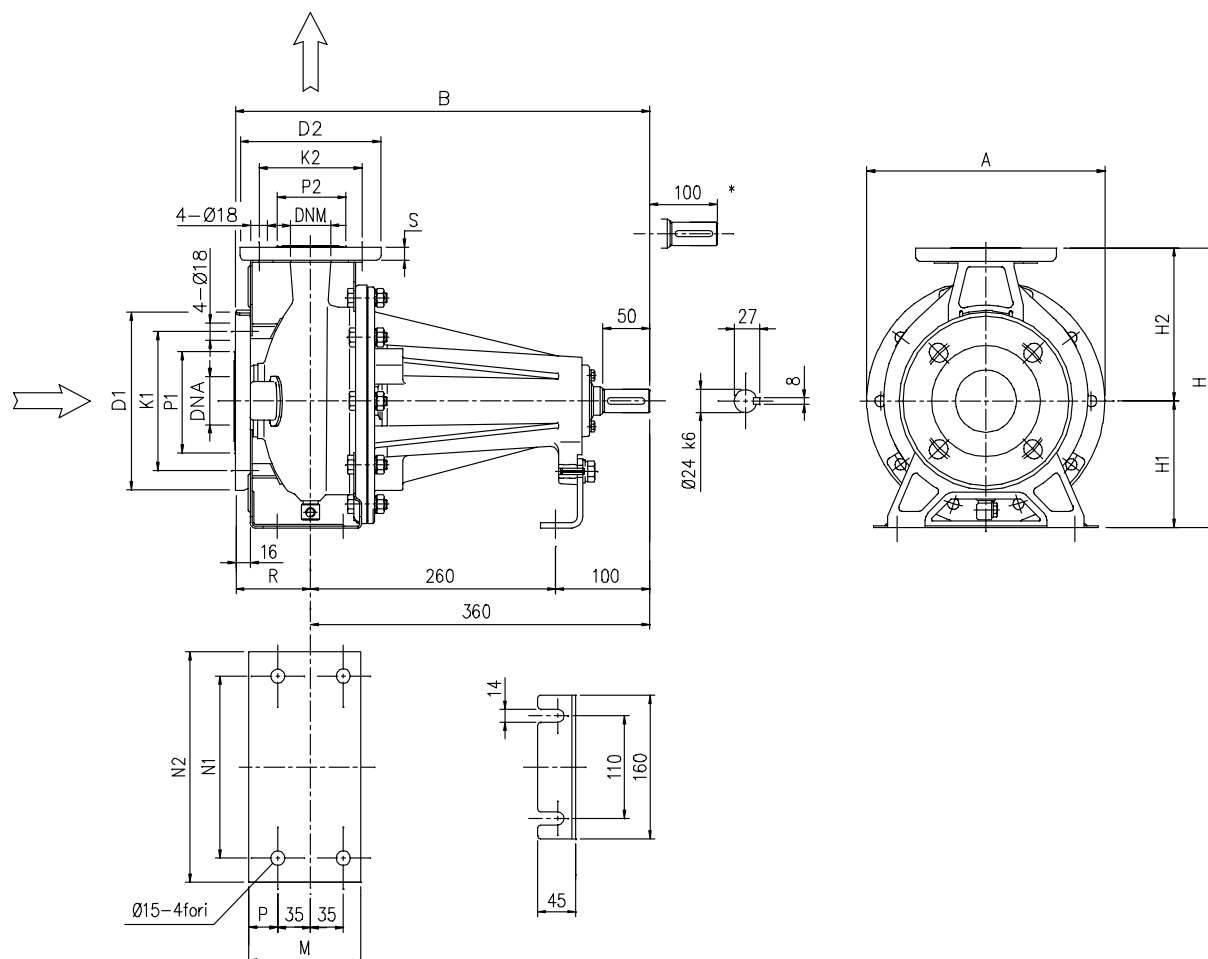
### 3SF4 (3LSF4)

## 4 bieguny

## TABELA WYMIARÓW

| Typ pompy<br>3(L)SF4 | Wymiary (mm) |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|----------------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|                      | ØDNA         | ØDNM | ØD1 | ØK1 | ØP1 | ØD2 | ØK2 | ØP2 | A   | C   | E   | H   | H1  | H2  | L   | M   | N1  | N2  | P   | R   | S  |
| 32-125/0,25          | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 213 | 108 | 130 | 252 | 112 | 140 | M8  | 114 | 140 | 190 | 29  | 80  | 14 |
| 32-160/0,37R         | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 254 | 108 | 130 | 292 | 132 | 160 | M8  | 118 | 190 | 240 | 29  | 80  | 14 |
| 32-160/0,37          | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 254 | 108 | 130 | 292 | 132 | 160 | M8  | 118 | 190 | 240 | 29  | 80  | 14 |
| 32-200/0,55R         | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 296 | 118 | 165 | 340 | 160 | 180 | M10 | 119 | 190 | 240 | 29  | 80  | 14 |
| 32-200/0,55          | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 296 | 118 | 165 | 340 | 160 | 180 | M10 | 119 | 190 | 240 | 29  | 80  | 14 |
| 32-200/0,75          | 50           | 32   | 165 | 125 | 96  | 140 | 100 | 76  | 296 | 118 | 165 | 340 | 160 | 180 | M10 | 119 | 190 | 240 | 29  | 80  | 14 |
| 40-125/0,37R         | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 213 | 118 | 130 | 252 | 112 | 140 | M8  | 114 | 160 | 210 | 29  | 80  | 14 |
| 40-125/0,37          | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 213 | 118 | 130 | 252 | 112 | 140 | M8  | 114 | 160 | 210 | 29  | 80  | 14 |
| 40-160/0,55R         | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 254 | 118 | 165 | 292 | 132 | 160 | M10 | 118 | 190 | 240 | 29  | 80  | 14 |
| 40-160/0,55          | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 254 | 118 | 165 | 292 | 132 | 160 | M10 | 118 | 190 | 240 | 29  | 80  | 14 |
| 40-200/1,1R          | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 294 | 130 | 165 | 340 | 160 | 180 | M10 | 115 | 212 | 265 | 25  | 100 | 14 |
| 40-200/1,1           | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 294 | 130 | 165 | 340 | 160 | 180 | M10 | 115 | 212 | 265 | 25  | 100 | 14 |
| 40-200/1,5           | 65           | 40   | 185 | 145 | 116 | 150 | 110 | 81  | 294 | 130 | 165 | 340 | 160 | 180 | M10 | 115 | 212 | 265 | 25  | 100 | 14 |
| 50-125/0,55R         | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 254 | 118 | 165 | 292 | 132 | 160 | M10 | 114 | 190 | 240 | 25  | 100 | 16 |
| 50-125/0,55          | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 254 | 118 | 165 | 292 | 132 | 160 | M10 | 114 | 190 | 240 | 25  | 100 | 16 |
| 50-160/1,1R          | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 130 | 165 | 340 | 160 | 180 | M10 | 115 | 212 | 25  | 100 | 16  |    |
| 50-160/1,1           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 130 | 165 | 340 | 160 | 180 | M10 | 115 | 215 | 212 | 25  | 100 | 16 |
| 50-200/1,5R          | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 130 | 165 | 360 | 160 | 200 | M10 | 115 | 212 | 265 | 25  | 100 | 16 |
| 50-200/1,5           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 130 | 165 | 360 | 160 | 200 | M10 | 115 | 212 | 265 | 25  | 100 | 16 |
| 50-200/2,2           | 65           | 50   | 185 | 145 | 116 | 165 | 125 | 96  | 296 | 130 | 215 | 360 | 160 | 200 | M12 | 115 | 212 | 265 | 25  | 100 | 16 |

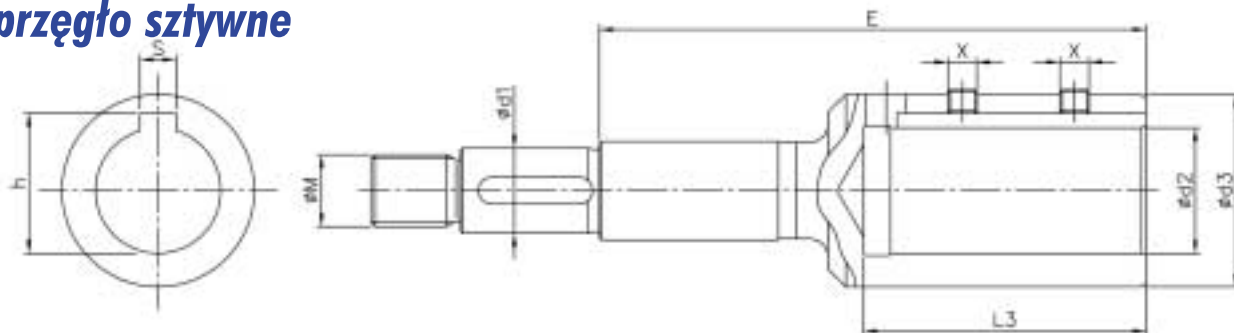
### 3PF (3LPF)



**TABELA WYMIARÓW**

| Typ pompy<br>3(L)PF | Wymiary (mm) |     |     |     |     |     |     |     |    |     |    |     |     |     |     |     |     |      |      | Masa<br>kg |
|---------------------|--------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|------|------|------------|
|                     | A            | B   | H   | H1  | H2  | M   | N1  | N2  | P  | R   | S  | ØD1 | ØK1 | ØP1 | ØD2 | ØK2 | ØP2 | ØDNA | ØDNM |            |
| 32-125              | 213          | 440 | 252 | 112 | 140 | 114 | 140 | 190 | 29 | 80  | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 50   | 32   | 18,0       |
| 32-160              | 254          | 440 | 292 | 132 | 160 | 118 | 190 | 240 | 29 | 80  | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 50   | 32   | 20,0       |
| 32-200              | 296          | 440 | 340 | 160 | 180 | 119 | 190 | 240 | 29 | 80  | 14 | 165 | 125 | 95  | 140 | 100 | 75  | 50   | 32   | 28,5       |
| 40-125              | 213          | 440 | 252 | 112 | 140 | 114 | 160 | 210 | 29 | 80  | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 65   | 40   | 18,0       |
| 40-160              | 254          | 440 | 292 | 132 | 160 | 118 | 190 | 240 | 29 | 80  | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 65   | 40   | 20,0       |
| 40-200              | 296          | 460 | 340 | 160 | 180 | 115 | 212 | 265 | 25 | 100 | 14 | 185 | 145 | 115 | 150 | 110 | 80  | 65   | 40   | 29,0       |
| 50-125              | 254          | 460 | 292 | 132 | 160 | 114 | 190 | 240 | 25 | 100 | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 65   | 50   | 20,0       |
| 50-160              | 296          | 460 | 340 | 160 | 180 | 115 | 212 | 265 | 25 | 100 | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 65   | 50   | 29,0       |
| 50-200              | 296          | 460 | 360 | 160 | 200 | 115 | 212 | 265 | 25 | 100 | 16 | 185 | 145 | 115 | 165 | 125 | 95  | 65   | 50   | 29,5       |

### 3S (3LS) Sprzęgło sztywne



**TABELA WYMIARÓW**

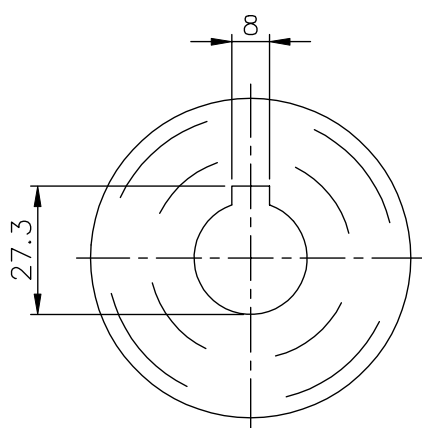
**2 bieguny**

| Typ pompy<br>3(L)S – 3(L)SF | kW   | HP   | silnik   |     | Wymiary (mm) |    |    |     |          |          |          |      |    |     |
|-----------------------------|------|------|----------|-----|--------------|----|----|-----|----------|----------|----------|------|----|-----|
|                             |      |      | Wielkość | Typ | d1           | d2 | d3 | L3  | M        | Gwint    | Standard | h    | S  | E   |
| 32-125/N                    | 1,1  | 1,5  | 80       | B5  | 19           | 33 | 19 | 43  | 16 x 1,5 | M6 x 6   | UNI 5929 | 21,8 | 6  | 98  |
| 32-160/R                    | 1,5  | 2    | 90       | B5  | 19           | 39 | 24 | 53  | 16 x 1,5 | M8 x 8   | UNI 5929 | 27,3 | 8  | 110 |
| 32-160/N                    | 2,2  | 3    | 90       | B5  | 19           | 39 | 24 | 53  | 16 x 1,5 | M8 x 8   | UNI 5929 | 27,3 | 8  | 110 |
| 32-200/R                    | 3    | 4    | 100      | B35 | 19           | 43 | 28 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | 8  | 122 |
| 32-200/N                    | 4    | 5,5  | 112      | B35 | 19           | 43 | 28 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | 8  | 122 |
| 32-200/L                    | 5,5  | 7,5  | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 32-200/EL                   | 7,5  | 10   | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 40-125/R                    | 1,5  | 2    | 90       | B5  | 19           | 39 | 24 | 53  | 16 x 1,5 | M8 x 8   | UNI 5929 | 27,3 | 8  | 110 |
| 40-125/N                    | 2,2  | 3    | 90       | B5  | 19           | 39 | 24 | 53  | 16 x 1,5 | M8 x 8   | UNI 5929 | 27,3 | 8  | 110 |
| 40-160/R                    | 3    | 4    | 100      | B35 | 19           | 43 | 28 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | 8  | 122 |
| 40-160/N                    | 4    | 5,5  | 112      | B35 | 19           | 43 | 28 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | 8  | 122 |
| 40-200/R                    | 5,5  | 7,5  | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 40-200/N                    | 7,5  | 10   | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 40-200/L                    | 11   | 15   | 160      | B35 | 19           | 63 | 42 | 114 | 16 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 178 |
| 50-125/S                    | 2,2  | 3    | 90       | B5  | 19           | 39 | 24 | 53  | 16 x 1,5 | M8 x 8   | UNI 5929 | 27,3 | 8  | 110 |
| 50-125/R                    | 3    | 4    | 100      | B35 | 19           | 43 | 28 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | -  | 122 |
| 50-125/N                    | 4    | 5,5  | 112      | B35 | 19           | 43 | 28 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | -  | 122 |
| 50-160/R                    | 5,5  | 7,5  | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 50-160/N                    | 7,5  | 10   | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 50-200/R                    | 9,2  | 12,5 | 132      | B35 | 19           | 58 | 38 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 50-200/N                    | 11   | 15   | 160      | B35 | 19           | 63 | 42 | 114 | 16 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 178 |
| 50-200/L                    | 15   | 20   | 160      | B35 | 22           | 63 | 42 | 114 | 18 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 209 |
| 65-125/R                    | 4    | 5,5  | 112      | B35 | 19           | 28 | 43 | 63  | 16 x 1,5 | M8 x 8   | UNI 5929 | 31,3 | 8  | 122 |
| 65-125/N                    | 5,5  | 7,5  | 132      | B35 | 19           | 38 | 58 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 65-125/L                    | 7,5  | 10   | 132      | B35 | 19           | 38 | 58 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 65-160/S                    | 7,5  | 10   | 132      | B35 | 19           | 38 | 58 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 65-160/R                    | 9,2  | 12,5 | 132      | B35 | 19           | 38 | 58 | 84  | 16 x 1,5 | M8 x 8   | UNI 5929 | 41,3 | 10 | 145 |
| 65-160/N                    | 11   | 15   | 160      | B35 | 19           | 42 | 63 | 114 | 16 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 178 |
| 65-160/L                    | 15   | 20   | 160      | B35 | 24           | 42 | 63 | 114 | 20 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 184 |
| 65-200/R                    | 15   | 20   | 160      | B35 | 24           | 42 | 63 | 114 | 20 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 184 |
| 65-200/N                    | 18,5 | 25   | 160      | B35 | 24           | 42 | 63 | 114 | 20 x 1,5 | M8 x 8   | UNI 5929 | 45,3 | 12 | 184 |
| 65-200/L                    | 22   | 30   | 180      | B35 | 24           | 48 | 72 | 114 | 20 x 1,5 | M10 x 10 | UNI 5929 | 51,8 | 14 | 184 |

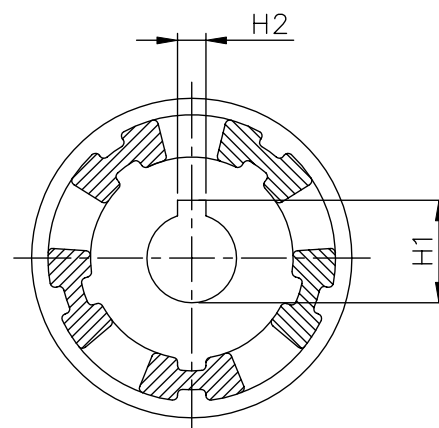
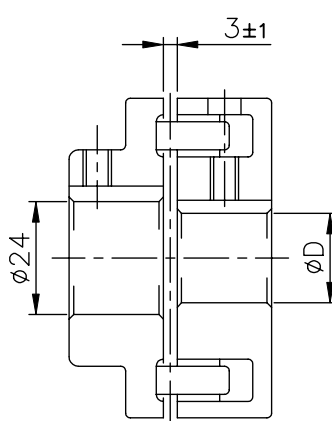
**4 bieguny**

| 3(L)S4 – 3(L)SF4 | kW   | HP   | Silnik   |     | Wymiary (mm) |    |    |    |           |        |          |      |   |     |
|------------------|------|------|----------|-----|--------------|----|----|----|-----------|--------|----------|------|---|-----|
|                  |      |      | Wielkość | Typ | d1           | d2 | d3 | L3 | M         | Gwint  | Standard | h    | S | E   |
| 32-125/N         | 0,25 | 0,33 | 71       | B5  | 19           | 14 | 28 | 33 | M16 x 1,5 | M5 x 6 | UNI 5929 | 16,3 | 5 | 88  |
| 32-160/R         | 0,37 | 0,5  | 71       | B5  | 19           | 14 | 28 | 33 | M16 x 1,5 | M5 x 6 | UNI 5929 | 16,3 | 5 | 88  |
| 32-160/N         | 0,37 | 0,5  | 71       | B5  | 19           | 14 | 28 | 33 | M16 x 1,5 | M5 x 6 | UNI 5929 | 16,3 | 5 | 88  |
| 32-200/R         | 0,55 | 0,75 | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 32-200/N         | 0,55 | 0,75 | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 32-200/L         | 0,75 | 1    | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 40-125/R         | 0,37 | 0,5  | 71       | B5  | 19           | 14 | 28 | 33 | M16 x 1,5 | M5 x 6 | UNI 5929 | 16,3 | 5 | 88  |
| 40-125/N         | 0,37 | 0,5  | 71       | B5  | 19           | 14 | 28 | 33 | M16 x 1,5 | M5 x 6 | UNI 5929 | 16,3 | 5 | 88  |
| 40-160/R         | 0,55 | 0,75 | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 40-160/N         | 0,55 | 0,75 | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 40-200/R         | 1,1  | 1,5  | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 40-200/N         | 1,1  | 1,5  | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 40-200/L         | 1,5  | 2    | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 50-125/R         | 0,55 | 0,75 | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 50-125/N         | 0,55 | 0,75 | 80       | B5  | 19           | 19 | 33 | 43 | M16 x 1,5 | M6 x 6 | UNI 5929 | 21,8 | 6 | 98  |
| 50-160/R         | 1,1  | 1,5  | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 50-160/N         | 1,1  | 1,5  | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 50-200/R         | 1,5  | 2    | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 50-200/N         | 1,5  | 2    | 90       | B5  | 19           | 24 | 39 | 53 | M16 x 1,5 | M8 x 8 | UNI 5929 | 27,3 | 8 | 110 |
| 50-200/L         | 2,2  | 3    | 100      | B35 | 22           | 28 | 43 | 63 | M18 x 1,5 | M8 x 8 | UNI 5929 | 31,3 | 8 | 153 |

### 3P (3LP) Sprzęgło elastyczne



Od strony pompy



Od strony silnika

### TABELA WYMIARÓW

| Typ pompy<br>3(L)P | kW   | HP   | Silnik   |     | Wymiary (mm) |      |    |
|--------------------|------|------|----------|-----|--------------|------|----|
|                    |      |      | Wielkość | Typ | D            | H1   | H2 |
| 32-125/1,1         | 1,1  | 1,5  | 80       | B3  | 19           | 21,8 | 6  |
| 32-160/1,5         | 1,5  | 2    | 90       | B3  | 24           | 27,3 | 8  |
| 32-160/2,2         | 2,2  | 3    | 90       | B3  | 24           | 27,3 | 8  |
| 32-200/3,0         | 3    | 4    | 100      | B3  | 28           | 31,3 | 8  |
| 32-200/4,0         | 4    | 5,5  | 112      | B3  | 28           | 31,3 | 8  |
| 32-200/5,5         | 5,5  | 7,5  | 132      | B3  | 38           | 41,3 | 10 |
| 32-200/7,5         | 7,5  | 10   | 132      | B3  | 38           | 41,3 | 10 |
| 40-125/1,5         | 1,5  | 2    | 90       | B3  | 24           | 27,3 | 8  |
| 40-125/2,2         | 2,2  | 3    | 90       | B3  | 24           | 27,3 | 8  |
| 40-160/3,0         | 3    | 4    | 100      | B3  | 28           | 31,3 | 8  |
| 40-160/4,0         | 4    | 5,5  | 112      | B3  | 28           | 31,3 | 8  |
| 40-200/5,5         | 5,5  | 7,5  | 132      | B3  | 38           | 41,3 | 10 |
| 40-200/7,5         | 7,5  | 10   | 132      | B3  | 38           | 41,3 | 10 |
| 40-200/11          | 11   | 15   | 160      | B3  | 42           | 45,3 | 12 |
| 50-125/2,2         | 2,2  | 3    | 90       | B3  | 24           | 27,3 | 8  |
| 50-125/3,0         | 3    | 4    | 100      | B3  | 28           | 31,3 | 8  |
| 50-125/4,0         | 4    | 5,5  | 112      | B3  | 28           | 31,3 | 8  |
| 50-160/5,5         | 5,5  | 7,5  | 132      | B3  | 38           | 41,3 | 10 |
| 50-160/7,5         | 7,5  | 10   | 132      | B3  | 38           | 41,3 | 10 |
| 50-200/9,2         | 9,2  | 12,5 | 132      | B3  | 38           | 41,3 | 10 |
| 50-200/11          | 11   | 15   | 160      | B3  | 42           | 45,3 | 12 |
| 50-200/15          | 15   | 20   | 160      | B3  | 42           | 45,3 | 12 |
| 65-125/4,0         | 4    | 5,5  | 112      | B3  | 28           | 31,3 | 8  |
| 65-125/5,5         | 5,5  | 7,5  | 132      | B3  | 38           | 41,3 | 10 |
| 65-125/7,5         | 7,5  | 10   | 132      | B3  | 38           | 41,3 | 10 |
| 65-160/7,5         | 7,5  | 10   | 132      | B3  | 38           | 41,3 | 10 |
| 65-160/9,2         | 9,2  | 12,5 | 132      | B3  | 38           | 41,3 | 10 |
| 65-160/11          | 11   | 15   | 160      | B3  | 42           | 45,3 | 12 |
| 65-160/15          | 15   | 20   | 160      | B3  | 42           | 45,3 | 12 |
| 65-200/15          | 15   | 20   | 160      | B3  | 42           | 45,3 | 12 |
| 65-200/18,5        | 18,5 | 25   | 160      | B3  | 42           | 45,3 | 12 |
| 65-200/22          | 22   | 30   | 180      | B3  | 48           | 51,8 | 14 |

| 3(L)P4       | kW   | HP   | Silnik   |     | Wymiary (mm) |      |    |
|--------------|------|------|----------|-----|--------------|------|----|
|              |      |      | Wielkość | Typ | D            | H1   | H2 |
| 32-125/0,25  | 0,25 | 0,33 | 71       | B3  | 14           | 16,3 | 5  |
| 32-160/0,37R | 0,37 | 0,5  | 71       | B3  | 14           | 16,3 | 5  |
| 32-160/0,37  | 0,37 | 0,5  | 71       | B3  | 14           | 16,3 | 5  |
| 32-200/0,55R | 0,55 | 0,75 | 80       | B3  | 19           | 21,8 | 6  |
| 32-200/0,55  | 0,55 | 0,75 | 80       | B3  | 19           | 21,8 | 6  |
| 32-200/0,75  | 0,75 | 1    | 80       | B3  | 19           | 21,8 | 6  |
| 40-125/0,37R | 0,37 | 0,5  | 71       | B3  | 14           | 16,3 | 5  |
| 40-125/0,37  | 0,37 | 0,5  | 71       | B3  | 14           | 16,3 | 5  |
| 40-160/0,55R | 0,55 | 0,75 | 80       | B3  | 19           | 21,3 | 6  |
| 40-160/0,55  | 0,55 | 0,75 | 80       | B3  | 19           | 21,3 | 6  |
| 40-200/1,1R  | 1,1  | 1,5  | 90       | B3  | 24           | 27,3 | 8  |
| 40-200/1,1   | 1,1  | 1,5  | 90       | B3  | 24           | 27,3 | 8  |
| 40-200/1,5   | 1,5  | 2    | 90       | B3  | 24           | 27,3 | 8  |
| 50-125/0,55R | 0,55 | 0,75 | 80       | B3  | 19           | 21,3 | 6  |
| 50-125/0,55  | 0,55 | 0,75 | 80       | B3  | 19           | 21,3 | 6  |
| 50-160/1,1R  | 1,1  | 1,5  | 90       | B3  | 24           | 27,3 | 8  |
| 50-160/1,1   | 1,1  | 1,5  | 90       | B3  | 24           | 27,3 | 8  |
| 50-200/1,5R  | 1,5  | 2    | 90       | B3  | 24           | 27,3 | 8  |
| 50-200/1,5   | 1,5  | 2    | 90       | B3  | 24           | 27,3 | 8  |
| 50-200/2,2   | 2,2  | 3    | 100      | B3  | 28           | 31,3 | 8  |
| 65-125/0,55  | 0,55 | 0,75 | 80       | B3  | 19           | 21,8 | 6  |
| 65-125/0,75  | 0,75 | 1,0  | 80       | B3  | 19           | 21,8 | 6  |
| 65-125/1,1   | 1,1  | 1,5  | 90       | B3  | 24           | 27,3 | 8  |
| 65-160/1,1   | 1,1  | 1,5  | 90       | B3  | 24           | 27,3 | 8  |
| 65-160/1,5   | 1,5  | 2,0  | 90       | B3  | 24           | 27,3 | 8  |
| 65-160/2,2   | 2,2  | 3,0  | 100      | B3  | 28           | 31,3 | 8  |
| 65-200/2,2R  | 2,2  | 3,0  | 100      | B3  | 28           | 31,3 | 8  |
| 65-200/2,2   | 2,2  | 3,0  | 100      | B3  | 28           | 31,3 | 8  |
| 65-200/3,0   | 3,0  | 4,0  | 100      | B3  | 28           | 31,3 | 8  |

Pompy monoblokowe, odśrodkowe, normalnie ssące, wykonane z żeliwa, zgodne ze standardem EN 733 (DIN 24255).

Przeznaczone do pompowania czystej wody w systemach wodociągowych, nawodnieniowych, obiegach grzewczych i chłodniczych a także w innych instalacjach przemysłowych



### SPECYFIKACJA

- Ciśnienie systemowe: 10 bar
- Temperatura medium: 90°C (MD)  
-10°C do + 130°C (MMD)

### MATERIAŁY

- Korpus pompy: żeliwo
- Wirnik pompy: żeliwo lub brąz B10
- Wał pompy: stal nierdzewna AISI 316
- Uszczelnienie wału: węgiel/ceramika/NBR (MD)  
SiC/SiC/EPDM (MMD)

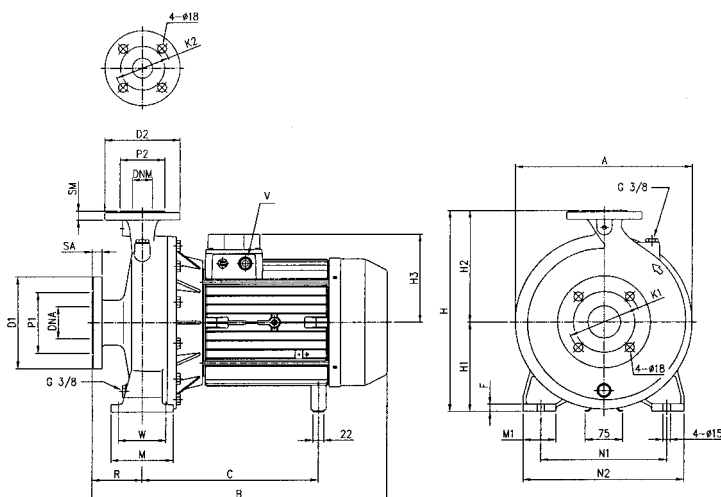
### DANE TECHNICZNE

- Silnik: asynchroniczny 2- i 4- biegunowy
- Klasa izolacji: F
- Stopień ochrony: IP55 (MD), IP54 (MMD)
- Zasilanie: 1~230V ± 10%, 50 Hz  
3~230/400V ± 10%, 50 Hz do 4 kW łącznie,  
3~400/690V ± 10% od 5,5 kW
- W wersji jednofazowej kondensator włączony na stałe oraz wbudowane zabezpieczenie termiczne
- W wersji trójfazowej zabezpieczenie silnika w gestii użytkownika



### MD

### 2 bieguny



[1] = 3~  
[2] = 1~

### TABELA WYMIARÓW

| Typ pompy     | Wymiary (mm) |     |     |     |    |     |     |     |     |    |     |     |     |     |     |     |    |     |     |     |    |    |     |     |     |        |
|---------------|--------------|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-----|-----|--------|
|               | DNA          | P1  | K1  | D1  | SA | DNM | P2  | K2  | D2  | SM | H   | H1  | H2  | [1] | [2] | R   | W  | N1  | M   | N2  | M1 | F  | A   | B   | C   | V[1]   |
| MD 32-125/1.1 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 252 | 112 | 140 | 122 | 139 | 80  | 70 | 140 | 100 | 190 | 50 | 13 | 205 | 431 | 230 | PG13.5 |
| MD 32-125/1.5 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 252 | 112 | 140 | 122 | 139 | 80  | 70 | 140 | 100 | 190 | 50 | 13 | 205 | 431 | 230 | PG13.5 |
| MD 32-160/1.5 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 292 | 132 | 160 | 122 | 139 | 80  | 70 | 190 | 100 | 240 | 50 | 13 | 245 | 431 | 230 | PG13.5 |
| MD 32-160/2.2 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 292 | 132 | 160 | 122 | 139 | 80  | 70 | 190 | 100 | 240 | 50 | 13 | 245 | 431 | 230 | PG13.5 |
| MD 32-200/3   | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 340 | 160 | 180 | 122 | -   | 80  | 70 | 190 | 100 | 240 | 50 | 13 | 290 | 431 | 252 | PG13.5 |
| MD 32-200/4   | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 340 | 160 | 180 | 134 | -   | 80  | 70 | 190 | 100 | 240 | 50 | 13 | 290 | 459 | 254 | PG 16  |
| MD 32-250/5.5 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 405 | 180 | 225 | 153 | -   | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 496 | 275 | PG 16  |
| MD 32-250/7.5 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 405 | 180 | 225 | 153 | -   | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 540 | 275 | PG 16  |
| MD 32-250/9.2 | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 405 | 180 | 225 | 181 | -   | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 588 | 351 | PG 21  |
| MD 32-250/11  | 50           | 102 | 125 | 165 | 20 | 32  | 78  | 100 | 140 | 18 | 405 | 180 | 225 | 181 | -   | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 588 | 351 | PG 21  |
| MD 40-125/1.5 | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 252 | 112 | 140 | 122 | 139 | 80  | 70 | 160 | 100 | 210 | 50 | 13 | 235 | 431 | 230 | PG13.5 |
| MD 40-125/2.2 | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 252 | 112 | 140 | 122 | 139 | 80  | 70 | 160 | 100 | 210 | 50 | 13 | 235 | 431 | 230 | PG13.5 |
| MD 40-160/3   | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 292 | 132 | 160 | 122 | -   | 80  | 70 | 190 | 100 | 240 | 50 | 13 | 245 | 431 | 230 | PG13.5 |
| MD 40-160/4   | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 292 | 132 | 160 | 134 | -   | 80  | 70 | 190 | 100 | 240 | 50 | 13 | 245 | 459 | 232 | PG 16  |
| MD 40-200/5.5 | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 340 | 160 | 180 | 153 | -   | 100 | 70 | 212 | 100 | 265 | 50 | 13 | 290 | 495 | 278 | PG 16  |
| MD 40-200/7.5 | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 340 | 160 | 180 | 153 | -   | 100 | 70 | 212 | 100 | 265 | 50 | 13 | 290 | 495 | 278 | PG 16  |
| MD 40-250/11  | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 405 | 180 | 225 | 181 | -   | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 588 | 351 | PG 21  |
| MD 40-250/13  | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 405 | 180 | 225 | 181 | -   | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 588 | 351 | PG 21  |
| MD 50-125/2.2 | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 292 | 132 | 160 | 122 | 139 | 100 | 70 | 190 | 100 | 240 | 50 | 13 | 230 | 431 | 230 | PG13.5 |
| MD 50-125/3   | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 292 | 132 | 160 | 122 | -   | 100 | 70 | 190 | 100 | 240 | 50 | 13 | 230 | 451 | 230 | PG13.5 |
| MD 50-125/4   | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 292 | 132 | 160 | 134 | -   | 100 | 70 | 190 | 100 | 240 | 50 | 13 | 230 | 479 | 232 | PG 16  |
| MD 50-160/5.5 | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 340 | 160 | 180 | 153 | -   | 100 | 70 | 212 | 100 | 265 | 50 | 13 | 260 | 495 | 278 | PG 16  |
| MD 50-160/7.5 | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 340 | 160 | 180 | 153 | -   | 100 | 70 | 212 | 100 | 265 | 50 | 13 | 260 | 495 | 278 | PG 16  |
| MD 50-200/9.2 | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 360 | 160 | 200 | 181 | -   | 100 | 70 | 212 | 100 | 265 | 50 | 13 | 300 | 585 | 355 | PG 21  |
| MD 50-200/11  | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 360 | 160 | 200 | 181 | -   | 100 | 70 | 212 | 100 | 265 | 50 | 13 | 300 | 585 | 355 | PG 21  |
| MD 65-125/5.5 | 80           | 138 | 160 | 200 | 22 | 65  | 122 | 145 | 185 | 20 | 340 | 160 | 180 | 153 | -   | 100 | 95 | 212 | 125 | 280 | 65 | 13 | 260 | 495 | 278 | PG 16  |
| MD 65-125/7.5 | 80           | 138 | 160 | 200 | 22 | 65  | 122 | 145 | 185 | 20 | 340 | 160 | 180 | 153 | -   | 100 | 95 | 212 | 125 | 280 | 65 | 13 | 260 | 495 | 278 | PG 16  |
| MD 65-160/11  | 80           | 138 | 160 | 200 | 22 | 65  | 122 | 145 | 185 | 20 | 360 | 160 | 200 | 181 | -   | 100 | 95 | 212 | 125 | 280 | 65 | 13 | 300 | 585 | 355 | PG 21  |
| MD 65-160/15  | 80           | 138 | 160 | 200 | 22 | 65  | 122 | 145 | 185 | 20 | 360 | 160 | 200 | 181 | -   | 100 | 95 | 212 | 125 | 280 | 65 | 13 | 300 | 585 | 355 | PG 21  |



### MD

### 2 bieguny

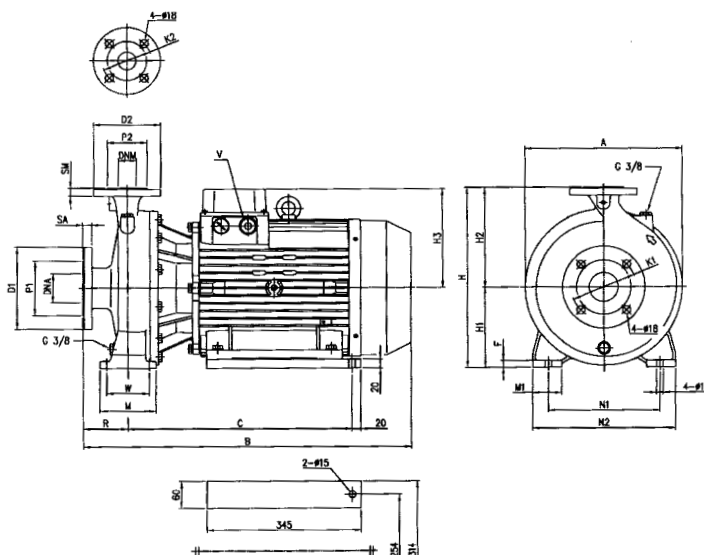


TABELA WYMIARÓW

| Typ pompy      | Wymiary (mm) |     |     |     |    |     |     |     |     |    |     |     |     |     |     |    |     |     |     |    |    |     |     |     |       |
|----------------|--------------|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-----|-----|-------|
|                | DNA          | P1  | K1  | D1  | SA | DNM | P2  | K2  | D2  | SM | H   | H1  | H2  | H3  | R   | W  | N1  | M   | N2  | M1 | F  | A   | B   | C   | V     |
| MD 40-250/15   | 65           | 122 | 145 | 185 | 20 | 40  | 88  | 110 | 150 | 18 | 405 | 180 | 225 | 230 | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 734 | 501 | PG 21 |
| MD 50-250/15   | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 405 | 180 | 225 | 230 | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 734 | 501 | PG 21 |
| MD 50-250/18.5 | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 405 | 180 | 225 | 230 | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 734 | 501 | PG 21 |
| MD 50-250/22   | 65           | 122 | 145 | 185 | 20 | 50  | 102 | 125 | 165 | 20 | 405 | 180 | 225 | 230 | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 352 | 734 | 501 | PG 21 |
| MD 65-200/18.5 | 80           | 138 | 160 | 200 | 22 | 65  | 122 | 145 | 185 | 20 | 405 | 180 | 225 | 230 | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 310 | 736 | 548 | PG 21 |
| MD 65-200/22   | 80           | 138 | 160 | 200 | 22 | 65  | 122 | 145 | 185 | 20 | 405 | 180 | 225 | 230 | 100 | 95 | 250 | 125 | 320 | 65 | 15 | 310 | 736 | 548 | PG 21 |

### MMD

### 2 bieguny

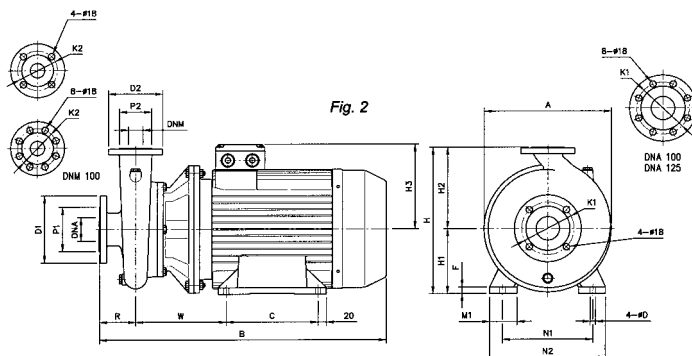
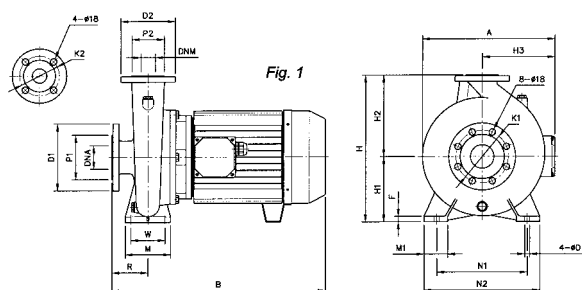


TABELA WYMIARÓW

| Typ pompy       | Fig. | Wymiary (mm) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |     | Masa<br>[kg] |      |
|-----------------|------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|--------------|------|
|                 |      | DNA          | P1  | K1  | D1  | DNM | P2  | K2  | D2  | H   | H1  | H2  | H3  | R   | W   | N1  | M   | N2  | M1 | F  | A   | B   | C   |              | D    |
| MMD 65-250/22   | 2    | 80           | 138 | 160 | 200 | 65  | 122 | 145 | 185 | 450 | 180 | 250 | 230 | 100 | 293 | 280 | -   | 320 | 55 | 22 | 365 | 810 | 241 | 14           | 144  |
| MMD 65-250/30   | 2    | 80           | 138 | 160 | 200 | 65  | 122 | 145 | 185 | 450 | 200 | 250 | 257 | 100 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 905 | 305 | 18           | 172  |
| MMD 65-250/37   | 2    | 80           | 138 | 160 | 200 | 65  | 122 | 145 | 185 | 450 | 200 | 250 | 257 | 100 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 905 | 305 | 18           | 190  |
| MMD 80-160/10   | 1    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 405 | 180 | 225 | 184 | 125 | 95  | 250 | 125 | 320 | 65 | 14 | 345 | 665 | -   | 14           | 74   |
| MMD 80-160/12.5 | 1    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 405 | 180 | 225 | 184 | 125 | 95  | 250 | 125 | 320 | 65 | 14 | 345 | 665 | -   | 14           | 81.5 |
| MMD 80-160/15   | 1    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 405 | 180 | 225 | 184 | 125 | 95  | 250 | 125 | 320 | 65 | 14 | 345 | 665 | -   | 14           | 88.5 |
| MMD 80-200/18.5 | 2    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 430 | 180 | 250 | 230 | 125 | 293 | 280 | -   | 320 | 55 | 22 | 360 | 835 | 241 | 14           | 132  |
| MMD 80-200/22   | 2    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 430 | 180 | 250 | 230 | 125 | 293 | 280 | -   | 320 | 55 | 22 | 360 | 835 | 241 | 14           | 150  |
| MMD 80-200/30   | 2    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 430 | 200 | 250 | 257 | 125 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 930 | 305 | 18           | 192  |
| MMD 80-200/37   | 2    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 430 | 200 | 250 | 257 | 125 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 930 | 305 | 18           | 210  |
| MMD 80-250/37   | 2    | 100          | 158 | 180 | 220 | 80  | 138 | 160 | 200 | 480 | 200 | 280 | 257 | 125 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 930 | 305 | 18           | 196  |
| MMD 100-200/22  | 2    | 125          | 188 | 210 | 250 | 100 | 158 | 180 | 220 | 480 | 180 | 280 | 230 | 125 | 293 | 318 | -   | 320 | 55 | 22 | 385 | 835 | 241 | 14           | 160  |
| MMD 100-200/30  | 2    | 125          | 188 | 210 | 250 | 100 | 158 | 180 | 220 | 480 | 200 | 280 | 257 | 125 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 930 | 305 | 18           | 202  |
| MMD 100-200/37  | 2    | 125          | 188 | 210 | 250 | 100 | 158 | 180 | 220 | 480 | 200 | 280 | 257 | 125 | 325 | 318 | -   | 360 | 60 | 24 | 400 | 930 | 305 | 18           | 220  |

### MMD4

### 4 bieguny

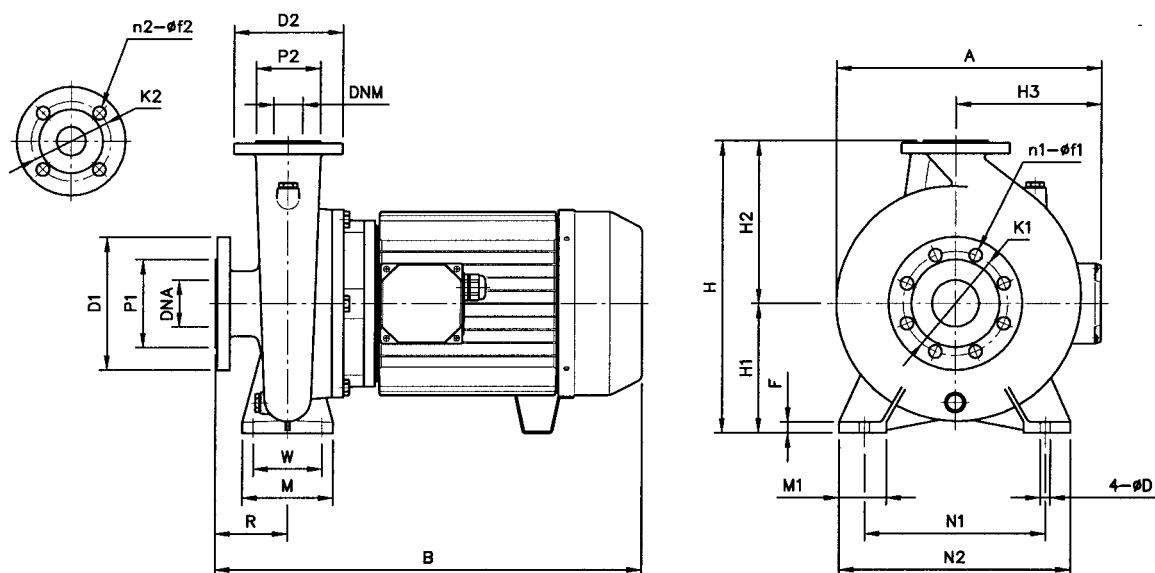
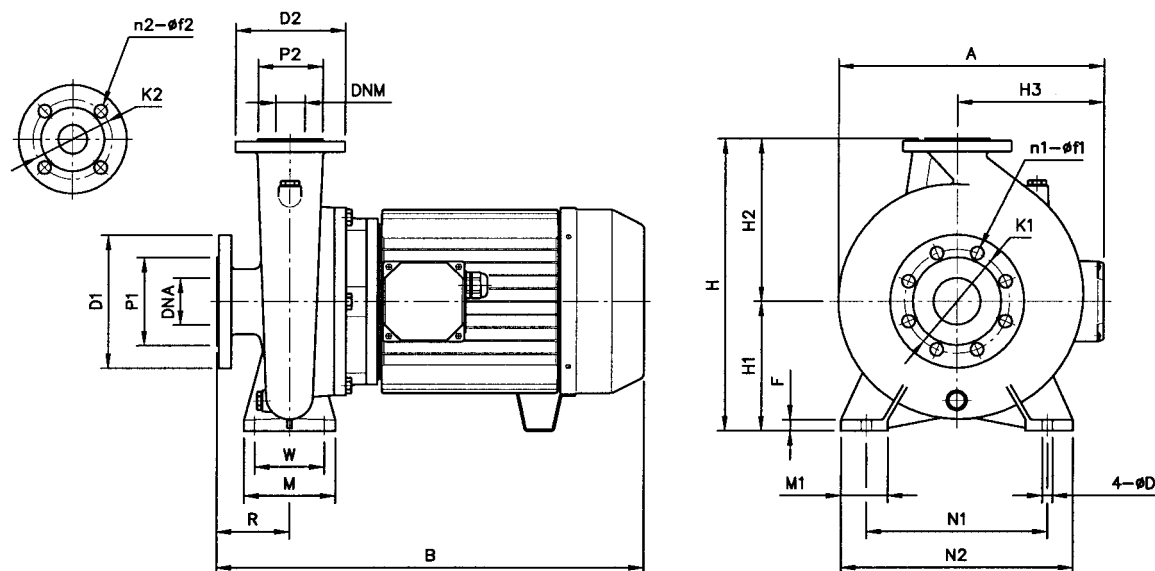


TABELA WYMIARÓW

| Typ pompy         | Wymiary (mm) |    |    |     |     |     |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |    | Masa [kg] |
|-------------------|--------------|----|----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|-----------|
|                   | DNA          | n1 | f1 | P1  | K1  | D1  | DNM | n2 | f2 | P2  | K2  | D1  | H   | H1  | H2  | H3  | R   | W   | N1  | M   | N2  | M1 | F  | A   | B   | D  |           |
| MMD4 32-125/0.25R | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 252 | 112 | 140 | 107 | 80  | 70  | 140 | 100 | 190 | 50 | 12 | 205 | 405 | 14 | 19.5      |
| MMD4 32-125/0.25  | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 252 | 112 | 140 | 107 | 80  | 70  | 140 | 100 | 190 | 50 | 12 | 205 | 405 | 14 | 19.5      |
| MMD4 32-160/0.37  | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 292 | 132 | 160 | 107 | 80  | 70  | 190 | 100 | 240 | 50 | 12 | 240 | 405 | 14 | 23        |
| MMD4 32-200/0.75  | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 340 | 160 | 180 | 118 | 80  | 70  | 190 | 100 | 240 | 50 | 12 | 255 | 425 | 14 | 30        |
| MMD4 32-200/0.92  | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 340 | 160 | 180 | 118 | 80  | 70  | 190 | 100 | 240 | 50 | 12 | 255 | 425 | 14 | 31        |
| MMD4 32-250/1.1   | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 405 | 180 | 225 | 149 | 100 | 95  | 250 | 125 | 320 | 65 | 12 | 320 | 485 | 14 | 47        |
| MMD4 32-250/1.5   | 50           | 4  | 18 | 102 | 125 | 165 | 32  | 4  | 18 | 78  | 100 | 140 | 405 | 180 | 225 | 149 | 100 | 95  | 250 | 125 | 320 | 65 | 12 | 320 | 485 | 14 | 49        |
| MMD4 40-125/0.25  | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 252 | 112 | 140 | 107 | 80  | 70  | 160 | 100 | 210 | 50 | 12 | 230 | 405 | 14 | 20.5      |
| MMD4 40-125/0.37  | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 252 | 112 | 140 | 107 | 80  | 70  | 160 | 100 | 210 | 50 | 12 | 230 | 405 | 14 | 21.5      |
| MMD4 40-160/0.55  | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 292 | 132 | 160 | 107 | 80  | 70  | 190 | 100 | 240 | 50 | 12 | 230 | 405 | 14 | 25        |
| MMD4 40-200/1.1   | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 340 | 160 | 180 | 149 | 100 | 70  | 212 | 100 | 265 | 50 | 12 | 285 | 485 | 14 | 36        |
| MMD4 40-200/1.5   | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 340 | 160 | 180 | 149 | 100 | 70  | 212 | 100 | 265 | 50 | 12 | 242 | 485 | 14 | 36        |
| MMD4 40-250/1.5   | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 405 | 180 | 225 | 149 | 100 | 95  | 250 | 125 | 320 | 65 | 12 | 325 | 485 | 14 | 47.5      |
| MMD4 40-250/2.2   | 65           | 4  | 18 | 122 | 145 | 185 | 40  | 4  | 18 | 88  | 110 | 150 | 405 | 180 | 225 | 159 | 100 | 95  | 250 | 125 | 320 | 65 | 12 | 352 | 525 | 14 | 54        |
| MMD4 50-125/0.37  | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 292 | 132 | 160 | 107 | 100 | 70  | 190 | 100 | 240 | 50 | 12 | 246 | 425 | 14 | 25        |
| MMD4 50-125/0.55  | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 292 | 132 | 160 | 107 | 100 | 70  | 190 | 100 | 240 | 50 | 12 | 246 | 425 | 14 | 26        |
| MMD4 50-160/0.75  | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 340 | 160 | 180 | 118 | 100 | 70  | 212 | 100 | 265 | 50 | 12 | 269 | 445 | 14 | 32        |
| MMD4 50-160/0.92  | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 340 | 160 | 180 | 118 | 100 | 70  | 212 | 100 | 265 | 50 | 12 | 269 | 445 | 14 | 33        |
| MMD4 50-200/1.1   | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 360 | 160 | 180 | 159 | 100 | 70  | 212 | 100 | 265 | 50 | 12 | 285 | 485 | 14 | 38        |
| MMD4 50-200/1.5   | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 360 | 160 | 180 | 149 | 100 | 70  | 212 | 100 | 265 | 50 | 12 | 285 | 485 | 14 | 40        |
| MMD4 50-250/2.2   | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 405 | 180 | 225 | 159 | 100 | 95  | 250 | 125 | 320 | 65 | 14 | 333 | 525 | 14 | 57        |
| MMD4 50-250/3.0   | 65           | 4  | 18 | 122 | 145 | 185 | 50  | 4  | 18 | 102 | 125 | 165 | 405 | 180 | 225 | 159 | 100 | 95  | 250 | 125 | 320 | 65 | 14 | 333 | 525 | 14 | 63        |
| MMD4 65-125/0.75  | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 340 | 160 | 180 | 118 | 100 | 95  | 212 | 125 | 280 | 65 | 12 | 286 | 445 | 14 | 32        |
| MMD4 65-160/1.1   | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 360 | 160 | 200 | 149 | 100 | 95  | 212 | 125 | 280 | 65 | 12 | 288 | 485 | 14 | 37.5      |
| MMD4 65-160/1.5   | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 360 | 160 | 200 | 149 | 100 | 95  | 212 | 125 | 280 | 65 | 12 | 288 | 485 | 14 | 40        |
| MMD4 65-200/2.2   | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 405 | 180 | 225 | 159 | 100 | 95  | 250 | 125 | 320 | 65 | 14 | 328 | 525 | 14 | 51        |
| MMD4 65-200/3.0   | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 405 | 180 | 225 | 159 | 100 | 95  | 250 | 125 | 320 | 65 | 14 | 328 | 525 | 14 | 57        |
| MMD4 65-250/4.0   | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 450 | 200 | 250 | 159 | 100 | 120 | 280 | 160 | 360 | 80 | 14 | 365 | 535 | 14 | 80        |
| MMD4 65-250/5.5   | 80           | 4  | 18 | 138 | 160 | 200 | 65  | 4  | 18 | 122 | 145 | 185 | 450 | 200 | 250 | 184 | 100 | 120 | 280 | 160 | 360 | 80 | 14 | 365 | 640 | 14 | 90        |

### MMD4

### 4 bieguny

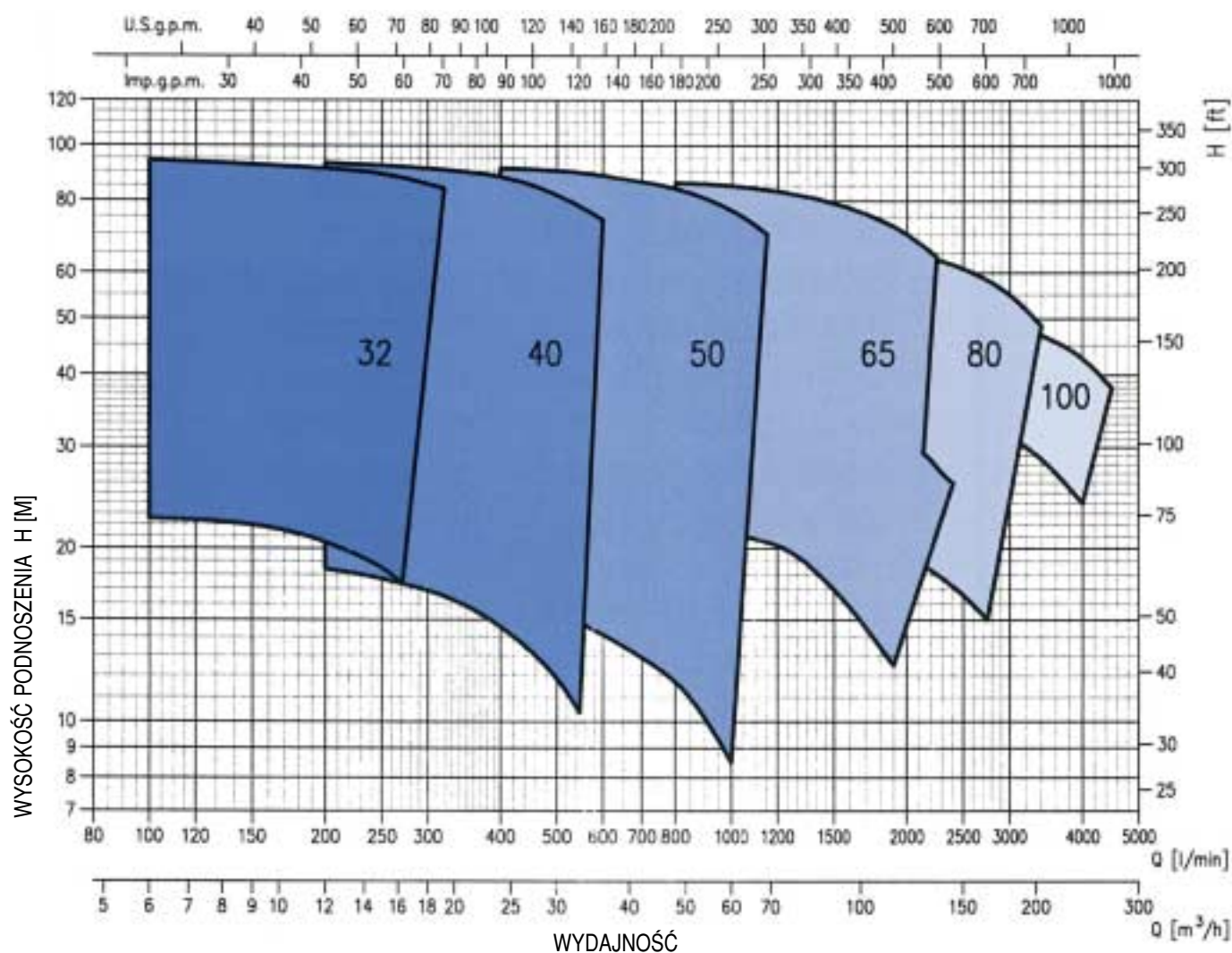


**TABELA WYMIARÓW**

| Typ pompy          | Wymiary (mm) |    |    |     |     |     |     |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |      |    | Masa<br>[kg] |
|--------------------|--------------|----|----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|----|--------------|
|                    | DNA          | n1 | f1 | P1  | K1  | D1  | DNM | n2 | f2 | P2  | K2  | D2  | H   | H1  | H2  | H3  | R   | W   | N1  | M   | N2  | M1  | F  | A   | B    | D  |              |
| MMD4 80-160/1.5    | 100          | 8  | 18 | 158 | 180 | 220 | 80  | 4  | 18 | 138 | 160 | 200 | 405 | 180 | 225 | 149 | 125 | 95  | 250 | 125 | 320 | 65  | 14 | 330 | 510  | 14 | 45           |
| MMD4 80-160/2.2    | 100          | 8  | 18 | 158 | 180 | 220 | 80  | 4  | 18 | 138 | 160 | 200 | 405 | 180 | 225 | 159 | 125 | 95  | 250 | 125 | 320 | 65  | 14 | 330 | 550  | 14 | 51           |
| MMD4 80-200/3.0    | 100          | 8  | 18 | 158 | 180 | 220 | 80  | 4  | 18 | 138 | 160 | 200 | 430 | 180 | 250 | 159 | 125 | 95  | 280 | 125 | 345 | 65  | 12 | 355 | 550  | 14 | 66           |
| MMD4 80-250/4.0    | 100          | 8  | 18 | 158 | 180 | 220 | 80  | 4  | 18 | 138 | 160 | 200 | 430 | 180 | 250 | 159 | 125 | 95  | 280 | 125 | 345 | 65  | 12 | 355 | 560  | 14 | 73           |
| MMD4 80-250/5.5    | 100          | 8  | 18 | 158 | 180 | 220 | 80  | 4  | 18 | 138 | 160 | 200 | 480 | 200 | 280 | 184 | 125 | 120 | 315 | 160 | 400 | 80  | 14 | 400 | 665  | 18 | 96           |
| MMD4 80-250/7.5    | 100          | 8  | 18 | 158 | 180 | 220 | 80  | 4  | 18 | 138 | 160 | 200 | 480 | 200 | 280 | 184 | 125 | 120 | 315 | 160 | 400 | 80  | 14 | 400 | 665  | 18 | 106          |
| MMD4 100-200/4.0   | 125          | 8  | 18 | 188 | 210 | 250 | 100 | 8  | 18 | 158 | 180 | 220 | 480 | 200 | 280 | 159 | 125 | 120 | 280 | 160 | 360 | 80  | 14 | 385 | 560  | 18 | 78           |
| MMD4 100-200/5.5   | 125          | 8  | 18 | 188 | 210 | 250 | 100 | 8  | 18 | 158 | 180 | 220 | 480 | 200 | 280 | 184 | 125 | 120 | 280 | 160 | 360 | 80  | 14 | 385 | 665  | 18 | 90           |
| MMD4 100-250/7.5   | 125          | 8  | 18 | 188 | 210 | 250 | 100 | 8  | 18 | 158 | 180 | 220 | 505 | 225 | 280 | 184 | 140 | 120 | 315 | 160 | 400 | 80  | 14 | 420 | 675  | 18 | 112          |
| MMD4 100-250/9.2   | 125          | 8  | 18 | 188 | 210 | 250 | 100 | 8  | 18 | 158 | 180 | 220 | 505 | 225 | 280 | 184 | 140 | 120 | 315 | 160 | 400 | 80  | 14 | 420 | 675  | 18 | 118          |
| MMD4 125-200/5.5   | 150          | 8  | 22 | 212 | 240 | 285 | 125 | 8  | 18 | 188 | 210 | 250 | 565 | 250 | 315 | 255 | 140 | 120 | 315 | 160 | 400 | 80  | 14 | 470 | 700  | 18 | 124          |
| MMD4 125-200/7.5R  | 150          | 8  | 22 | 212 | 240 | 285 | 125 | 8  | 18 | 188 | 210 | 250 | 565 | 250 | 315 | 255 | 140 | 120 | 315 | 160 | 400 | 80  | 14 | 470 | 700  | 18 | 134          |
| MMD4 125-200/7.5   | 150          | 8  | 22 | 212 | 240 | 285 | 125 | 8  | 18 | 188 | 210 | 250 | 565 | 250 | 315 | 255 | 140 | 120 | 315 | 160 | 400 | 80  | 14 | 470 | 700  | 18 | 134          |
| MMD4 125-200/9.2   | 150          | 8  | 22 | 212 | 240 | 285 | 125 | 8  | 18 | 188 | 210 | 250 | 565 | 250 | 315 | 255 | 140 | 120 | 315 | 160 | 400 | 80  | 14 | 470 | 770  | 18 | 140          |
| MMD4 125-250/11    | 150          | 8  | 22 | 212 | 240 | 285 | 125 | 8  | 18 | 188 | 210 | 250 | 605 | 250 | 355 | 255 | 140 | 120 | 315 | 160 | 400 | 80  | 16 | 470 | 700  | 18 | 162          |
| MMD4 125-250/15    | 150          | 8  | 22 | 212 | 240 | 285 | 125 | 8  | 18 | 188 | 210 | 250 | 605 | 250 | 355 | 255 | 140 | 120 | 315 | 160 | 400 | 80  | 16 | 470 | 855  | 18 | 190          |
| MMD4 150-200/7.5   | 200          | 8  | 22 | 268 | 295 | 340 | 150 | 8  | 22 | 212 | 240 | 285 | 680 | 280 | 400 | 295 | 160 | 155 | 450 | 200 | 550 | 100 | 22 | 550 | 855  | 24 | 167          |
| MMD4 150-200/9.2   | 200          | 8  | 22 | 268 | 295 | 340 | 150 | 8  | 22 | 212 | 240 | 285 | 680 | 280 | 400 | 295 | 160 | 155 | 450 | 200 | 550 | 100 | 22 | 550 | 855  | 24 | 173          |
| MMD4 150-200/11    | 200          | 8  | 22 | 268 | 295 | 340 | 150 | 8  | 22 | 212 | 240 | 285 | 680 | 280 | 400 | 295 | 160 | 155 | 450 | 200 | 550 | 100 | 22 | 550 | 855  | 24 | 175          |
| MMD4 150-200/15    | 200          | 8  | 22 | 268 | 295 | 340 | 150 | 8  | 22 | 212 | 240 | 285 | 680 | 280 | 400 | 295 | 160 | 155 | 450 | 200 | 550 | 100 | 22 | 550 | 875  | 24 | 203          |
| MMD4 200-250/18.5R | 250          | 12 | 22 | 320 | 295 | 395 | 200 | 8  | 22 | 268 | 295 | 340 | 765 | 315 | 450 | 295 | 200 | 155 | 450 | 200 | 550 | 100 | 22 | 630 | 1000 | 24 | 278          |
| MMD4 200-250/18.5  | 250          | 12 | 22 | 320 | 295 | 395 | 200 | 8  | 22 | 268 | 295 | 340 | 765 | 315 | 450 | 295 | 200 | 155 | 450 | 200 | 550 | 100 | 22 | 630 | 1000 | 24 | 278          |
| MMD4 200-250/22R   | 250          | 12 | 22 | 320 | 295 | 395 | 200 | 8  | 22 | 268 | 295 | 340 | 765 | 315 | 450 | 295 | 200 | 155 | 450 | 200 | 550 | 100 | 22 | 630 | 1000 | 24 | 300          |
| MMD4 200-250/22    | 250          | 12 | 22 | 320 | 295 | 395 | 200 | 8  | 22 | 268 | 295 | 340 | 765 | 315 | 450 | 295 | 200 | 155 | 450 | 200 | 550 | 100 | 22 | 630 | 1000 | 24 | 300          |

## ZAKRES STOSOWANIA MD/MMD

2 bieguny



R.P.M.  $\approx 2900 \text{ min}^{-1}$   
dla wody o temp. 20°C  
wg: ISO 9906 Aneks 2

**TABELA DANYCH**

| Typ pompy                | Silnik |      | Q = Wydajność |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |  |
|--------------------------|--------|------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|--|
|                          | kW     | HP   | l/min         | 0    | 100  | 200  | 250  | 280  | 320  | 400  | 550  | 600  | 667  | 800  | 1000 | 1100 | 1150 | 1200 | 1400 | 1900 | 2000 | 2200 | 2300 | 2400 |    |  |
|                          |        |      | m³/h          | 0    | 6    | 12   | 15   | 17   | 19   | 24   | 33   | 36   | 40   | 48   | 60   | 66   | 69   | 72   | 84   | 114  | 120  | 132  | 138  | 144  |    |  |
| H = Wysokość podnoszenia |        |      |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |  |
| MD 32-125/1.1 *          | 1.1    | 1.5  | 23            | 22.5 | 20.5 | 18.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-125/1.5 *          | 1.5    | 2    | 24            | 23.5 | 21.5 | 19.7 | 18.5 | 16.6 | 12   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-160/1.5 *          | 1.5    | 2    | 28            | 27   | 24   | 22   | 20.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-160/2.2 *          | 2.2    | 3    | 35.5          | 34.5 | 32   | 30   | 28.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-200/3.0            | 3      | 4    | 43            | 41   | 36.5 | 33   | 30.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-200/4.0            | 4      | 5.5  | 52            | 50.5 | 47   | 44.5 | 42.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-250/5.5            | 5.5    | 7.5  | 58            | 57   | 54   | 51   | 49   | 45   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-250/7.5            | 7.5    | 10   | 71            | 70   | 67   | 64   | 62   | 58   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-250/9.2            | 9.2    | 12.5 | 84            | 83   | 80   | 78   | 76   | 73   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 32-250/11             | 11     | 15   | 95            | 94   | 91   | 89   | 87   | 84   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-125/1.5 *          | 1.5    | 2    | 20            | 19.5 | 18.4 | 17.7 | 17.2 | 16.5 | 14.6 | 10.3 | 8.5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-125/2.2 *          | 2.2    | 3    | 25.5          | 25   | 23.5 | 23   | 22.5 | 22   | 20.5 | 16.9 | 15.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-160/3.0            | 3      | 4    | 31.5          | 30.5 | 29   | 28   | 27.5 | 26.5 | 25   | 21   | 19   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-160/4.0            | 4      | 5.5  | 39            | 38   | 36.5 | 36   | 33.5 | 35   | 33   | 29.5 | 28   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-200/5.5            | 5.5    | 7.5  | 48.5          | 48   | 47   | 46   | 45.5 | 44.5 | 42.5 | 37.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-200/7.5            | 7.5    | 10   | 58            | 57.5 | 56.5 | 55.5 | 55   | 54.5 | 52.5 | 47.5 | 45   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-250/11             | 11     | 15   | 74.5          | -    | 73   | 72   | 71.5 | 70   | 66.5 | 58.5 | 55   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-250/13             | 13     | 17.5 | 85.5          | -    | 84   | 83.5 | 82.5 | 81.5 | 78   | 69   | 65   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 40-250/15             | 15     | 20   | 94.5          | -    | 93   | 92   | 91.5 | 90.5 | 88   | 78   | 74   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-125/2.2 *          | 2.2    | 3    | 17.5          | -    | -    | -    | -    | -    | 16   | 14.8 | 14.3 | 13.5 | 11.7 | 8.5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-125/3.0            | 3      | 4    | 21            | -    | -    | -    | -    | -    | 19.5 | 18.6 | 18.2 | 17.6 | 16.1 | 13   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-125/4.0            | 4      | 5.5  | 25.5          | -    | -    | -    | -    | -    | 24   | 23   | 23   | 22   | 21   | 17.8 | 16   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-160/5.5            | 5.5    | 7.5  | 33.5          | -    | -    | -    | -    | -    | 32.5 | 31   | 30.5 | 30   | 28   | 24.5 | 22.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-160/7.5            | 7.5    | 10   | 39            | -    | -    | -    | -    | -    | 38   | 37   | 36.5 | 35.5 | 34   | 31   | 29   | 28   | 27   | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-200/9.2            | 9.2    | 12.5 | 50            | -    | -    | -    | -    | -    | 48   | 46   | 45   | 44   | 41   | 36   | 33   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-200/11             | 11     | 15   | 56            | -    | -    | -    | -    | -    | 54.5 | 53   | 52   | 51   | 48.5 | 43.5 | 40.5 | 39   | 37   | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-250/15             | 15     | 20   | 71            | -    | -    | -    | -    | -    | 69   | 67   | 66   | 64   | 60.5 | 52.5 | 47   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-250/18.5           | 18.5   | 25   | 82            | -    | -    | -    | -    | -    | 80   | 78.5 | 77.5 | 76   | 72.5 | 65   | 60   | 57   | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 50-250/22             | 22     | 30   | 93            | -    | -    | -    | -    | -    | 91   | 89.5 | 88.5 | 87   | 84   | 77   | 72.5 | 70   | -    | -    | -    | -    | -    | -    | -    | -    | -  |  |
| MD 65-125/5.5            | 5.5    | 7.5  | 24            | -    | -    | -    | -    | -    | -    | -    | 23.2 | 23   | 22.5 | 21.5 | 20.5 | 20   | 18.2 | 12.5 | -    | -    | -    | -    | -    | -    | -  |  |
| MD 65-125/7.5            | 7.5    | 10   | 27.5          | -    | -    | -    | -    | -    | -    | -    | 26.5 | 26   | 25.5 | 24.5 | 24   | 23.5 | 23   | 21.5 | 16.3 | 15   | -    | -    | -    | -    | -  |  |
| MD 65-160/11             | 11     | 15   | 34.5          | -    | -    | -    | -    | -    | -    | -    | -    | 34   | 33.5 | 33   | 32.5 | 32   | 32   | 30.5 | 26.5 | 25.5 | 23   | 22   | -    | -    | -  |  |
| MD 65-160/15             | 15     | 20   | 39            | -    | -    | -    | -    | -    | -    | -    | -    | -    | 38   | 37.5 | 37   | 36.5 | 35   | 31   | 30.5 | 28.5 | 28.5 | 27   | -    | -    | 26 |  |
| MD 65-200/18.5           | 18.5   | 25   | 55            | -    | -    | -    | -    | -    | -    | -    | -    | -    | 53.5 | 52.5 | 51.5 | 51   | 50.5 | 48.5 | 42   | 40.5 | 37   | -    | -    | -    | -  |  |
| MD 65-200/22             | 22     | 30   | 61            | -    | -    | -    | -    | -    | -    | -    | -    | -    | 59.5 | 58.5 | 58   | 57.5 | 57   | 55.5 | 50   | 49   | 46   | -    | -    | -    | -  |  |

\* Dostępne również w wersji jednofazowej

**TABELA DANYCH**

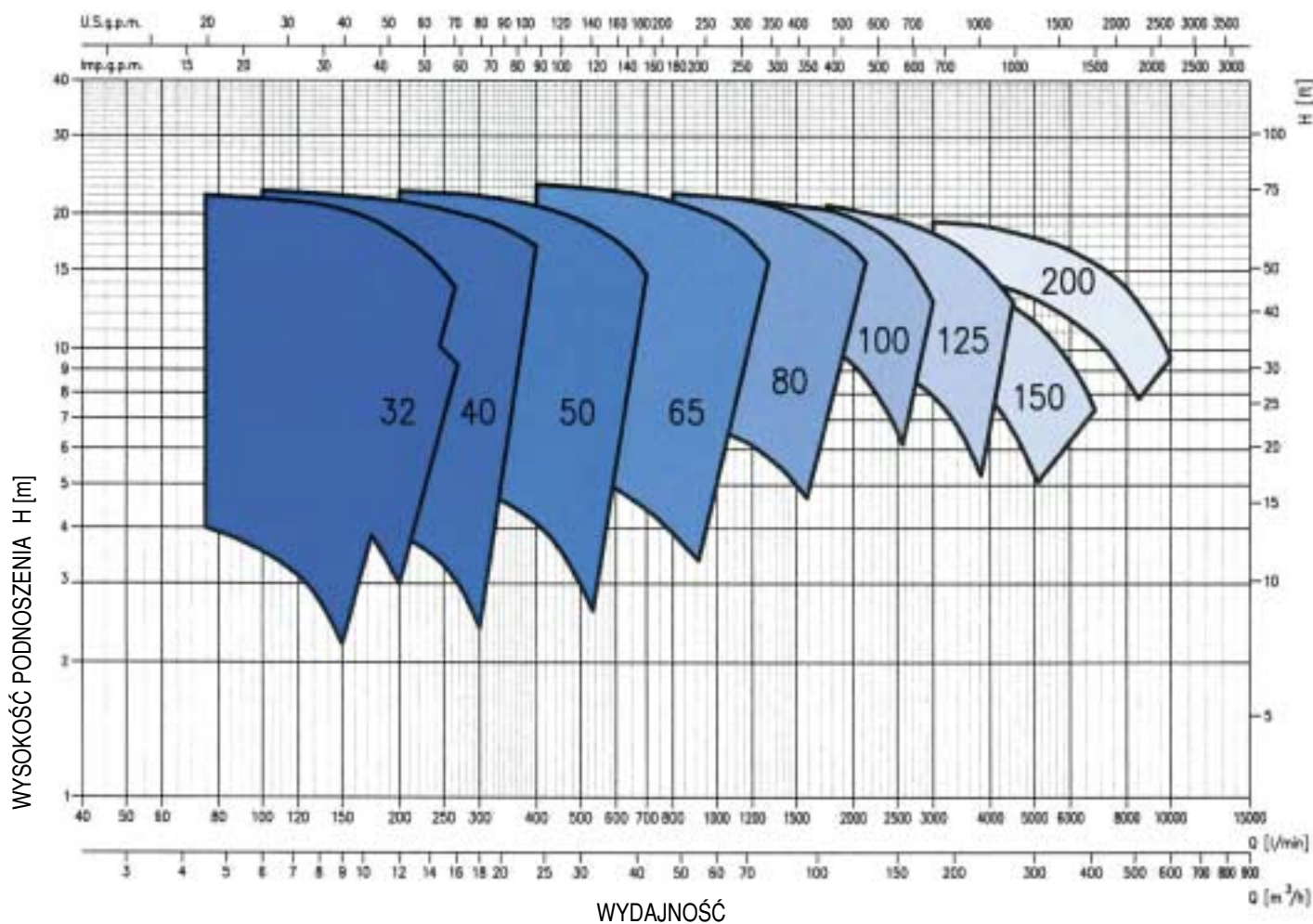
| Typ pompy       | Silnik |      | Q = Wydajność            |    |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------|--------|------|--------------------------|----|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                 |        |      | l/min                    | 0  | 800  | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750  | 3000 | 3500  | 4000 | 4500 |
|                 | kW     | HP   | m³/h                     | 0  | 48   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165   | 180  | 210   | 240  | 270  |
|                 |        |      | H = Wysokość podnoszenia |    |      |      |      |      |      |      |      |      |       |      |       |      |      |
| MMD 65-250/22   | 22     | 30   | 65                       | 64 | 63   | 61   | 57   | 53   | -    | -    | -    | -    | -     | -    | -     | -    | -    |
| MMD 65-250/30   | 30     | 40   | 78                       | 77 | 76   | 74   | 70   | 66   | 60   | 53*  | -    | -    | -     | -    | -     | -    | -    |
| MMD 65-250/37   | 37     | 55   | 86.5                     | 86 | 85   | 83   | 79   | 75   | 70   | 64*  | -    | -    | -     | -    | -     | -    | -    |
| MMD 80-160/10   | 10     | 13.6 | 24.6                     | -  | 24   | 23   | 22   | 21   | 19.5 | 18   | 16.5 | 15*  | -     | -    | -     | -    | -    |
| MMD 80-160/12.5 | 12.5   | 17   | 29.5                     | -  | 28.5 | 28   | 27   | 26   | 24.5 | 23   | 21.5 | 20   | 18.5* | -    | -     | -    | -    |
| MMD 80-160/15   | 15     | 20   | 35                       | -  | 34   | 33.3 | 32.5 | 31.8 | 31   | 29   | 27.5 | 26   | 24.3  | -    | -     | -    | -    |
| MMD 80-200/18.5 | 18.5   | 25   | 42.2                     | -  | 42   | 41   | 40   | 38.5 | 37   | 35   | 33   | 30.5 | 28    | -    | -     | -    | -    |
| MMD 80-200/22   | 22     | 30   | 47.2                     | -  | 47   | 46.5 | 45.5 | 44.5 | 43   | 41   | 39   | 37   | 34    | -    | -     | -    | -    |
| MMD 80-200/30   | 30     | 40   | 55.5                     | -  | 55   | 54   | 53   | 52   | 51   | 49   | 47   | 45   | 43    | 37   | -     | -    | -    |
| MMD 80-200/37   | 37     | 55   | 57.5                     | -  | 57   | 56.8 | 56.5 | 56   | 55   | 54   | 52.5 | 51   | 48    | 42   | -     | -    | -    |
| MMD 80-250/37   | 37     | 55   | 68.5                     | -  | -    | 67.5 | 67   | 66.2 | 65   | 63.3 | 61   | 58.3 | 55    | 47   | -     | -    | -    |
| MMD 100-200/22  | 22     | 30   | 40                       | -  | -    | -    | 38.5 | 38   | 37   | 36   | 34.5 | 33   | 31.5  | 28   | 24    | -    | -    |
| MMD 100-200/30  | 30     | 40   | 48                       | -  | -    | -    | 47   | 46.3 | 45.6 | 44.8 | 43.7 | 42.4 | 41    | 38   | 34.6* | 30** | -    |
| MMD 100-200/37  | 37     | 55   | 54.2                     | -  | -    | -    | 53.7 | 53.3 | 53   | 52   | 51   | 50   | 49    | 46   | 43*   | 38** | -    |

\* Wysokość ssania nie może przekroczyć - 2 m

\*\* Wysokość ssania +1m

## ZAKRES STOSOWANIA MMD4

2 bieguny



R.P.M.  $\approx 2900 \text{ min}^{-1}$   
dla wody o temp.  $20^\circ\text{C}$   
wg: ISO 9906 Aneks A



**TABELA DANYCH**

| Typ pompy          | Silnik |      | Q = Wydajność          |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|--------|------|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    | kW     | HP   | l/min                  | 0   | 50   | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1750 | 2000 | 2250 |
|                    |        |      | m³/h                   | 0   | 3    | 4.5  | 6    | 7.5  | 9    | 10.5 | 12   | 13.5 | 15   | 16.5 | 18   | 21   | 24   | 27   | 30   | 33   | 36   | 39   | 42   | 48   | 54   | 60   | 66   | 72   | 78   | 84   | 90   | 105  | 120  | 135  |
|                    |        |      | H=Wysokość podnoszenia |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MMD4 32-125/0,25 R | 0.25   | 0.33 | 4.8                    | 4.4 | 4    | 3.5  | 3    | 2.2  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 32-125/0,25   | 0.25   | 0.33 | 6.3                    | 6.2 | 6.1  | 5.8  | 5.3  | 4.6  | 3.8  | 3    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 32-160/0,37   | 0.37   | 0.5  | 9.6                    | -   | 9.2  | 8.9  | 8.3  | 7.7  | 6.8  | 5.8  | 4.7  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 32-200/0,75   | 0.75   | 1.0  | 13.5                   | -   | 12.8 | 12.4 | 11.9 | 11.3 | 10.6 | 9.8  | 8.9  | 8    | 7    | 6    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 32-200/0,92   | 0.92   | 1.25 | 15                     | -   | 14.6 | 14.3 | 13.8 | 13.3 | 12.7 | 11.8 | 10.9 | 10   | 9    | 8    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 32-250/1,1    | 1.1    | 1.5  | 19                     | -   | 18.5 | 18   | 17.5 | 17   | 15.9 | 14.5 | 12.8 | 11   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 32-125/1,5    | 1.5    | 2    | 22.5                   | -   | 22   | 21.6 | 21.2 | 20.5 | 19.4 | 18   | 16.5 | 15   | 13*  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-125/0,25   | 0.25   | 0.33 | 4.8                    | -   | -    | 4.6  | 4.5  | 4.3  | 4.1  | 3.9  | 3.6  | 3.3  | 2.9  | 2.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-125/0,37   | 0.37   | 0.5  | 6.4                    | -   | -    | 6.3  | 6.2  | 6.1  | 6    | 5.8  | 5.5  | 5.2  | 4.9  | 4.4  | 3*   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-160/0,55   | 0.55   | 0.75 | 9.2                    | -   | -    | 8.8  | 8.6  | 8.4  | 8.1  | 7.7  | 7.3  | 6.9  | 6.4  | 5.9  | 4.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-200/1,1 R  | 1.1    | 1.5  | 12.9                   | -   | -    | 12.7 | 12.5 | 12.1 | 11.7 | 11.2 | 10.7 | 10.1 | 9.5  | 8.5  | 6.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-200/1,1    | 1.1    | 1.5  | 14.5                   | -   | -    | 14.2 | 14   | 13.8 | 13.4 | 13   | 12.5 | 11.8 | 11   | 10.2 | 8.3  | 6    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-250/1,5    | 1.5    | 2    | 18.7                   | -   | -    | 18.3 | 18   | 17.7 | 17.4 | 17   | 16.7 | 16.2 | 15.6 | 15   | 13.7 | 12   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 40-250/2,2    | 2.2    | 3    | 23.2                   | -   | -    | 22.5 | 22.3 | 22   | 21.7 | 21.4 | 21.2 | 20.5 | 20.2 | 19.5 | 18.5 | 17   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-125/0,37   | 0.37   | 0.5  | 6.4                    | -   | -    | -    | -    | 6.3  | 6.3  | 6.2  | 6.1  | 6    | 5.9  | 5.5  | 5.2  | 4.9  | 4.4  | 4.1  | 3.6  | 3    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-125/0,55   | 0.55   | 0.75 | 6.5                    | -   | -    | -    | -    | 6.4  | 6.3  | 6.3  | 6.2  | 6.1  | 6    | 5.9  | 5.5  | 5.2  | 4.9  | 4.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-160/0,75   | 0.75   | 1.0  | 8.3                    | -   | -    | -    | -    | -    | 8.1  | 8    | 7.9  | 7.8  | 7.7  | 7.4  | 7    | 6.6  | 6    | 5.1  | 4    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-160/0,92   | 0.92   | 1.25 | 9.1                    | -   | -    | -    | -    | -    | 9    | 8.9  | 8.9  | 8.8  | 8.7  | 8.4  | 8.1  | 7.7  | 7.2  | 6.4  | 5.5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-200/1,1    | 1.1    | 1.5  | 12.6                   | -   | -    | -    | -    | -    | -    | 12.3 | 12.2 | 12   | 11.8 | 11.5 | 10.8 | 10   | 9    | 8    | 7    | 5.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-200/1,5    | 1.5    | 2    | 14.3                   | -   | -    | -    | -    | -    | 14.1 | 14   | 13.9 | 13.7 | 13.5 | 12.8 | 12   | 11.3 | 10.2 | 9    | 7.8  | 6.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-250/2,2    | 2.2    | 3    | 19.5                   | -   | -    | -    | -    | -    | 18.5 | 18.3 | 18.1 | 17.8 | 17.5 | 17   | 16.2 | 15.5 | 14.5 | 13.5 | 12.5 | 11.3 | 10   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 50-250/3      | 3      | 4    | 23                     | -   | -    | -    | -    | -    | 22.5 | 22.4 | 22.3 | 22.2 | 22   | 21.5 | 20.9 | 20.2 | 19.4 | 18.5 | 17.5 | 16.3 | 14.7 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| MMD4 65-125/0,75   | 0.75   | 1.0  | 6                      | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 5.8  | 5.7  | 5.6  | 5.5  | 5.3  | 5.1  | 4.9  | 4.6  | 4.4  | 3.9  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |      |
| MMD4 65-160/1,1    | 1.1    | 1.5  | 8.6                    | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 8.5  | 8.5  | 8.4  | 8.3  | 8.2  | 8.1  | 8    | 7.8  | 7.4  | 6.8  | 5.8  | 5    | -    | -    | -    | -    | -    | -    | -    | -    |      |
| MMD4 65-160/1,5    | 1.5    | 2    | 10.3                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 10.2 | 10.1 | 10   | 9.9  | 9.8  | 9.6  | 9.4  | 9.2  | 9    | 8.4  | 7.5  | 6.5  | -    | -    | -    | -    | -    | -    | -    | -    |      |
| MMD4 65-200/2,2    | 2.2    | 3    | 12.6                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 12.5 | 12.4 | 12.3 | 12.2 | 12.1 | 12   | 11.7 | 11.1 | 10.5 | 9.6  | 8.5  | -    | -    | -    | -    | -    | -    | -    |      |
| MMD4 65-200/3      | 3      | 4    | 15.4                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15.3 | 15.3 | 15.2 | 15.1 | 15   | 14.8 | 14.6 | 14.3 | 13.6 | 12.8 | 12   | 11   | -    | -    | -    | -    | -    | -    |      |
| MMD4 65-250/4      | 4      | 5.5  | 20                     | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 19.5 | 19.3 | 19.1 | 18.8 | 18.5 | 17.5 | 16.5 | 15.5 | 14   | 12.5 | 10.4 | -    | -    | -    | -    | -    |      |
| MMD4 65-250/5.5    | 5.5    | 7.5  | 23.3                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 23   | 22.8 | 22.6 | 22.4 | 22.2 | 21.4 | 20.6 | 19.7 | 18.7 | 17.3 | 15.7 | 14   | -    | -    | -    | -    |      |
| MMD4 80-160/1,5    | 1.5    | 2    | 8                      | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 7.7  | 7.6  | 7.5  | 7.3  | 7    | 6.7  | 6.4  | 6.1  | 5.7  | 5.4  | 5    | -    | -    | -    |      |
| MMD4 80-160/2,2    | 2.2    | 3    | 10                     | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 9.7  | 9.6  | 9.5  | 9.3  | 9    | 8.8  | 8.5  | 8.2  | 7.9  | 7.5  | 7.1  | 6    | -    | -    |      |
| MMD4 80-200/3      | 3      | 4    | 12.8                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 12   | 11.9 | 11.7 | 11.5 | 11.3 | 11   | 10.5 | 10   | 9.5  | 9    | 8.5  | 7    | -    | -    |      |
| MMD4 80-200/4      | 4      | 5.5  | 14.9                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 14.4 | 14.3 | 14.2 | 14   | 13.8 | 13.5 | 13.1 | 12.6 | 12.2 | 11.6 | 11   | 9    | 6.5  | -    |      |
| MMD4 80-250/5,5    | 5.5    | 7.5  | 20                     | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 19.2 | 18.9 | 18.5 | 18   | 17.6 | 17.1 | 16.5 | 16   | 14   | 12   | -    | -    |
| MMD4 80-250/7,5    | 7.5    | 10   | 23.5                   | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 22.3 | 22.1 | 21.9 | 21.7 | 21.3 | 21   | 20.5 | 20   | 18.5 | 16.9 | 14.5 |

**TABELA DANYCH**

| Typ pompy           | Silnik |      | Q = Wydajność            |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |      |       |   |  |
|---------------------|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|-------|------|------|------|------|------|------|------|------|-------|---|--|
|                     |        |      | l/min                    | 0    | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750  | 3000 | 3500 | 3700 | 4000 | 4500  | 5000 | 5500 | 6500 | 7000 | 8000 | 8500 | 9000 | 9500 | 10000 |   |  |
|                     | m³/h   | 0    | 54                       | 60   | 66   | 72   | 78   | 84   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 210   | 222  | 240  | 270  | 300  | 330   | 390  | 420  | 480  | 510  | 540  | 570  | 600  |      |       |   |  |
|                     | kW     | HP   | H = Wysokość podnoszenia |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |      |       |   |  |
| MMD4 100-200/4      | 4      | 5.5  | 13                       | 12.3 | 12.2 | 12   | 11.8 | 11.6 | 11.4 | 11.2 | 10.3 | 9.3  | 8    | 6.6  | 4.8* | -     | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 100-200/5,5    | 5.5    | 7.5  | 14.7                     | 14.5 | 14.4 | 14.2 | 14   | 13.8 | 13.6 | 13.4 | 12.8 | 12   | 11   | 9.8  | 8.5  | -     | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 100-250/7,5    | 7.5    | 10   | 20                       | -    | 19.5 | 19.3 | 19.1 | 18.9 | 18.7 | 18.5 | 17.5 | 16.5 | 15.2 | 14   | 12   | -     | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 100-250/9,2    | 9.2    | 12.5 | 22.4                     | -    | 22   | 21.9 | 21.8 | 21.7 | 21.6 | 21.5 | 20.5 | 19.5 | 18.5 | 17   | 15   | 12.8* | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 125-200/5,5    | 5.5    | 5.5  | 11.2                     | -    | -    | -    | -    | -    | -    | 10.5 | 10.3 | 9.9  | 9.5  | 9.1  | 8.5  | 7.9   | 6.4  | 5.7  | -    | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 125-200/7,5 R  | 7.5    | 10   | 12.4                     | -    | -    | -    | -    | -    | -    | 11.8 | 11.6 | 11.3 | 11   | 10.6 | 10.2 | 9.6   | 8.3  | 7.7  | 6.7  | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 125-200/7,5    | 7.5    | 10   | 13.7                     | -    | -    | -    | -    | -    | -    | -    | 12.9 | 12.7 | 12.4 | 12.1 | 11.7 | 11.2  | 10.1 | 9.6  | 8.7  | 7.1* | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 125-200/9,2    | 9.2    | 12.5 | 15                       | -    | -    | -    | -    | -    | -    | -    | 14.3 | 14.1 | 13.8 | 13.6 | 13.2 | 12.8  | 11.8 | 11.3 | 10.6 | 9.2  | 7.6** | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 125-250/11     | 11     | 15   | 18.6                     | -    | -    | -    | -    | -    | -    | -    | 17.2 | 16.7 | 16.2 | 15.5 | 14.8 | 13.9  | 12   | 11.3 | 10   | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 125-250/15     | 15     | 20   | 22                       | -    | -    | -    | -    | -    | -    | -    | 21   | 20.5 | 20.1 | 19.5 | 18.9 | 18.2  | 16.6 | 16   | 14.8 | 12.8 | -     | -    | -    | -    | -    | -    | -    | -    | -    | -     | - |  |
| MMD4 150-200/7,5    | 7.5    | 10   | 11.6                     | -    | -    | -    | -    | -    | -    | -    | -    | 11   | 10.7 | 10.4 | 10.1 | 9.7   | 8.8  | 8.4  | 7.8  | 6.6  | 5.3   | -    | -    | -    | -    | -    | -    | -    | -    | -     |   |  |
| MMD4 150-200/9,2    | 9.2    | 12.5 | 12.5                     | -    | -    | -    | -    | -    | -    | -    | -    | 12   | 11.8 | 11.6 | 11.2 | 10.9  | 10.2 | 9.8  | 9.2  | 8    | 6.8   | 5.6  | -    | -    | -    | -    | -    | -    | -    | -     |   |  |
| MMD4 150-200/11     | 11     | 15   | 14.5                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 13.7 | 13.5 | 13.2  | 12.5 | 12.2 | 11.7 | 10.8 | 9.8   | 8.7  | 6.1  | -    | -    | -    | -    | -    | -    | -     |   |  |
| MMD4 150-200/15     | 15     | 20   | 15.8                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15.2 | 14.9 | 14.7  | 14.2 | 13.8 | 13.4 | 12.5 | 11.6  | 10.5 | 8.2  | 6.8  | -    | -    | -    | -    | -    | -     |   |  |
| MMD4 200-250/18,5 R | 18.5   | 25   | 16                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 14.9  | 14.5 | 14.3 | 14.1 | 13.6 | 13    | 12.3 | 11   | 10.3 | 8.6  | 7.8  | -    | -    | -    | -     |   |  |
| MMD4 200-250/18,5   | 18.5   | 25   | 16.9                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15.9  | 15.5 | 15.3 | 15.2 | 14.7 | 14.2  | 13.6 | 12.3 | 11.6 | 10   | 9.1  | 8.2  | -    | -    | -     |   |  |
| MMD4 200-250/22 R   | 22     | 30   | 19.3                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -     | 18   | 17.8 | 17.6 | 17.1 | 16.6  | 16   | 14.7 | 13.9 | 12.2 | 11.2 | 10.1 | 9    | -    | -     |   |  |
| MMD4 200-250/22     | 22     | 30   | 20.4                     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -     | 19.1 | 18.9 | 18.8 | 18.3 | 17.8  | 17.3 | 16   | 15.3 | 13.7 | 12.7 | 11.7 | 10.7 | 9.6  | -     |   |  |



Czterocalowe pompy głębinowe, odśrodkowe z wirnikami oraz kierownicami wykonanymi z Norylu. Płaszcz zewnętrzny oraz pokrywy górna i dolna wykonane ze stali nierdzewnej AISI 304. Przeznaczone do wydobywania wody ze studni głębinowych oraz pracy w domowych oraz przemysłowych instalacjach wodociągowych. Możliwość instalacji zarówno pionowej, jak i poziomej



### SPECYFIKACJA

- Maksymalna głębokość zanurzenia: 100 m
- Maksymalna temperatura medium:  
30°C (silnik wypełniony wodą)  
40°C (silnik wypełniony olejem)
- Maksymalna zawartość piasku w wodzie: 50 ppm

### MATERIAŁY

- Obudowa zewnętrzna, filtr i obudowa dyfuzora: AISI 304
- Wirnik i dyfuzor: technopolimer
- Wał: AISI 304
- Mechaniczne uszczelnienie wału: węgiel/ceramika/NBR

### DANE TECHNICZNE

- Silnik dwubiegunowy, wypełniony wodą (wersja WY) lub olejem (wersja OY)
- Maksymalna liczba uruchomień na godz.: 30
- Klasa izolacji F
- Stopień ochrony IP58
- Zasilanie: 1~ 220V±6% 50Hz, 3~380V± 6% 50Hz
- DNM1" dla wielkości A-B-C, 2" dla wielkości D-E

### CHARAKTERYSTYKA TECHNICZNA

Pompy przystosowane są do przyłączenia silników głębinowych zgodnych z normą NEMA. Udoskonalona konstrukcja wirników oraz dyfuzorów tych pomp spowodowała znaczny wzrost ich odporności na ścieranie (z wyjątkiem serii E15) oraz dodatkowo:

- zredukowany nacisk poosiowy na wał zwiększył przeciętną żywotność silnika,
- zmniejszona w stosunku do innych pomp zewnętrzna średnica wirników pozwoliła na zmniejszenie liczby stopni przy zachowaniu podobnej charakterystyki hydraulicznej pompy,
- pozwoliła na zwiększenie dopuszczalnej zawartości piasku w wodzie.

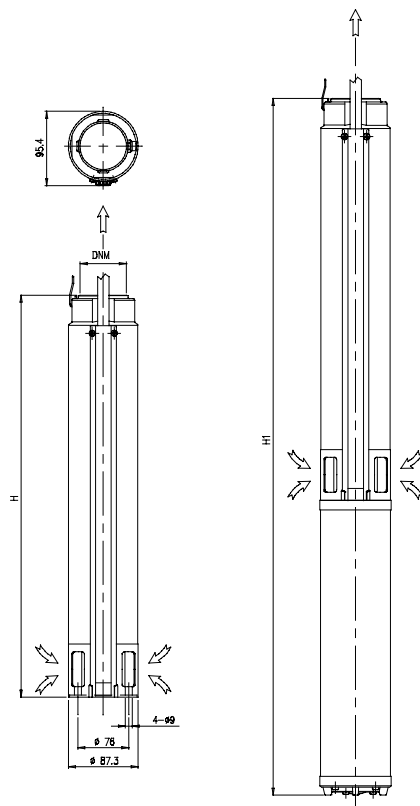
Wbudowany zawór zwrotny daje się łatwo demontować i serwisować.

Komponenty pompy zostały przewymiarowane umożliwiając zastosowanie w nawet najtrudniejszych warunkach.

**TABELA DANYCH**

| Typ pompy                |                         | kW   | Kondensator |                | Prąd pobierany (A) |            |
|--------------------------|-------------------------|------|-------------|----------------|--------------------|------------|
| Jednofazowa<br>220V 50Hz | Trojfazowa<br>380V 50Hz |      | μF          | V <sub>c</sub> | 1~<br>220V         | 3~<br>380V |
| WYM 050 A1/14            | WYT 050 A1/14           | 0,37 | 16          | 450            | 3,3                | 1,5        |
| WYM 075 A1/21            | WYT 075 A1/21           | 0,55 | 20          | 450            | 5,1                | 2,2        |
| WYM 100 A1/28            | WYT 100 A1/28           | 0,75 | 30          | 450            | 6                  | 2,8        |
| WYM 050 B2/7             | WYT 050 B2/7            | 0,37 | 16          | 450            | 3,3                | 1,5        |
| WYM 075 B2/10            | WYT 075 B2/10           | 0,55 | 20          | 450            | 5,1                | 2,2        |
| WYM 100 B2/14            | WYT 100 B2/14           | 0,75 | 30          | 450            | 6                  | 2,8        |
| WYM 150 B2/21            | WYT 150 B2/21           | 1,1  | 40          | 450            | 8,7                | 3,7        |
| WYM 200 B2/28            | WYT 200 B2/28           | 1,5  | 60          | 450            | 11,2               | 4,8        |
| WYM 300 B2/40            | WYT 300 B2/40           | 2,2  | 80          | 450            | 16,7               | 6,9        |
| WYM 050 C4/4             | WYT 050 C4/4            | 0,37 | 16          | 450            | 3,3                | 1,5        |
| WYM 075 C4/6             | WYT 075 C4/6            | 0,55 | 20          | 450            | 5,1                | 2,2        |
| WYM 100 C4/9             | WYT 100 C4/9            | 0,75 | 30          | 450            | 6                  | 2,8        |
| WYM 150 C4/13            | WYT 150 C4/13           | 1,1  | 40          | 450            | 8,7                | 3,7        |
| WYM 200 C4/18            | WYT 200 C4/18           | 1,5  | 60          | 450            | 11,2               | 4,8        |
| WYM 300 C4/27            | WYT 300 C4/27           | 2,2  | 80          | 450            | 16,7               | 6,9        |
| WYM 100 C5/7             | WYT 100 C5/7            | 0,75 | 30          | 450            | 6                  | 2,8        |
| WYM 150 C5/10            | WYT 150 C5/10           | 1,1  | 40          | 450            | 8,7                | 3,7        |
| WYM 200 C5/14            | WYT 200 C5/14           | 1,5  | 60          | 450            | 11,2               | 4,8        |
| WYM 300 C5/21            | WYT 300 C5/21           | 2,2  | 80          | 450            | 16,7               | 6,9        |
| -                        | WYT 400 C5/28           | 3,0  | -           | -              | -                  | 9,6        |
| -                        | WYT 550 C5/38           | 4,0  | -           | -              | -                  | 10,9       |
| WYM 075 D9/4             | WYT 075 D9/4            | 0,55 | 20          | 450            | 5,1                | 2,2        |
| WYM 100 D9/5             | WYT 100 D9/5            | 0,75 | 30          | 450            | 6                  | 2,8        |
| WYM 150 D9/7             | WYT 150 D9/7            | 1,1  | 40          | 450            | 8,7                | 3,7        |
| WYM 200 D9/9             | WYT 200 D9/9            | 1,5  | 60          | 450            | 11,2               | 4,8        |
| WYM 300 D9/14            | WYT 300 D9/14           | 2,2  | 80          | 450            | 16,7               | 6,9        |
| -                        | WYT 400 D9/19           | 3,0  | -           | -              | -                  | 9,6        |
| -                        | WYT 550 D9/26           | 4,0  | -           | -              | -                  | 10,9       |
| WYM 150 E15/4            | WYT 150 E15/4           | 1,1  | 40          | 450            | 8,7                | 3,7        |
| WYM 200 E15/6            | WYT 200 E15/6           | 1,5  | 60          | 450            | 11,2               | 4,8        |
| WYM 300 E15/9            | WYT 300 E15/9           | 2,2  | 80          | 450            | 16,7               | 6,9        |
| -                        | WYT 400 E15/12          | 3,0  | -           | -              | -                  | 9,6        |
| -                        | WYT 550 E15/16          | 4,0  | -           | -              | -                  | 10,9       |
| -                        | -                       | 5,5  | -           | -              | -                  | 13,5       |

| Typ pompy                |                         | kW   | Kondensator |                | Prąd pobierany (A) |            |
|--------------------------|-------------------------|------|-------------|----------------|--------------------|------------|
| Jednofazowa<br>220V 50Hz | Trojfazowa<br>380V 50Hz |      | μF          | V <sub>c</sub> | 1~<br>220V         | 3~<br>380V |
| OYM 050 A1/14            | OYT 050 A1/14           | 0,37 | 20          | 450            | 3,2                | 1,4        |
| OYM 075 A1/21            | OYT 075 A1/21           | 0,55 | 25          | 450            | 4,4                | 1,8        |
| OYM 100 A1/28            | OYT 100 A1/28           | 0,75 | 35          | 450            | 5,6                | 2,5        |
| OYM 050 B2/7             | OYT 050 B2/7            | 0,37 | 20          | 450            | 3,2                | 1,4        |
| OYM 075 B2/10            | OYT 075 B2/10           | 0,55 | 25          | 450            | 4,4                | 1,8        |
| OYM 100 B2/14            | OYT 100 B2/14           | 0,75 | 35          | 450            | 5,6                | 2,5        |
| OYM 150 B2/21            | OYT 150 B2/21           | 1,1  | 40          | 450            | 7,7                | 3,3        |
| OYM 200 B2/28            | OYT 200 B2/28           | 1,5  | 60          | 450            | 10,8               | 4,4        |
| OYM 300 B2/40            | OYT 300 B2/40           | 2,2  | 80          | 450            | 15,1               | 6,1        |
| OYM 050 C4/4             | OYT 050 C4/4            | 0,37 | 20          | 450            | 3,2                | 1,4        |
| OYM 075 C4/6             | OYT 075 C4/6            | 0,55 | 25          | 450            | 4,4                | 1,8        |
| OYM 100 C4/9             | OYT 100 C4/9            | 0,75 | 35          | 450            | 5,6                | 2,5        |
| OYM 150 C4/13            | OYT 150 C4/13           | 1,1  | 40          | 450            | 7,7                | 3,3        |
| OYM 200 C4/18            | OYT 200 C4/18           | 1,5  | 60          | 450            | 10,8               | 4,4        |
| OYM 300 C4/27            | OYT 300 C4/27           | 2,2  | 80          | 450            | 15,1               | 6,1        |
| OYM 100 C5/7             | OYT 100 C5/7            | 0,75 | 35          | 450            | 5,6                | 2,5        |
| OYM 150 C5/10            | OYT 150 C5/10           | 1,1  | 40          | 450            | 7,7                | 3,3        |
| OYM 200 C5/14            | OYT 200 C5/14           | 1,5  | 60          | 450            | 10,8               | 4,4        |
| OYM 300 C5/21            | OYT 300 C5/21           | 2,2  | 80          | 450            | 15,1               | 6,1        |
| -                        | OYT 400 C5/28           | 3,0  | -           | -              | -                  | 8,8        |
| -                        | OYT 550 C5/38           | 4,0  | -           | -              | -                  | 11         |
| OYM 075 D9/4             | OYT 075 D9/4            | 0,55 | 25          | 450            | 4,4                | 1,8        |
| OYM 100 D9/5             | OYT 100 D9/5            | 0,75 | 35          | 450            | 5,6                | 2,5        |
| OYM 150 D9/7             | OYT 150 D9/7            | 1,1  | 40          | 450            | 7,7                | 3,3        |
| OYM 200 D9/9             | OYT 200 D9/9            | 1,5  | 60          | 450            | 10,8               | 4,4        |
| OYM 300 D9/14            | OYT 300 D9/14           | 2,2  | 80          | 450            | 15,1               | 6,1        |
| -                        | OYT 400 D9/19           | 3,0  | -           | -              | -                  | 8,8        |
| -                        | OYT 550 D9/26           | 4,0  | -           | -              | -                  | 11         |
| OYM 150 E15/4            | OYT 150 E15/4           | 1,1  | 40          | 450            | 7,7                | 3,3        |
| OYM 200 E15/6            | OYT 200 E15/6           | 1,5  | 60          | 450            | 10,8               | 4,4        |
| OYM 300 E15/9            | OYT 300 E15/9           | 2,2  | 80          | 450            | 15,1               | 6,1        |
| -                        | OYT 400 E15/12          | 3,0  | -           | -              | -                  | 8,8        |
| -                        | OYT 550 E15/16          | 4,0  | -           | -              | -                  | 11         |
| -                        | OYT 750 E15/22          | 5,5  | -           | -              | -                  | 14,4       |

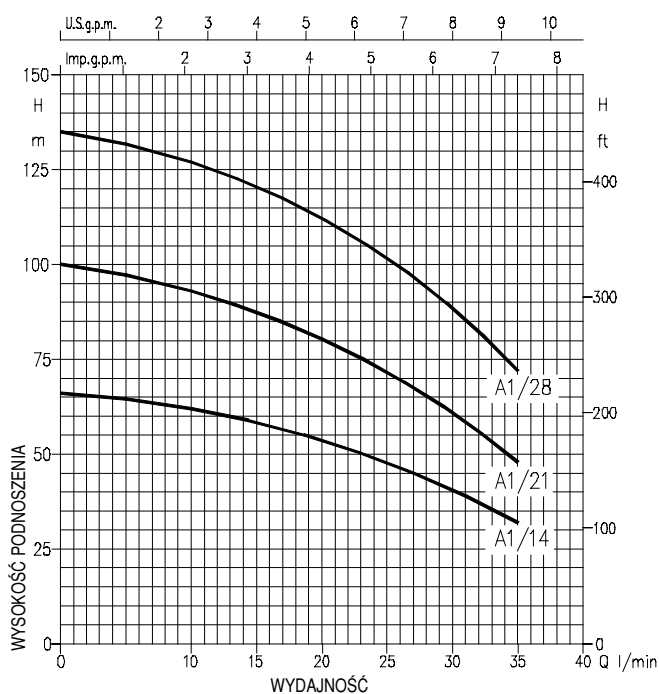


**TABELA WYMIARÓW**

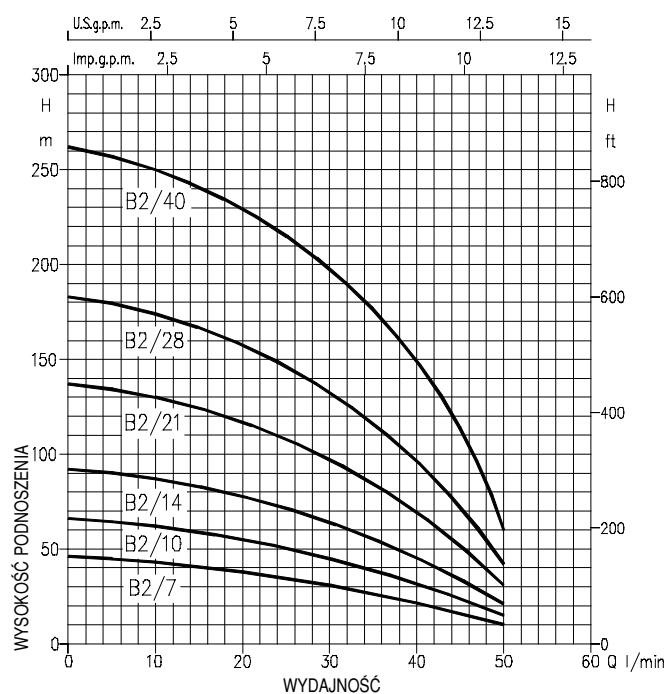
| Typ pompy<br>WINNER | Wymiary (mm) |        |        |        |        |         |      |      |      |      |
|---------------------|--------------|--------|--------|--------|--------|---------|------|------|------|------|
|                     | H1           |        |        |        |        | Masa kg |      |      |      |      |
|                     | H            | OYM    | OYT    | WYM    | WYT    | DNM     | OYM  | OYT  | WYM  | WYT  |
| A1/14               | 588,5        | 910    | 910    | 860    | 845    | G1 1/4  | 12,9 | 12,3 | 13,9 | 13,3 |
| A1/21               | 736          | 1082,5 | 1057,5 | 1032,5 | 1007,5 | G1 1/4  | 15,8 | 14,7 | 16,7 | 15,7 |
| A1/28               | 941          | 1322,5 | 1287,5 | 1272,5 | 1237,5 | G1 1/4  | 20,3 | 18,7 | 21,2 | 19,6 |
| B2/7                | 401          | 722,5  | 722,5  | 672,5  | 657,5  | G1 1/4  | 11,2 | 10,6 | 12,2 | 11,6 |
| B2/10               | 473          | 819,5  | 794,5  | 769,5  | 744,5  | G1 1/4  | 13,2 | 12,1 | 14,1 | 13,1 |
| B2/14               | 568,5        | 950    | 915    | 900    | 865    | G1 1/4  | 16,1 | 14,5 | 17   | 15,4 |
| B2/21               | 736          | 1152,5 | 1117,5 | 1102,5 | 1067,5 | G1 1/4  | 19,6 | 18   | 20,2 | 18,8 |
| B2/28               | 941          | 1407,5 | 1357,5 | 1357,5 | 1307,5 | G1 1/4  | 24,6 | 22,4 | 25,2 | 23   |
| B2/40               | 1228         | 1804,5 | 1694,5 | 1704,5 | 1644,5 | G1 1/4  | 30,2 | 28,2 | 31,5 | 28,8 |
| C4/4                | 337,5        | 659    | 659    | 609    | 594    | G1 1/4  | 10,3 | 9,7  | 11,3 | 10,7 |
| C4/6                | 389,5        | 736    | 711    | 686    | 661    | G1 1/4  | 12,1 | 11   | 13   | 12   |
| C4/9                | 467          | 848,5  | 813,5  | 798,5  | 763,5  | G1 1/4  | 14,8 | 13,2 | 15,7 | 14,1 |
| C4/13               | 570,5        | 987    | 952    | 937    | 902    | G1 1/4  | 17,5 | 15,9 | 18,1 | 16,7 |
| C4/18               | 700          | 1166,5 | 1116,5 | 1116,5 | 1066,5 | G1 1/4  | 21,2 | 19   | 21,8 | 19,6 |
| C4/27               | 971          | 1547,5 | 1437,5 | 1447,5 | 1387,5 | G1 1/4  | 26,2 | 24,2 | 27,5 | 24,8 |
| C5/7                | 513,5        | 895    | 860    | 845    | 810    | G1 1/4  | 14,3 | 12,7 | 15,2 | 13,6 |
| C5/10               | 633          | 1049,5 | 1014,5 | 999,5  | 964,5  | G1 1/4  | 17   | 15,4 | 17,6 | 16,2 |
| C5/14               | 793          | 1259,5 | 1209,5 | 1209,5 | 1159,5 | G1 1/4  | 20,5 | 18,3 | 21,1 | 18,9 |
| C5/21               | 1110         | 1686,5 | 1576,5 | 1586,5 | 1526,5 | G1 1/4  | 24,2 | 22,2 | 25,5 | 22,8 |
| C5/28               | 1389,5       | -      | 1966   | -      | 1891   | G1 1/4  | -    | 29,9 | -    | 30,9 |
| C5/38               | 1788,5       | -      | 2435   | -      | 2360   | G1 1/4  | -    | 36,9 | -    | 37,5 |
| D9/4                | 417,5        | 764    | 739    | 714    | 689    | G2      | 12,2 | 11,1 | 13,1 | 12,1 |
| D9/5                | 463,5        | 845    | 810    | 795    | 760    | G2      | 14,3 | 12,7 | 15,2 | 13,6 |
| D9/7                | 555          | 971,5  | 936,5  | 921,5  | 886,5  | G2      | 17   | 15,4 | 17,6 | 16,2 |
| D9/9                | 647          | 1113,5 | 1063,5 | 1063,5 | 1013,5 | G2      | 20,5 | 18,3 | 21,1 | 18,9 |
| D9/14               | 876,5        | 1453   | 1343   | 1353   | 1293   | G2      | 24,7 | 22,7 | 26   | 23,3 |
| D9/19               | 1144         | -      | 1720,5 | -      | 1645,5 | G2      | -    | 30   | -    | 31   |
| D9/26               | 1465,5       | -      | 2112   | -      | 2037   | G2      | -    | 36,4 | -    | 37   |
| E15/4               | 539          | 955,5  | 920,5  | 905,5  | 870,5  | G2      | 17   | 15,4 | 17,6 | 16,2 |
| E15/6               | 730          | 1196,5 | 1146,5 | 1146,5 | 1069,5 | G2      | 21,3 | 19,1 | 21,9 | 19,7 |
| E15/9               | 997,5        | 1574   | 1464   | 1474   | 1414   | G2      | 27,2 | 25,2 | 28,5 | 25,8 |
| E15/12              | 1265         | -      | 1841,5 | -      | 1766,5 | G2      | -    | 34   | -    | 35   |
| E15/16              | 1571         | -      | 2217,5 | -      | 2142,5 | G2      | -    | 38,9 | -    | 39,5 |
| E15/22              | 2068         | -      | 2842,5 | -      | 2749,5 | G2      | -    | 48   | -    | 48,6 |

### Charakterystyki hydrauliczne (w/g ISO 9906 Aneks A)

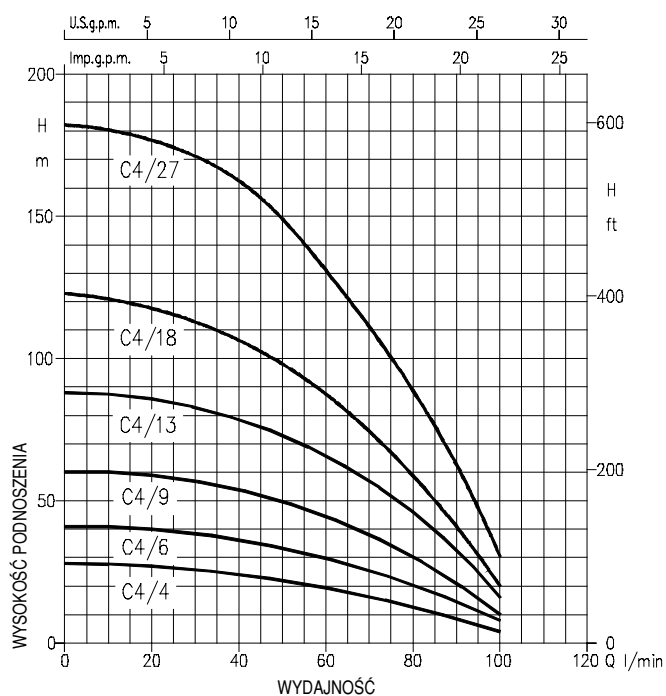
**A1**



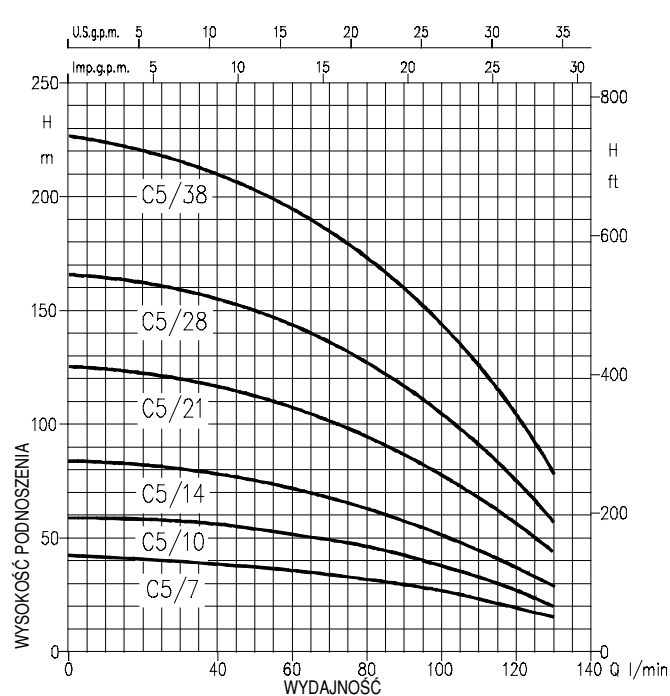
**B2**



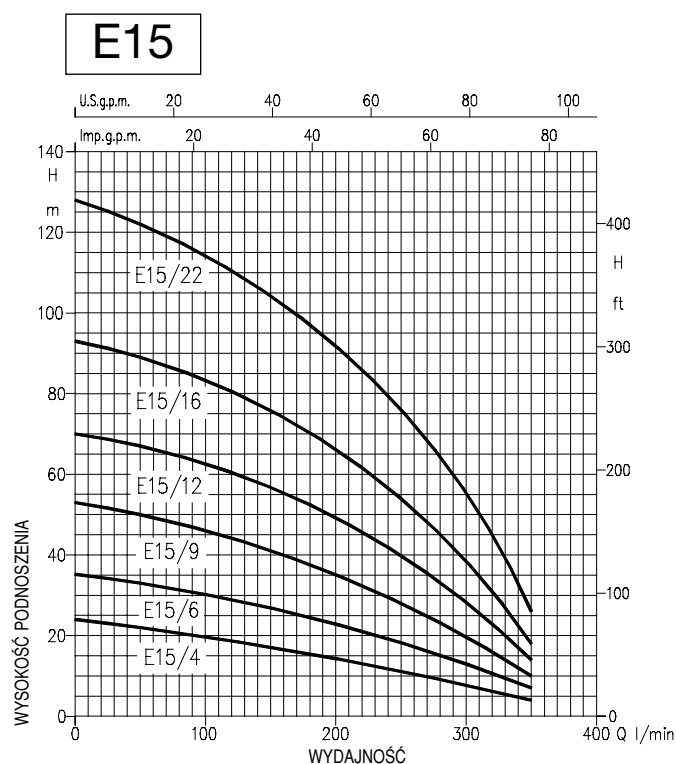
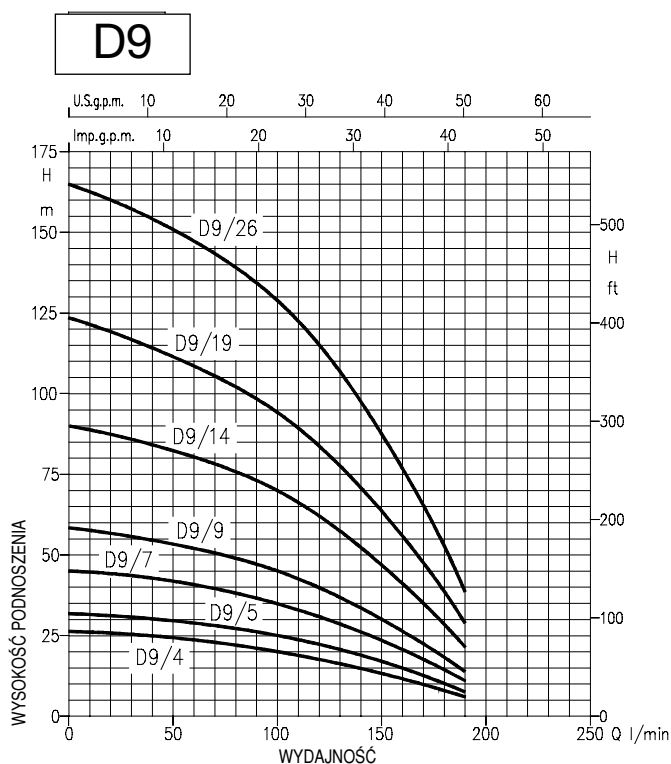
**C4**



**C5**



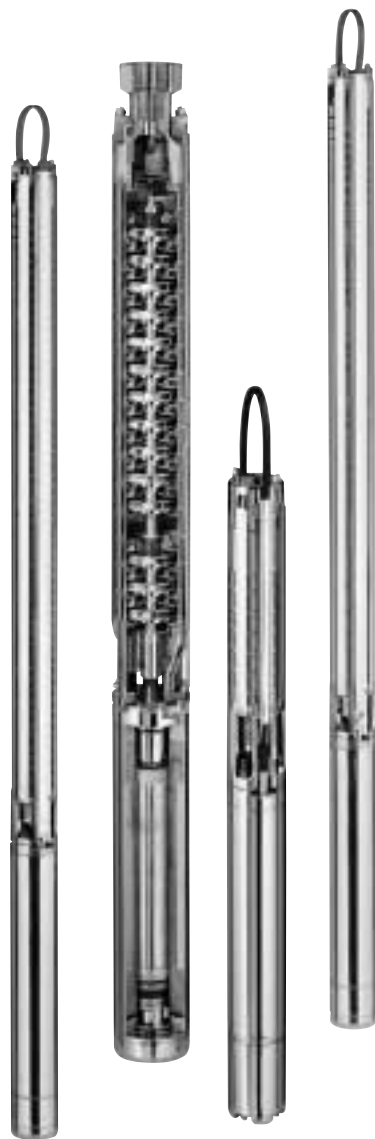
### Charakterystyki hydrauliczne (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy<br>Winner<br>wy – oy | kW   | Q=Wydajność   |       |       |       |       |     |       |     |       |       |       |       |       |      |     |      |      |      |      |     |
|--------------------------------|------|---------------|-------|-------|-------|-------|-----|-------|-----|-------|-------|-------|-------|-------|------|-----|------|------|------|------|-----|
|                                |      | l/min<br>m³/h | 10    | 15    | 20    | 25    | 30  | 35    | 40  | 50    | 60    | 80    | 100   | 130   | 150  | 160 | 190  | 200  | 250  | 300  | 350 |
|                                |      |               | 0,6   | 0,9   | 1,2   | 1,5   | 1,8 | 2,1   | 2,4 | 3     | 3,6   | 4,8   | 6     | 7,8   | 9    | 9,6 | 11,4 | 12   | 15   | 18   | 21  |
| H=Wysokość podnoszenia (m)     |      |               |       |       |       |       |     |       |     |       |       |       |       |       |      |     |      |      |      |      |     |
| 050 A1/14                      | 0,37 | 62            | 58,4  | 53,6  | 47,7  | 40,5  | 32  | -     | -   | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 075 A1/21                      | 0,55 | 93            | 87,4  | 80,3  | 71,6  | 60,9  | 48  | -     | -   | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 100 A1/28                      | 0,75 | 127           | 120,5 | 112,1 | 101,6 | 88,5  | 72  | -     | -   | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 050 B2/7                       | 0,37 | 43            | 40,7  | 37,9  |       | 30,8  |     | 21,5  | 10  | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 075 B2/10                      | 0,55 | 62            | 58,9  | 55    |       | 44,9  |     | 31,7  | 15  | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 100 B2/14                      | 0,75 | 87            | 82,9  | 77,7  |       | 63,9  |     | 42,5  | 21  | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 150 B2/21                      | 1,1  | 130           | 124,3 | 116,9 |       | 97,2  |     | 69,3  | 31  | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 200 B2/28                      | 1,5  | 174           | 166,7 | 157,6 |       | 132,6 |     | 96,3  | 42  | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 300 B2/40                      | 2,2  | 250           | 240,8 | 229,3 |       | 197,7 |     | 149,2 | 60  | -     | -     | -     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 050 C4/4                       | 0,37 |               |       | 27    |       | 25,8  |     | 24,1  | -   | 19,4  | 12,7  | 4     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 075 C4/6                       | 0,55 |               |       | 40    |       | 38,5  |     | 36,3  | -   | 29,9  | 20,5  | 8     | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 100 C4/9                       | 0,75 |               |       | 59    |       | 57    |     | 53,9  | -   | 44,5  | 30,2  | 10    | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 150 C4/13                      | 1,1  |               |       | 86    |       | 82,8  |     | 78,6  | -   | 65,8  | 46    | 16    | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 200 C4/18                      | 1,5  |               |       | 118   |       | 112,7 |     | 106,4 | -   | 87,5  | 59,4  | 20    | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 300 C4/27                      | 2,2  |               |       | 177   |       | 170,9 |     | 162,5 | -   | 131   | 88,8  | 30    | -     | -     | -    | -   | -    | -    | -    | -    |     |
| 100 C5/7                       | 0,75 |               |       |       |       | 40    |     | 38,5  | -   | 35,8  | 31,8  | 26,8  | 15    | -     | -    | -   | -    | -    | -    | -    |     |
| 150 C5/10                      | 1,1  |               |       |       |       | 57    |     | 56,1  | -   | 51,6  | 46,2  | 37,8  | 20    | -     | -    | -   | -    | -    | -    | -    |     |
| 200 C5/14                      | 1,5  |               |       |       |       | 80    |     | 78,1  | -   | 71,8  | 62,9  | 51,3  | 28    | -     | -    | -   | -    | -    | -    | -    |     |
| 300 C5/21                      | 2,2  |               |       |       |       | 120   |     | 116,5 | -   | 107,4 | 94,5  | 76,8  | 44    | -     | -    | -   | -    | -    | -    | -    |     |
| 400 C5/28                      | 3,0  |               |       |       |       | 159   |     | 155   | -   | 143,6 | 127   | 104,3 | 57    | -     | -    | -   | -    | -    | -    | -    |     |
| 550 C5/38                      | 4,0  |               |       |       |       | 215   |     | 209,7 | -   | 194,6 | 173,1 | 143,9 | 79    | -     | -    | -   | -    | -    | -    | -    |     |
| 075 D9/4                       | 0,55 |               |       |       |       |       |     | 25    | -   | 23,7  | 22,1  | 20,1  | 16,3  |       | 11,6 | 6   | -    | -    | -    | -    |     |
| 100 D9/5                       | 0,75 |               |       |       |       |       |     | 30    | -   | 28,9  | 27,2  | 25,1  | 20,7  |       | 14,9 | 7   | -    | -    | -    | -    |     |
| 150 D9/7                       | 1,1  |               |       |       |       |       |     | 42    | -   | 40,9  | 38,2  | 35    | 28,7  |       | 20,7 | 11  | -    | -    | -    | -    |     |
| 200 D9/9                       | 1,5  |               |       |       |       |       |     | 55    | -   | 52,1  | 49,1  | 45,1  | 36,9  |       | 26,4 | 14  | -    | -    | -    | -    |     |
| 300 D9/14                      | 2,2  |               |       |       |       |       |     | 84    | -   | 80,5  | 76    | 70,1  | 57,5  |       | 40,9 | 22  | -    | -    | -    | -    |     |
| 400 D9/19                      | 3,0  |               |       |       |       |       |     | 114   | -   | 108,8 | 102,4 | 94,4  | 77,8  |       | 56   | 29  | -    | -    | -    | -    |     |
| 550 D9/26                      | 4,0  |               |       |       |       |       |     | 154   | -   | 147,6 | 139,4 | 129,1 | 107,1 |       | 76,9 | 38  | -    | -    | -    | -    |     |
| 150 E15/4                      | 1,1  |               |       |       |       |       |     |       | 22  |       |       | 19,7  |       | 17,2  |      |     |      | 14,3 | 11,2 | 7,7  | 4   |
| 200 E15/6                      | 1,5  |               |       |       |       |       |     |       | 33  |       |       | 30,2  |       | 26,9  |      |     |      | 22,9 | 18,2 | 13   | 7   |
| 300 E15/9                      | 2,2  |               |       |       |       |       |     |       | 50  |       |       | 46,1  |       | 41,1  |      |     |      | 35,1 | 28   | 19,7 | 10  |
| 400 E15/12                     | 3,0  |               |       |       |       |       |     |       | 67  |       |       | 62,7  |       | 56,8  |      |     |      | 49,2 | 39,9 | 28,3 | 14  |
| 550 E15/16                     | 4,0  |               |       |       |       |       |     |       | 89  |       |       | 83,4  |       | 75,9  |      |     |      | 66,3 | 54   | 38,5 | 18  |
| 750 E15/22                     | 5,5  |               |       |       |       |       |     |       | 122 |       |       | 114,3 |       | 104,3 |      |     |      | 91,9 | 76   | 55,4 | 26  |

Czterocalowe pompy głębinowe, wielostopniowe wykonane całkowicie ze stali nierdzewnej AISI 304. Wyjątkowo gładka powierzchnia wirników i dyfuzorów jest gwarancją dużej sprawności pompy. Typowe zastosowanie to wydobywanie wody ze studni głębinowych; w instalacjach wodociągowych zarówno domowych, jak i przemysłowych. Przystosowane do silników w/g standardu NEMA. Możliwość instalacji zarówno pionowej, jak i poziomej



### SPECYFIKACJA

- Maksymalne zanurzenie: 150 m
- Maksymalna temperatura medium: 30°C
- Maksymalna zawartość piasku: 50 ppm

### MATERIAŁY

- Obudowa, kosz ssawny, złączka, wirniki, dyfuzory, pokrywy dyfuzorów, zawór zwrotny: AISI 304
- Wał: AISI 316
- Pierścienie bieżne: technopolimer/AISI 304

### DANE TECHNICZNE

Pompy mogą na życzenie klienta być wyposażone w dwa rodzaje silnika:

- Pompy O4 BHS z silnikiem OY z płynem chłodzącym
  - Pompy W4 BHS z silnikiem WY wypełnione wodą
- Obydwa rodzaje silnika posiadają następujące cechy charakterystyczne:
- Silnik dwubiegunowy, wypełniony wodą (wersja WY) lub olejem (wersja OY)
  - Maksymalna liczba uruchomień na godz.: 30
  - Klasa izolacji F (wersja OY), B (wersja WY)
  - Stopień ochrony IP58
  - Zasilanie: 1~ 220V+ 6% – 10% 50Hz,  
3~400V + 6% – 10% 50Hz

### TABELA WYMIARÓW

| Typ pompy<br>Jednofazowa<br>220V 50Hz | kW   | Kondensator |                |     | Prąd pobierany (A)  |      |
|---------------------------------------|------|-------------|----------------|-----|---------------------|------|
|                                       |      | μF          | V <sub>c</sub> |     | Jednofazowy<br>230V |      |
|                                       |      | W           | O              |     | W                   | O    |
| 4BHS2 13/5M                           | 0,55 | 20          | 25             | 450 | 4,8                 | 4,5  |
| 4BHS2 18/7M                           | 0,75 | 30          | 35             | 450 | 5,6                 | 6,0  |
| 4BHS2 27/11M                          | 1,1  | 40          | 40             | 450 | 9,7                 | 8,2  |
| 4BHS2 36/15M                          | 1,5  | 60          | 60             | 450 | 12,0                | 11,0 |
| 4BHS2 44/22M                          | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| 4BHS2 51/22M                          | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| 4BHS4 7/5M                            | 0,55 | 20          | 25             | 450 | 4,8                 | 4,5  |
| 4BHS4 10/7M                           | 0,75 | 30          | 35             | 450 | 5,6                 | 6,0  |
| 4BHS4 15/11M                          | 1,1  | 40          | 40             | 450 | 9,7                 | 8,2  |
| 4BHS4 20/15M                          | 1,5  | 60          | 60             | 450 | 12,0                | 11,0 |
| 4BHS4 24/22M                          | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| 4BHS4 29/22M                          | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| -                                     | -    | -           | -              | -   | -                   | -    |
| -                                     | -    | -           | -              | -   | -                   | -    |
| 4BHS7 4/7M                            | 0,75 | 30          | 35             | 450 | 5,6                 | 6,0  |
| 4BHS7 7/11M                           | 1,1  | 40          | 40             | 450 | 9,7                 | 8,2  |
| 4BHS7 10/15M                          | 1,5  | 60          | 60             | 450 | 12,0                | 11,0 |
| 4BHS7 12/22M                          | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| 4BHS7 14/22M                          | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| -                                     | -    | -           | -              | -   | -                   | -    |
| -                                     | -    | -           | -              | -   | -                   | -    |
| 4BHS15 7/15M                          | 1,5  | 60          | 60             | 450 | 12,0                | 11,0 |
| 4BHS15 10/22M                         | 2,2  | 80          | 80             | 450 | 16,6                | 14,8 |
| -                                     | -    | -           | -              | -   | -                   | -    |
| -                                     | -    | -           | -              | -   | -                   | -    |
| -                                     | -    | -           | -              | -   | -                   | -    |

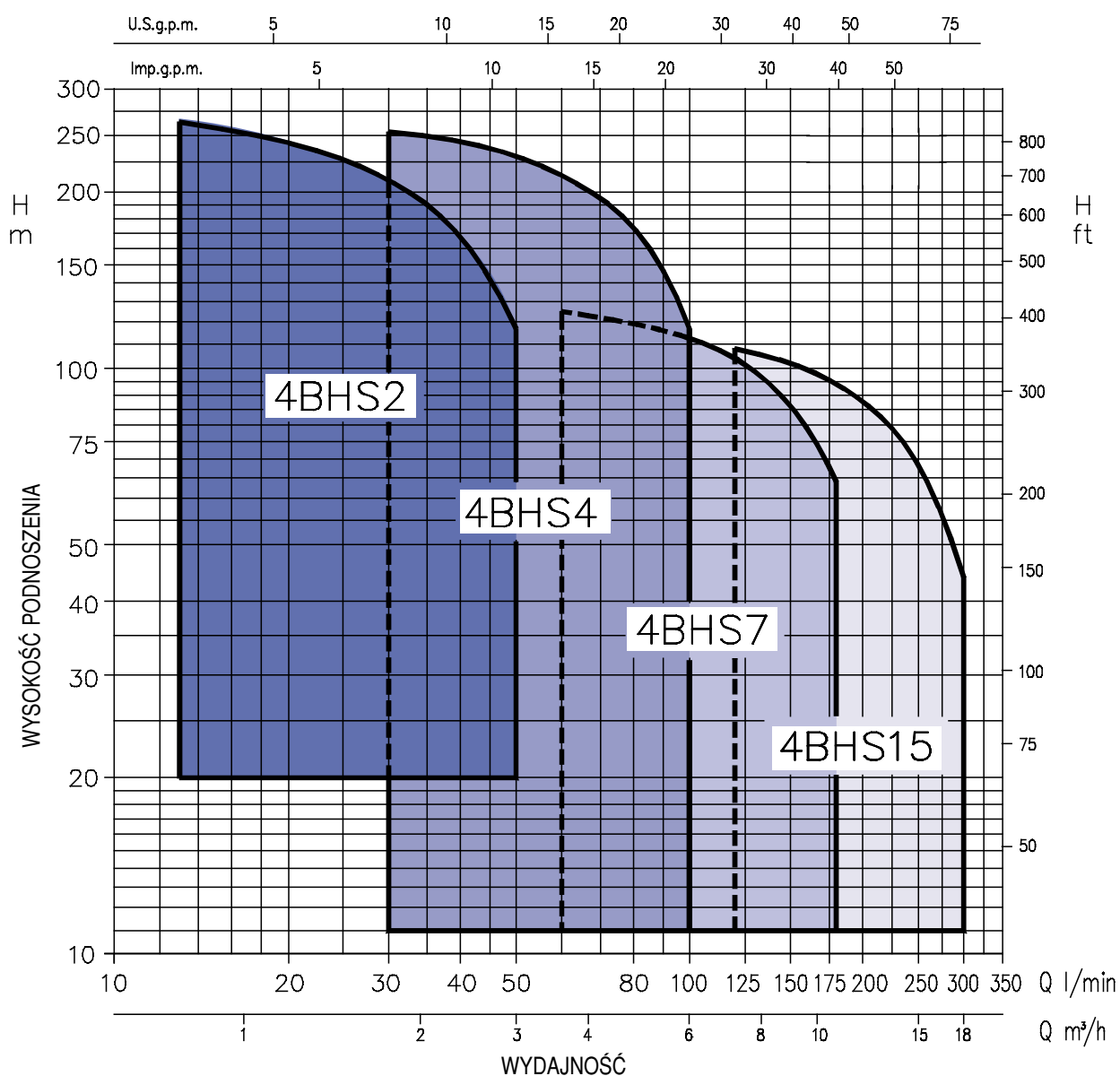
### TABELA WYMIARÓW

| Typ pompy<br>Trójfazowa<br>380V 50Hz | kW   | Prąd pobierany (A) |      |
|--------------------------------------|------|--------------------|------|
|                                      |      | W                  | O    |
| 4BHS2 13/5                           | 0,55 | 1,9                | 2,0  |
| 4BHS2 18/7                           | 0,75 | 2,4                | 2,6  |
| 4BHS2 27/11                          | 1,1  | 3,2                | 3,4  |
| 4BHS2 36/15                          | 1,5  | 4,3                | 4,6  |
| 4BHS2 44/22                          | 2,2  | 5,8                | 6,2  |
| 4BHS2 51/22                          | 2,2  | 5,8                | 6,2  |
| 4BHS4 7/5                            | 0,55 | 1,9                | 2,0  |
| 4BHS4 10/7                           | 0,75 | 2,4                | 2,6  |
| 4BHS4 15/11                          | 1,1  | 3,2                | 3,4  |
| 4BHS4 20/15                          | 1,5  | 4,3                | 4,6  |
| 4BHS4 24/22                          | 2,2  | 5,8                | 6,2  |
| 4BHS4 29/22                          | 2,2  | 5,8                | 6,2  |
| 4BHS4 36/30                          | 3,0  | 7,7                | 8,0  |
| 4BHS4 48/40                          | 4,0  | 10,1               | 10,2 |
| 4BHS7 4/7                            | 0,75 | 2,4                | 2,6  |
| 4BHS7 7/11                           | 1,1  | 3,2                | 3,4  |
| 4BHS7 10/15                          | 1,5  | 4,3                | 4,6  |
| 4BHS7 12/22                          | 2,2  | 5,8                | 6,2  |
| 4BHS7 14/22                          | 2,2  | 5,8                | 6,2  |
| 4BHS7 18/30                          | 3,0  | 7,7                | 8,0  |
| 4BHS7 23/40                          | 4,0  | 10,1               | 10,2 |
| 4BHS15 7/15                          | 1,5  | 4,3                | 4,6  |
| 4BHS15 10/22                         | 2,2  | 5,8                | 6,2  |
| 4BHS15 13/30                         | 3,0  | 7,7                | 8,0  |
| 4BHS15 17/40                         | 4,0  | 10,1               | 10,2 |
| 4BHS15 25/55                         | 5,5  | 13,8               | 14,4 |

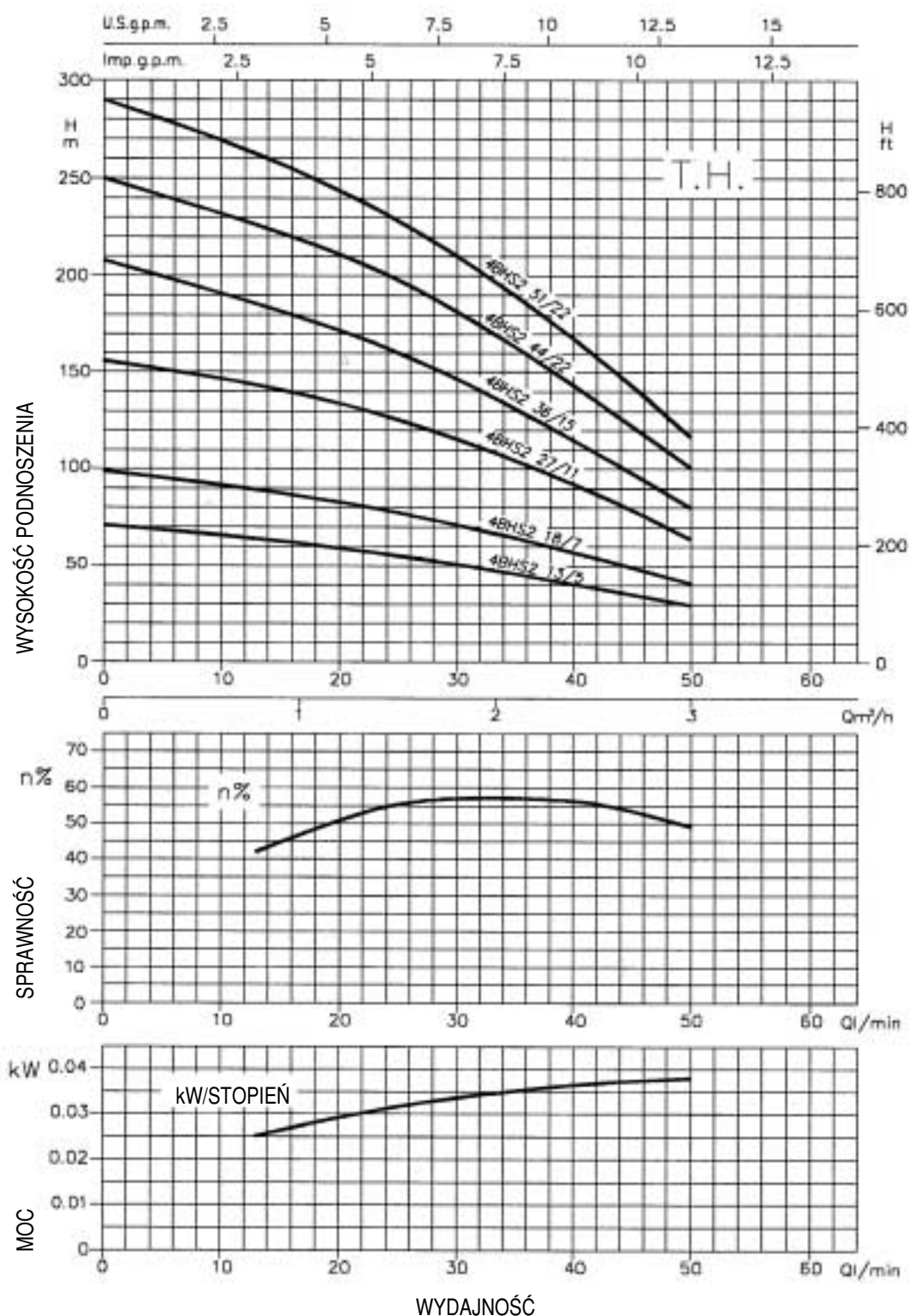
| Typ pompy<br>4BHS | kW   | l/min<br>m³/h | Q=Wydajność                |       |       |       |       |       |      |      |      |      |
|-------------------|------|---------------|----------------------------|-------|-------|-------|-------|-------|------|------|------|------|
|                   |      |               | 13                         | 30    | 40    | 50    | 60    | 100   | 120  | 180  | 250  | 300  |
|                   |      |               | 0,8                        | 1,8   | 2,4   | 3,0   | 3,6   | 6     | 7,2  | 10,8 | 15   | 18   |
|                   |      |               | H=Wysokość podnoszenia (m) |       |       |       |       |       |      |      |      |      |
| 4BHS2 13/5        | 0,55 |               | 65                         | 52    | 41    | 29,5  | -     | -     | -    | -    | -    | -    |
| 4BHS2 18/7        | 0,75 |               | 90                         | 71    | 58    | 41    | -     | -     | -    | -    | -    | -    |
| 4BHS2 27/11       | 1,1  |               | 143                        | 114   | 92    | 64    | -     | -     | -    | -    | -    | -    |
| 4BHS2 36/15       | 1,5  |               | 186                        | 145   | 116   | 80    | -     | -     | -    | -    | -    | -    |
| 4BHS2 44/22       | 2,2  |               | 227                        | 178,7 | 141   | 97    | -     | -     | -    | -    | -    | -    |
| 4BHS2 51/22       | 2,2  |               | 275                        | 222,8 | 181   | 125   | -     | -     | -    | -    | -    | -    |
| 4BHS4 7/5         | 0,55 |               | -                          | 37    | 36    | 34    | 31,5  | 18,5  | -    | -    | -    | -    |
| 4BHS4 10/7        | 0,75 |               | -                          | 53    | 52,5  | 48    | 45    | 26    | -    | -    | -    | -    |
| 4BHS4 15/11       | 1,1  |               | -                          | 79    | 76    | 72    | 66,5  | 39    | -    | -    | -    | -    |
| 4BHS4 20/15       | 1,5  |               | -                          | 105   | 102   | 96    | 89    | 50    | -    | -    | -    | -    |
| 4BHS4 24/22       | 2,2  |               | -                          | 126   | 122   | 115   | 106   | 61    | -    | -    | -    | -    |
| 4BHS4 29/22       | 2,2  |               | -                          | 154   | 150   | 141,5 | 132   | 76    | -    | -    | -    | -    |
| 4BHS4 36/30       | 3,0  |               | -                          | 189   | 178   | 170   | 156,5 | 85    | -    | -    | -    | -    |
| 4BHS4 48/40       | 4,0  |               | -                          | 253   | 241,1 | 227   | 210   | 109,4 | -    | -    | -    | -    |
| 4BHS7 5/7         | 0,75 |               | -                          | -     | -     | -     | 28    | 25    | 23   | 13,5 | -    | -    |
| 4BHS7 7/11        | 1,1  |               | -                          | -     | -     | -     | 38,5  | 35,5  | 32,5 | 20   | -    | -    |
| 4BHS7 10/15       | 1,5  |               | -                          | -     | -     | -     | 54    | 49,5  | 45   | 27   | -    | -    |
| 4BHS7 12/22       | 2,2  |               | -                          | -     | -     | -     | 65    | 59    | 54   | 33   | -    | -    |
| 4BHS7 14/22       | 2,2  |               | -                          | -     | -     | -     | 77    | 70    | 64   | 41   | -    | -    |
| 4BHS7 18/30       | 3,0  |               | -                          | -     | -     | -     | 100   | 90    | 82,5 | 51   | -    | -    |
| 4BHS7 23/40       | 4,0  |               | -                          | -     | -     | -     | 125   | 114   | 104  | 64   | -    | -    |
| 4BHS15 7/15       | 1,5  |               | -                          | -     | -     | -     | -     | -     | 30   | 27   | 18,5 | 12   |
| 4BHS15 10/22      | 2,2  |               | -                          | -     | -     | -     | -     | -     | 43,5 | 38   | 28,5 | 17,5 |
| 4BHS15 13/30      | 3,0  |               | -                          | -     | -     | -     | -     | -     | 55   | 47,5 | 36,1 | 25   |
| 4BHS15 17/40      | 4,0  |               | -                          | -     | -     | -     | -     | -     | 72   | 63   | 45   | 29   |
| 4BHS15 25/55      | 5,5  |               | -                          | -     | -     | -     | -     | -     | 108  | 95   | 68,2 | 44   |



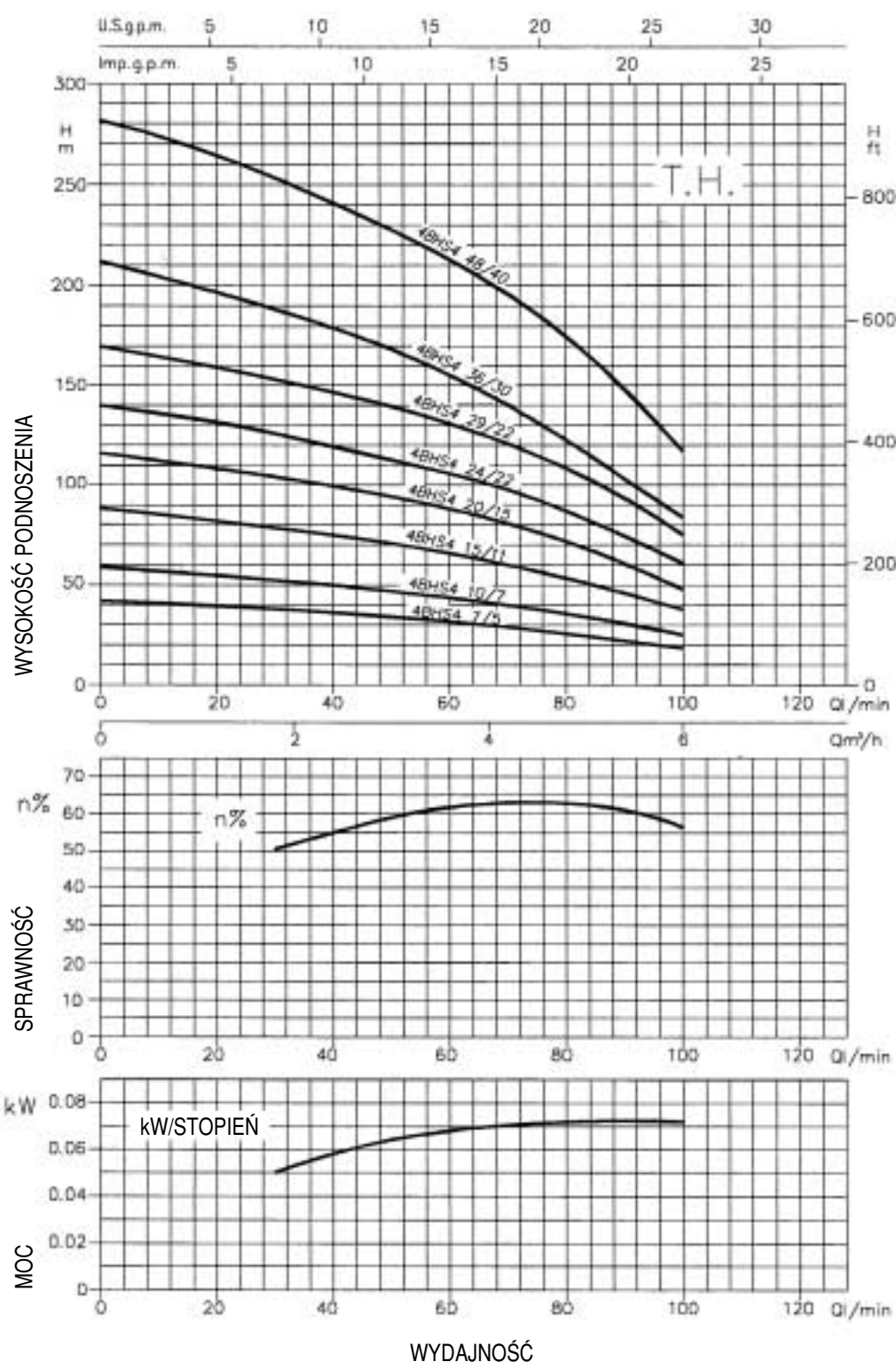
## ZAKRES STOSOWANIA (w/g ISO 9906 Aneks A)



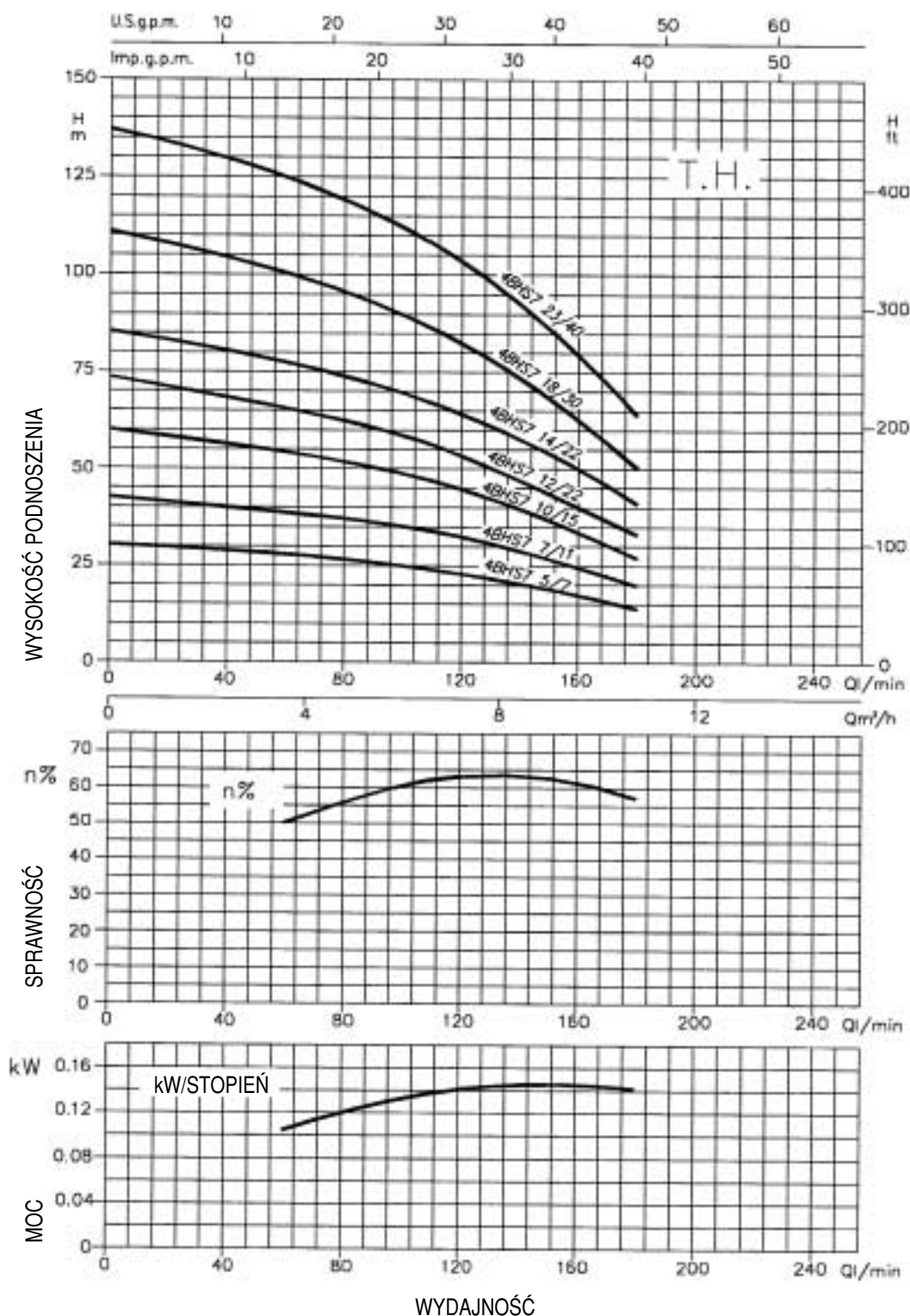
## CHARAKTERYSTYKI HYDRAULICZNE seria 4BHS 2 (w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE seria 4BHS 4 (w/g ISO 9906 Aneks A)

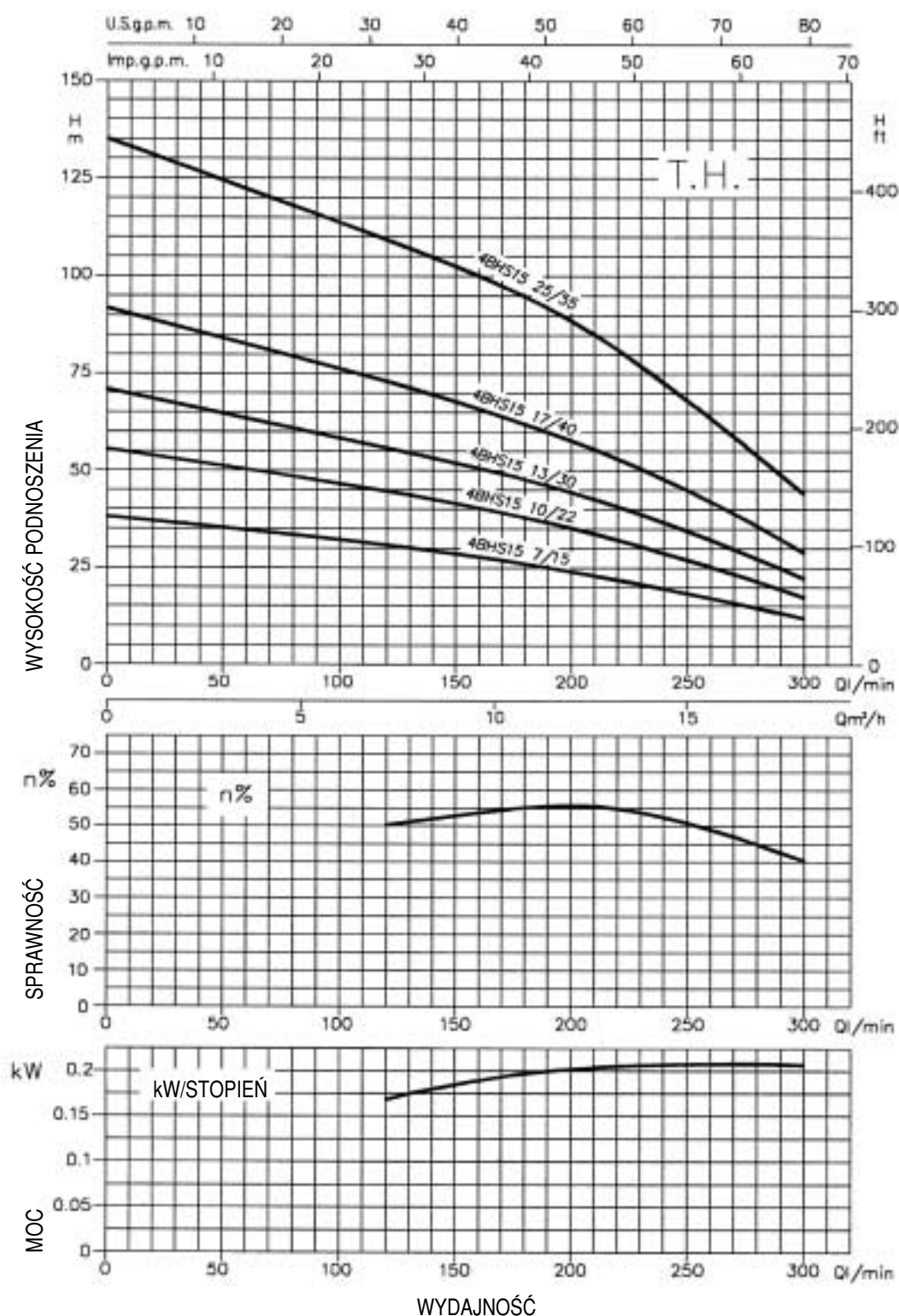


## CHARAKTERYSTYKI HYDRAULICZNE seria 4BHS 7 (w/g ISO 9906 Aneks A)





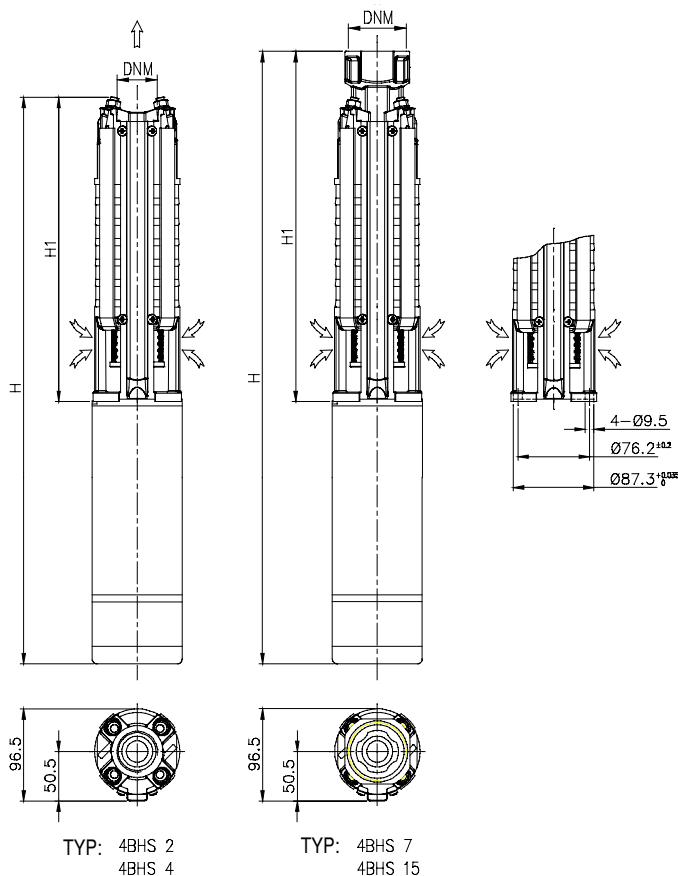
## CHARAKTERYSTYKI HYDRAULICZNE seria 4BHS 15 (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy<br>silnik O |              | Wymiary (mm) |       |        |        | Masa kg |      |             |
|-----------------------|--------------|--------------|-------|--------|--------|---------|------|-------------|
| Jednofazowa           | Trójfazowa   | H            |       | H1     | DNM    |         |      |             |
|                       |              | 1~           | 3~    |        |        | 1~      | 3~   | tylko pompa |
| 4BHS2 13/5M           | 4BHS2 13/5   | 802          | 802   | 480,5  | G1 1/4 | 13,6    | 13   | 6           |
| 4BHS2 18/7M           | 4BHS2 18/7   | 953          | 928   | 606,5  | G1 1/4 | 16,9    | 15,8 | 8,2         |
| 4BHS2 27/11M          | 4BHS2 27/11  | 1177         | 1142  | 795,5  | G1 1/4 | 21,4    | 19,8 | 11,1        |
| 4BHS2 36/15M          | 4BHS2 36/15  | 1422         | 1387  | 1005,5 | G1 1/4 | 25,8    | 24,2 | 13,8        |
| 4BHS2 44/22M          | 4BHS2 44/22  | 1711         | 1661  | 1194,5 | G1 1/4 | 32      | 30,7 | 16,5        |
| 4BHS2 51/22M          | 4BHS2 51/22  | 1858         | 1808  | 1341,5 | G1 1/4 | 34,8    | 33,5 | 19,3        |
| 4BHS4 7/5M            | 4BHS4 7/5    | 676          | 676   | 354,5  | G1 1/2 | 12,1    | 11,5 | 4,5         |
| 4BHS4 10/7M           | 4BHS4 10/7   | 764          | 739   | 417,5  | G1 1/2 | 14,5    | 13,4 | 5,8         |
| 4BHS4 15/11M          | 4BHS4 15/11  | 904          | 869   | 522,5  | G1 1/2 | 18      | 16,4 | 7,7         |
| 4BHS4 20/15M          | 4BHS4 20/15  | 1065         | 1030  | 648,5  | G1 1/2 | 21,4    | 19,8 | 9,4         |
| 4BHS4 24/22M          | 4BHS4 24/22  | 1249         | 1199  | 732,5  | G1 1/2 | 26,7    | 25,4 | 11,2        |
| 4BHS4 29/22M          | 4BHS4 29/22  | 1375         | 1325  | 858,5  | G1 1/2 | 28,3    | 27   | 12,8        |
| -                     | 4BHS4 36/30  | -            | 1582  | 1005,5 | G1 1/2 | -       | 37   | 15,5        |
| -                     | 4BHS4 48/40  | -            | 1855  | 1278,5 | G1 1/2 | -       | 42,2 | 20,2        |
| 4BHS7 5/7M            | 4BHS7 5/7    | 770          | 745   | 423,5  | G2     | 13,2    | 12,1 | 4,5         |
| 4BHS7 7/11M           | 4BHS7 7/11   | 868          | 833   | 486,5  | G2     | 15,5    | 13,9 | 5,2         |
| 4BHS7 10/15M          | 4BHS7 10/15  | 997,5        | 962,5 | 581    | G2     | 18,3    | 16,7 | 6,3         |
| 4BHS7 12/22M          | 4BHS7 12/22  | 1192         | 1142  | 675,5  | G2     | 22,5    | 21,2 | 7           |
| 4BHS7 14/22M          | 4BHS7 14/22  | 1255         | 1205  | 738,5  | G2     | 23,3    | 22   | 7,8         |
| -                     | 4BHS7 18/30  | -            | 1441  | 864,5  | G2     | -       | 31   | 9,5         |
| -                     | 4BHS7 23/40  | -            | 1630  | 1053,5 | G2     | -       | 33,8 | 11,8        |
| 4BHS15 7/15M          | 4BHS15 7/15  | 987          | 952   | 570,5  | G2     | 17,4    | 15,8 | 5,4         |
| 4BHS15 10/22M         | 4BHS15 10/22 | 1255         | 1205  | 738,5  | G2     | 22,3    | 21   | 6,8         |
| -                     | 4BHS15 13/30 | -            | 1441  | 864,5  | G2     | -       | 29,7 | 8,2         |
| -                     | 4BHS15 17/40 | -            | 1651  | 1074,5 | G2     | -       | 32,5 | 10,5        |
| -                     | 4BHS15 25/55 | -            | 2099  | 1452,5 | G2     | -       | 36,4 | 14          |

| Typ pompy<br>silnik W |              | Wymiary (mm) |        |        |        | Masa kg |      |             |
|-----------------------|--------------|--------------|--------|--------|--------|---------|------|-------------|
| Jednofazowa           | Trójfazowa   | H            |        | H1     | DNM    |         |      |             |
|                       |              | 1~           | 3~     |        |        | 1~      | 3~   | tylko pompa |
| 4BHS2 13/5M           | 4BHS2 13/5   | 773,5        | 753,5  | 480,5  | G1 1/4 | 14,5    | 13,8 | 6           |
| 4BHS2 18/7M           | 4BHS2 18/7   | 929,5        | 899,5  | 606,5  | G1 1/4 | 18,2    | 16,8 | 8,2         |
| 4BHS2 27/11M          | 4BHS2 27/11  | 1152,5       | 1118,5 | 795,5  | G1 1/4 | 22,9    | 20,6 | 11,1        |
| 4BHS2 36/15M          | 4BHS2 36/15  | 1413,5       | 1362,5 | 1005,5 | G1 1/4 | 27,5    | 24,9 | 13,8        |
| 4BHS2 44/22M          | 4BHS2 44/22  | 1677,5       | 1602,5 | 1194,5 | G1 1/4 | 32,9    | 30,3 | 16,5        |
| 4BHS2 51/22M          | 4BHS2 51/22  | 1824,5       | 1749,5 | 1341,5 | G1 1/4 | 35,7    | 33,1 | 19,3        |
| 4BHS4 7/5M            | 4BHS4 7/5    | 647,5        | 627,5  | 354,5  | G1 1/2 | 13      | 12,3 | 4,5         |
| 4BHS4 10/7M           | 4BHS4 10/7   | 740,5        | 710,5  | 417,5  | G1 1/2 | 15,8    | 14,4 | 5,8         |
| 4BHS4 15/11M          | 4BHS4 15/11  | 879,5        | 845,5  | 522,5  | G1 1/2 | 19,5    | 17,2 | 7,7         |
| 4BHS4 20/15M          | 4BHS4 20/15  | 1056,5       | 1005,5 | 648,5  | G1 1/2 | 23,1    | 20,5 | 9,4         |
| 4BHS4 24/22M          | 4BHS4 24/22  | 1215,5       | 1140,5 | 732,5  | G1 1/2 | 27,6    | 25   | 11,2        |
| 4BHS4 29/22M          | 4BHS4 29/22  | 1341,5       | 1266,5 | 858,5  | G1 1/2 | 29,2    | 26,6 | 12,8        |
| -                     | 4BHS4 36/30  | -            | 1518   | 1005,5 | G1 1/2 | -       | 32,8 | 15,5        |
| -                     | 4BHS4 48/40  | -            | 1831   | 1278,5 | G1 1/2 | -       | 41,4 | 20,2        |
| 4BHS7 5/7M            | 4BHS7 5/7    | 746,5        | 716,5  | 423,5  | G2     | 14,5    | 13,1 | 4,5         |
| 4BHS7 7/11M           | 4BHS7 7/11   | 843,5        | 809,5  | 486,5  | G2     | 17      | 14,7 | 5,2         |
| 4BHS7 10/15M          | 4BHS7 10/15  | 989          | 938    | 581    | G2     | 20      | 17,4 | 6,3         |
| 4BHS7 12/22M          | 4BHS7 12/22  | 1158,5       | 1083,5 | 675,5  | G2     | 23,4    | 20,8 | 7           |
| 4BHS7 14/22M          | 4BHS7 14/22  | 1221,5       | 1146,5 | 738,5  | G2     | 24,2    | 21,6 | 7,8         |
| -                     | 4BHS7 18/30  | -            | 1377   | 864,5  | G2     | -       | 26,8 | 9,5         |
| -                     | 4BHS7 23/40  | -            | 1606   | 1053,5 | G2     | -       | 33   | 11,8        |
| 4BHS15 7/15M          | 4BHS15 7/15  | 978,5        | 927,5  | 570,5  | G2     | 19,1    | 16,5 | 5,4         |
| 4BHS15 10/22M         | 4BHS15 10/22 | 1221,5       | 1146,5 | 738,5  | G2     | 23,2    | 20,6 | 6,8         |
| -                     | 4BHS15 13/30 | -            | 1377   | 864,5  | G2     | -       | 25,5 | 8,2         |
| -                     | 4BHS15 17/40 | -            | 1627   | 1074,5 | G2     | -       | 31,7 | 10,5        |
| -                     | 4BHS15 25/55 | -            | 2125   | 1452,5 | G2     | -       | 40,2 | 14          |



#### DOBÓR KABLA ZASILAJĄCEGO

Przykład: silnik 1,1 kW – 220V, jednofazowy – kabel dł. 39 m – 4x2,5 mm<sup>2</sup>

| Silnik                     | kW   | HP   | Typ kabla i jego max. długość |       |       |     |     |      |
|----------------------------|------|------|-------------------------------|-------|-------|-----|-----|------|
|                            |      |      | 4x1                           | 4x1.5 | 4x2.5 | 4x4 | 4x6 | 4x10 |
| Jednofazowy<br>220V – 50Hz | 0.37 | 0.5  | 50                            | 75    | 125   | -   | -   | -    |
|                            | 0.55 | 0.75 | 38                            | 57    | 95    | 152 | -   | -    |
|                            | 0.75 | 1    | 30                            | 45    | 75    | 120 | 174 | -    |
|                            | 1.1  | 1.5  | 22                            | 33    | 53    | 85  | 127 | 210  |
|                            | 1.5  | 2    | -                             | 23    | 38    | 63  | 92  | 154  |
| Trójfazowy<br>220V – 50Hz  | 2.2  | 3    | -                             | -     | 28    | 45  | 67  | 112  |
|                            | 0.55 | 0.75 | 164                           | 246   | -     | -   | -   | -    |
|                            | 0.75 | 1    | 133                           | 200   | 333   | -   | -   | -    |
|                            | 1.1  | 1.5  | 97                            | 146   | 244   | 390 | -   | -    |
|                            | 1.5  | 2    | 72                            | 109   | 180   | 290 | 435 | -    |
|                            | 2.2  | 3    | 51                            | 78    | 130   | 207 | 310 | 516  |
|                            | 3    | 4    | 41                            | 62    | 104   | 167 | 250 | 416  |
| Trójfazowy<br>220V – 50Hz  | 3.7  | 5.5  | 31                            | 46    | 77    | 124 | 186 | 310  |
|                            | 5.5  | 7.5  | -                             | 33    | 56    | 90  | 135 | 225  |
|                            | 0.55 | 0.75 | 60                            | 90    | 150   | 240 | -   | -    |
|                            | 0.75 | 1    | 47                            | 71    | 118   | 190 | -   | -    |
|                            | 1.1  | 1.5  | 35                            | 52    | 87    | 140 | 210 | -    |
|                            | 1.5  | 2    | 26                            | 40    | 66    | 106 | 160 | 266  |
|                            | 2.2  | 3    | -                             | 29    | 48    | 76  | 115 | 191  |
| Trójfazowy<br>220V – 50Hz  | 3    | 4    | -                             | -     | 37    | 60  | 90  | 150  |
|                            | 3.7  | 5.5  | -                             | -     | 27    | 44  | 66  | 110  |
|                            | 5.5  | 7.5  | -                             | -     | -     | 32  | 48  | 80   |
|                            | -    | -    | -                             | -     | -     | -   | -   | -    |

Zatapialne pompy wielostopniowe, odśrodkowe, wykonane ze stali nierdzewnej AISI 304 oraz norylu, przeznaczone do pompowywania wody ze studni cembrowych lub wierconych o średnicy od 5", w systemach zaopatrzenia w wodę pitną, w systemach irygacyjnych itp. Zewnętrzny płaszcz chłodzący daje możliwość pracy w studniach wielkogabarytowych, a podwójne uszczelnienie mechaniczne z komorą olejową zapewnia długą bezobsługową pracę pompy



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 10 bar
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla innych celów
- Instalacja: pionowa lub pozioma (do 5 stopni)
- Maksymalne zanurzenie: 20 m  
(10 m z wyłącznikiem pływakowym)

### MATERIAŁY

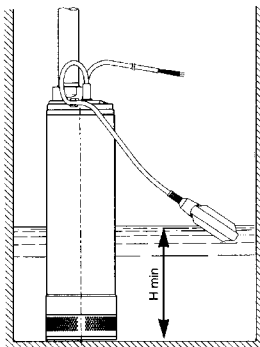
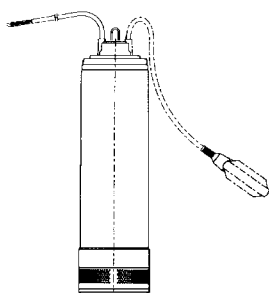
- Obudowa pompy, obudowa silnika, pokrywa obudowy: AISI 304
- Wirniki, dyfuzory: technopolimer
- Wał: AISI 316

- Uszczelnienie mechaniczne:  
górne: węgiel/ceramika/NBR; dolne: SiC/węgiel/NBR

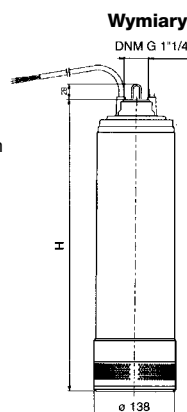
### DANE TECHNICZNE

- Asynchroniczny silnik dwubiegunowy chłodzony pompowaną cieczą
- Klasa izolacji F
- Stopień ochrony IP68
- Zasilanie: 1~ 230V  $\pm$  10% 50Hz, 3~400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1"1/4

Pompa jednofaz. z pływakiem



Minimalne wymiary studni dla pompy z pływakiem  
600 mm x 600 mm x 600 mm



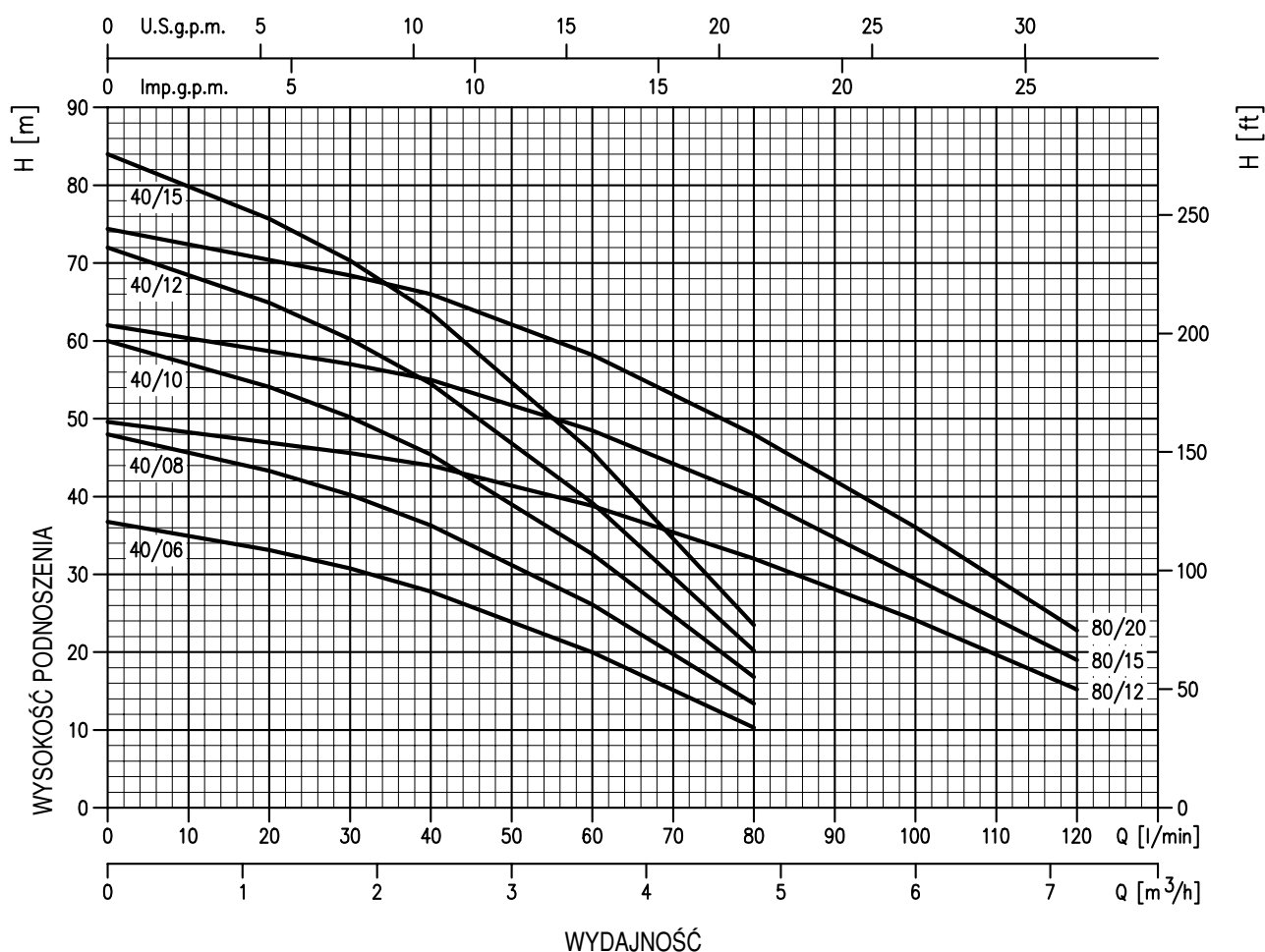
### TABELA DANYCH

| Typ pompy       |              | (mm) | Masa |    |
|-----------------|--------------|------|------|----|
|                 |              | H    | 1~   | 3~ |
| Jednofazowa     | Trójfazowa   |      |      |    |
| IDROGO M 40/06* | IDROGO 40/06 | 513  | 13   | 13 |
| IDROGO M 40/08  | IDROGO 40/08 | 513  | 15   | 15 |
| IDROGO M 40/10  | IDROGO 40/10 | 539  | 16   | 16 |
| IDROGO M 40/12  | IDROGO 40/12 | 590  | 17   | 17 |
| IDROGO M 40/15  | IDROGO 40/15 | 616  | 18   | 18 |
| IDROGO M 80/12  | IDROGO 80/12 | 540  | 16   | 16 |
| IDROGO M 80/15  | IDROGO 80/15 | 564  | 17   | 17 |
| -               | IDROGO 80/20 | 590  | 18   | 18 |

\* Dostarczana z kablem H27RN-F o długości 5 mb



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



**TABELA DANYCH**

| Typ pompy                  |                         | kW   | Kondensator |                | Prąd pobierany (A) |            | l/min<br>m³/h | Q=Wydajność |      |      |      |      |      |      |
|----------------------------|-------------------------|------|-------------|----------------|--------------------|------------|---------------|-------------|------|------|------|------|------|------|
| Jednofazowa<br>230V 50Hz   | Trójfazowa<br>400V 50Hz |      | µF          | V <sub>c</sub> | 1~                 | 3~<br>400V |               | 20          | 30   | 40   | 60   | 80   | 100  | 120  |
|                            |                         |      |             |                |                    |            |               | 1,2         | 1,8  | 2,4  | 3,6  | 4,8  | 6    | 7,2  |
| H=Wysokość podnoszenia (m) |                         |      |             |                |                    |            |               |             |      |      |      |      |      |      |
| IDROGO M 40/06             | -                       | 0,45 | 16          | 450            | 3,8                | -          |               | 33,1        | 30,8 | 27,8 | 20   | 10,3 | -    | -    |
| IDROGO M 40/08             | IDROGO 40/08            | 0,6  | 20          | 450            | 4,3                | 1,9        |               | 43,3        | 40,2 | 36,3 | 26,1 | 13,4 | -    | -    |
| IDROGO M 40/10             | IDROGO 40/10            | 0,75 | 20          | 450            | 5,7                | 2,2        |               | 54,1        | 50,2 | 45,4 | 32,6 | 16,8 | -    | -    |
| IDROGO M 40/12             | IDROGO 40/12            | 0,9  | 20          | 450            | 6,8                | 2,4        |               | 64,9        | 60,2 | 54,5 | 39,2 | 20,2 | -    | -    |
| IDROGO M 40/15             | IDROGO 40/15            | 1,1  | 31,5        | 450            | 7,3                | 3,0        |               | 75,7        | 70,3 | 63,6 | 45,7 | 23,5 | -    | -    |
| IDROGO M 80/12             | IDROGO 80/12            | 0,9  | 20          | 450            | 6,4                | 2,3        |               | -           | 45,6 | 44   | 38,8 | 32   | 23,2 | 15,2 |
| IDROGO M 80/15             | IDROGO 80/15            | 1,1  | 31,5        | 450            | 7,5                | 3,1        |               | -           | 57   | 55   | 48,5 | 40   | 28   | 19   |
| -                          | IDROGO 80/20            | 1,5  | -           | -              | -                  | 3,5        |               | -           | 68,4 | 66   | 58,2 | 48   | 34,8 | 22,8 |

6-calowe pompy głębinowe przeznaczone do instalacji wodociągowych zarówno domowych, jak i przemysłowych; w systemach hydroforowych i irygacyjnych



### **SPECYFIKACJA**

- Maksymalna temperatura medium: 30°C
- Maksymalna zawartość piasku: 40 ppm

### **MATERIAŁY**

- Króciec tłoczny i dolna podstawa: żeliwo sferoidalnie, niklowane
- Obudowa pompy: stal AISI 304
- Wirniki i dyfuzory: noryl
- Wał: stal AISI 420

### **DANE TECHNICZNE**

- Dwubiegunowy silnik jedno- lub trójfazowy
- Króciec tłoczny: 2"1/2 seria SF6R10/13 i SF6S25  
3" seria SF6S32/42

# POMPY GŁĘBINOWE ODŚRODKOWE, DO STUDNI 6''

| Typ pompy<br>SF6           | l/min<br>m³/h | Q=Wydajność |     |     |     |     |     |     |     |     |      | Wycokość<br>mm | Masa<br>Kg |
|----------------------------|---------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|----------------|------------|
|                            |               | 0           | 100 | 200 | 250 | 300 | 400 | 550 | 700 | 850 | 1000 |                |            |
|                            |               | 0           | 6   | 12  | 15  | 18  | 24  | 33  | 42  | 51  | 60   |                |            |
| H=wysokość podnoszenia (m) |               |             |     |     |     |     |     |     |     |     |      |                |            |
| R10-5/2.2                  |               | 79          | 68  | 45  | 26  | -   | -   | -   | -   | -   | -    | 583            | 11,5       |
| R10-6/3                    |               | 95          | 81  | 54  | 31  | -   | -   | -   | -   | -   | -    | 621            | 12         |
| R10-7/3                    |               | 111         | 95  | 63  | 36  | -   | -   | -   | -   | -   | -    | 659            | 12,5       |
| R10-8/4                    |               | 126         | 108 | 72  | 42  | -   | -   | -   | -   | -   | -    | 697            | 13         |
| R10-9/4                    |               | 142         | 122 | 81  | 47  | -   | -   | -   | -   | -   | -    | 735            | 14         |
| R10-12/5.5                 |               | 190         | 162 | 108 | 62  | -   | -   | -   | -   | -   | -    | 848            | 16         |
| R10-15/7.5                 |               | 237         | 203 | 135 | 78  | -   | -   | -   | -   | -   | -    | 962            | 18         |
| R10-18/9.2                 |               | 284         | 243 | 162 | 94  | -   | -   | -   | -   | -   | -    | 1076           | 20         |
| R10-21/9.2                 |               | 332         | 284 | 189 | 109 | -   | -   | -   | -   | -   | -    | 1190           | 22         |
| R13-4/2.2                  |               | 62          | 60  | 49  | 40  | 28  | -   | -   | -   | -   | -    | 545            | 11         |
| R13-5/3                    |               | 78          | 75  | 62  | 50  | 35  | -   | -   | -   | -   | -    | 583            | 11,5       |
| R13-6/4                    |               | 93          | 90  | 74  | 60  | 42  | -   | -   | -   | -   | -    | 621            | 12         |
| R13-7/5.5                  |               | 109         | 105 | 86  | 70  | 49  | -   | -   | -   | -   | -    | 659            | 12,5       |
| R13-8/5.5                  |               | 124         | 120 | 98  | 80  | 56  | -   | -   | -   | -   | -    | 697            | 13         |
| R13-9/5.5                  |               | 140         | 135 | 111 | 90  | 63  | -   | -   | -   | -   | -    | 735            | 14         |
| R13-12/7.5                 |               | 186         | 180 | 148 | 120 | 84  | -   | -   | -   | -   | -    | 848            | 16         |
| R13-15/9.2                 |               | 233         | 225 | 185 | 150 | 105 | -   | -   | -   | -   | -    | 962            | 18         |
| R13-18/11                  |               | 279         | 270 | 221 | 180 | 126 | -   | -   | -   | -   | -    | 1076           | 20         |
| R13-21/13                  |               | 326         | 315 | 258 | 210 | 147 | -   | -   | -   | -   | -    | 1190           | 22         |
| R13-24/15                  |               | 372         | 360 | 295 | 240 | 168 | -   | -   | -   | -   | -    | 1304           | 24         |
| S25-3/3                    |               | 46          | -   | 40  | 38  | 35  | 29  | 16  | -   | -   | -    | 564            | 11         |
| S25-4/4                    |               | 61          | -   | 53  | 50  | 47  | 38  | 21  | -   | -   | -    | 621            | 12         |
| S25-6/5.5                  |               | 92          | -   | 80  | 76  | 70  | 58  | 31  | -   | -   | -    | 735            | 13,5       |
| S25-8/7.5                  |               | 122         | -   | 106 | 101 | 94  | 77  | 42  | -   | -   | -    | 848            | 16         |
| S25-10/9.2                 |               | 153         | -   | 133 | 126 | 117 | 96  | 52  | -   | -   | -    | 962            | 17,5       |
| S25-12/11                  |               | 184         | -   | 159 | 151 | 140 | 115 | 62  | -   | -   | -    | 1076           | 19,5       |
| S25-14/15                  |               | 230         | -   | 199 | 189 | 176 | 144 | 78  | -   | -   | -    | 1110           | 21         |
| S25-16/15                  |               | 245         | -   | 212 | 202 | 187 | 154 | 83  | -   | -   | -    | 1304           | 23         |
| S25-20/18.5                |               | 306         | -   | 265 | 252 | 234 | 192 | 104 | -   | -   | -    | 1584           | 27,5       |
| S25-24/22                  |               | 367         | -   | 318 | 302 | 281 | 230 | 125 | -   | -   | -    | 1810           | 31         |
| S32-2/3                    |               | 32          | -   | -   | -   | 29  | 26  | 20  | 13  | -   | -    | 513            | 10         |
| S32-3/4                    |               | 49          | -   | -   | -   | 43  | 39  | 31  | 19  | -   | -    | 573            | 10,5       |
| S32-4/5.5                  |               | 65          | -   | -   | -   | 57  | 52  | 41  | 26  | -   | -    | 632            | 11,5       |
| S32-5/7.5                  |               | 81          | -   | -   | -   | 71  | 65  | 51  | 32  | -   | -    | 692            | 13         |
| S32-6/9.2                  |               | 97          | -   | -   | -   | 86  | 78  | 61  | 39  | -   | -    | 752            | 14,5       |
| S32-8/11                   |               | 130         | -   | -   | -   | 114 | 104 | 82  | 51  | -   | -    | 872            | 15,5       |
| S32-9/15                   |               | 146         | -   | -   | -   | 129 | 118 | 92  | 58  | -   | -    | 932            | 16,5       |
| S32-10/15                  |               | 162         | -   | -   | -   | 143 | 131 | 102 | 64  | -   | -    | 992            | 17,5       |
| S32-12/18.5                |               | 195         | -   | -   | -   | 171 | 157 | 122 | 77  | -   | -    | 1112           | 19,5       |
| S32-15/22                  |               | 243         | -   | -   | -   | 214 | 196 | 153 | 96  | -   | -    | 1292           | 22         |
| S32-18/26                  |               | 292         | -   | -   | -   | 257 | 235 | 184 | 116 | -   | -    | 1524           | 26         |
| S32-20/30                  |               | 324         | -   | -   | -   | 286 | 261 | 204 | 129 | -   | -    | 1644           | 28         |
| S42-2/4                    |               | 26          | -   | -   | -   | -   | 22  | 18  | 15  | 12  | 8    | 513            | 10         |
| S42-3/5.5                  |               | 39          | -   | -   | -   | -   | 32  | 28  | 23  | 18  | 12   | 573            | 10,5       |
| S42-4/7.5                  |               | 52          | -   | -   | -   | -   | 43  | 37  | 30  | 24  | 15   | 632            | 12         |
| S42-5/9.2                  |               | 65          | -   | -   | -   | -   | 54  | 46  | 38  | 30  | 19   | 692            | 13         |
| S42-6/11                   |               | 78          | -   | -   | -   | -   | 65  | 55  | 46  | 36  | 23   | 752            | 14,5       |
| S42-8/13                   |               | 104         | -   | -   | -   | -   | 86  | 74  | 61  | 48  | 31   | 872            | 15,5       |
| S42-9/15                   |               | 117         | -   | -   | -   | -   | 97  | 83  | 68  | 54  | 35   | 932            | 16,5       |
| S42-10/18.5                |               | 130         | -   | -   | -   | -   | 108 | 92  | 76  | 60  | 39   | 992            | 17,5       |
| S42-12/22                  |               | 156         | -   | -   | -   | -   | 130 | 110 | 91  | 72  | 46   | 1112           | 19,5       |
| S42-15/26                  |               | 195         | -   | -   | -   | -   | 162 | 138 | 114 | 90  | 58   | 1292           | 22         |
| S42-18/30                  |               | 234         | -   | -   | -   | -   | 194 | 166 | 137 | 108 | 69   | 1524           | 26         |

6-calowe pompy głębinowe w całości wykonane ze stali nierdzewnej AISI 304. Gładka powierzchnia wirników i dyfuzorów gwarantuje wysoką sprawność pompy.

Przeznaczone do wydobywania wody z odwiertów o średnicy 6", w zestawach hydroforowych, dla celów zarówno domowych jak i przemysłowych.

Możliwość instalacji zarówno pionowej, jak i poziomej



### SPECYFIKACJA

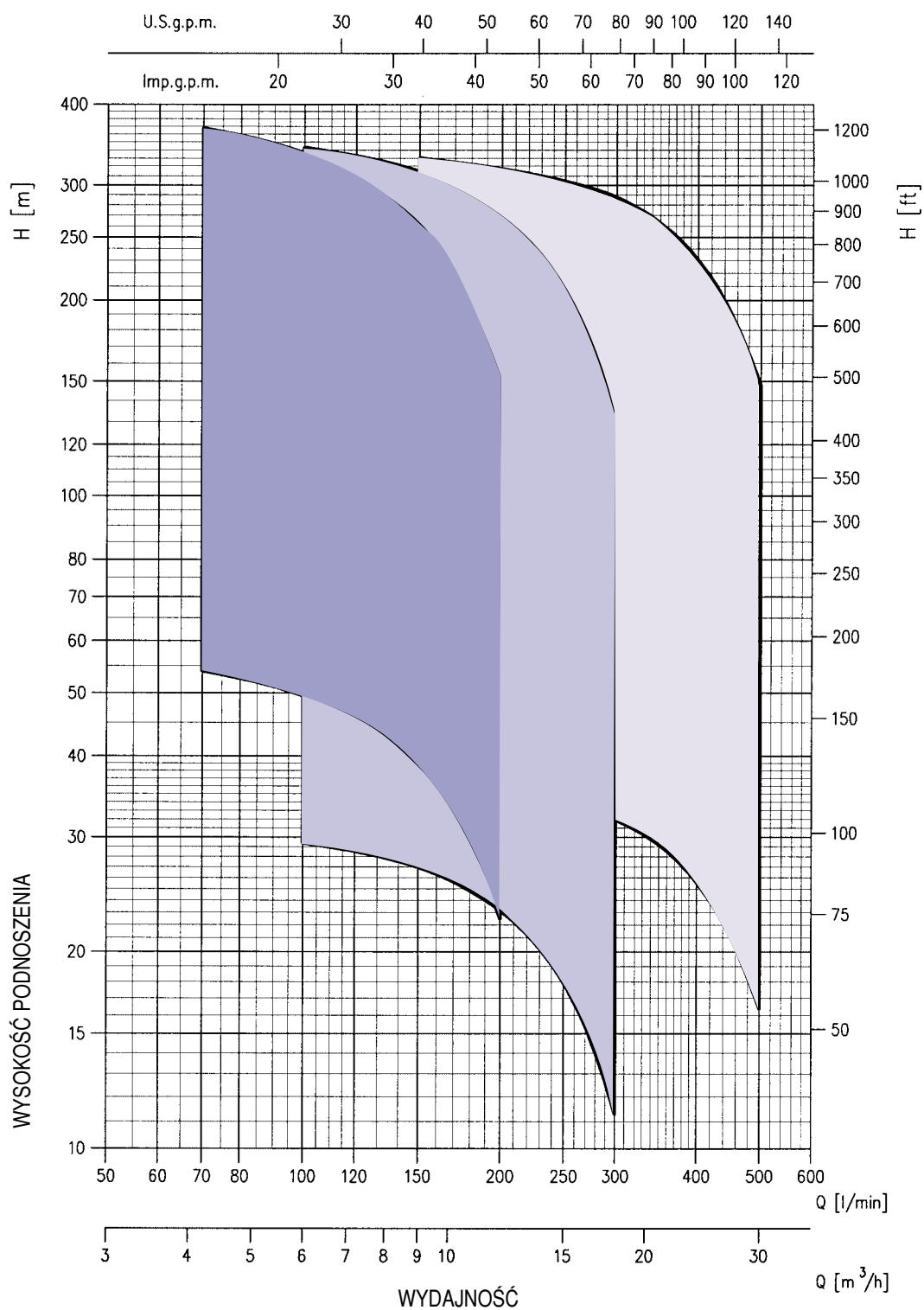
- Maksymalne zanurzenie:  
100 m (silniki olejowe)  
350 m (silniki wodne)
- Maksymalna temperatura medium: 30°C
- Maksymalna zawartość piasku: 50 ppm

### MATERIAŁY

- Obudowa, króciec tłoczny i ssawny, sprzęgło, wirniki, dyfuzory, pokrywy dyfuzorów, zawór zwrotny, ściągi oraz osłona kabla: stal nierdzewna AISI 304
- Pierścienie bieżne: EPDM/AISI 304
- Wał: AISI 316

### DANE TECHNICZNE

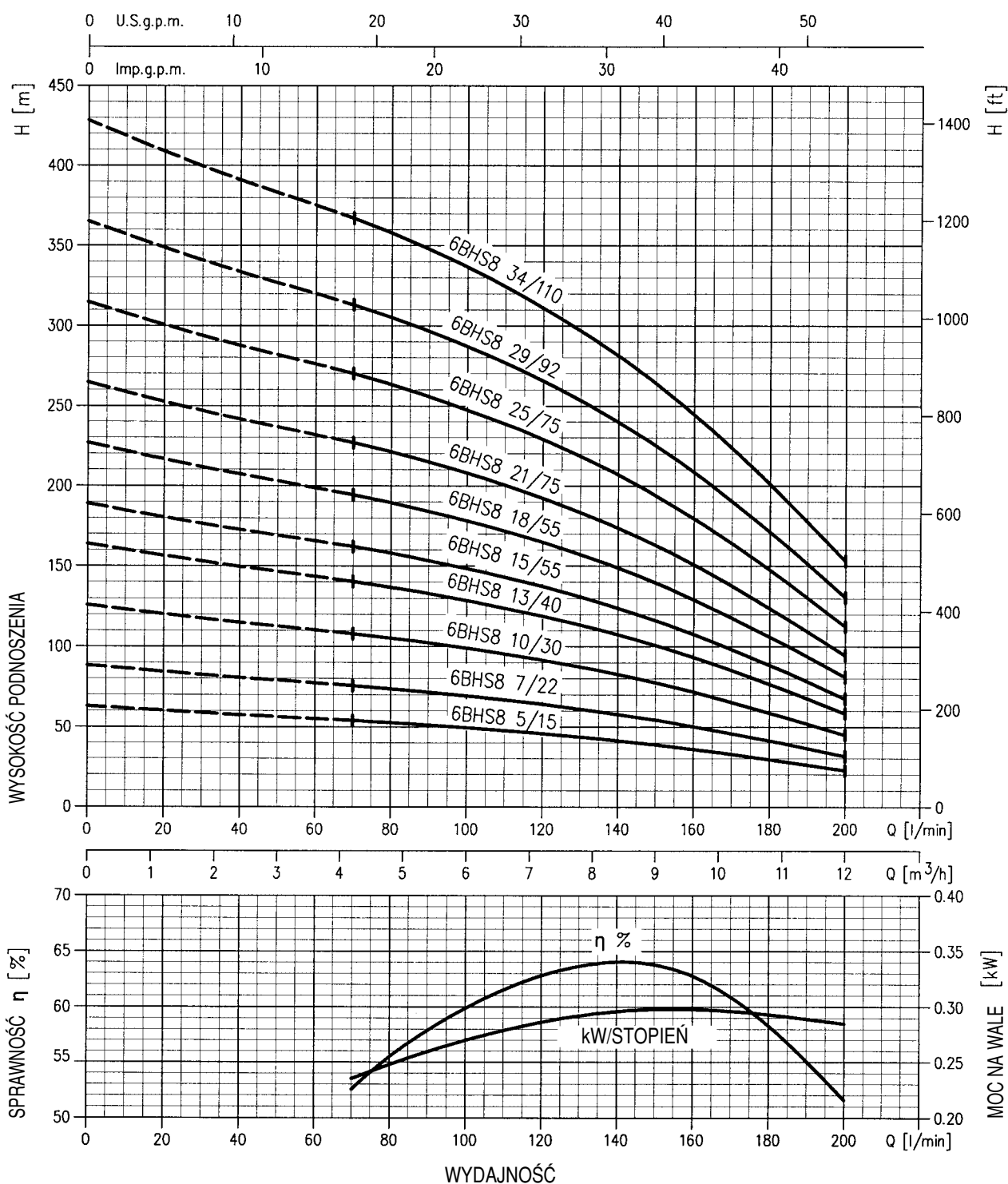
- Silnik dwubiegunowy z wypełnieniem wodnym (wersja W) lub z wypełnieniem olejowym (wersja O)
- Maksymalna liczba uruchomień na godz.: 25 (wersja O)  
20 (wersja W)
- Klasa izolacji: F
- Stopień ochrony: IP 58
- Zasilanie: 3~380/400 V (wersja O)  
400 V, +6 – 10%, 50 HZ (WERSJA W)

**CHARAKTERYSTYKI HYDRAULICZNE** (w/g ISO 9906 Aneks A)


**TABELA DANYCH**

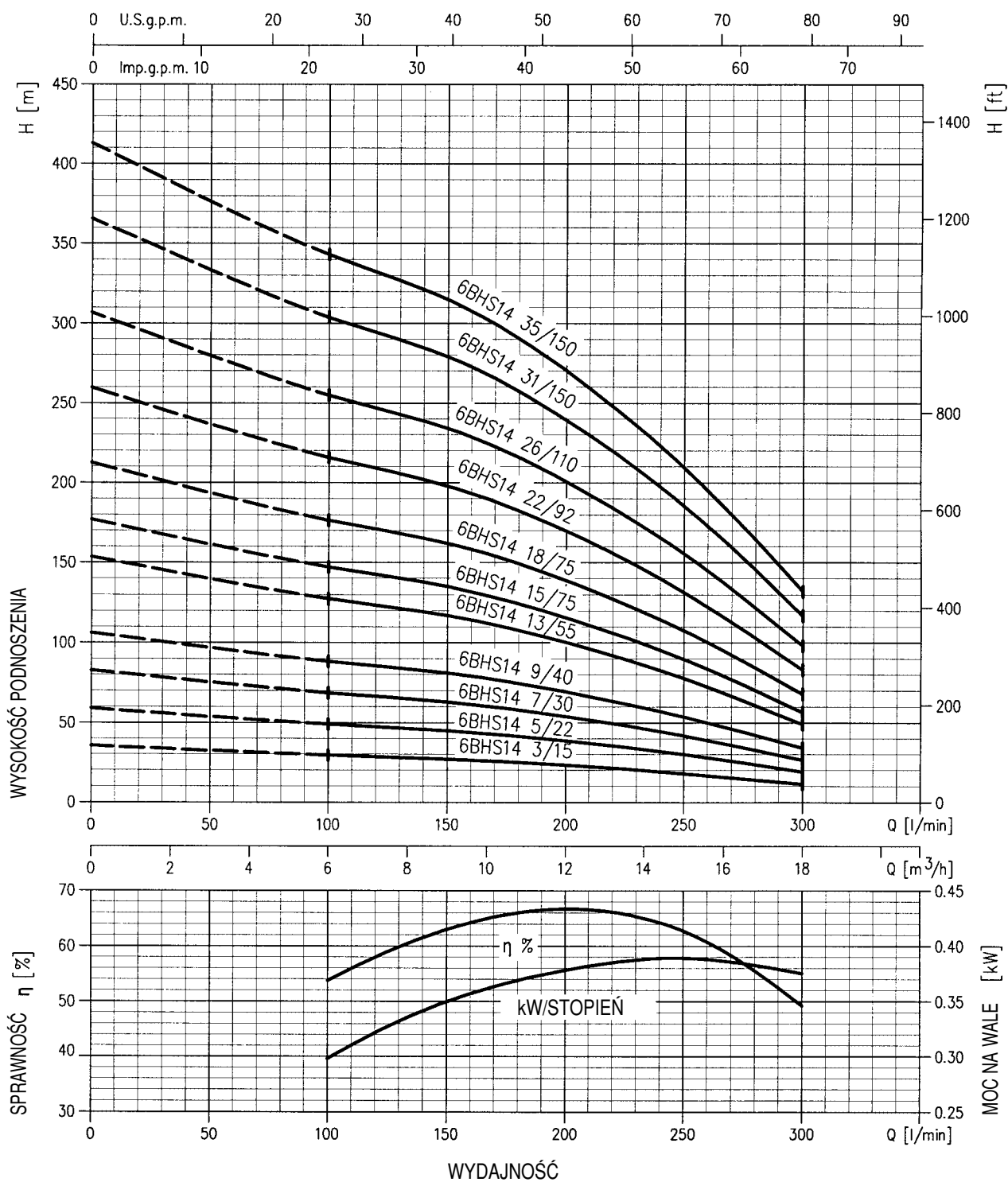
| Typ pompy<br>6BHS        | Wielkość<br>silnika | kW   | HP   | Q = Wydajność |      |      |      |      |      |      |      |      |      |
|--------------------------|---------------------|------|------|---------------|------|------|------|------|------|------|------|------|------|
|                          |                     |      |      | l/min.        | 70   | 100  | 150  | 200  | 250  | 300  | 375  | 450  | 500  |
|                          |                     |      |      | m³/h          | 4,20 | 6,0  | 9,0  | 12,0 | 15,0 | 18,0 | 22,5 | 27,0 | 30,0 |
| H = Wysokość podnoszenia |                     |      |      |               |      |      |      |      |      |      |      |      |      |
| 64BHS8 5                 | 4"                  | 1,5  | 2    |               | 54   | 49,5 | 39   | 22,5 | -    | -    | -    | -    | -    |
| 64BHS8 7                 | 4"                  | 2,2  | 3    |               | 75,5 | 69,5 | 54,5 | 31,5 | -    | -    | -    | -    | -    |
| 64BHS8 10                | 4"                  | 3    | 4    |               | 108  | 99   | 77,5 | 45   | -    | -    | -    | -    | -    |
| 64BHS8 13                | 4"                  | 4    | 5,5  |               | 140  | 129  | 101  | 58,5 | -    | -    | -    | -    | -    |
| 6BHS8 13                 | 6"                  | 4    | 5,5  |               | 140  | 129  | 101  | 58,5 | -    | -    | -    | -    | -    |
| 64BHS8 15                | 4"                  | 5,5  | 7,5  |               | 162  | 149  | 116  | 67,5 | -    | -    | -    | -    | -    |
| 6BHS8 15                 | 6"                  | 5,5  | 7,5  |               | 162  | 149  | 116  | 67,5 | -    | -    | -    | -    | -    |
| 64BHS8 18                | 4"                  | 5,5  | 7,5  |               | 194  | 178  | 140  | 81   | -    | -    | -    | -    | -    |
| 6BHS8 18                 | 6"                  | 5,5  | 7,5  |               | 194  | 178  | 140  | 81   | -    | -    | -    | -    | -    |
| 6BHS8 21                 | 6"                  | 7,5  | 10   |               | 227  | 208  | 163  | 94,5 | -    | -    | -    | -    | -    |
| 6BHS8 25                 | 6"                  | 7,5  | 10   |               | 270  | 248  | 194  | 113  | -    | -    | -    | -    | -    |
| 6BHS8 29                 | 6"                  | 9,2  | 12,5 |               | 313  | 287  | 225  | 131  | -    | -    | -    | -    | -    |
| 6BHS8 34                 | 6"                  | 11   | 15   |               | 367  | 337  | 264  | 153  | -    | -    | -    | -    | -    |
| 64BHS14 3                | 4"                  | 1,5  | 2    |               | -    | 29,5 | 27   | 23   | 18   | 11,5 | -    | -    | -    |
| 64BHS14 5                | 4"                  | 2,2  | 3    |               | -    | 49   | 45   | 38,5 | 30   | 19   | -    | -    | -    |
| 64BHS14 7                | 4"                  | 3    | 4    |               | -    | 68,5 | 63   | 54   | 42   | 26,5 | -    | -    | -    |
| 64BHS14 9                | 4"                  | 4    | 5,5  |               | -    | 88   | 81   | 69,5 | 54   | 34   | -    | -    | -    |
| 6BHS14 9                 | 6"                  | 4    | 5,5  |               | -    | 88   | 81   | 69,5 | 54   | 34   | -    | -    | -    |
| 64BHS14 13               | 4"                  | 5,5  | 7,5  |               | -    | 127  | 117  | 100  | 78   | 49   | -    | -    | -    |
| 6BHS14 13                | 6"                  | 5,5  | 7,5  |               | -    | 127  | 117  | 100  | 78   | 49   | -    | -    | -    |
| 6BHS14 15                | 6"                  | 7,5  | 10   |               | -    | 147  | 135  | 116  | 90   | 56,5 | -    | -    | -    |
| 6BHS14 18                | 6"                  | 7,5  | 10   |               | -    | 176  | 162  | 139  | 108  | 68   | -    | -    | -    |
| 6BHS14 22                | 6"                  | 9,2  | 12,5 |               | -    | 216  | 198  | 170  | 132  | 83   | -    | -    | -    |
| 6BHS14 26                | 6"                  | 11   | 15   |               | -    | 255  | 234  | 201  | 156  | 98   | -    | -    | -    |
| 6BHS14 31                | 6"                  | 15   | 20   |               | -    | 304  | 279  | 239  | 185  | 117  | -    | -    | -    |
| 6BHS14 35                | 6"                  | 15   | 20   |               | -    | 343  | 315  | 270  | 209  | 132  | -    | -    | -    |
| 64BHS21 4                | 4"                  | 3    | 4    |               | -    | -    | 36,5 | 35,5 | 34   | 32   | 27,5 | 21   | 16,5 |
| 64BHS21 6                | 4"                  | 4    | 5,5  |               | -    | -    | 55   | 53   | 51   | 48   | 41,5 | 32   | 24,5 |
| 6BHS21 6                 | 6"                  | 4    | 5,5  |               | -    | -    | 55   | 53   | 51   | 48   | 41,5 | 32   | 24,5 |
| 64BHS21 8                | 4"                  | 5,5  | 7,5  |               | -    | -    | 73,5 | 71   | 67,5 | 64   | 55   | 42   | 33   |
| 6BHS21 8                 | 6"                  | 5,5  | 7,5  |               | -    | -    | 73,5 | 71   | 67,5 | 64   | 55   | 42   | 33   |
| 6BHS21 12                | 6"                  | 7,5  | 10   |               | -    | -    | 110  | 106  | 102  | 96   | 83   | 64   | 49   |
| 6BHS21 14                | 6"                  | 9,2  | 12,5 |               | -    | -    | 128  | 124  | 118  | 112  | 96   | 74   | 57,5 |
| 6BHS21 17                | 6"                  | 11   | 15   |               | -    | -    | 156  | 150  | 144  | 136  | 117  | 90   | 69,5 |
| 6BHS21 22                | 6"                  | 15   | 20   |               | -    | -    | 202  | 194  | 186  | 176  | 151  | 117  | 90   |
| 6BHS21 25                | 6"                  | 15   | 20   |               | -    | -    | 229  | 221  | 212  | 200  | 172  | 133  | 103  |
| 6BHS21 29                | 6"                  | 18,5 | 25   |               | -    | -    | 266  | 256  | 245  | 232  | 200  | 154  | 119  |
| 6BHS21 34                | 6"                  | 22   | 30   |               | -    | -    | 312  | 300  | 288  | 272  | 234  | 180  | 139  |
| 6BHS21 36                | 6"                  | 22   | 30   |               | -    | -    | 330  | 318  | 305  | 288  | 248  | 191  | 148  |

## CHARAKTERYSTYKI HYDRAULICZNE seria 6BHS 8 (w/g ISO 9906 Aneks A)

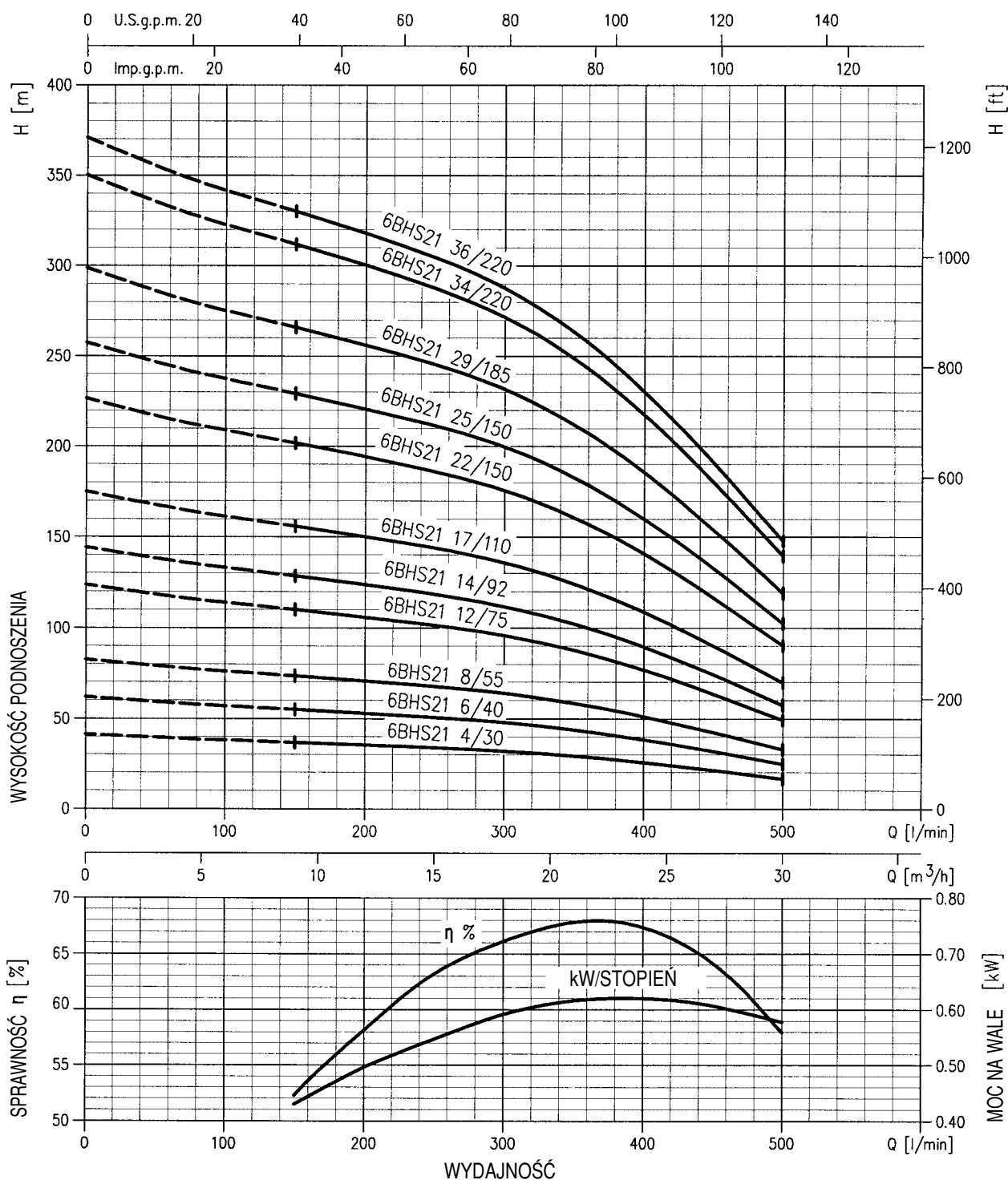




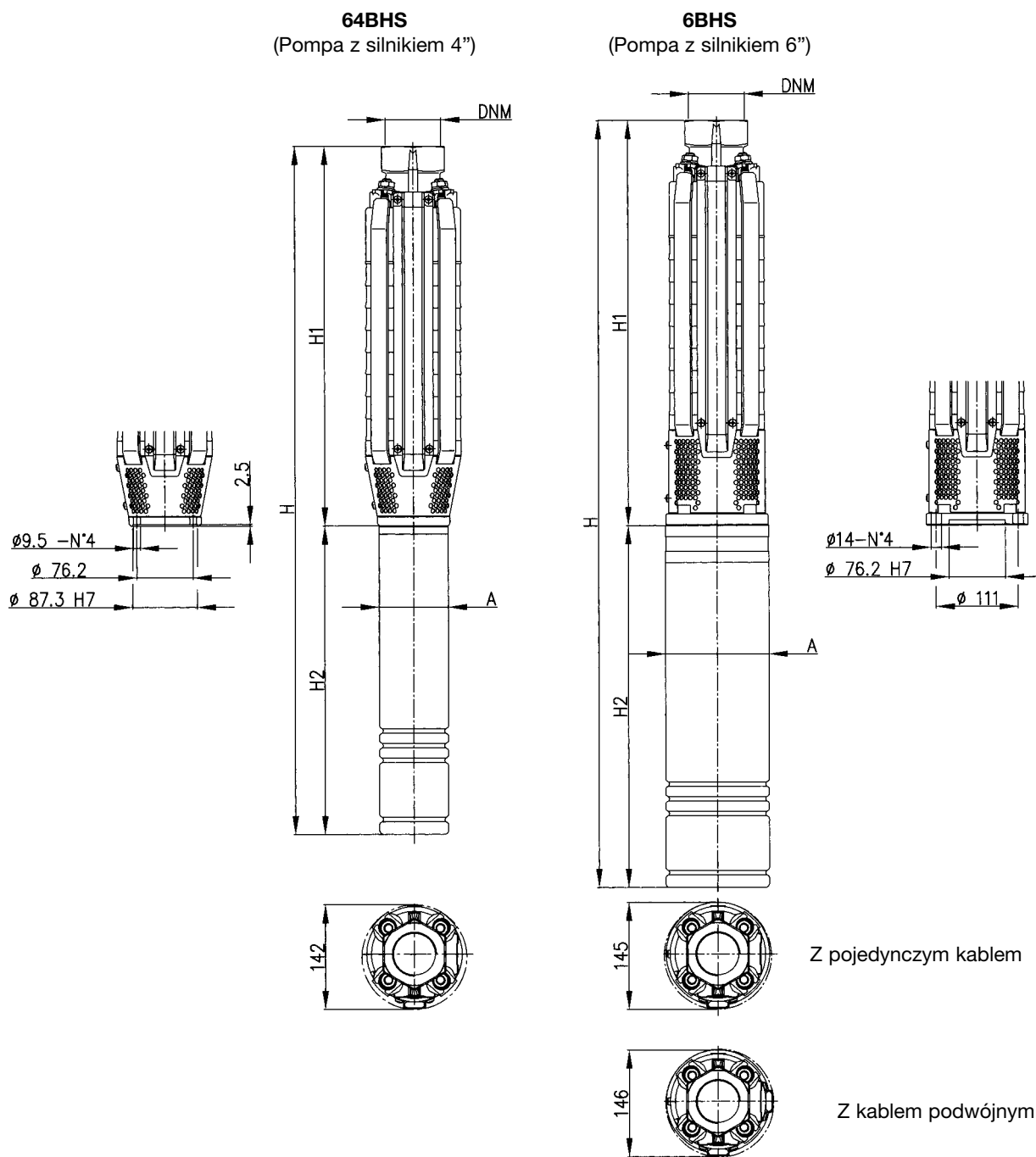
## CHARAKTERYSTYKI HYDRAULICZNE seria 6BHS 14 (w/g ISO 9906 Aneks A)



## CHARAKTERYSTYKI HYDRAULICZNE seria 6BHS 21 (w/g ISO 9906 Aneks A)



## WYMIARY



**TABELA WYMIARÓW**

| Typ pompy     | Moc  |      | Pompa bez silnika |       |              | Wielkość silnika | Pompa z silnikiem wodnym |              | Pompa z silnikiem olejowym |              |
|---------------|------|------|-------------------|-------|--------------|------------------|--------------------------|--------------|----------------------------|--------------|
|               | kW   | HP   | DNM               | H1    | Masa [ kgf ] |                  | H                        | Masa [ kgf ] | H                          | Masa [ kgf ] |
| 64BHS8-5/15   | 1,5  | 2    | G 2               | 454,5 | 12,5         | 4 "              | 779                      | 24,5         | 837                        | 23           |
| 64BHS8-7/22   | 2,2  | 3    | G 2               | 514,5 | 14,5         |                  | 868                      | 27,5         | 932                        | 26,5         |
| 64BHS8-10/30  | 3    | 4    | G 2               | 604,5 | 17           |                  | 1025                     | 34           | 1182                       | 39,5         |
| 64BHS8-13/40  | 4    | 5,5  | G 2               | 694,5 | 20           |                  | 1275                     | 43,7         | 1272                       | 42,5         |
| 64BHS8-15/55  | 5,5  | 7,5  | G 2               | 754,5 | 21,5         |                  | 1450                     | 51           | 1402                       | 45           |
| 64BHS8-18/55  | 5,5  | 7,5  | G 2               | 844,5 | 24           |                  | 1540                     | 53,5         | 1492                       | 47,5         |
| 6BHS8-13/40   | 4    | 5,5  | G 2               | 729   | 21           | 6"               | 1311                     | 59           | 1269                       | 61           |
| 6BHS8-15/55   | 5,5  | 7,5  | G 2               | 789   | 24           |                  | 1404                     | 64,5         | 1359                       | 65           |
| 6BHS8-18/55   | 5,5  | 7,5  | G 2               | 879   | 26,5         |                  | 1494                     | 66           | 1449                       | 67,5         |
| 6BHS8-21/75   | 7,5  | 10   | G 2               | 969   | 29,5         |                  | 1616                     | 73,5         | 1569                       | 72           |
| 6BHS8-25/75   | 7,5  | 10   | G 2               | 1089  | 33,5         |                  | 1736                     | 79           | 1689                       | 77,5         |
| 6BHS8-29/92   | 9,2  | 12,5 | G 2               | 1209  | 38,5         |                  | 1888                     | 85           | 1809                       | 84           |
| 6BHS8-34/110  | 11   | 15   | G 2               | 1359  | 45           |                  | 2071                     | 93           | 2059                       | 91,5         |
| 64BHS14-3/15  | 1,5  | 2    | G 2 1/2           | 394,5 | 10,5         | 4 "              | 719                      | 22,5         | 777                        | 21           |
| 64BHS14-5/22  | 2,2  | 3    | G 2 1/2           | 454,5 | 12           |                  | 808                      | 25,5         | 872                        | 24,5         |
| 64BHS14-7/30  | 3    | 4    | G 2 1/2           | 514,5 | 14           |                  | 935                      | 30,5         | 1092                       | 35,5         |
| 64BHS14-9/40  | 4    | 5,5  | G 2 1/2           | 574,5 | 15,5         |                  | 1155                     | 40           | 1152                       | 39           |
| 64BHS14-13/55 | 5,5  | 7,5  | G 2 1/2           | 694,5 | 19           |                  | 1390                     | 49           | 1342                       | 43           |
| 6BHS14-9/40   | 4    | 5,5  | G 2 1/2           | 609   | 17           | 6"               | 1191                     | 54           | 1149                       | 56,5         |
| 6BHS14-13/55  | 5,5  | 7,5  | G 2 1/2           | 729   | 21           |                  | 1344                     | 62           | 1299                       | 63           |
| 6BHS14-15/75  | 7,5  | 10   | G 2 1/2           | 789   | 23           |                  | 1436                     | 68           | 1389                       | 66,5         |
| 6BHS14-18/75  | 7,5  | 10   | G 2 1/2           | 879   | 25,5         |                  | 1526                     | 70,5         | 1479                       | 69           |
| 6BHS14-22/92  | 9,2  | 12,5 | G 2 1/2           | 999   | 29,5         |                  | 1678                     | 76           | 1599                       | 75,5         |
| 6BHS14-26/110 | 11   | 15   | G 2 1/2           | 1119  | 33,5         |                  | 1831                     | 85           | 1819                       | 84           |
| 6BHS14-31/150 | 15   | 20   | G 2 1/2           | 1269  | 40,5         |                  | 2046                     | 96           | 2029                       | 94,5         |
| 6BHS14-35/150 | 15   | 20   | G 2 1/2           | 1389  | 44           |                  | 2166                     | 99           | 2149                       | 97,5         |
| 64BHS21-4/30  | 3    | 4    | G 2 1/2           | 474,5 | 11,5         | 4 "              | 895                      | 28,5         | 1052                       | 33,5         |
| 64BHS21-6/40  | 4    | 5,5  | G 2 1/2           | 554,5 | 13,5         |                  | 1135                     | 38,5         | 1132                       | 37           |
| 64BHS21-8/55  | 5,5  | 7,5  | G 2 1/2           | 634,5 | 15,5         |                  | 1330                     | 45,5         | 1282                       | 39,5         |
| 6BHS21-6/40   | 4    | 5,5  | G 2 1/2           | 589   | 15           | 6"               | 1171                     | 52,3         | 1129                       | 54,7         |
| 6BHS21-8/55   | 5,5  | 7,5  | G 2 1/2           | 669   | 17           |                  | 1284                     | 58           | 1239                       | 59           |
| 6BHS21-12/75  | 7,5  | 10   | G 2 1/2           | 829   | 21,5         |                  | 1476                     | 67           | 1429                       | 66           |
| 6BHS21-14/92  | 9,2  | 12,5 | G 2 1/2           | 909   | 24           |                  | 1588                     | 72           | 1509                       | 71           |
| 6BHS21-17/110 | 11   | 15   | G 2 1/2           | 1029  | 26,5         |                  | 1741                     | 78           | 1729                       | 77           |
| 6BHS21-22/150 | 15   | 20   | G 2 1/2           | 1229  | 34,5         |                  | 2006                     | 89           | 1989                       | 90           |
| 6BHS21-25/150 | 15   | 20   | G 2 1/2           | 1349  | 38           |                  | 2126                     | 94           | 2109                       | 93           |
| 6BHS21-29/185 | 18,5 | 25   | G 2 1/2           | 1509  | 42,5         |                  | 2351                     | 104          | 2339                       | 108          |
| 6BHS21-34/220 | 22   | 30   | G 2 1/2           | 1709  | 48,5         |                  | 2616                     | 116          | 2599                       | 119          |
| 6BHS21-36/220 | 22   | 30   | G 2 1/2           | 1789  | 51           |                  | 2696                     | 118          | 2679                       | 121          |

Zatapiałne pompy elektryczne, o przeznaczeniu domowym, do odwadniania oraz opróżniania zbiorników wodnych takich jak baseny czy fontanny, a także do nawadniania małych terenów zielonych



## SPECYFIKACJA

- Maksymalna głębokość zatopienia: 4 m
- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40 °C dla innych celów

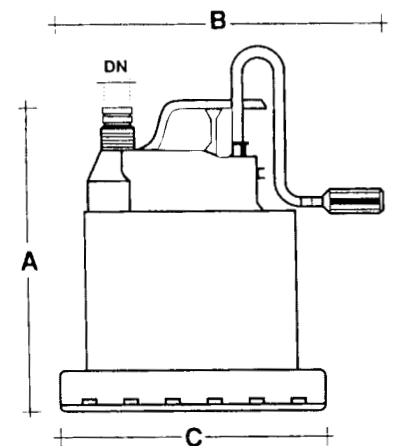
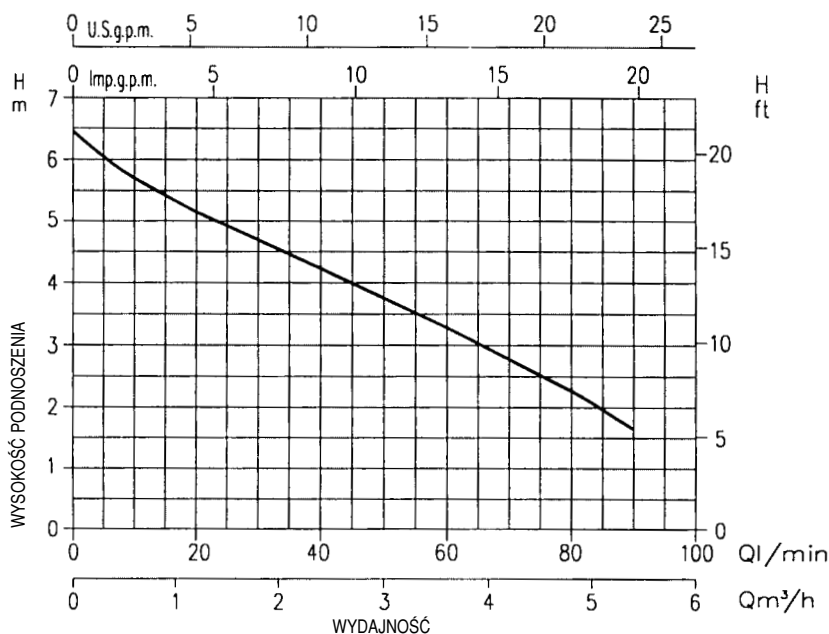
## MATERIAŁY

- Obudowa, kierownica oraz wirnik pompy: technopolimer
- Wał pompy: stal nierdzewna
- Uszczelnienie wału: mechaniczne ślizgowe węgiel/ceramika/NBR

## DANE TECHNICZNE

- Asynchroniczny silnik 2-biegunowy
- Zasilanie; 1~230V ± 10% 50Hz, 3~230/400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe
- Króciec tłoczny: 1", przystosowany także do założenia węża elastycznego

## CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)

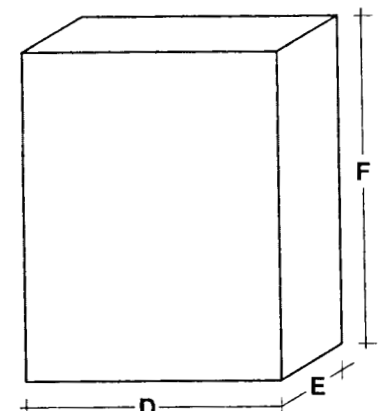


## TABELA WYMIARÓW

|      | DN | A   | B   | C   | D   | E   | F   | kg  |
|------|----|-----|-----|-----|-----|-----|-----|-----|
| KIKA | 1" | 240 | 370 | 165 | 220 | 185 | 270 | 3,7 |

## TABELA DANYCH

| Typ pompy | Moc<br>(W) | Kondensator<br>μF | Vc  | Pobór prądu | Q=Wydajność                |     |     |     |     |     |     |     |     |     |     |  |
|-----------|------------|-------------------|-----|-------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|           |            |                   |     |             | L/min.                     | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  |  |
| KIKA      | 230        | 8                 | 450 | 1 A         | m³/h                       | 0   | 0,6 | 1,2 | 1,8 | 2,4 | 3   | 3,6 | 4,2 | 4,8 | 5,4 |  |
|           |            |                   |     |             | H=Wysokość podnoszenia (m) |     |     |     |     |     |     |     |     |     |     |  |
|           |            |                   |     |             |                            | 6,4 | 5,7 | 5,2 | 4,7 | 4,2 | 3,7 | 3,2 | 2,8 | 2,3 | 1,8 |  |



Pompy zatapialne do wody czystej oraz lekko zanieczyszczonej, przeznaczone do pracy w oczkach wodnych, a także do doraźnego wypompowywania wody z zatopionych garaży, basenów i tp. Kabel H05 RN-F długości 5 m (z pływakiem lub bez); na życzenie również 10 m



### SPECYFIKACJA

- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla innych celów
- Maksymalna głębokość zanurzenia: 5 m
- Maksymalna średnica zanieczyszczeń: 10 mm

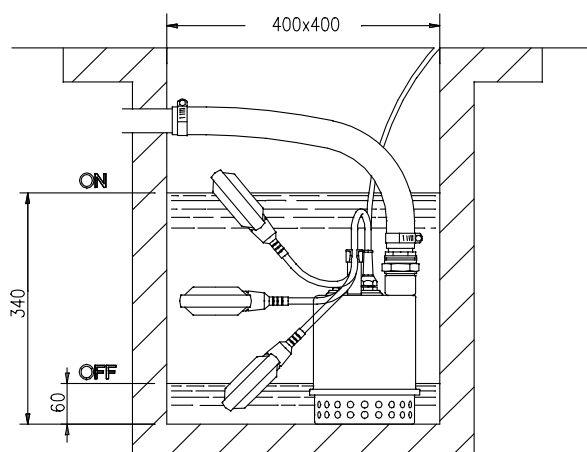
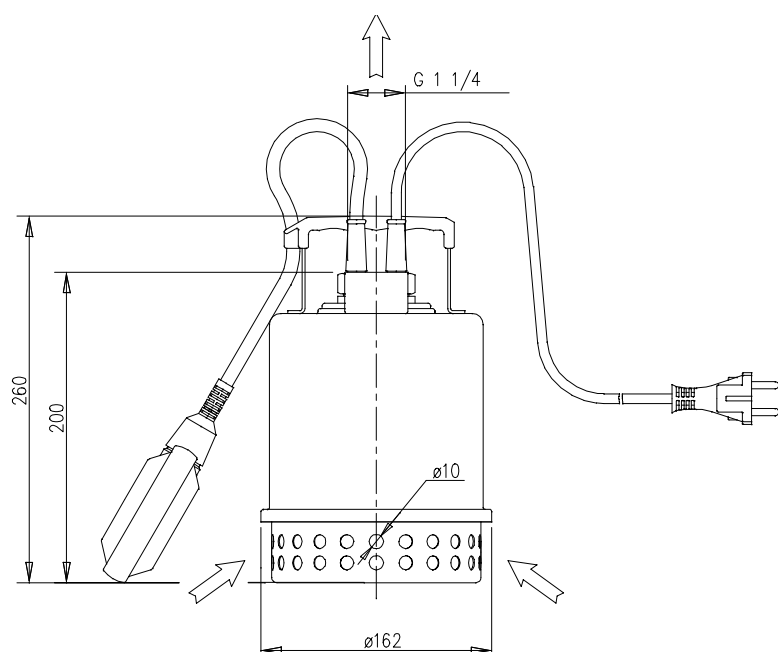
### MATERIAŁY

- Obudowa pompy, kosz ssawny i obudowa silnika:  
AISI 304
- Wirnik, dyfuzor: technopolimer

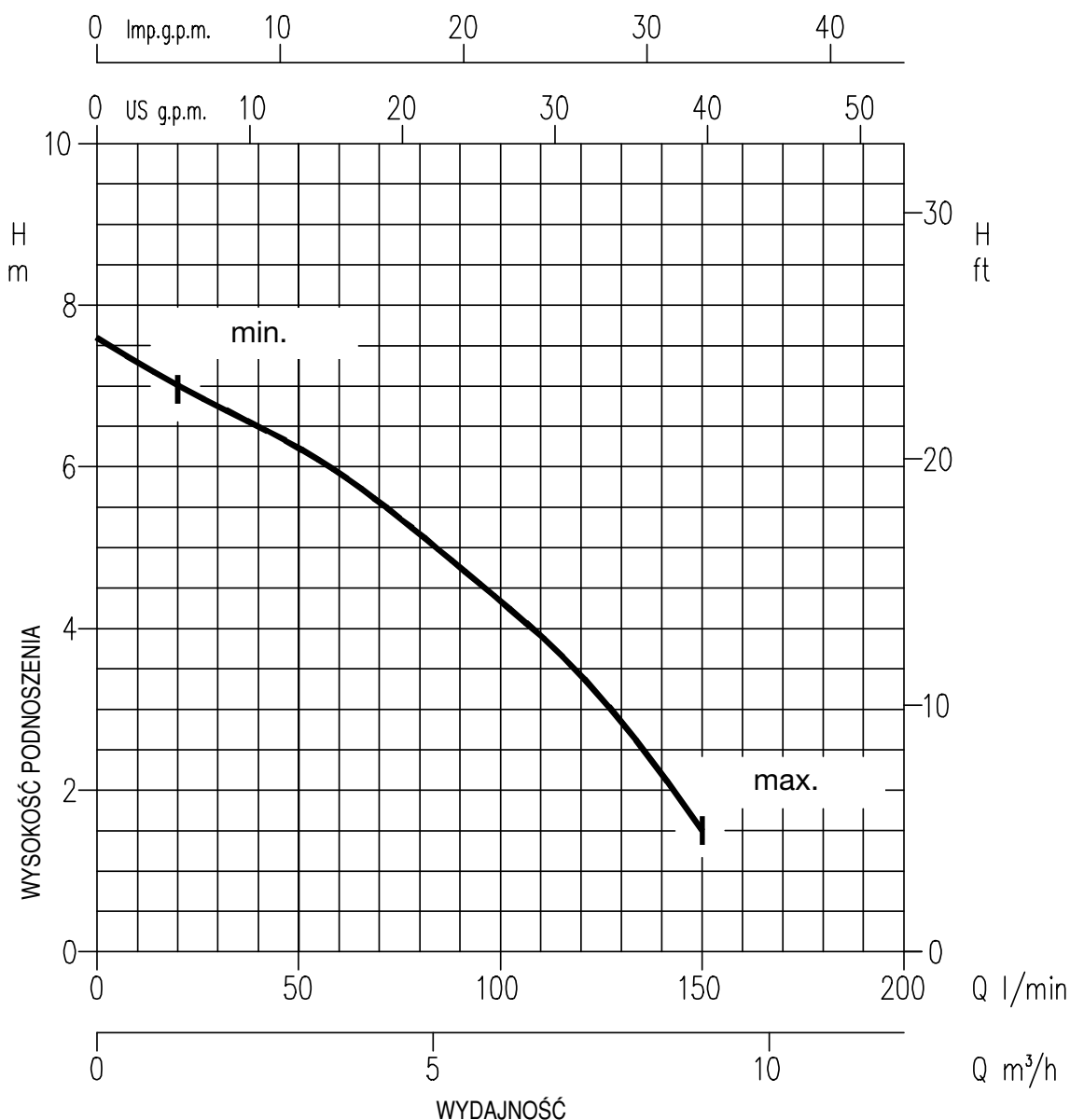
- Wał: AISI 304
- Podwójne uszczelnienie wargowe z komorą wypełnioną smarem stałym, na tulejce ceramicznej.

### DANE TECHNICZNE

- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony: IP68
- Zasilanie: 1~230V ± 10% 50Hz,  
3~400V ± 10% 50Hz
- DNM 1"1/4



### CHARAKTERYSTYKA HYDRAULICZNA (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                  |                     | kW   | Kondensator |                | Prąd pobierany (A) |                 | l/min<br>m³/h | Q=Wydajność |         |           |          |            |              | Typ pompy | Masa |
|----------------------------|---------------------|------|-------------|----------------|--------------------|-----------------|---------------|-------------|---------|-----------|----------|------------|--------------|-----------|------|
| Jednofazowa<br>230 V       | Trójfazowa<br>400 V |      | μF          | V <sub>c</sub> | Jedno-<br>fazowa   | Trójfa-<br>zowa |               | 20<br>1,2   | 50<br>3 | 75<br>4,5 | 100<br>6 | 125<br>7,5 | 150<br>9     |           |      |
| H=Wysokość podnoszenia (m) |                     |      |             |                |                    |                 |               |             |         |           |          |            |              |           |      |
| BEST ZERO M                | BEST ZERO           | 0,25 | 8           | 450            | 1,9                | 0,95            | 7             | 6,3         | 5,4     | 4,3       | 3,1      | 1,5        | BEST ZERO MA | 4,4       |      |
|                            |                     |      |             |                |                    |                 |               |             |         |           |          |            | BEST ZERO M  | 4,2       |      |
|                            |                     |      |             |                |                    |                 |               |             |         |           |          |            | BEST ZERO    | 4,4       |      |

MA = jednofazowa z wyłącznikiem  
pływakowym



Pompy zatapialne do wody zanieczyszczonej, wykonane ze stali nierdzewnej AISI 304; uszczelnienie wału wykonanwe jako podwójne uszczelnienia wargowe z komorą olejową, pracujące na tulejce ceramicznej. Przeznaczone do pracy w oczkach wodnych, systemach drenażowych, a także do wypompowywania wody z zatopionych garaży, basenów itp.

Kabel H05 RN-F długości 5 m (z pływakiem lub bez); na życzenie również 10 m



### SPECYFIKACJA

- Maksymalna temperatura medium:  
35°C w/g EN 60335-2-41 dla użytku domowego  
40°C dla innych celów
- Maksymalna głębokość zanurzenia: 5 m
- Maksymalna średnica zanieczyszczeń: 10 mm  
20 mm dla wersji VOX

### MATERIAŁY

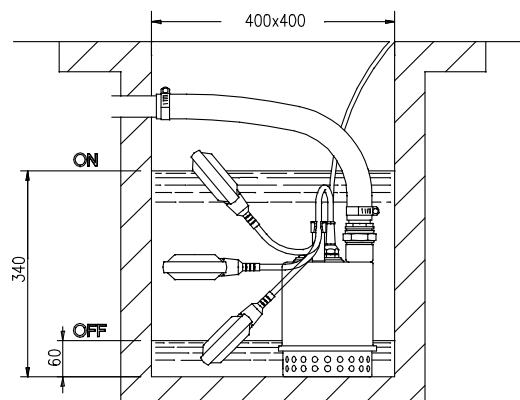
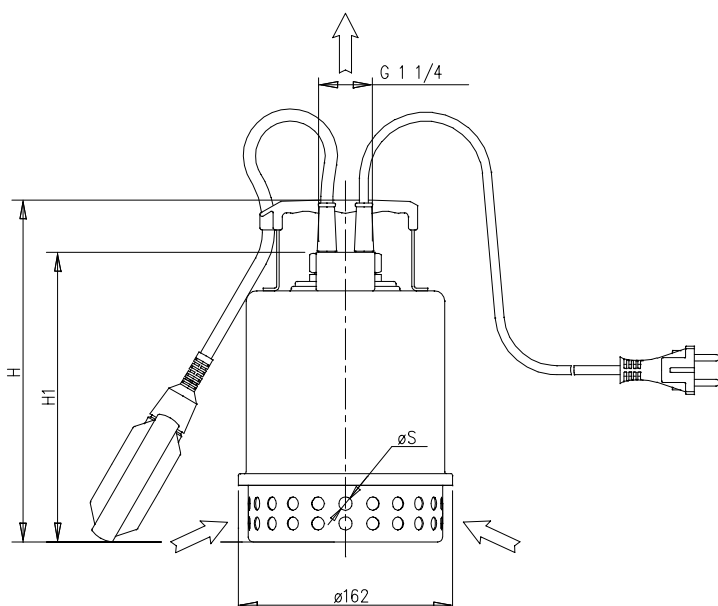
- Obudowa pompy, kosz ssawny, pokrywa obudowy i obudowa silnika: AISI 304
- Wał: AISI 303
- Podwójne uszczelnienie wargowe z komorą olejową na tulejce ceramicznej

### DANE TECHNICZNE

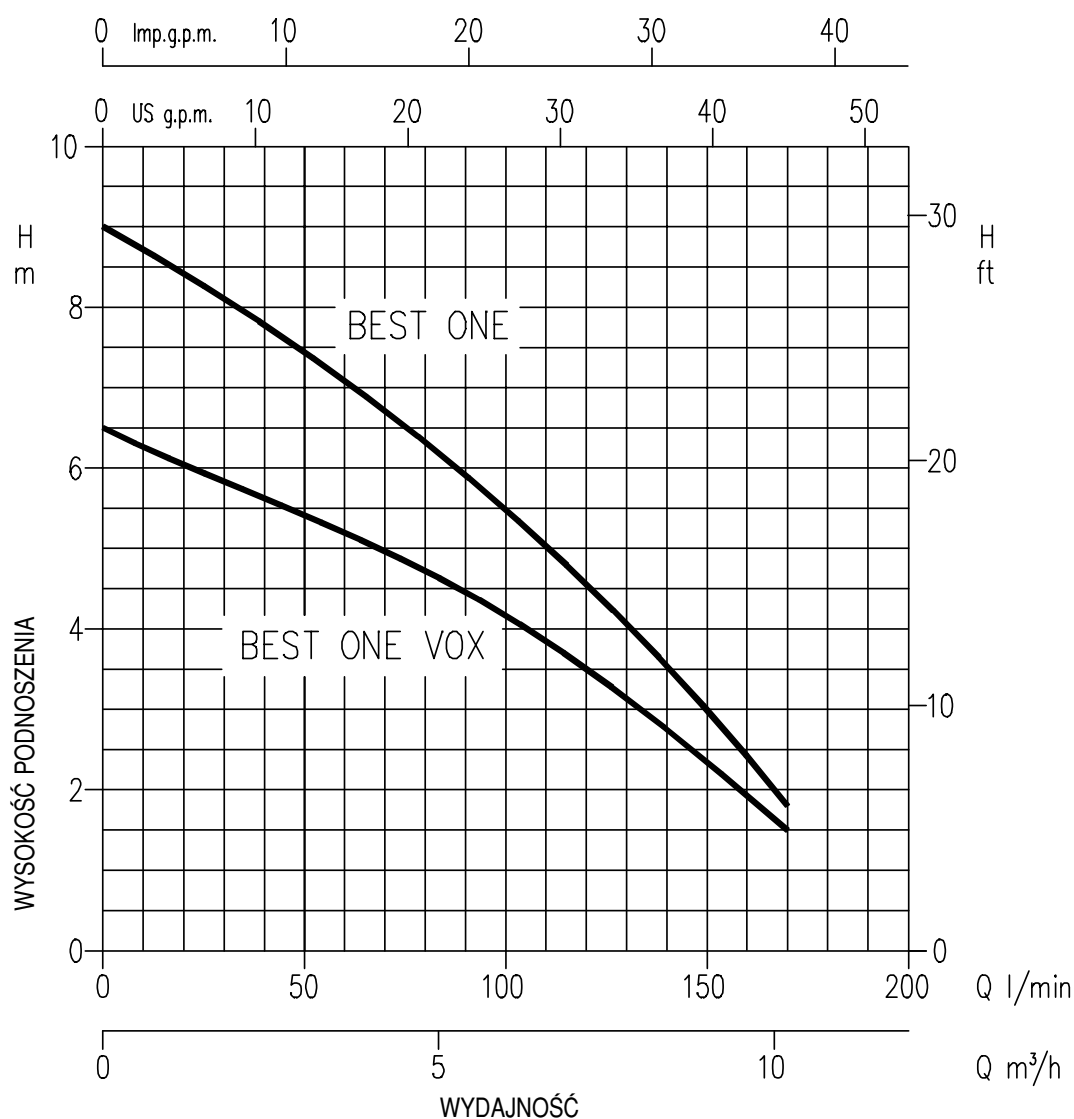
- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony: IP68
- Zasilanie: 1~230V ± 10%50Hz
- DNM 1"1/4

TABELA WYMIARÓW

| Typ pompy    | (mm) |     |    |
|--------------|------|-----|----|
|              | H    | H1  | S  |
| BEST ONE     | 260  | 220 | 10 |
| BEST ONE VOX | 285  | 245 | 20 |



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy           |                     | kW   | Kondensator |     | Prąd pobierany (A) |                 | l/min<br>m³/h | Q=Wydajność                |     |     |     |     |      |
|---------------------|---------------------|------|-------------|-----|--------------------|-----------------|---------------|----------------------------|-----|-----|-----|-----|------|
| Jednofazowa<br>230V | Jednofazowa<br>400V |      | µF          | Vc  | Jedno-<br>fazowa   | Trój-<br>fazowa |               | 20                         | 40  | 80  | 120 | 160 | 170  |
|                     |                     |      |             |     |                    |                 |               | 1,2                        | 2,4 | 4,8 | 7,2 | 9,6 | 10,2 |
|                     |                     |      |             |     |                    |                 |               | H=Wysokość podnoszenia (m) |     |     |     |     |      |
| BEST ONE M          | BEST ONE            | 0,25 |             |     | 2,2                | 1,1             |               | 8,3                        | 7,8 | 6,3 | 4,5 | 2,4 | 1,8  |
| BEST ONE VOX M      | BEST ONE VOX        | 0,25 | 8           | 450 | 2,0                | 1,0             |               | 6                          | 5,6 | 4,8 | 3,5 | 2   | 1,5  |

Pompy zatapialne do wody brudnej oraz ścieków przemysłowych wykonane ze stali nierdzewnej AISI 304. Podwójne uszczelnienie mechaniczne z komorą olejową zapewnia dużą żywotność pompy. Pompa znajduje zastosowanie w studzienkach opadowych, basenach, systemach drenazowych, pompowniach ścieków przemysłowych, do wypompowywania ścieków z otwartych zbiorników itp. Maksymalna średnica zanieczyszczeń 10 mm



### SPECYFIKACJA

- Maksymalna temperatura medium: 50°C  
35°C w/g EN 60335-2-41 dla użytku domowego  
50°C dla innych celów
- Maksymalna głębokość zanurzenia: 10 m
- Maksymalna średnica zanieczyszczeń 10 mm

### MATERIAŁY

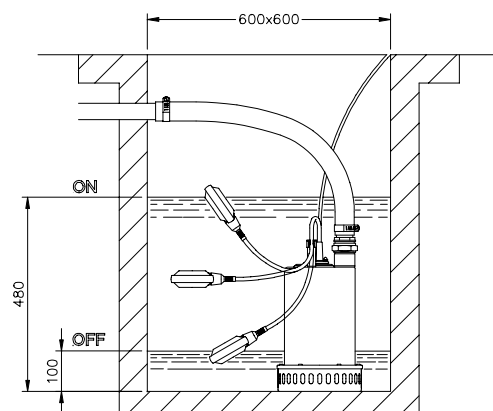
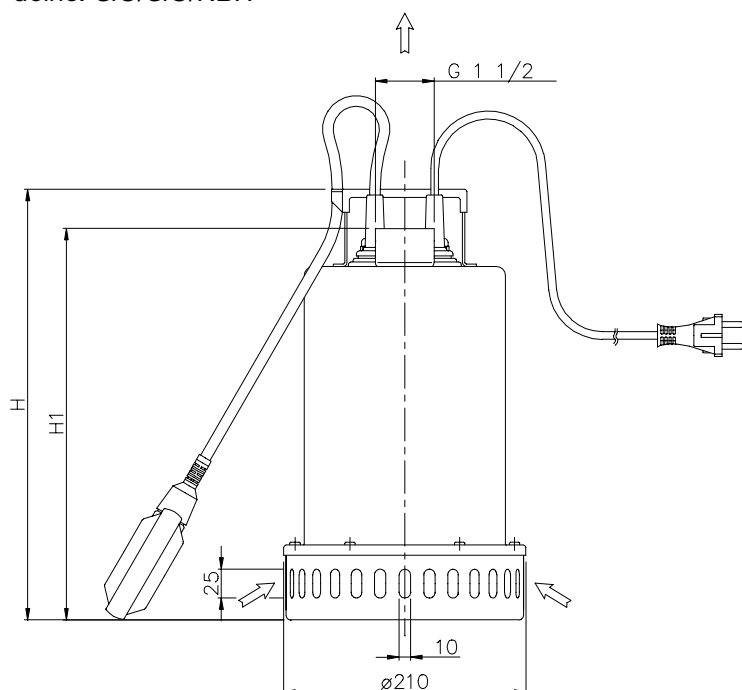
- Obudowa pompy, kosz ssawny, wirnik, pokrywa, obudowa silnika: AISI 304
- Wał: AISI 303
- Podwójne uszczelnienie mechaniczne z komorą olejową:  
górne: węgiel/ceramika/NBR  
dolne: SiC/SiC/NBR

### DANE TECHNICZNE

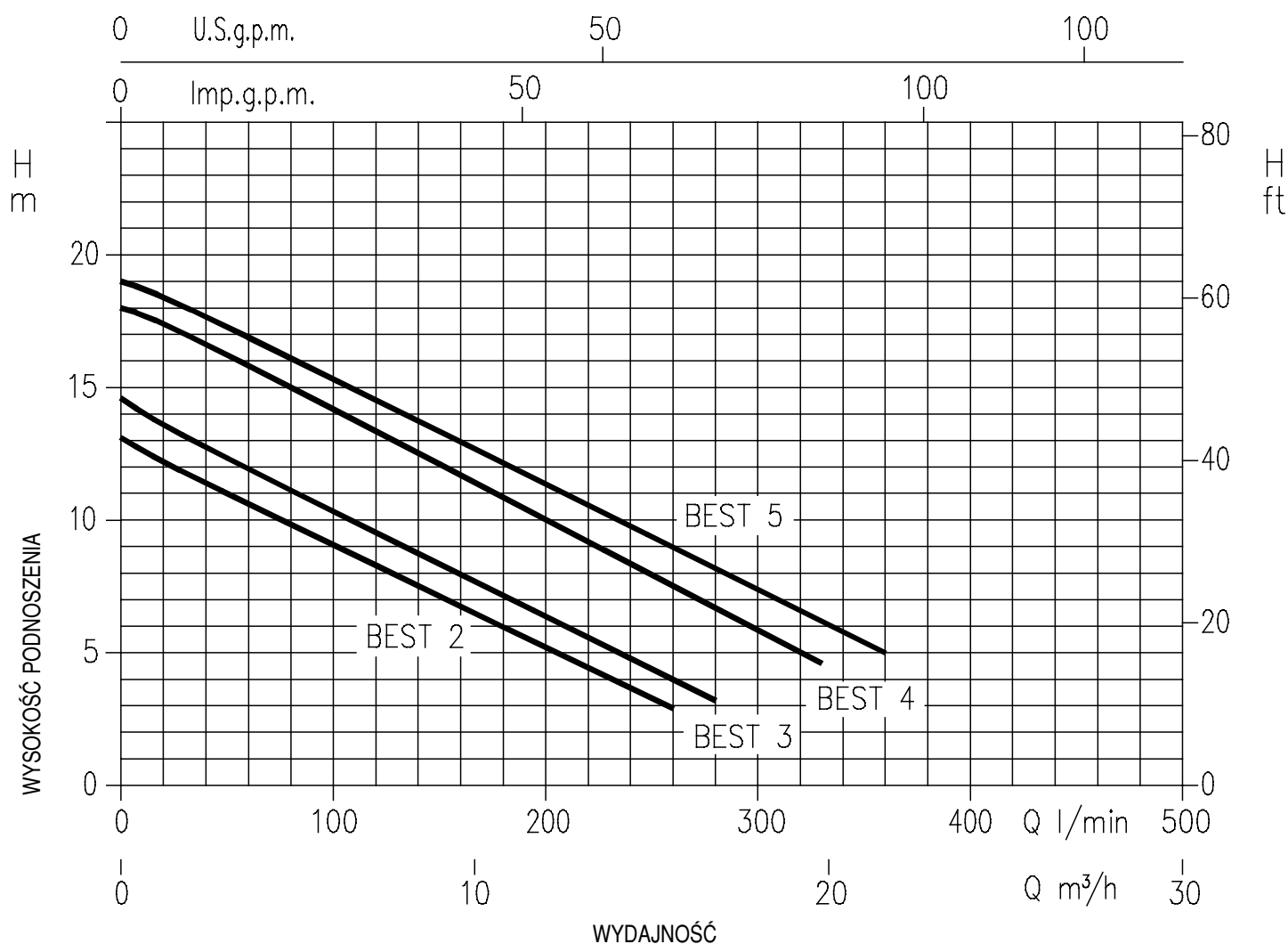
- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony: IP68
- Zasilanie: 1~230V ± 10% 50Hz, 3~400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1"1/2

TABELA WYMIARÓW

| Typ pompy | (mm) |     | Masa<br>Kg |
|-----------|------|-----|------------|
|           | H    | H1  |            |
| BEST 2    | 352  | 315 | 12         |
| BEST 3    | 352  | 315 | 12,7       |
| BEST 4    | 377  | 340 | 138        |
| BEST 5    | 377  | 340 | 13,5       |



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                         | kW   | Kondensator |                | Prąd pobierany (A) |     | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |
|--------------------------|-------------------------|------|-------------|----------------|--------------------|-----|---------------|----------------------------|------|------|------|------|------|------|------|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>400V 50Hz |      | µF          | V <sub>c</sub> | 1~                 | 3~  |               | 20                         | 80   | 120  | 170  | 260  | 280  | 330  | 360  |
|                          |                         |      |             |                |                    |     |               | 1,2                        | 4,8  | 7,2  | 10,2 | 15,6 | 16,8 | 19,8 | 21,6 |
|                          |                         |      |             |                |                    |     |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |
| BEST 2 M                 | BEST 2                  | 0,55 | 16          | 450            | 4,4                | 2,0 |               | 12,2                       | 9,8  | 8,3  | 6,3  | 2,9  | -    | -    | -    |
| BEST 3 M                 | BEST 3                  | 0,75 | 20          | 450            | 5,6                | 2,4 |               | 13,6                       | 11,1 | 9,5  | 7,6  | 4    | 3,2  | -    | -    |
| BEST 4 M                 | BEST 4                  | 1,1  | 31,5        | 450            | 7,3                | 3,0 |               | 17,4                       | 15   | 13,4 | 11,3 | 7,5  | 6,7  | 4,6  | -    |
| -                        | BEST 5                  | 1,5  | -           | -              | -                  | 3,3 |               | 18,4                       | 16,1 | 14,5 | 12,5 | 9    | 8    | 6    | 5    |

Pompy zatapialne do wody brudnej i ścieków, wykonane ze stali nierdzewnej AISI 304. Podwójne mechaniczne uszczelnienie ślizgowe z komorą olejową jest gwarancją dużej żywotności pompy. Przeznaczone do pompowania wody z zawartością zanieczyszczeń stałych. Zastosowanie między innymi w domowych i przemysłowych systemach odprowadzania brudnej wody oraz ścieków. Modele zarówno z, jak i bez pływaka; maksymalna średnica zanieczyszczeń do 35 mm



### SPECYFIKACJA

- Maksymalna temperatura medium: 50°C
- Maksymalna głębokość zanurzenia: 10 m
- Maksymalna średnica zanieczyszczeń: 35 mm

### MATERIAŁY

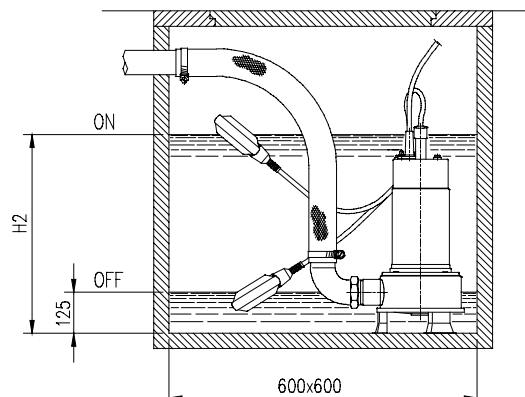
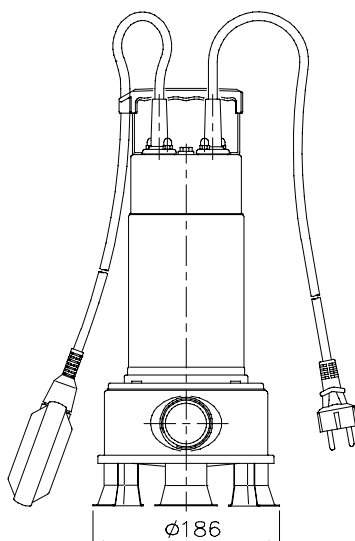
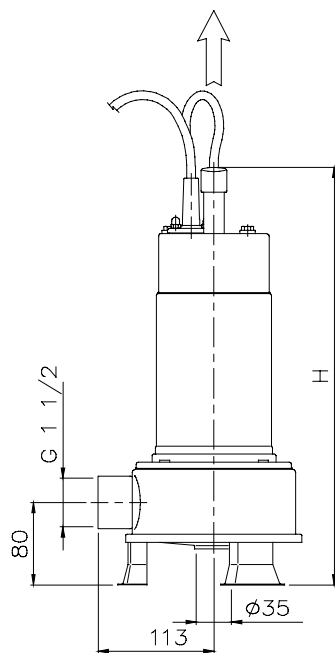
- Obudowa pompy, wirnik, pokrywa, obudowa silnika: AISI 304
- Wał: AISI 303
- Podwójne uszczelnienie mechaniczne z komorą olejową:  
górne: węgiel/ceramika/NBR  
dolne: SiC/SiC/NBR

### DANE TECHNICZNE

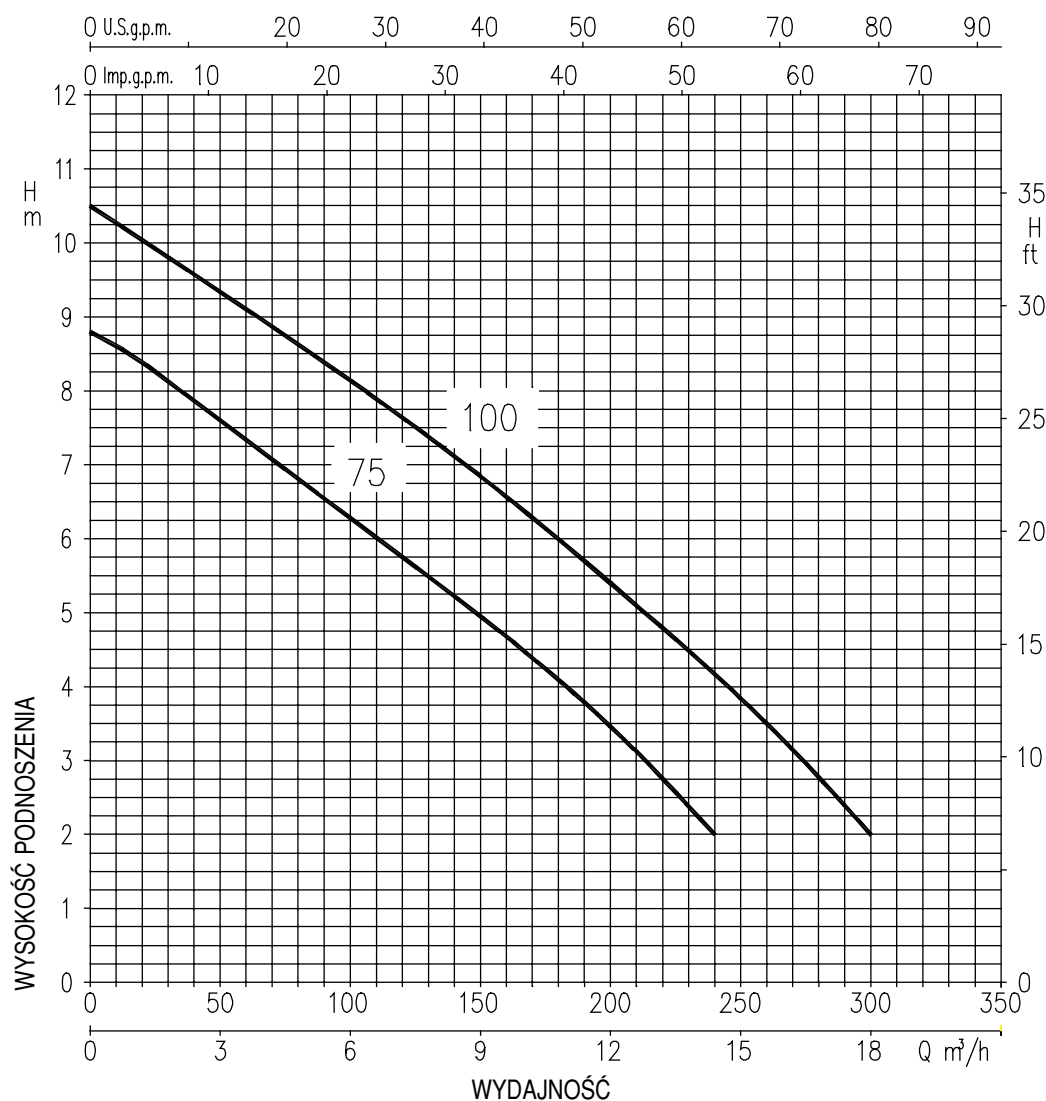
- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony: IP68
- Zasilanie: 1~230V ± 10% 50Hz, 3~400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 1"1/2

### TABELA WYMIARÓW

| Typ pompy | (mm) |     | Masa<br>kg |
|-----------|------|-----|------------|
|           | H    | H2  |            |
| RIGHT 75  | 405  | 480 | 10         |
| RIGHT 100 | 430  | 500 | 11,5       |



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)



### TABELA DANYCH

| Typ pompy                |                         | kW   | Kondensator |                | Prąd pobierany (A) |     | l/min<br>m³/h | Q=Wydajność                |     |     |     |     |     |      |     |
|--------------------------|-------------------------|------|-------------|----------------|--------------------|-----|---------------|----------------------------|-----|-----|-----|-----|-----|------|-----|
| Jednofazowy<br>230V 50Hz | Trójfazowy<br>400V 50Hz |      | μF          | V <sub>c</sub> | 1~                 | 3~  |               | 40                         | 80  | 100 | 120 | 160 | 200 | 240  | 300 |
|                          |                         |      |             |                |                    |     |               | 2,4                        | 4,8 | 6   | 7,2 | 9,6 | 12  | 14,4 | 18  |
|                          |                         |      |             |                |                    |     |               | H=Wysokość podnoszenia (m) |     |     |     |     |     |      |     |
| RIGHT 75 M               | RIGHT 75                | 0,55 | 20          | 450            | 4,8                | 2,1 |               | 7,8                        | 6,8 | 6,2 | 5,7 | 4,7 | 3,4 | 2    | -   |
| RIGHT 100 M              | RIGHT 100               | 0,75 | 31,5        | 450            | 5,7                | 2,6 |               | 9,5                        | 8,6 | 8,1 | 7,6 | 6,6 | 5,4 | 4,2  | 2   |

Pompy zatapialne do ścieków sanitarnych oraz wody brudnej wykonane ze stali nierdzewnej AISI 304, z podwójnym uszczelnieniem mechanicznym dającym gwarancję dużej żywotności i wytrzymałości pompy. Pompy serii DW-DW VOX znajdują zastosowanie szczególnie w domowych systemach kanalizacyjnych, a także systemach odwodnień, drenażu itp. Modele zarówno z jak i bez pływaka; maksymalna średnica zanieczyszczeń do 50 mm



### SPECYFIKACJA

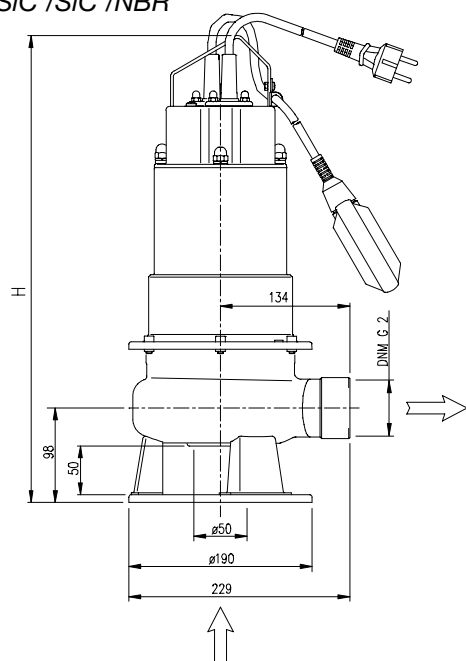
- Maksymalna temperatura medium: 40°C
- Maksymalna głębokość zanurzenia: 10 m
- Maksymalna średnica zanieczyszczeń: 50 mm
- Dostępne wersje wirnika: jednokanałowy (DW), vortex (DW VOX)

### MATERIAŁY

- Obudowa pompy, wirnik, kierownica, obudowa silnika: AISI 304
- Wał: AISI 303
- Podwójne uszczelnienie mechaniczne z komorą olejową:  
górne: węgiel /ceramika /NBR  
dolne: SiC /SiC /NBR

### DANE TECHNICZNE

- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony: IP68
- Zasilanie: 1~230V ± 10% 50Hz, 3~400V ± 10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- DNM 2" (DN 50 dla wersji F)  
DNA 50 (wlot)



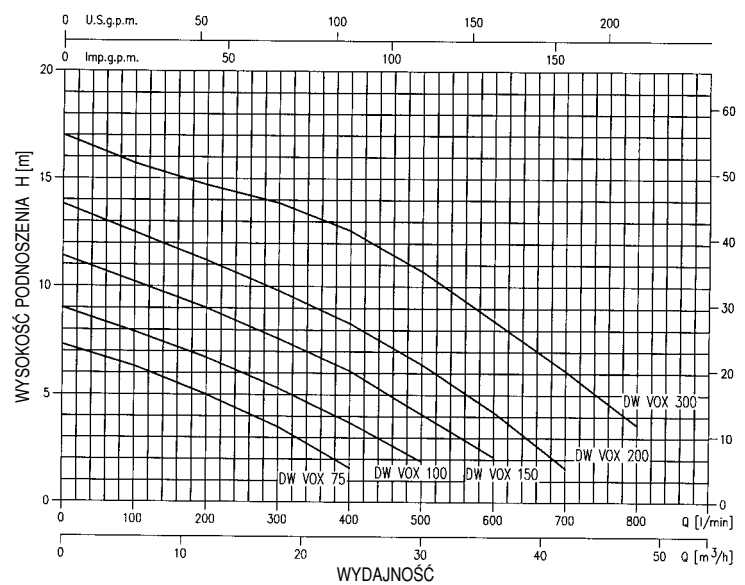
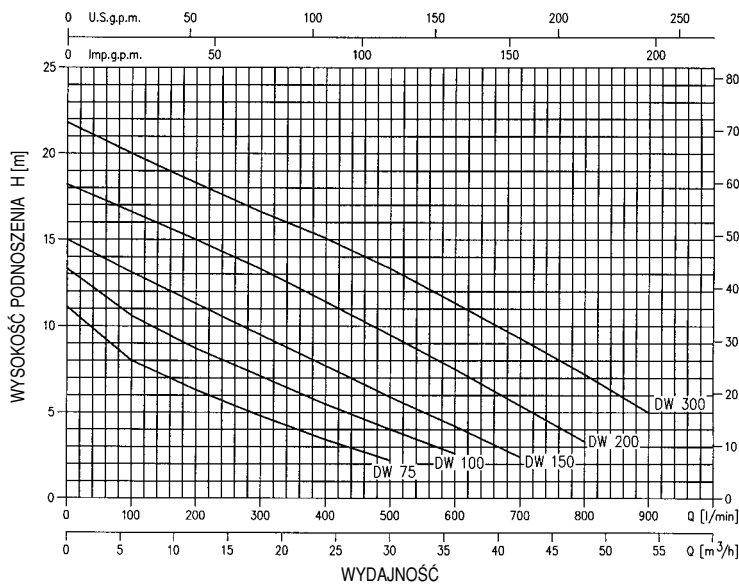
**TABELA WYMIARÓW**

| Typ pompy | Wymiary (mm) | Masa |
|-----------|--------------|------|
|           | H            | kg   |
| DW 75     | 485          | 16   |
| DW 100    | 515          | 18   |
| DW 150    | 515          | 20   |
| DW 200    | 515          | 20   |
| DW 300    | 545          | 26   |

| Typ pompy  | Wymiary (mm) | Masa |
|------------|--------------|------|
|            | H            | kg   |
| DW VOX 75  | 485          | 16   |
| DW VOX 100 | 515          | 18   |
| DW VOX 150 | 515          | 20   |
| DW VOX 200 | 515          | 20   |
| DW VOX 300 | 545          | 26   |



### CHARAKTERYSTYKI HYDRAULICZNE (w/g ISO 9906 Aneks A)

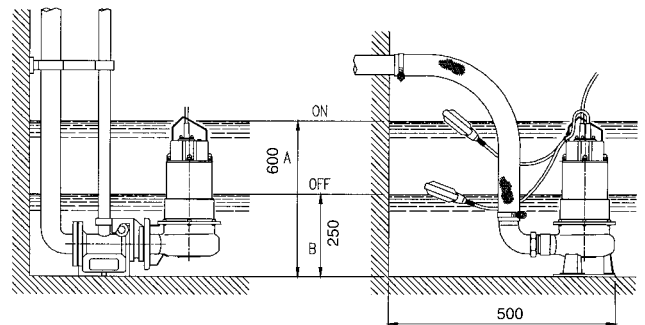
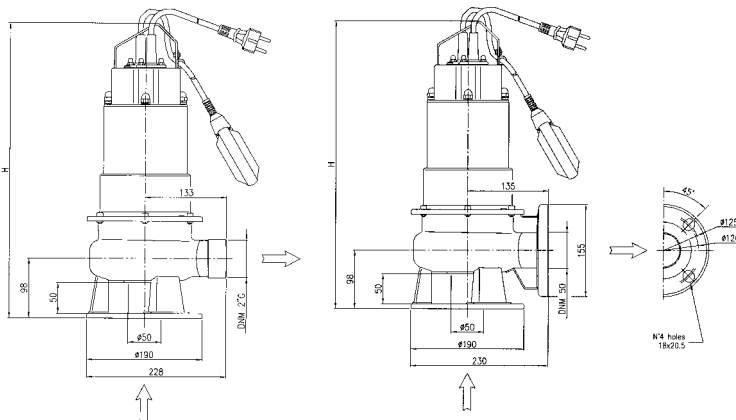


**DW  
DW VOX**

**DWF  
DW VOX F**

**DW FZ  
DW VOX FZ**

**DW  
DW VOX**



**TABELA DANYCH**

| Typ pompy       |                 | kW   | Kondensator |                | Pobór prądu (A) |            | l/min<br>m³/h | Q = Wydajność            |      |      |      |      |      |     |     |     |  |  |
|-----------------|-----------------|------|-------------|----------------|-----------------|------------|---------------|--------------------------|------|------|------|------|------|-----|-----|-----|--|--|
| 1~<br>230V 50Hz | 3~<br>400V 50Hz |      | µF          | V <sub>c</sub> | 1~              | 3~<br>400V |               | 100                      | 200  | 300  | 400  | 500  | 600  | 700 | 800 | 900 |  |  |
|                 |                 |      |             |                |                 |            |               | 6                        | 12   | 18   | 24   | 30   | 36   | 42  | 48  | 54  |  |  |
|                 |                 |      |             |                |                 |            |               | H = Wysokość podnoszenia |      |      |      |      |      |     |     |     |  |  |
| DW 75 M         | DW 75           | 0,55 | 20          | 450            | 3,9             | 1,5        |               | 8                        | 6,3  | 4,8  | 3,4  | 2,2  | -    | -   | -   | -   |  |  |
| DW 100 M        | DW 100          | 0,75 | 25          | 450            | 5,9             | 2,1        |               | 10,6                     | 8,7  | 7,1  | 5,5  | 4    | 2,6  | -   | -   | -   |  |  |
| DW 150 M        | DW 150          | 1,1  | 31,5        | 450            | 7,3             | 2,8        |               | 13,1                     | 11,3 | 9,5  | 7,7  | 5,9  | 4,2  | 2,4 | -   | -   |  |  |
| -               | DW 200          | 1,5  | -           | -              | -               | 3,6        |               | 16,6                     | 15   | 13,3 | 11,4 | 9,5  | 7,5  | 5,4 | 3,3 | 5   |  |  |
| -               | DW 300          | 2,2  | -           | -              | -               | 5,0        |               | 20                       | 18,3 | 16,6 | 15,1 | 13,3 | 11,3 | 9,3 | 7,2 | -   |  |  |
| DW VOX 75 M     | DW VOX 75       | 0,55 | 20          | 450            | 3,9             | 1,4        |               | 6,3                      | 5    | 3,5  | 1,6  | -    | -    | -   | -   | -   |  |  |
| DW VOX 100 M    | DW VOX 100      | 0,75 | 25          | 450            | 5,8             | 2,1        |               | 7,9                      | 6,7  | 5,3  | 3,7  | 1,9  | -    | -   | -   | -   |  |  |
| DW VOX 150 M    | DW VOX 150      | 1,1  | 31,5        | 450            | 7,3             | 2,8        |               | 10,2                     | 9    | 7,6  | 6,1  | 4,1  | 2,1  | -   | -   | -   |  |  |
| -               | DW VOX 200      | 1,5  | -           | -              | -               | 3,3        |               | 12,5                     | 11,2 | 9,8  | 8,3  | 6,4  | 4,2  | 1,6 | -   | -   |  |  |
| -               | DW VOX 300      | 2,2  | -           | -              | -               | 4,4        |               | 15,7                     | 14,7 | 13,9 | 12,6 | 10,7 | 8,4  | 6,1 | 3,6 | -   |  |  |

*Pompy zatapialne do ścieków wykonane z żeliwa.  
Przeznaczone do pompowania ścieków oraz brudnej wody w systemach kanalizacyjnych,  
a także innych instalacjach przemysłowych*



### **SPECYFIKACJA**

- Temperatura medium: max 40°C
- Średnica zanieczyszczeń: max 76 mm

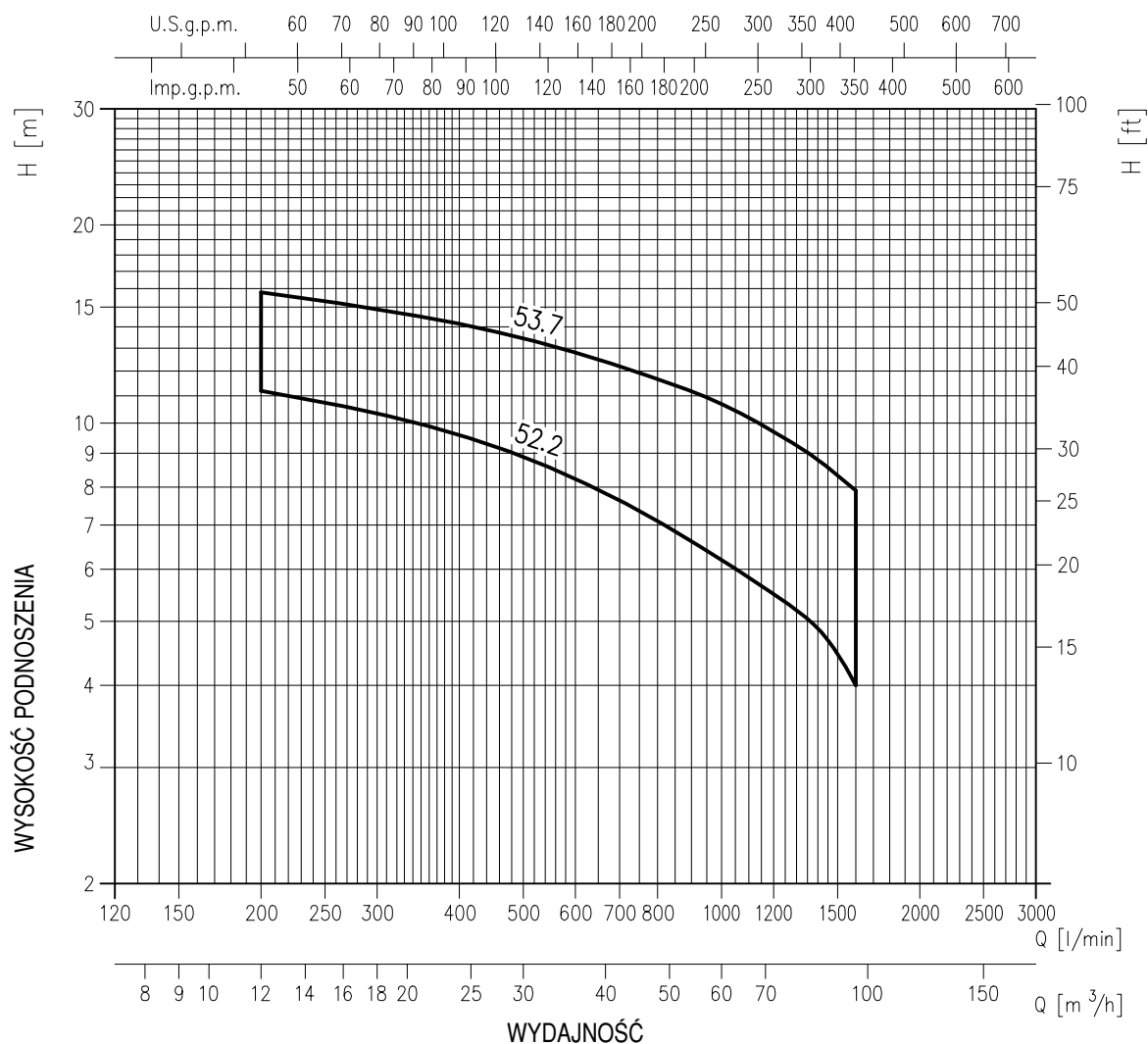
### **MATERIAŁY**

- Korpus pompy, wirnik, kolano: żeliwo
- Wał: stal AISI 403
- Uszczelnienie wału:
  - od strony silnika: węgiel/ceramika/NRB
  - od strony pompy: SiC/SiC/NBR

### **DANE TECHNICZNE**

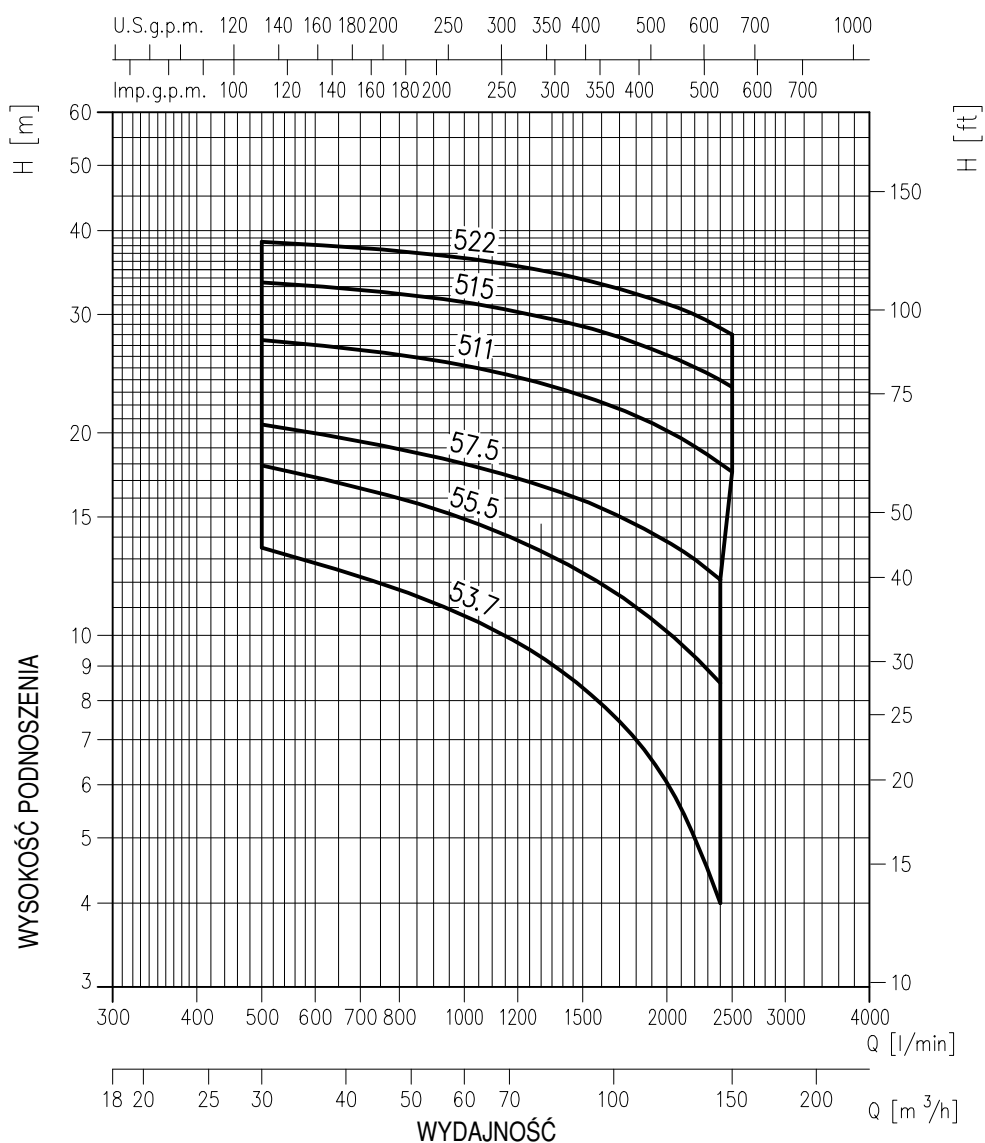
- Silnik: 4- biegunowy
- Klasa izolacji: F
- Stopień ochrony: IP68
- Zasilanie: 3~400V + 10%, 50 Hz
- Kołnierze DN80, DN100, DN 150
- Moc silnika do 22 kW

## CHARAKTERYSTYKI HYDRAULICZNE seria 80 DML (w/g ISO 9906 Aneks A)



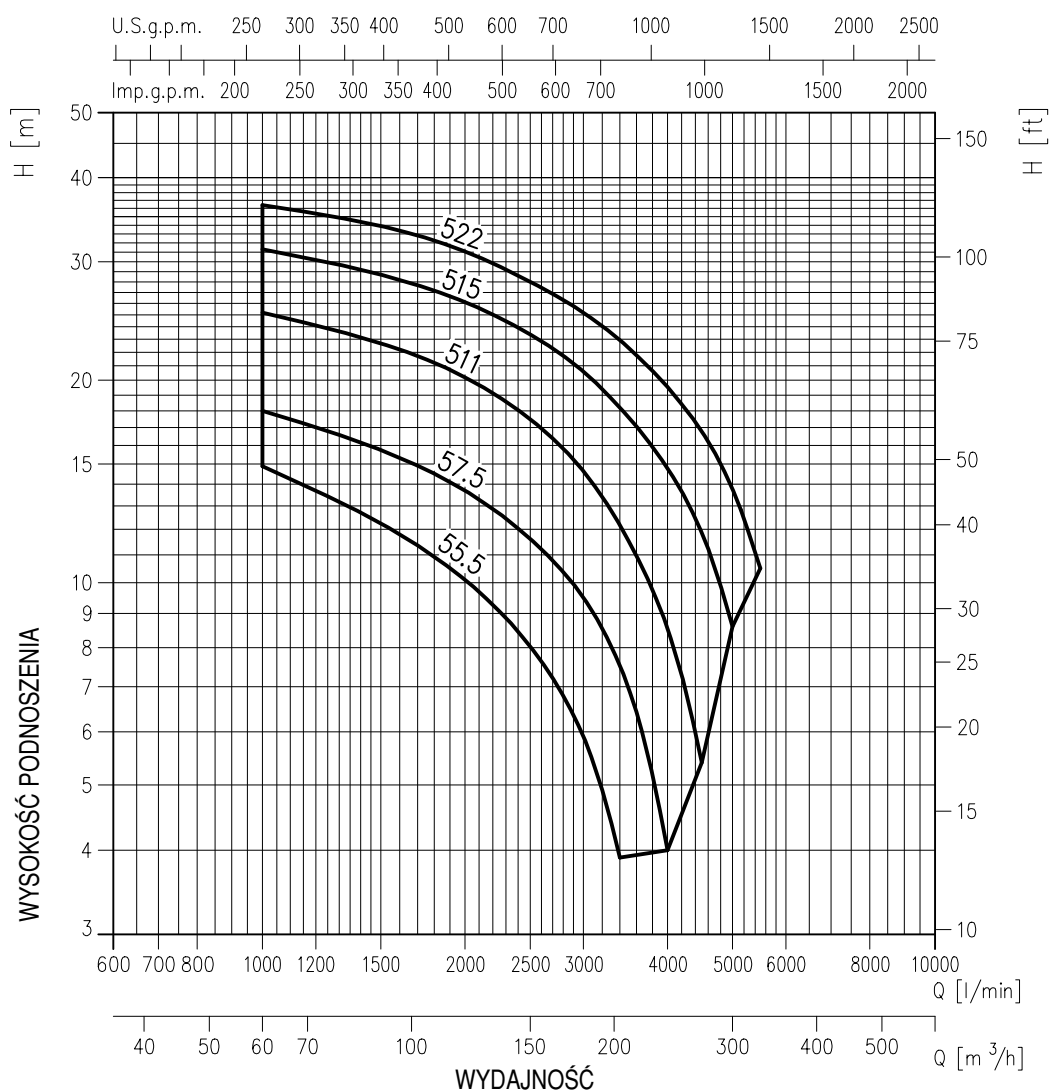
| Typ pompy<br>DML             | kW  | HP | Q = Wydajność |      |      |      |      |      |      |      |      |      |
|------------------------------|-----|----|---------------|------|------|------|------|------|------|------|------|------|
|                              |     |    | l/min         | 0    | 200  | 400  | 600  | 800  | 1000 | 1200 | 1400 | 1600 |
|                              |     |    | m³/h          | 0    | 12   | 24   | 36   | 48   | 60   | 72   | 84   | 96   |
| H = Wysokość podnoszenia [m] |     |    |               |      |      |      |      |      |      |      |      |      |
| 80DML52.2                    | 2.2 | 3  | 13.1          | 11.2 | 9.6  | 8.2  | 7.1  | 6.2  | 5.5  | 4.9  | 4    |      |
| 80DML53.7                    | 3.7 | 5  | 17.9          | 15.8 | 14.2 | 12.8 | 11.7 | 10.7 | 9.7  | 8.8  | 7.9  |      |

## CHARAKTERYSTYKI HYDRAULICZNE seria 100 DML (w/g ISO 9906 Aneks A)



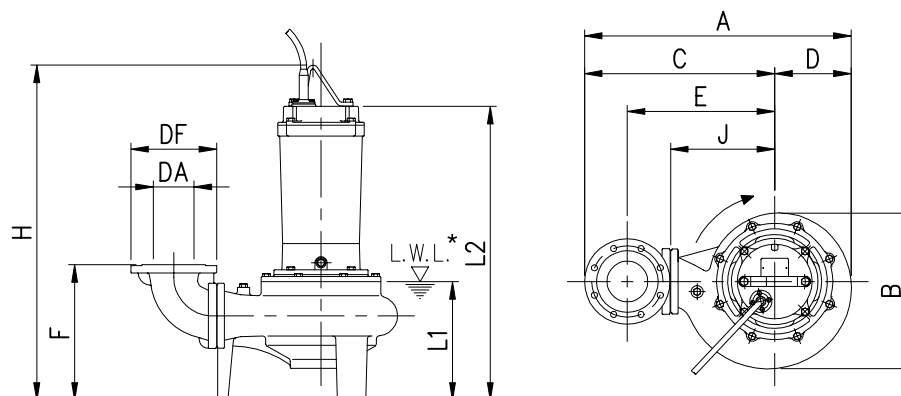
| Typ pompy<br>DML             | kW  | HP  | Q = Wydajność |      |      |      |      |      |      |      |      |      |
|------------------------------|-----|-----|---------------|------|------|------|------|------|------|------|------|------|
|                              |     |     | l/min         | 0    | 500  | 1000 | 1300 | 1600 | 1900 | 2200 | 2400 | 2500 |
|                              |     |     | m³/h          | 0    | 30   | 60   | 78   | 96   | 114  | 132  | 144  | 150  |
| H = Wysokość podnoszenia [m] |     |     |               |      |      |      |      |      |      |      |      |      |
| 100DML53.7                   | 3.7 | 5   | 17.9          | 13.5 | 10.7 | 9.3  | 7.9  | 6.5  | 5    | 4    | –    |      |
| 100DML55.5                   | 5.5 | 7.5 | 22            | 17.9 | 14.9 | 13.4 | 11.9 | 10.6 | 9.3  | 8.5  | –    |      |
| 100DML57.5                   | 7.5 | 10  | 25.3          | 20.6 | 18   | 16.7 | 15.5 | 14.2 | 13   | 12.1 | –    |      |
| 100DML511                    | 11  | 15  | 30.3          | 27.5 | 25.2 | 23.7 | 22.2 | 20.7 | 19.1 | 18   | 17.5 |      |
| 100DML515                    | 15  | 20  | 35            | 33.5 | 31.3 | 29.8 | 28.3 | 26.7 | 25.1 | 24   | 23.4 |      |
| 100DML522                    | 22  | 30  | 40            | 38.5 | 36.4 | 34.9 | 33.3 | 31.7 | 30   | 28.7 | 28   |      |

## CHARAKTERYSTYKI HYDRAULICZNE seria 150 DML (w/g ISO 9906 Aneks A)

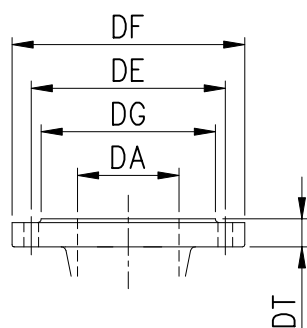


| Typ pompy<br>DML             | kW  | HP  | Q = Wydajność |      |      |      |      |      |      |      |      |      |      |
|------------------------------|-----|-----|---------------|------|------|------|------|------|------|------|------|------|------|
|                              |     |     | l/min         | 0    | 1000 | 2000 | 2500 | 3000 | 3400 | 4000 | 4500 | 5000 | 5500 |
|                              |     |     | m³/h          | 0    | 60   | 120  | 150  | 180  | 204  | 240  | 270  | 300  | 330  |
| H = Wysokość podnoszenia [m] |     |     |               |      |      |      |      |      |      |      |      |      |      |
| 150DML55.5                   | 5.5 | 7.5 | 22            | 14.9 | 10.1 | 8    | 5.9  | 3.9  | –    | –    | –    | –    |      |
| 150DML57.5                   | 7.5 | 10  | 25.3          | 18   | 13.7 | 11.6 | 9.5  | 7.5  | 4    | –    | –    | –    |      |
| 150DML511                    | 11  | 15  | 30.3          | 25.2 | 20.2 | 17.5 | 14.7 | 12.2 | 8.6  | 5.4  | –    | –    |      |
| 150DML515                    | 15  | 20  | 35            | 31.3 | 26.1 | 23.4 | 20.6 | 18.2 | 14.8 | 11.9 | 8.6  | –    |      |
| 150DML522                    | 22  | 30  | 40            | 36.4 | 31.1 | 28   | 25.2 | 22.9 | 19.5 | 16.8 | 13.8 | 10.5 |      |

## WYMIARY



\* L.W.L. = poziom wody



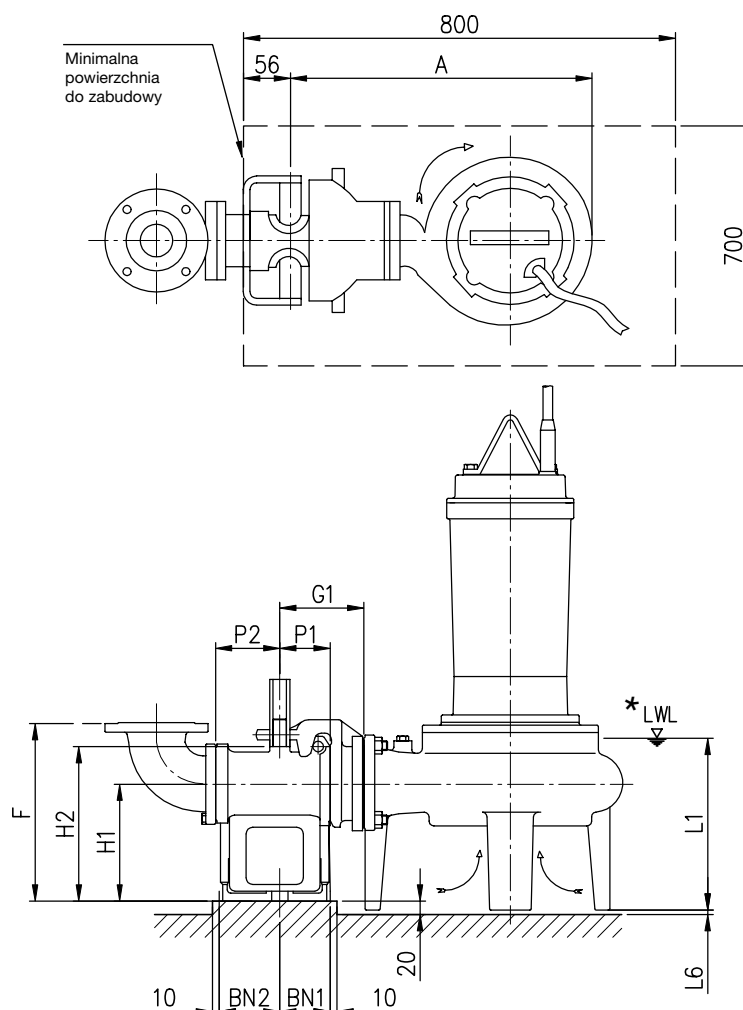
### KOŁNIERZ

| DA  | DG  | DE  | DF  | DT |
|-----|-----|-----|-----|----|
| 80  | 138 | 160 | 200 | 22 |
| 100 | 158 | 180 | 220 | 24 |
| 150 | 212 | 240 | 285 | 26 |

### TABELA WYMIARÓW

| Typ pompy<br>DML | Wymiary |     |       |     |       |     |     |     |      |     |     |     | Masa<br>kg |
|------------------|---------|-----|-------|-----|-------|-----|-----|-----|------|-----|-----|-----|------------|
|                  | DA      | kW  | A     | B   | C     | D   | E   | F   | H    | J   | L1  | L2  |            |
| 80DML52.5        | 80      | 2.2 | 542   | 320 | 385   | 157 | 285 | 308 | 668  | 210 | 279 | 547 | 80         |
| 80DML53.7        | 80      | 3.7 | 542   | 320 | 385   | 157 | 285 | 308 | 727  | 210 | 279 | 627 | 87         |
| 100DML53.7       | 100     | 3.7 | 582   | 320 | 425   | 157 | 315 | 313 | 727  | 210 | 279 | 627 | 89         |
| 100DML55.5       | 100     | 5.5 | 658   | 381 | 470   | 188 | 360 | 339 | 824  | 255 | 310 | 724 | 121        |
| 100DML57.5       | 100     | 7.5 | 658   | 381 | 470   | 188 | 360 | 339 | 824  | 255 | 310 | 724 | 125        |
| 100DML511        | 100     | 11  | 751   | 455 | 530   | 221 | 420 | 355 | 938  | 315 | 329 | 778 | 160        |
| 100DML515        | 100     | 15  | 751   | 455 | 530   | 221 | 420 | 355 | 938  | 315 | 329 | 778 | 166        |
| 100DML522        | 100     | 22  | 795   | 497 | 550   | 245 | 440 | 358 | 1021 | 335 | 342 | 841 | 226        |
| 150DML55.5       | 150     | 5.5 | 715.5 | 381 | 527.5 | 188 | 385 | 369 | 824  | 255 | 310 | 724 | 127        |
| 150DML57.5       | 150     | 7.5 | 715.5 | 381 | 527.5 | 188 | 385 | 369 | 824  | 255 | 310 | 724 | 132        |
| 150DML511        | 150     | 11  | 808.5 | 455 | 587.5 | 221 | 445 | 385 | 938  | 315 | 329 | 778 | 166        |
| 150DML515        | 150     | 15  | 808.5 | 455 | 587.5 | 221 | 445 | 385 | 938  | 315 | 329 | 778 | 172        |
| 150DML522        | 150     | 22  | 852.5 | 497 | 607.5 | 245 | 465 | 388 | 1021 | 335 | 342 | 841 | 232        |

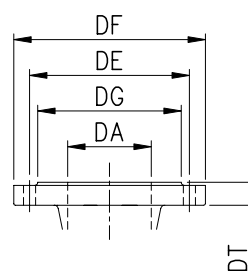
## ZESTAW AUTOZŁĄCZA Z KOLANEM – WYMIARY LM80 80(100)DML 52.2, 53.7



\* LWL = poziom wody

### KOŁNIERZ

| DA  | DG  | DE  | DF  | DT |
|-----|-----|-----|-----|----|
| 80  | 138 | 160 | 200 | 22 |
| 100 | 158 | 180 | 220 | 24 |

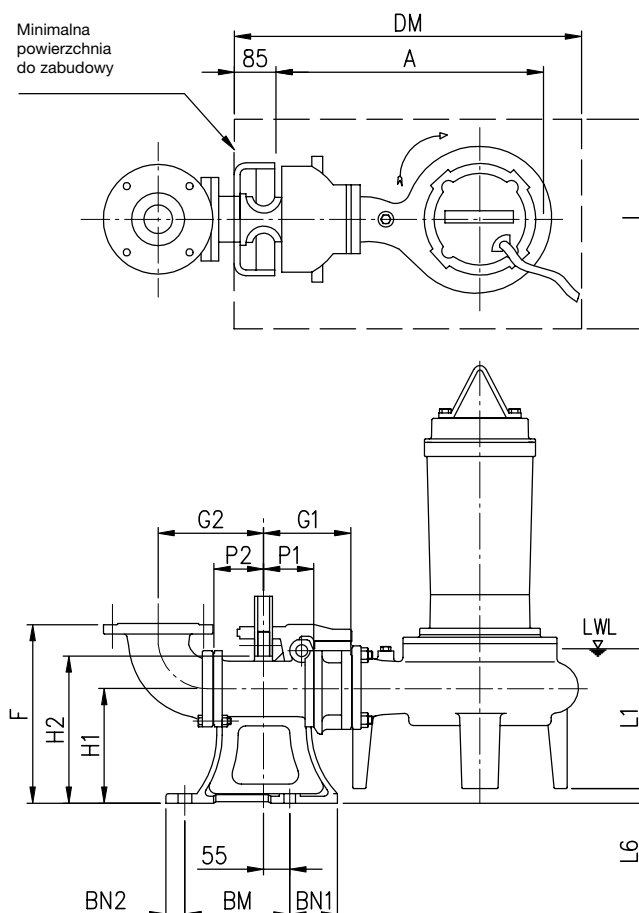


### TABELA WYMIARÓW

| Typ pompy<br>DML | Wymiary |    |    |     |     |     |     |     |     |    |     |     |    |     | Autozłącze | Masa<br>kg |
|------------------|---------|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|------------|------------|
|                  | A       | P1 | P2 | G1  | G2  | F   | H1  | H2  | L1  | L6 | BN1 | BN2 | D1 | E1  |            |            |
| 80DML52.2        | 492     | 75 | 90 | 125 | 165 | 295 | 175 | 230 | 279 | 7  | 75  | 90  | 15 | 155 | LM80       | 17         |
| 80DML53.7        | 492     | 75 | 90 | 125 | 165 | 295 | 175 | 230 | 279 | 7  | 75  | 90  | 15 | 155 | LM80       | 17         |
| 100DML53.7       | 492     | 75 | 90 | 125 | 195 | 300 | 175 | 230 | 279 | 7  | 75  | 90  | 15 | 155 | LM80       | 17         |

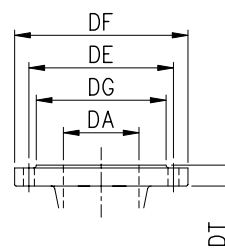


## ZESTAW AUTOZŁĄCZA Z KOLANEM – WYMIARY LL100 100 (150) DML



### KOŁNIERZ

| DA  | DG  | DE  | DF  | DT |
|-----|-----|-----|-----|----|
| 100 | 158 | 180 | 220 | 24 |
| 150 | 212 | 240 | 285 | 26 |



### TABELA WYMIARÓW

| Typ pompy<br>DML | Wymiary |     |     |     |     |     |     |     |     |    |     |     |     |      |     |    |     | Autozłącze | Masa<br>kg |
|------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|-----|----|-----|------------|------------|
|                  | A       | P1  | P2  | G1  | G2  | F   | H1  | H2  | L1  | L6 | BN1 | BN2 | BM  | DM   | I   | D1 | E1  |            |            |
| 100DML55.5       | 628     | 105 | 105 | 185 | 210 | 370 | 240 | 265 | 310 | 31 | 100 | 40  | 220 | 800  | 700 | 19 | 175 | LL100      | 46         |
| 100DML57.5       | 628     | 105 | 105 | 185 | 210 | 370 | 240 | 265 | 310 | 31 | 100 | 40  | 220 | 800  | 700 | 19 | 175 | LL100      | 46         |
| 100DML511        | 721     | 105 | 105 | 185 | 210 | 370 | 240 | 265 | 329 | 15 | 100 | 40  | 220 | 1000 | 700 | 19 | 175 | LL100      | 46         |
| 100DML515        | 721     | 105 | 105 | 185 | 210 | 370 | 240 | 265 | 329 | 15 | 100 | 40  | 220 | 1000 | 700 | 19 | 175 | LL100      | 46         |
| 100DML522        | 765     | 105 | 105 | 185 | 210 | 370 | 240 | 265 | 342 | 12 | 100 | 40  | 220 | 1000 | 700 | 19 | 175 | LL100      | 46         |
| 150DML55.5       | 628     | 105 | 105 | 185 | 235 | 400 | 240 | 265 | 310 | 31 | 100 | 40  | 220 | 800  | 700 | 19 | 175 | LL100      | 46         |
| 150DML57.5       | 628     | 105 | 105 | 185 | 235 | 400 | 240 | 265 | 310 | 31 | 100 | 40  | 220 | 800  | 700 | 19 | 175 | LL100      | 46         |
| 150DML511        | 721     | 105 | 105 | 185 | 235 | 400 | 240 | 265 | 329 | 15 | 100 | 40  | 220 | 1000 | 700 | 19 | 175 | LL100      | 46         |
| 150DML515        | 721     | 105 | 105 | 185 | 235 | 400 | 240 | 265 | 329 | 15 | 100 | 40  | 220 | 1000 | 700 | 19 | 175 | LL100      | 46         |
| 150DML522        | 765     | 105 | 105 | 185 | 235 | 400 | 240 | 265 | 342 | 12 | 100 | 40  | 220 | 1000 | 700 | 19 | 175 | LL100      | 46         |

Pompy odśrodkowe „in-line” wykonane ze stali nierdzewnej AISI 304.

Zastosowanie: jako pompy obiegowe w systemach klimatyzacyjnych i grzewczych, jak również w innych instalacjach w przemyśle. Lekka konstrukcja pomp serii LPS powoduje, iż mogą być one instalowane bezpośrednio na rurociągach



## SPECYFIKACJA

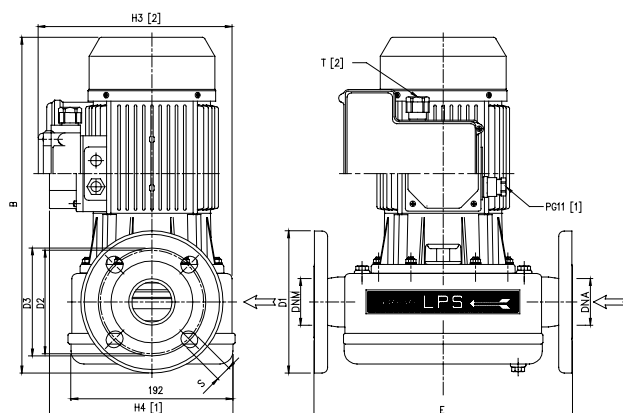
- Maksymalne ciśnienie napływu:  
2 bar dla wersji jednofazowej i trójfaz. modelu LPS 25  
4 bar dla trójfazowych modeli LPS 32-40-50
- Maksymalna temperatura medium: 100°C

## MATERIAŁY

- Obudowa pompy, wirnik, pokrywa : AISI 304
- Wał: AISI 303
- Wspornik i obudowa silnika: aluminium
- Uszczelnienie mechaniczne: węgiel /ceramika /NBR

## DANE TECHNICZNE

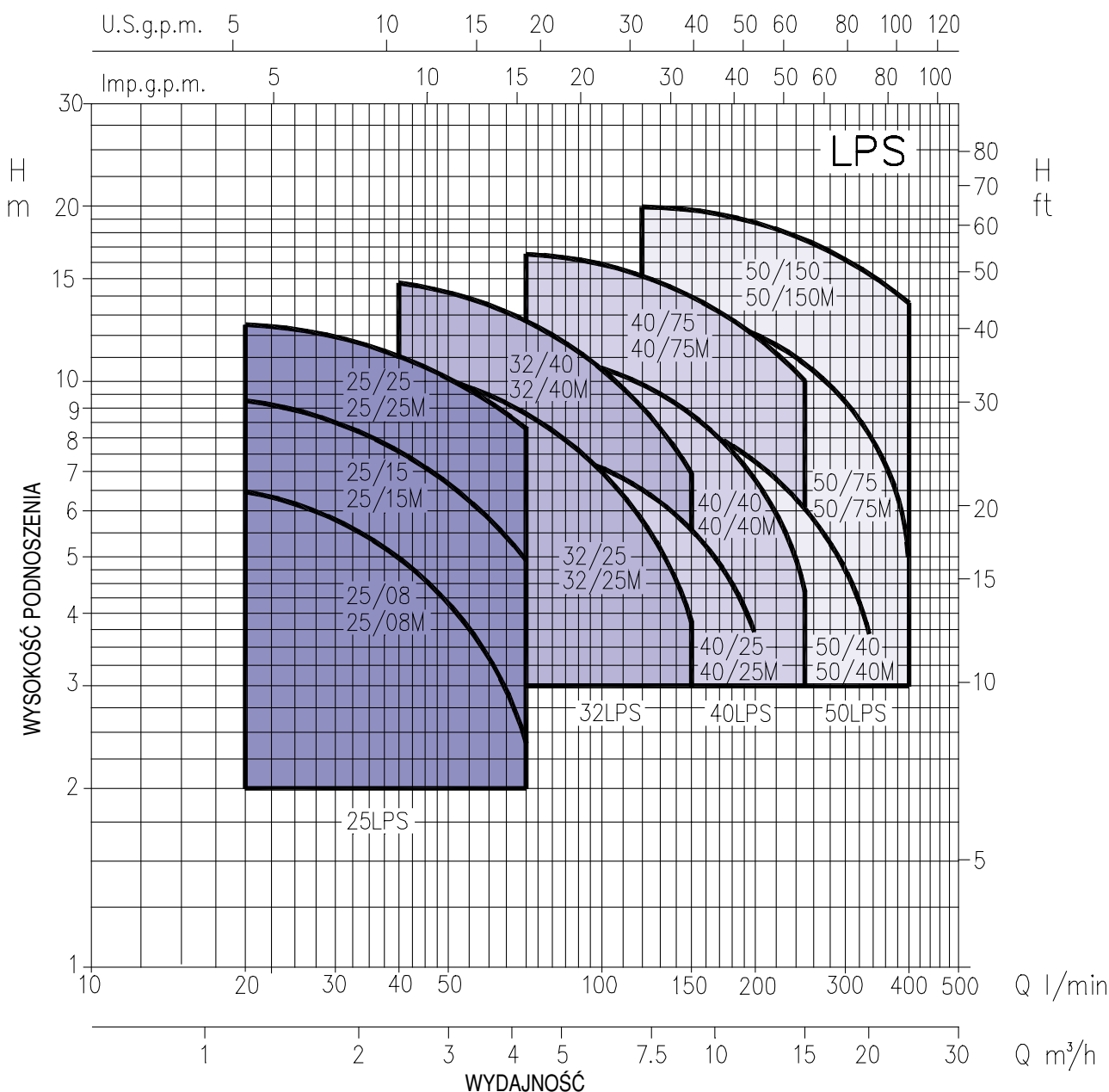
- Asynchroniczny silnik dwubiegunowy
- Klasa izolacji F
- Stopień ochrony: IP55
- Zasilanie: 1~230V  $\pm$  10% 50Hz, 3~400V  $\pm$  10% 50Hz
- Wbudowany kondensator rozruchowy oraz zabezpieczenie przeciążeniowe dla wersji jednofazowej
- Zabezpieczenie silnika trójfazowego w gestii użytkownika
- Kołnierz: PN10



## TABELA WYMIARÓW

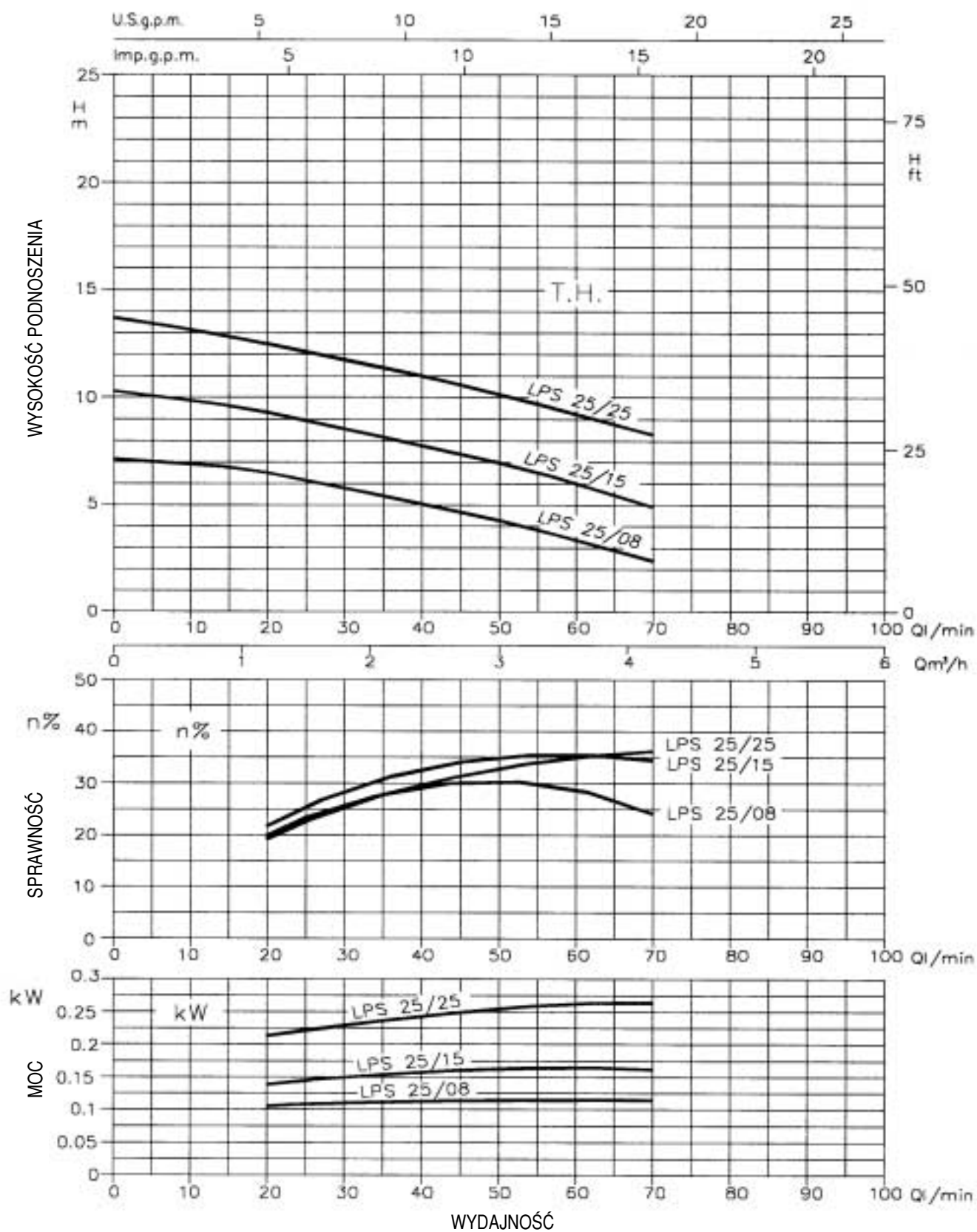
| Typ pompy  | Wymiary (mm) |       |     |     |        |     |     |     |     |     |    | Masa<br>Kg |
|------------|--------------|-------|-----|-----|--------|-----|-----|-----|-----|-----|----|------------|
|            | E            | B     | H3  | H4  | T      | DNA | DNM | D1  | D2  | D3  | S  |            |
| LPS 25/08  | 300          | 320,5 | 181 | 171 | PG11   | 25  | 25  | 115 | 85  | 85  | 14 | 12,8       |
| LPS 25/15  | 300          | 320,5 | 181 | 171 | PG11   | 25  | 25  | 115 | 85  | 85  | 14 | 12,8       |
| LPS 25/25  | 300          | 320,5 | 181 | 171 | PG11   | 25  | 25  | 115 | 85  | 85  | 14 | 12,9       |
| LPS 32/25  | 305          | 340   | 181 | 171 | PG11   | 32  | 32  | 140 | 100 | 100 | 18 | 14,6       |
| LPS 32/40  | 305          | 340   | 181 | 171 | PG11   | 32  | 32  | 140 | 100 | 100 | 18 | 14,6       |
| LPS 40/25  | 305          | 345   | 181 | 171 | PG11   | 40  | 40  | 150 | 105 | 110 | 18 | 13,0       |
| LPS 40/40  | 305          | 345   | 181 | 171 | PG11   | 40  | 40  | 150 | 105 | 110 | 18 | 14,0       |
| LPS 40/75  | 305          | 345   | 181 | 171 | PG11   | 40  | 40  | 150 | 105 | 110 | 18 | 13,0       |
| LPS 50/40  | 310          | 357,5 | 181 | 171 | PG11   | 50  | 50  | 165 | 120 | 125 | 18 | 14,5       |
| LPS 50/75  | 310          | 357,5 | 181 | 171 | PG11   | 50  | 50  | 165 | 120 | 125 | 18 | 15,0       |
| LPS 50/150 | 310          | 389,5 | 213 | 194 | PG13,5 | 50  | 50  | 165 | 120 | 125 | 18 | 18,5       |

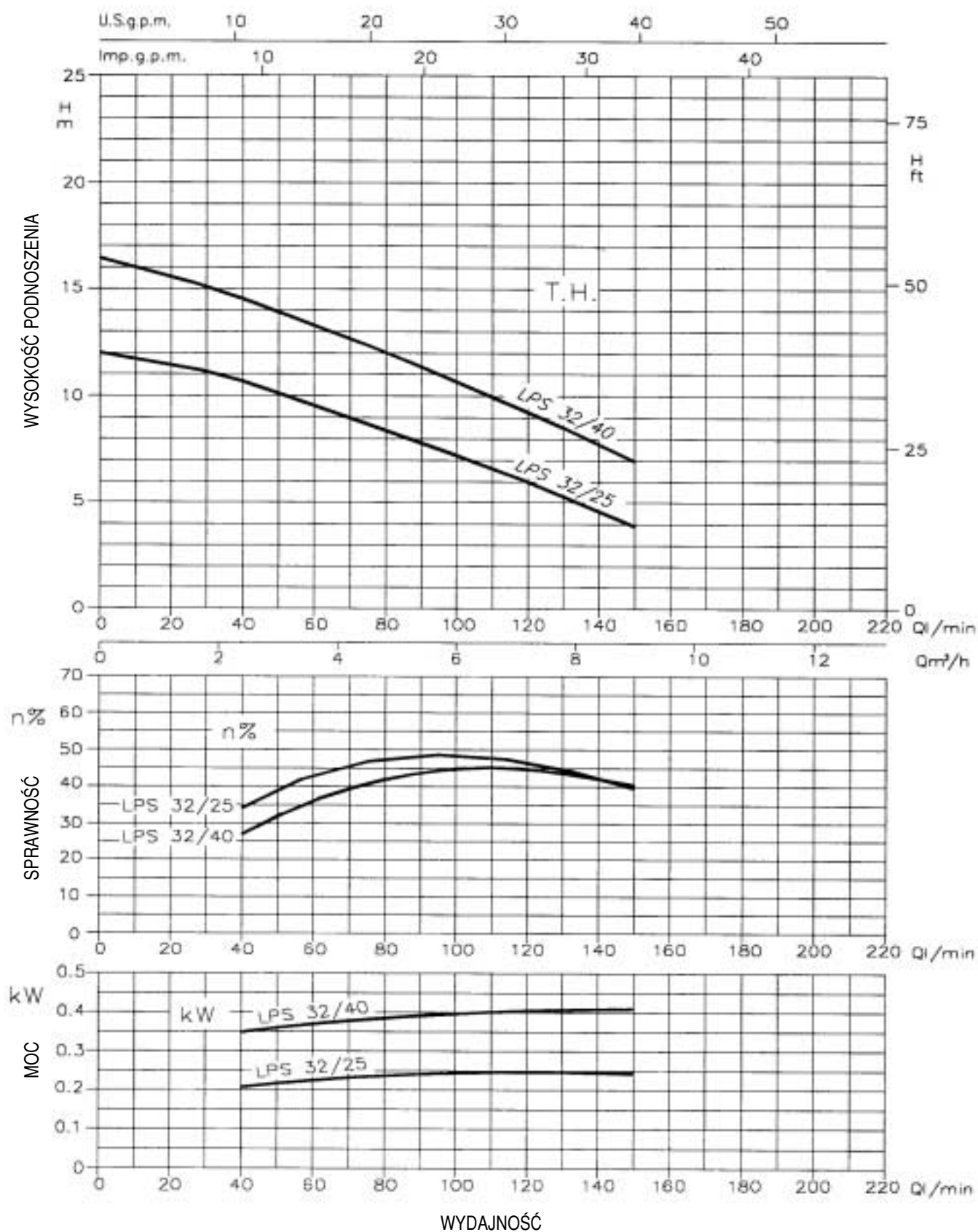
## ZAKRES STOSOWANIA (w/g ISO 9906 Aneks A)


**TABELA DANYCH**

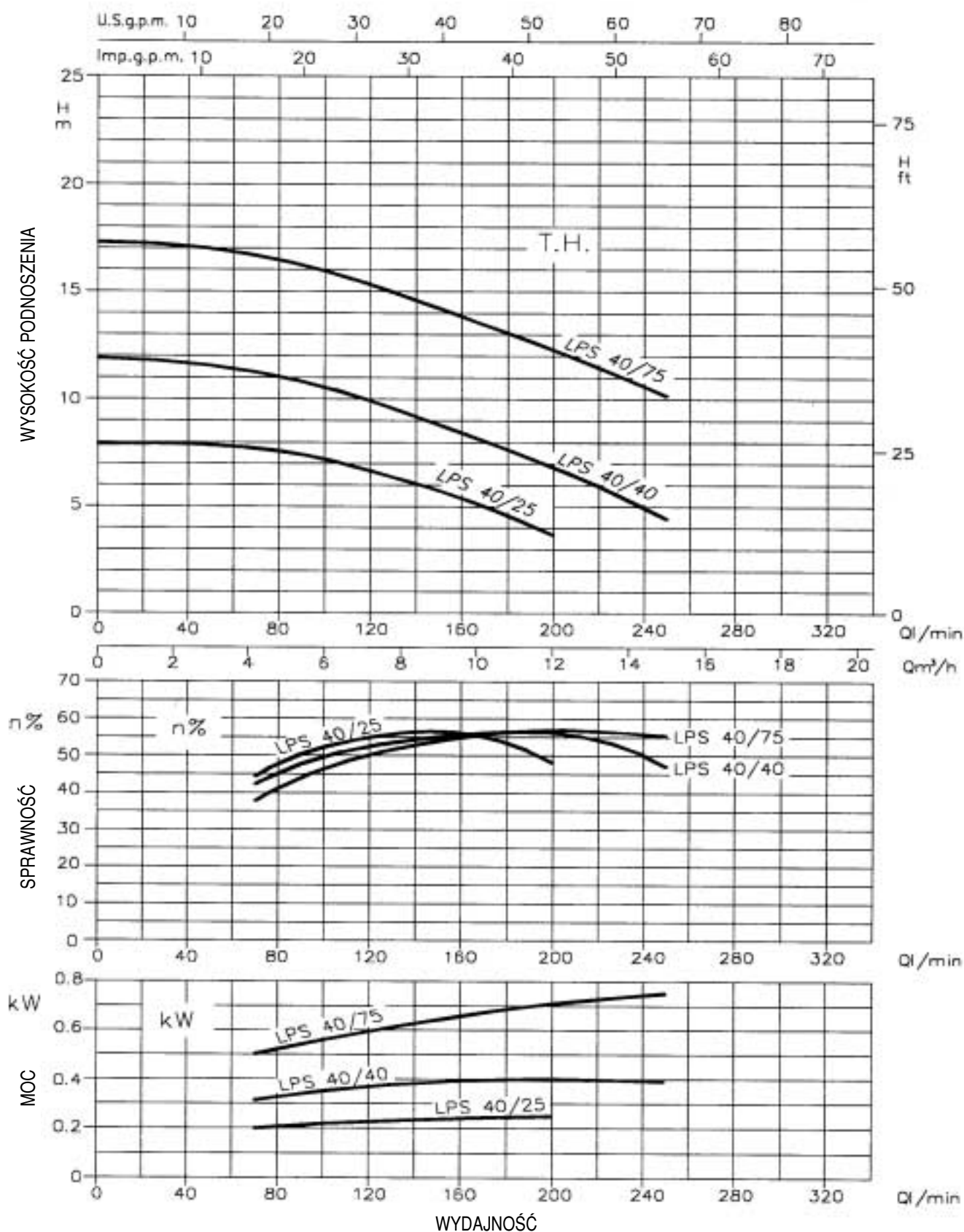
| Typ pompy                |                             | kW   | Kondensator |                | Prąd pobierany (A) |      |            | l/min<br>m³/h | Q=Wydajność                |      |      |      |      |      |      |      |     |      |  |
|--------------------------|-----------------------------|------|-------------|----------------|--------------------|------|------------|---------------|----------------------------|------|------|------|------|------|------|------|-----|------|--|
| Jednofazowa<br>230V 50Hz | Trójfazowa<br>230/400V 50Hz |      | µF          | V <sub>c</sub> | 1~                 | 230V | 3~<br>400V |               | 20                         | 40   | 70   | 100  | 120  | 150  | 200  | 250  | 320 | 400  |  |
|                          |                             |      |             |                |                    |      |            |               | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |     |      |  |
| LPS 25/08 M              | LPS 25/08                   | 0,08 | 12,5        | 450            | 1,51               | 1,7  | 1,01       |               | 6,5                        | 5    | 2,4  | -    | -    | -    | -    | -    | -   | -    |  |
| LPS 25/15 M              | LPS 25/15                   | 0,15 | 12,5        | 450            | 1,67               | 1,8  | 1,03       |               | 9,3                        | 7,8  | 4,9  | -    | -    | -    | -    | -    | -   | -    |  |
| LPS 25/25 M              | LPS 25/25                   | 0,25 | 12,5        | 450            | 2,04               | 1,9  | 1,11       |               | 12,5                       | 11,1 | 8,4  | -    | -    | -    | -    | -    | -   | -    |  |
| LPS 32/25 M              | LPS 32/25                   | 0,25 | 12,5        | 450            | 2,0                | 1,8  | 1,03       |               | -                          | 10,7 | 9,1  | 7,2  | 5,9  | 3,9  | -    | -    | -   | -    |  |
| LPS 32/40 M              | LPS 32/40                   | 0,4  | 12,5        | 450            | 2,74               | 2,2  | 1,25       |               | -                          | 14,5 | 12,7 | 10,6 | 9,2  | 7    | -    | -    | -   | -    |  |
| LPS 40/25 M              | LPS 40/25                   | 0,25 | 12,5        | 450            | 1,98               | 1,9  | 1,09       |               | -                          | -    | 7,8  | 7,1  | 6,6  | 5,6  | 3,7  | -    | -   | -    |  |
| LPS 40/40 M              | LPS 40/40                   | 0,4  | 12,5        | 450            | 2,75               | 2,2  | 1,25       |               | -                          | -    | 11,3 | 10,4 | 9,9  | 8,7  | 6,9  | 4,4  | -   | -    |  |
| LPS 40/75 M              | LPS 40/75                   | 0,75 | 25          | 450            | 4,86               | 4,0  | 2,29       |               | -                          | -    | 16,6 | 16   | 15,2 | 14,1 | 12,3 | 10,1 | -   | -    |  |
| LPS 50/40 M              | LPS 50/40                   | 0,4  | 12,5        | 450            | 2,74               | 2,2  | 1,25       |               | -                          | -    | -    | -    | 9,1  | 8,8  | 7,4  | 5,9  | 3,5 | -    |  |
| LPS 50/75 M              | LPS 50/75                   | 0,75 | 25          | 450            | 4,9                | 3,9  | 2,26       |               | -                          | -    | -    | -    | 13,8 | 13,3 | 12,3 | 10,7 | 8,2 | 5    |  |
| LPS 50/150 M             | LPS 50/150                  | 1,5  | 35          | 450            | 8,07               | 5,7  | 3,31       |               | -                          | -    | -    | -    | 19,8 | 19,3 | 18,7 | 17,8 | 16  | 13,7 |  |

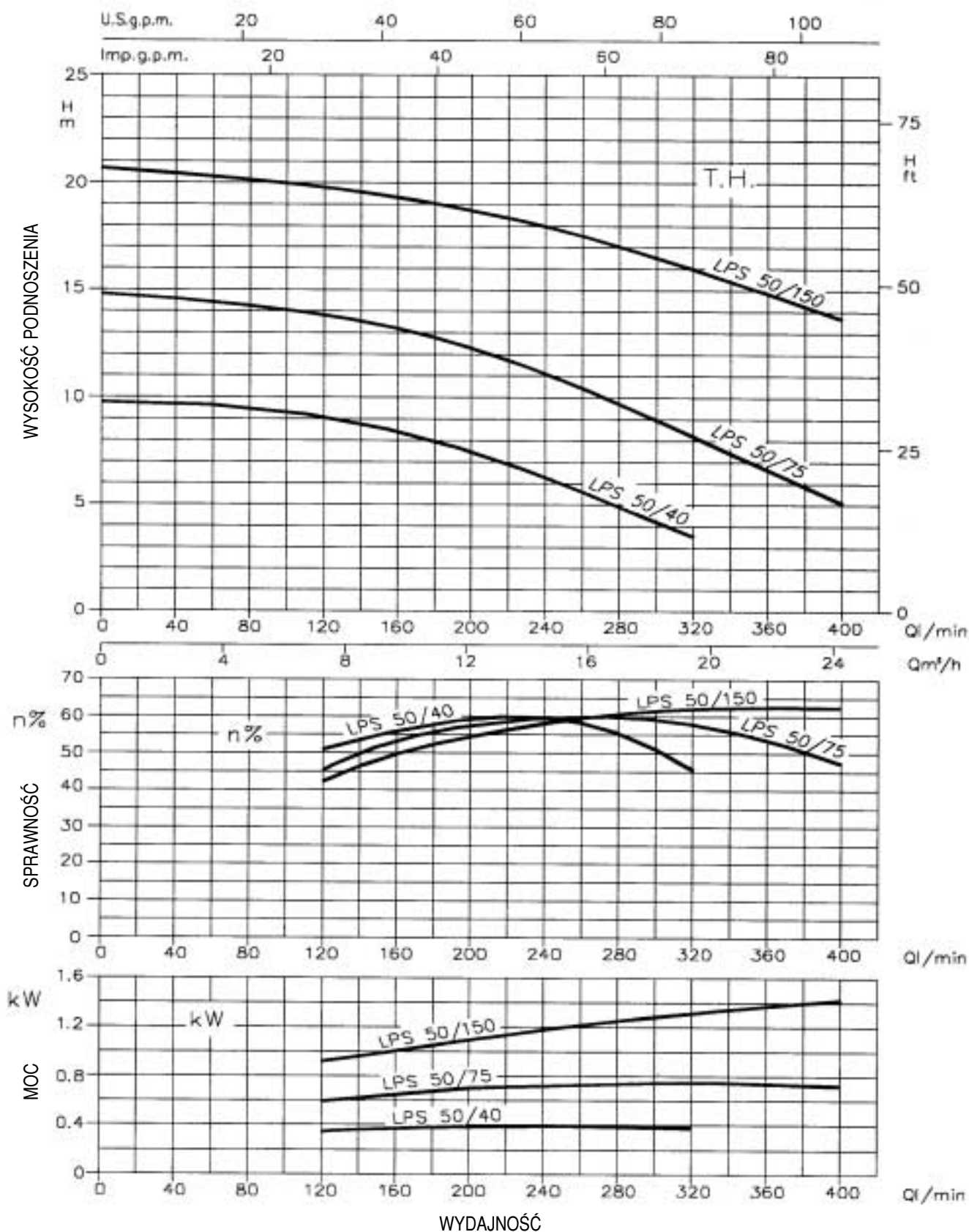
## CHARAKTERYSTYKI HYDRAULICZNE seria LPS 25 (w/g ISO 9906 Aneks A)



**CHARAKTERYSTYKI HYDRAULICZNE seria LPS 32** (w/g ISO 9906 Aneks A)




**CHARAKTERYSTYKI HYDRAULICZNE seria LPS 40** (w/g ISO 9906 Aneks A)


**CHARAKTERYSTYKI HYDRAULICZNE seria LPS 50 (w/g ISO 9906 Aneks A)**




Obiegowe pompy elektryczne budowy „In-line” wykonane z żeliwa, przeznaczone do cyrkulacji wody grzewczej w układach c.o. oraz c.t. jak również do pompowania wody do celów gospodarczych, systemów irygacyjnych itp.



### SPECYFIKACJA

- Maksymalne ciśnienie pracy:  
10 bar (6 bar dla LPC 40-100)
- Temperatura medium: -10 do 130°C

### MATERIAŁY

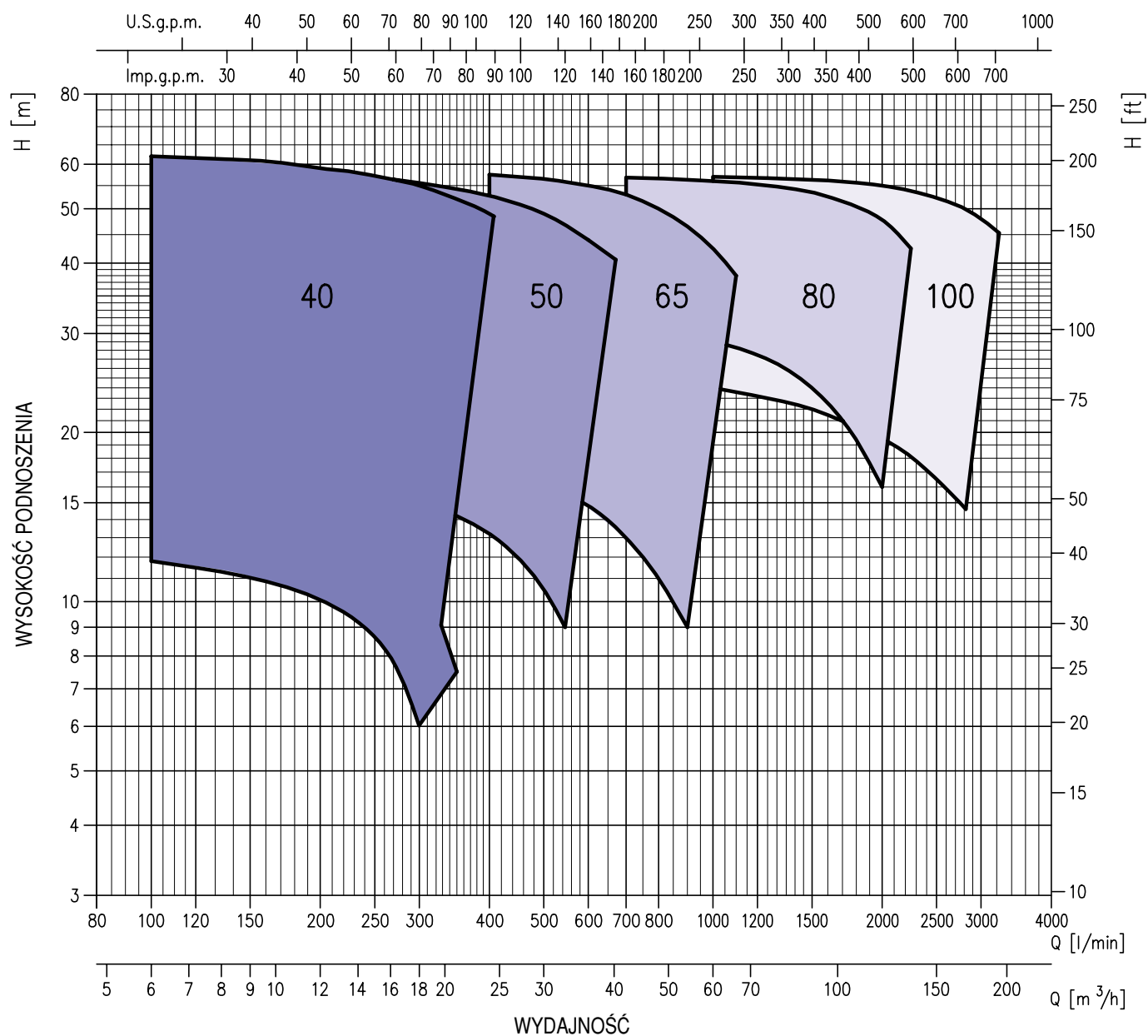
- Korpus, pokrywa oraz wirnik pompy: żeliwo
- Wał pompy: stal AISI 420
- Korpus silnika oraz wspornik: aluminium
- Uszczelnienie wału: mechaniczne ślizgowe  
Węgiel/SiC/EPDM  
(SiC/SiC/EPDM w opcjach)

### DANE TECHNICZNE

- Asynchroniczne silniki 2- i 4-biegunowe
- Klasa izolacji F
- Stopień ochrony IP54
- Zasilanie; 3~230V/400V  $\pm$  10%, 50Hz do 5,5 kW;  
3~400/690V  $\pm$  10% 50Hz powyżej 5,5 kW
- Zabezpieczenie silnika w gestii użytkownika
- Króciec ssący/tłoczny: PN 10

## ZAKRES STOWOWANIA seria LPC

2 bieguny



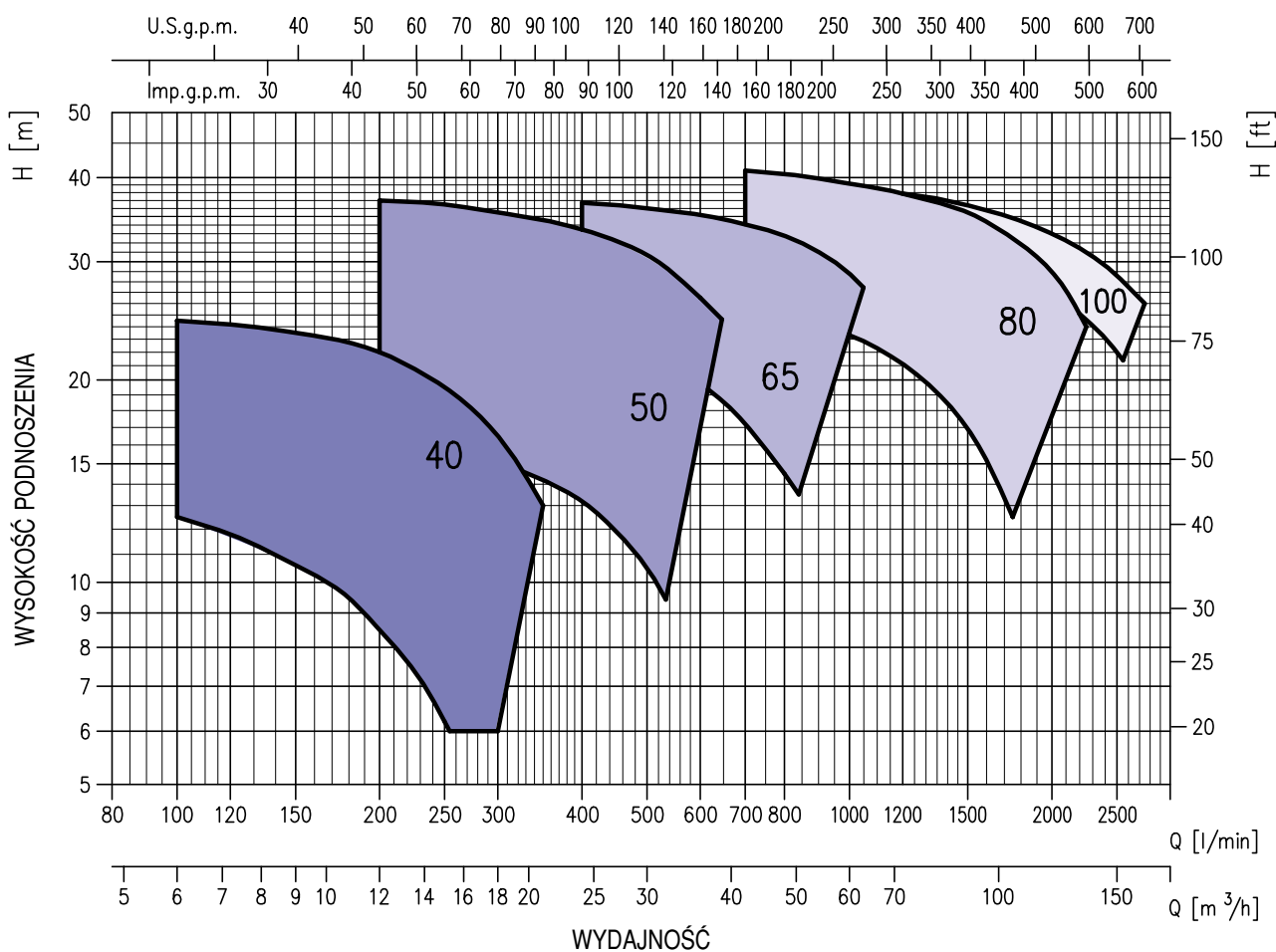
R.P.M. ° 2900 min<sup>-1</sup>  
 Dla czystej wody 20°C  
 Wg: ISO 9906 Aneks A

**TABELA WYDAJNOŚCI LPC 40-50-65-80-100**
**2 bieguny**

| Typ pompy        | Moc  |      | Wydajność = Q              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |  |
|------------------|------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|--|--|
|                  |      |      | m³/h                       | 0    | 6    | 7.5  | 9    | 10.5 | 12   | 13.5 | 15   | 18   | 21   | 24   | 27   | 30   | 36   | 42   | 48   | 54   | 60   | 66   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 210  |   |  |  |  |
|                  | kW   | HP   | l/min                      | 0    | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3500 |   |  |  |  |
|                  |      |      | H=Wysokość podnoszenia (m) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  |  |  |
| LPC 40-100/0,55  | 0.55 | 0.75 | 12.2                       | 11.7 | 11.4 | 11   | 10.5 | 9.9  | 9.3  | 8.5  | 7    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-100/0,75  | 0.75 | 1.0  | 14                         | 13.5 | 13.3 | 13   | 12.5 | 12   | 11.4 | 10.7 | 9    | 7    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-125/0,75  | 0.75 | 1.0  | 16.9                       | 15.3 | 14.5 | 13.7 | 12.8 | 11.5 | 10.4 | 9    | 6    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-125/1,1   | 1.1  | 1.5  | 21.5                       | 20.5 | 19.7 | 19   | 18.1 | 17.1 | 15.9 | 14.5 | 11.2 | 7.5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-125/1,5   | 1.5  | 2    | 25                         | 24.5 | 24.1 | 23.5 | 22.9 | 22   | 20.8 | 19.5 | 16.5 | 13   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-160/2,2   | 2.2  | 3    | 29                         | 28.5 | 28   | 27.4 | 26.5 | 25.5 | 24.4 | 23.1 | 20   | 15   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-160/3     | 3    | 4    | 34.5                       | 33.5 | 33   | 32.5 | 31.8 | 31   | 30   | 29   | 26   | 22.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-160/4     | 4    | 5.5  | 38.5                       | 38   | 37.5 | 36.8 | 36   | 35   | 33.8 | 32.6 | 29.9 | 26.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-200/4     | 4    | 5.5  | 47.5                       | 47   | 46   | 46   | 45   | 44   | 43   | 42   | 39.2 | 36.1 | 33   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-200/5,5   | 5.5  | 7.5  | 55.5                       | 55   | 54.5 | 54.1 | 53.6 | 53   | 52   | 51   | 48.4 | 45.8 | 42.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 40-200/6,3   | 6.3  | 8.5  | 62.5                       | 62   | 61.5 | 61   | 60.2 | 59   | 58.3 | 57.2 | 55   | 52   | 49   | 45   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-125/1,5   | 1.5  | 2    | 16.8                       | -    | -    | -    | -    | 16   | 15.7 | 15.5 | 15   | 14.2 | 13.2 | 11.9 | 10.5 | 7    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-125/2,2   | 2.2  | 3    | 20                         | -    | -    | -    | -    | 19.5 | 19.3 | 19.1 | 18.5 | 17.5 | 16.6 | 15.5 | 14.1 | 10.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-125/3     | 3    | 4    | 25                         | -    | -    | -    | -    | 24.7 | 24.6 | 24.5 | 24.2 | 23.7 | 23   | 21.8 | 20.5 | 17   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-160/3     | 3    | 4    | 31                         | -    | -    | -    | -    | 30.5 | 30.2 | 29.9 | 29   | 27.8 | 26.5 | 24.9 | 23   | 18   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-160/4     | 4    | 5.5  | 38                         | -    | -    | -    | -    | 37   | 36.8 | 36.5 | 35.5 | 34.6 | 33.5 | 32.2 | 30.7 | 26.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-200/5,5   | 5.5  | 7.5  | 46.8                       | -    | -    | -    | -    | 46   | 45.7 | 45.2 | 44.2 | 42.9 | 41   | 39.2 | 37   | 31   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-200/6,3   | 6.3  | 8.5  | 51.7                       | -    | -    | -    | -    | 51.2 | 51   | 50.8 | 50   | 48.7 | 47   | 45   | 42.6 | 37   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 50-200/7,5   | 7.5  | 10   | 58.5                       | -    | -    | -    | -    | 57.5 | 57.2 | 56.8 | 55.6 | 54.2 | 52.8 | 51   | 49   | 44   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-125/2,2   | 2.2  | 3    | 18.5                       | -    | -    | -    | -    | -    | -    | -    | -    | 17.5 | 17   | 16.5 | 16   | 14.8 | 13   | 11   | 9    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-125/3     | 3    | 4    | 22.5                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | 21   | 20.6 | 20.1 | 19   | 17.6 | 16   | 14   | 12   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-125/4     | 4    | 5.5  | 26.3                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | 25.5 | 25.2 | 24.8 | 24   | 22.9 | 21.5 | 19.6 | 17.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-160/5,5   | 5.5  | 7.5  | 33                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | 32.3 | 32   | 31.5 | 30.8 | 29.5 | 28   | 25.8 | 23.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-160/7,5   | 7.5  | 10   | 37                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | 36.7 | 36.4 | 36   | 35.2 | 34.1 | 32.8 | 31   | 28.8 | 26   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-200/10    | 10   | 13.6 | 52                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | 51   | 50   | 49.2 | 48   | 45.5 | 43   | 39.7 | 36   | 31.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 65-200/12,5  | 12.5 | 17   | 58.5                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | 57.5 | 57   | 56.5 | 55   | 53   | 50   | 46.5 | 42.5 | 38   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 80-160/10    | 10   | 13.6 | 31                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 30.5 | 30   | 29.5 | 29   | 28.3 | 27   | 24   | 20.2 | 16   | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 80-160/12,5  | 12.5 | 17   | 37                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 36   | 35.5 | 35   | 34.5 | 34   | 32.8 | 30   | 27   | 23   | 19   | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 80-160/15    | 15   | 20   | 42                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 41   | 40.5 | 39.9 | 39.2 | 38.6 | 37.5 | 35.5 | 32.5 | 29   | 24   | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 80-200/15    | 15   | 20   | 44.2                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 44   | 43.8 | 43.4 | 43   | 42.5 | 41.5 | 39   | 35.5 | 31.5 | -    | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 80-200/18,5  | 18.5 | 25   | 51                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 50.5 | 50.1 | 49.9 | 49.5 | 49   | 48.3 | 46.3 | 43.2 | 39.5 | 35   | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 80-200/22    | 22   | 30   | 57.2                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 56.8 | 56.6 | 56.3 | 56   | 55.7 | 55   | 53.5 | 51   | 47.8 | 42.5 | -    | -    | -    | -    | -    | - |  |  |  |
| LPC 100-160/10   | 10   | 13.6 | 24.8                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 24   | 23.6 | 23   | 22   | 20.7 | 19.5 | 18.1 | 16.5 | 15   | -    | -    | -    | - |  |  |  |
| LPC 100-160/12,5 | 12.5 | 17   | 29.5                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 28.5 | 28.2 | 27.9 | 27   | 25.8 | 24.5 | 23   | 21.5 | 20   | 18.5 | -    | -    | - |  |  |  |
| LPC 100-160/15   | 15   | 20   | 35                         | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 34   | 33.8 | 33.3 | 32.5 | 31.7 | 30.5 | 29.2 | 27.6 | 26   | 24.5 | -    | -    | - |  |  |  |
| LPC 100-200/18,5 | 18.5 | 25   | 42.3                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 41.8 | 41.5 | 41   | 40   | 38.6 | 37   | 35   | 33   | 30.5 | 28   | -    | -    | - |  |  |  |
| LPC 100-200/22   | 22   | 30   | 47.3                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 47   | 46.7 | 46.3 | 45.5 | 44.4 | 43   | 41.2 | 39   | 36.7 | 34   | -    | -    | - |  |  |  |
| LPC 100-200/30   | 30   | 40   | 55.5                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 54   | 53   | 52   | 50.5 | 49   | 47   | 45   | 42.5 | 37   | -    | - |  |  |  |
| LPC 100-200/37   | 37   | 55   | 57.2                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 56.7 | 56.3 | 55.8 | 55   | 53.8 | 52.3 | 50.5 | 48   | 42   | -    | - |  |  |  |
| LPC 100-250/37   | 37   | 55   | 68.5                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 67.5 | 67   | 66.2 | 65   | 63.3 | 61   | 58.2 | 55   | 47   | -    | - |  |  |  |

## ZAKRES STOWOWANIA seria LPCD

2 bieguny



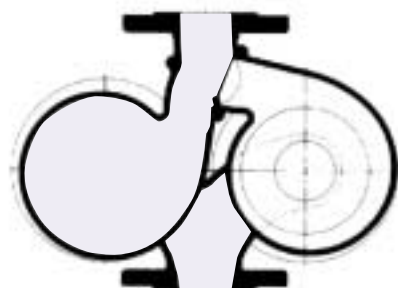
R.P.M. ° 2900 min<sup>-1</sup>  
Dla czystej wody 20°C  
Wg: ISO 9906 Aneks A

### TABELA WYDAJNOŚCI LPC 40-50-65-80-100

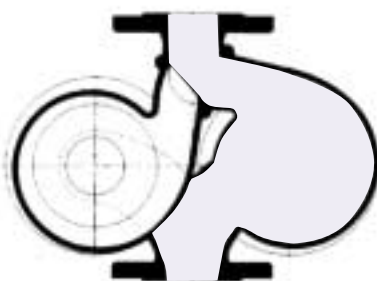
## 2 bieguny

[illegible]

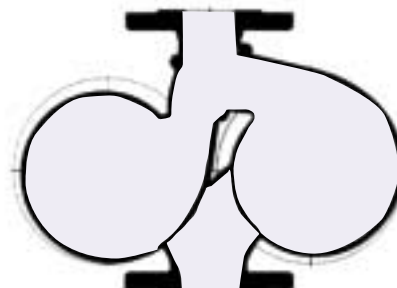
### ***Automatyczne działanie zaworu zwrotnego***



### Praca pompy nr 1



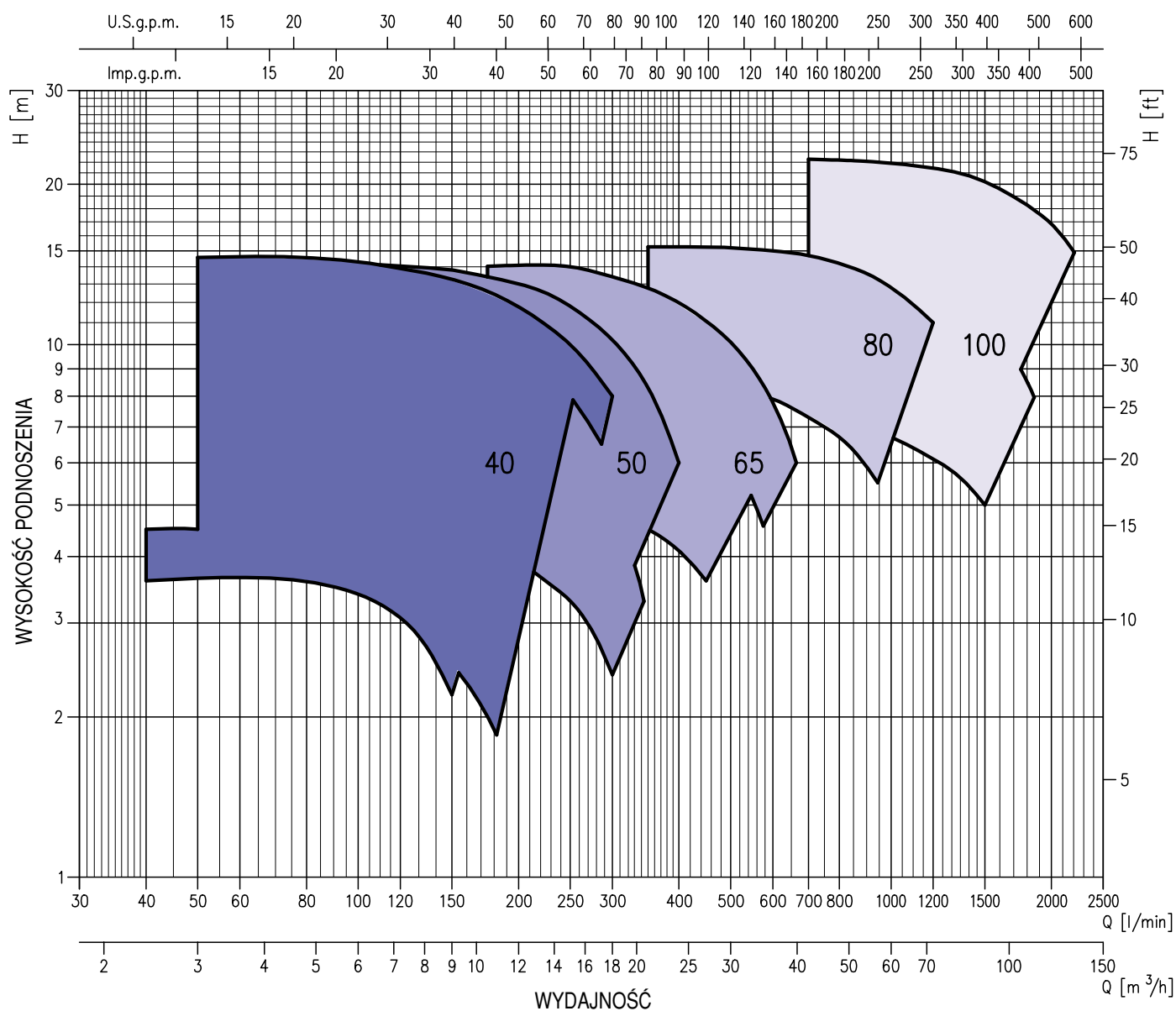
## Praca pompy nr 2



### Praca równoległa pomp

## ZAKRES STOWOWANIA seria LPC4

4 bieguny



R.P.M. ° 1450 min<sup>-1</sup>  
Dla czystej wody 20°C  
Wg: ISO 9906 Aneks A

**TABELA WYDAJNOŚCI LPC 40-50-65-80-100**

**4 bieguny**

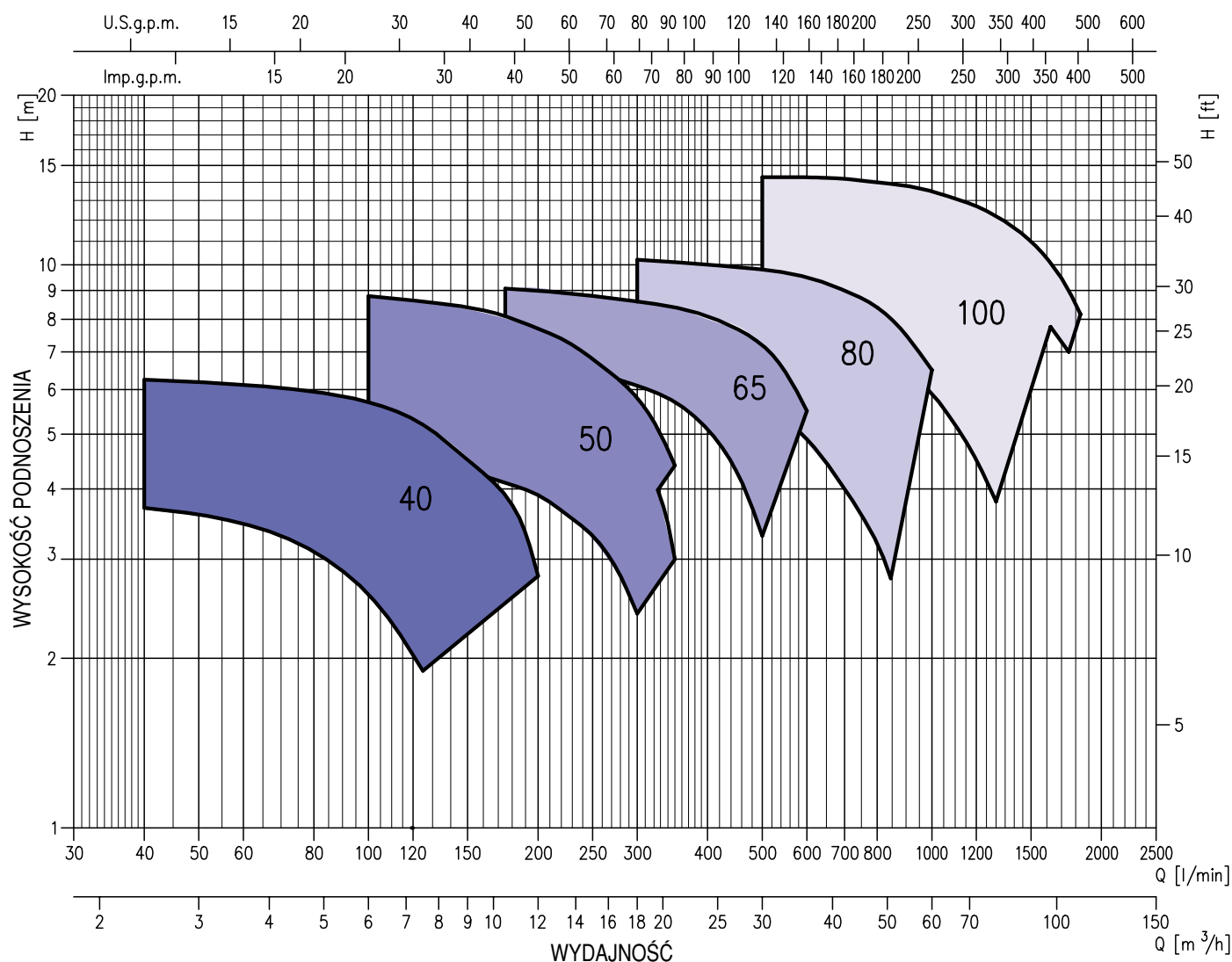
| Typ pompy                  | Moc  |      | Q=Wydajność |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |
|----------------------------|------|------|-------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|
|                            |      |      | m³/h        | 0   | 2.4  | 3    | 4.5  | 6    | 7.5  | 9    | 10.5 | 12   | 13.5 | 15   | 18   | 21   | 24   | 27   | 30   | 36   | 42   | 48   | 54   | 60   | 66   | 72   | 78   | 90   | 105  | 120  | 135  |   |   |
|                            | kW   | HP   | l/min       | 0   | 40   | 50   | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1500 | 1750 | 2000 | 2250 |   |   |
| H=Wysokość podnoszenia (m) |      |      |             |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |   |
| LPC4 40-100/0.25           | 0.25 | 0.33 | 3.7         | 3.6 | 3.55 | 3.5  | 3.3  | 2.9  | 2.5  | 2    | 1.5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |   |
| LPC4 40-125/0.25 R         | 0.25 | 0.33 | 4.8         | 4.5 | 4.4  | 4.1  | 3.7  | 3    | 2.2  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |   |
| LPC44 40-125/0.25          | 0.25 | 0.33 | 6.3         | -   | 6.2  | 6    | 5.7  | 5.2  | 4.5  | 3.9  | 2.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |   |
| LPC4 40-160/0.37           | 0.37 | 0.55 | 9.6         | -   | 9.4  | 9.2  | 8.9  | 8.4  | 7.7  | 6.9  | 5.8  | 4.7  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - |   |
| LPC4 40-200/0.75           | 0.75 | 1.0  | 13.5        | -   | -    | 12.8 | 12.4 | 11.9 | 11.3 | 10.6 | 9.8  | 9    | 8    | 6    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 40-200/0.92           | 0.92 | 1.25 | 15          | -   | -    | 14.6 | 14.3 | 13.8 | 13.3 | 12.7 | 11.8 | 10.9 | 10   | 8    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 50-125/0.25           | 0.25 | 0.33 | 4.8         | -   | -    | -    | 4.6  | 4.5  | 4.3  | 4.1  | 3.9  | 3.6  | 3.3  | 2.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 50-125/0.37           | 0.37 | 0.55 | 6.4         | -   | -    | -    | 6.3  | 6.2  | 6.1  | 6    | 5.8  | 5.6  | 5.3  | 4.6  | 3    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 50-160/0.55           | 0.55 | 0.75 | 9.2         | -   | -    | -    | 8.8  | 8.6  | 8.4  | 8.1  | 7.7  | 7.3  | 6.8  | 5.8  | 4.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 50-200/1.1 R          | 1.1  | 1.5  | 12.9        | -   | -    | -    | 12.7 | 12.5 | 12.1 | 11.7 | 11.2 | 10.7 | 10.1 | 8.5  | 6.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 50-200/1.1            | 1.1  | 1.5  | 14.5        | -   | -    | -    | 14.2 | 14   | 13.8 | 13.4 | 13   | 12.5 | 11.8 | 10.2 | 8.3  | 6    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 65-125/0.37           | 0.37 | 0.55 | 5.4         | -   | -    | -    | -    | -    | 5.3  | 5.25 | 5.2  | 5.1  | 5    | 4.8  | 4.5  | 4.1  | 3.6  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 65-125/0.55           | 0.55 | 0.75 | 6.5         | -   | -    | -    | -    | -    | 6.4  | 6.3  | 6.2  | 6.1  | 6    | 5.8  | 5.5  | 5.2  | 4.9  | 4.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 65-160/0.75           | 0.75 | 1.0  | 8.3         | -   | -    | -    | -    | -    | -    | -    | 8.1  | 8    | 7.9  | 7.8  | 7.4  | 7    | 6.6  | 6    | 4    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 65-160/0.92           | 0.92 | 1.25 | 9.1         | -   | -    | -    | -    | -    | -    | -    | 9    | 8.9  | 8.8  | 8.7  | 8.4  | 8.1  | 7.7  | 7.2  | 5.5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 65-200/1.1            | 1.1  | 1.5  | 12.6        | -   | -    | -    | -    | -    | -    | -    | 12.3 | 12.2 | 12   | 11.5 | 10.8 | 10   | 9    | 8    | 5.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 65-200/1.5            | 1.5  | 2    | 14.3        | -   | -    | -    | -    | -    | -    | -    | 14.1 | 14.1 | 14   | 13.6 | 13   | 12.1 | 11.2 | 10.1 | 7.8  | 5    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 80-160/0.75           | 0.75 | 1    | 6.4         | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 6.3  | 6.1  | 6    | 5.8  | 5.6  | 4.9  | 4    | 3.2  | 2.2  | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 80-160/0.92           | 0.92 | 1.25 | 7.4         | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 7.3  | 7.2  | 7.1  | 7    | 6.8  | 6.3  | 5.6  | 4.8  | 3.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 80-160/1.1            | 1.1  | 1.5  | 8.6         | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 8.5  | 8.5  | 8.4  | 8.3  | 8.2  | 7.9  | 7.3  | 6.7  | 5.9  | 5    | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 80-160/1.5            | 1.5  | 2    | 10.3        | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 10.2 | 10.1 | 10   | 9.9  | 9.8  | 9.5  | 9    | 8.4  | 7.5  | 6.5  | -    | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 80-200/2.2            | 2.2  | 3    | 12.6        | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 12.5 | 12.4 | 12.3 | 12.1 | 11.7 | 11.1 | 10.4 | 9.6  | 8.5  | -    | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 80-200/3              | 3    | 4    | 15.4        | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15.3 | 15.3 | 15.2 | 15   | 14.6 | 14.2 | 13.6 | 12.8 | 11.9 | 11   | -    | -    | -    | -    | -    | -    | - | - |
| LPC4 100-160/1.5           | 1.5  | 2    | 8           | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 7.7  | 7.5  | 7.2  | 7    | 6.7  | 6.4  | 6.1  | 5.8  | 5    | -    | -    | -    | -    | - | - |
| LPC4 100-160/2.2           | 2.2  | 3    | 10          | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 9.7  | 9.5  | 9.4  | 9.1  | 8.8  | 8.5  | 8.2  | 7.9  | 7.1  | 6    | -    | -    | -    | - | - |
| LPC4 100-200/3             | 3    | 4    | 12.7        | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 12   | 11.8 | 11.5 | 11.3 | 10.9 | 10.5 | 10   | 9.5  | 8.5  | 7    | -    | -    | -    | - | - |
| LPC4 100-200/4             | 4    | 5.5  | 14.9        | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 14.3 | 14.2 | 14   | 13.8 | 13.4 | 13.1 | 12.7 | 12.2 | 11   | 9    | 6.5  | -    | -    | - | - |
| LPC4 100-250/5.5           | 5.5  | 7.5  | 20          | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 19.2 | 18.9 | 18.5 | 18.1 | 17.7 | 17.2 | 16   | 14.5 | 12   | -    | -    | - | - |
| LPC4 100-250/7.5           | 7.5  | 10   | 23.5        | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 22.3 | 22.1 | 21.9 | 21.7 | 21.3 | 21   | 20   | 18.5 | 16.8 | 14.5 | -    | - | - |





## ZAKRES STOWOWANIA seria LPCD4

4 bieguny



R.P.M. ° 1450 min<sup>-1</sup>  
 Dla czystej wody 20°C  
 Wg: ISO 9906 Aneks A

TABELA WYDAJNOŚCI LPC 40-50-65-80-100

4 bieguny

| Typ pompy                  | Moc  |      | Q=Wydajność |     |     |     |     |     |     |     |      |     |      |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|------|------|-------------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | kW   | HP   | m³/h        | 0   | 2.4 | 3   | 4.5 | 6   | 7.5 | 9   | 10.5 | 12  | 13.5 | 15  | 18  | 21  | 24  | 27  | 30  | 36  | 42  | 48  | 54  | 60   | 66   | 72   | 78   | 90   | 105  | 120  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            |      |      | l/min       | 0   | 40  | 50  | 75  | 100 | 125 | 150 | 175  | 200 | 225  | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1500 | 1750 | 2000 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| H=Wysokość podnoszenia (m) |      |      |             |     |     |     |     |     |     |     |      |     |      |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LPCD4 40-100/0.25          | 0,25 | 0.33 | 4           | 3.7 | 3.6 | 3.1 | 2.6 | 1.9 | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -    | -    | -    | -    | -    | -    | -    | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## LPC seria 40-50 WYMIARY

2 bieguny

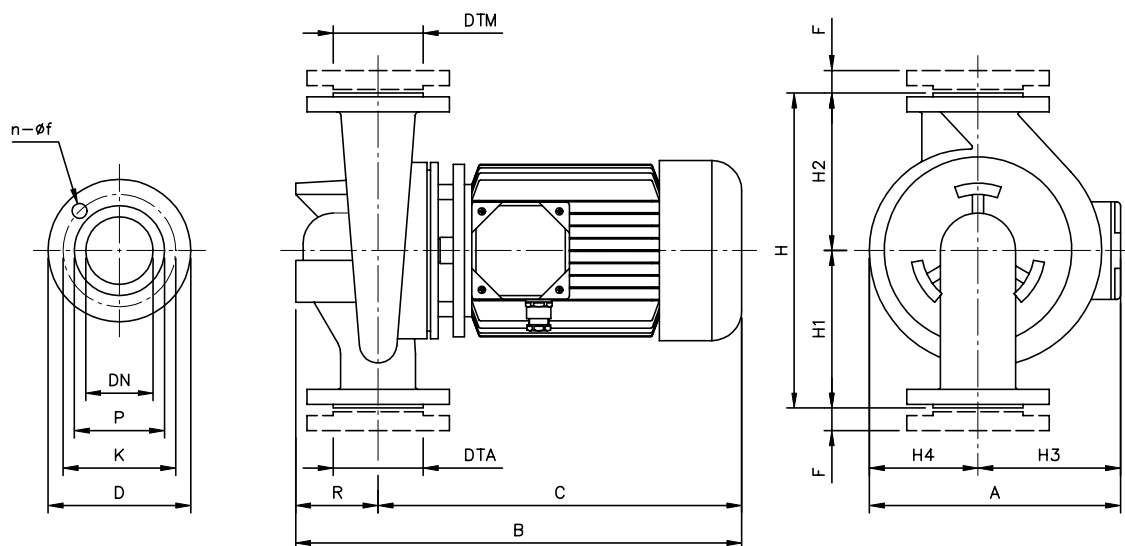


TABELA WYMIARÓW

| Typ pompy       | Wymiary (mm) |        |   |    |     |     |     |     |     |     |     |     |     |    |     |     |     | Masa [kg] |
|-----------------|--------------|--------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----------|
|                 | DTA/M        | DNA/M  | n | f  | P   | K   | D   | H   | H1  | H2  | H3  | H4  | R   | F  | A   | B   | C   |           |
| LPC 40-100/0.55 | G1 1/2       | 40PN6  | 4 | 14 | 80  | 100 | 130 | 260 | 140 | 120 | 107 | 77  | 90  | 16 | 184 | 445 | 335 | 16        |
| LPC 40-100/0.75 | G1 1/2       | 40PN6  | 4 | 14 | 80  | 100 | 130 | 260 | 140 | 120 | 107 | 77  | 90  | 16 | 184 | 445 | 335 | 16        |
| LPC 40-125/0.75 | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 300 | 160 | 140 | 107 | 93  | 100 | 20 | 200 | 425 | 325 | 24        |
| LPC 40-125/1.1  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 300 | 160 | 140 | 118 | 93  | 100 | 20 | 211 | 445 | 345 | 25        |
| LPC 40-125/1.5  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 300 | 160 | 140 | 118 | 93  | 100 | 20 | 211 | 445 | 345 | 26        |
| LPC 40-160/2.2  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 320 | 170 | 150 | 118 | 108 | 100 | 20 | 226 | 445 | 345 | 30        |
| LPC 40-160/3.0  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 320 | 170 | 150 | 149 | 108 | 100 | 20 | 257 | 485 | 385 | 35        |
| LPC 40-160/4.0  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 320 | 170 | 150 | 149 | 108 | 100 | 20 | 257 | 485 | 385 | 37        |
| LPC 40-200/4.0  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 380 | 200 | 180 | 159 | 127 | 100 | 20 | 286 | 525 | 425 | 50        |
| LPC 40-200/5.5  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 380 | 200 | 180 | 159 | 127 | 100 | 20 | 286 | 535 | 435 | 55        |
| LPC 40-200/6.3  | G1 1/2       | 40PN10 | 4 | 18 | 88  | 110 | 150 | 380 | 200 | 180 | 159 | 127 | 100 | 20 | 286 | 535 | 435 | 56        |
| LPC 50-125/1.5  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 320 | 180 | 140 | 118 | 103 | 110 | 22 | 221 | 455 | 345 | 27        |
| LPC 50-125/2.2  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 320 | 180 | 140 | 118 | 103 | 110 | 22 | 221 | 455 | 345 | 28        |
| LPC 50-125/3.0  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 320 | 180 | 140 | 149 | 103 | 110 | 22 | 252 | 495 | 385 | 32        |
| LPC 50-160/3.0  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 340 | 180 | 160 | 149 | 113 | 110 | 22 | 262 | 495 | 385 | 32        |
| LPC 50-160/4.0  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 340 | 180 | 160 | 159 | 113 | 110 | 22 | 272 | 535 | 425 | 42        |
| LPC 50-200/5.5  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 400 | 220 | 180 | 159 | 131 | 110 | 22 | 290 | 545 | 435 | 56        |
| LPC 50-200/6.3  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 400 | 220 | 180 | 159 | 131 | 110 | 22 | 290 | 545 | 435 | 57        |
| LPC 50-200/7.5  | G2           | 50PN10 | 4 | 18 | 102 | 125 | 165 | 400 | 220 | 180 | 184 | 131 | 110 | 22 | 315 | 650 | 540 | 64        |

## LPC seria 65-80-100 WYMIARY

2 bieguny

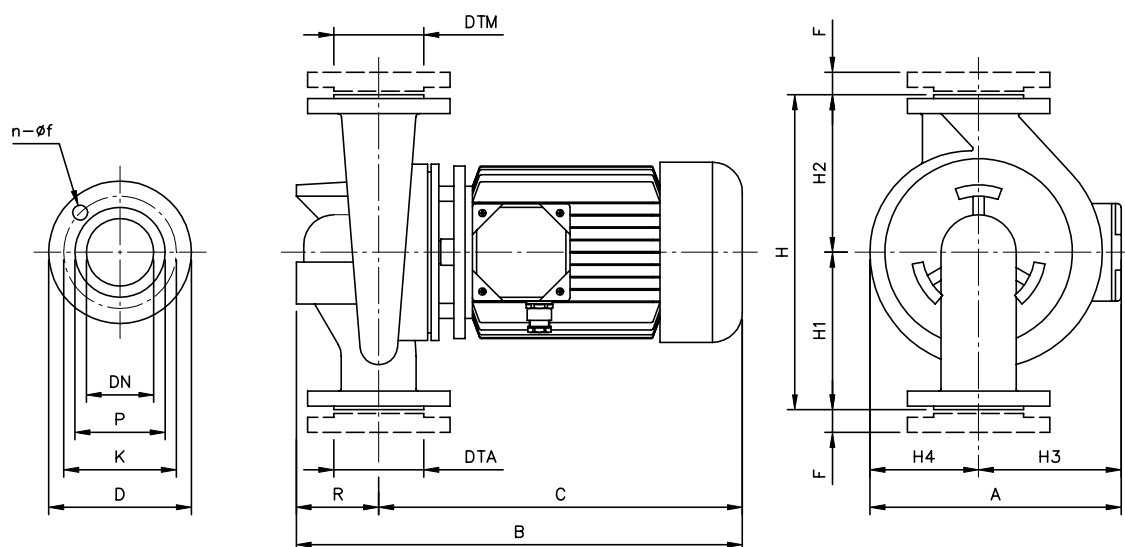


TABELA WYMIARÓW

| Typ pompy        | Wymiary (mm) |         |   |    |     |     |     |     |     |     |     |     |     |    |     |     |     | Masa<br>[kg] |
|------------------|--------------|---------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|--------------|
|                  | DTA/M        | DNA/M   | n | f  | P   | K   | D   | H   | H1  | H2  | H3  | H4  | R   | F  | A   | B   | C   |              |
| LPC 65-125/2.2   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 360 | 205 | 155 | 118 | 108 | 140 | 22 | 226 | 485 | 345 | 32           |
| LPC 65-125/3.0   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 360 | 205 | 155 | 149 | 108 | 140 | 22 | 257 | 525 | 385 | 39           |
| LPC 65-125/4.0   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 360 | 205 | 155 | 159 | 108 | 140 | 22 | 267 | 565 | 425 | 43           |
| LPC 65-160/5.5   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 400 | 220 | 180 | 159 | 122 | 140 | 22 | 281 | 575 | 435 | 54           |
| LPC 65-160/7.5   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 400 | 220 | 180 | 184 | 122 | 140 | 22 | 306 | 680 | 540 | 61           |
| LPC 65-200/10    | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 440 | 240 | 200 | 184 | 136 | 140 | 22 | 320 | 680 | 540 | 70           |
| LPC 65-200/12.5  | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 440 | 240 | 200 | 184 | 136 | 140 | 22 | 320 | 680 | 540 | 77           |
| LPC 80-160/10    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 184 | 131 | 160 | 24 | 315 | 700 | 540 | 72           |
| LPC 80-160/12.5  | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 184 | 131 | 160 | 24 | 315 | 700 | 540 | 79           |
| LPC 80-160/15    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 184 | 131 | 160 | 24 | 315 | 700 | 540 | 85           |
| LPC 80-200/15    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 500 | 275 | 225 | 184 | 146 | 160 | 24 | 330 | 700 | 540 | 91           |
| LPC 80-200/18.5  | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 500 | 275 | 225 | 229 | 146 | 160 | 24 | 375 | 860 | 700 | 124          |
| LPC 80-200/22    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 500 | 275 | 225 | 229 | 146 | 160 | 24 | 375 | 860 | 700 | 142          |
| LPC 100-160/10   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 525 | 300 | 225 | 184 | 136 | 190 | 26 | 320 | 730 | 540 | 76           |
| LPC 100-160/12.5 | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 525 | 300 | 225 | 184 | 136 | 190 | 26 | 320 | 730 | 540 | 84           |
| LPC 100-160/15   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 525 | 300 | 225 | 184 | 136 | 190 | 26 | 320 | 730 | 540 | 91           |
| LPC 100-200/18.5 | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 550 | 300 | 250 | 230 | 156 | 190 | 26 | 386 | 890 | 710 | 135          |
| LPC 100-200/22   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 550 | 300 | 250 | 230 | 156 | 190 | 26 | 386 | 890 | 710 | 153          |
| LPC 100-200/30   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 550 | 300 | 250 | 257 | 156 | 190 | 26 | 413 | 995 | 805 | 195          |
| LPC 100-200/37   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 550 | 300 | 250 | 257 | 156 | 190 | 26 | 413 | 995 | 805 | 213          |
| LPC 100-250/37   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 600 | 320 | 280 | 257 | 176 | 190 | 26 | 433 | 995 | 805 | 220          |

## LPCD seria 40-50-65-80-100 WYMIARY

2 bieguny

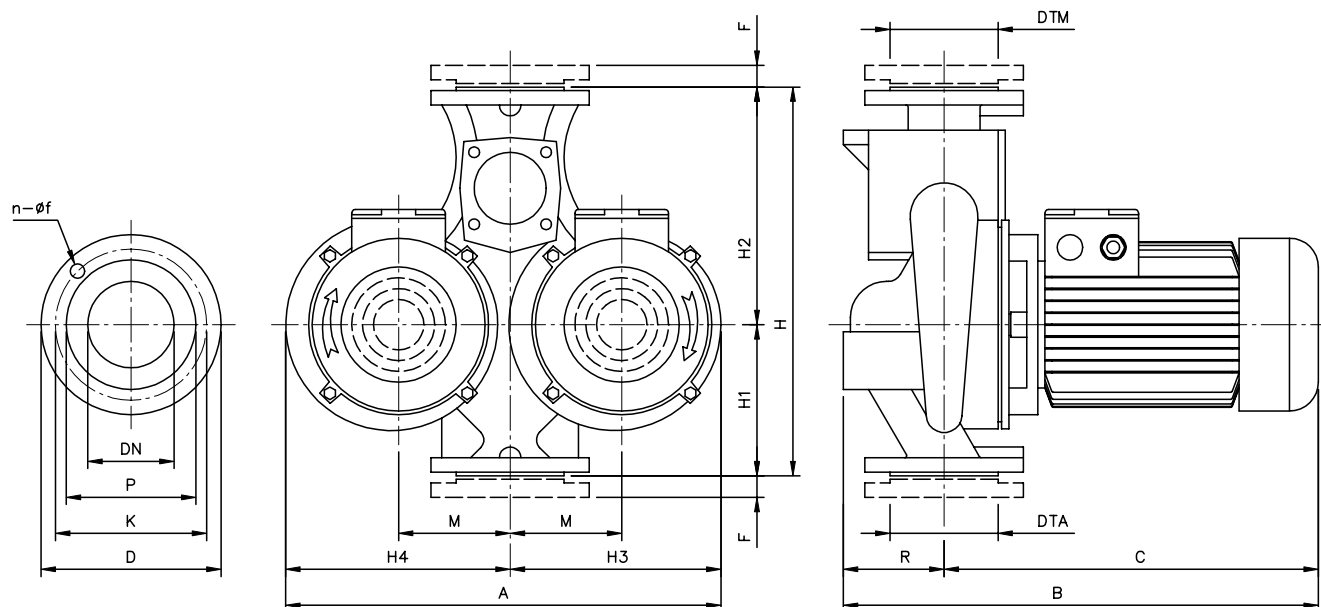


TABELA WYMIARÓW

| Typ pompy         | Wymiary (mm) |         |   |    |     |     |     |     |     |     |     |     |     |     |    |     |     |     | Masa [kg] |
|-------------------|--------------|---------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----------|
|                   | DTA/M        | DNA/M   | n | f  | P   | K   | D   | H   | H1  | H2  | H3  | H4  | M   | R   | F  | A   | B   | C   |           |
| LPCD 40-125/0.55  | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 425 | 325 | 50        |
| LPCD 40-125/0.75  | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 425 | 325 | 50        |
| LPCD 40-125/1.1   | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 445 | 345 | 52        |
| LPCD 40-125/1.5   | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 445 | 345 | 54        |
| LPCD 50-125/1.5   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 365 | 145 | 220 | 210 | 217 | 105 | 110 | 22 | 427 | 455 | 345 | 56        |
| LPCD 50-125/2.2   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 365 | 145 | 220 | 210 | 217 | 105 | 110 | 22 | 427 | 455 | 345 | 58        |
| LPCD 50-125/3.0   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 365 | 145 | 220 | 210 | 217 | 105 | 110 | 22 | 427 | 495 | 385 | 66        |
| LPCD 50-160/3.0   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 410 | 170 | 240 | 235 | 245 | 120 | 110 | 22 | 480 | 495 | 385 | 72        |
| LPCD 50-160/4.0   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 410 | 170 | 240 | 235 | 245 | 120 | 110 | 22 | 480 | 535 | 425 | 86        |
| LPCD 65-160/3.0   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 515 | 385 | 81        |
| LPCD 65-160/4.0   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 555 | 425 | 101       |
| LPCD 65-160/5.5   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 565 | 435 | 125       |
| LPCD 65-160/7.5   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 565 | 435 | 132       |
| LPCD 80-160/7.5   | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 130 | 24 | 550 | 565 | 435 | 137       |
| LPCD 80-160/10    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 690 | 540 | 141       |
| LPCD 80-160/12.5  | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 690 | 540 | 162       |
| LPCD 80-160/15    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 690 | 540 | 175       |
| LPCD 100-200/12.5 | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 630 | 240 | 390 | 345 | 325 | 165 | 180 | 26 | 670 | 720 | 540 | 162       |
| LPCD 100-200/15   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 630 | 240 | 390 | 345 | 325 | 165 | 180 | 26 | 670 | 720 | 540 | 162       |

## LPC4 seria 40-50-65-80-100 WYMIARY

2 bieguny

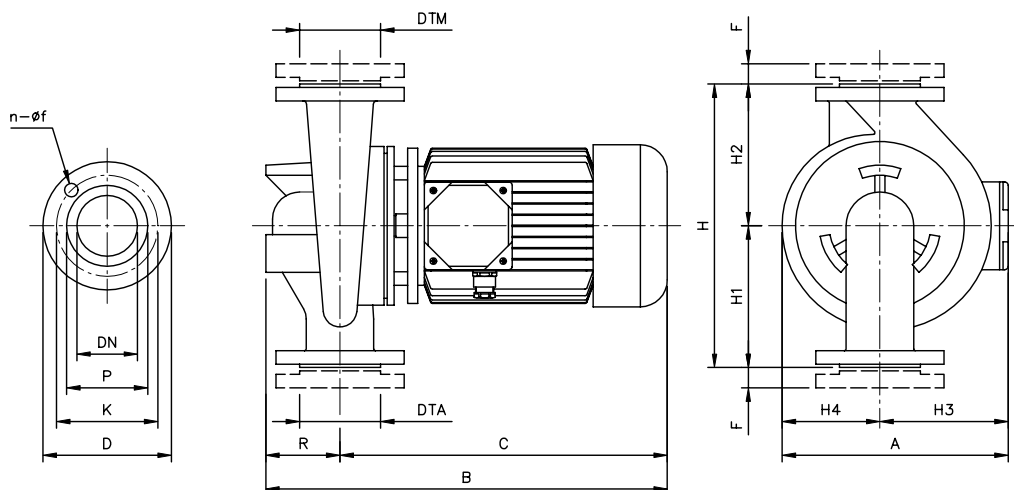


TABELA WYMIARÓW

| Typ pompy          | Wymiary (mm) |         |   |    |     |     |     |     |     |     |     |     |     |    |     |     |     | Masa<br>[kg] |
|--------------------|--------------|---------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|--------------|
|                    | DTA/M        | DNA/M   | n | f  | P   | K   | D   | H   | H1  | H2  | H3  | H4  | R   | F  | A   | B   | C   |              |
| LPC4 40-100/0.25   | G1 1/2       | 40PN6   | 4 | 14 | 80  | 100 | 130 | 260 | 140 | 120 | 107 | 77  | 90  | 16 | 184 | 445 | 355 | 16           |
| LPC4 40-125/0.25 R | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 300 | 160 | 140 | 107 | 93  | 100 | 20 | 200 | 425 | 325 | 20           |
| LPC4 40-125/0.25   | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 300 | 160 | 140 | 107 | 93  | 100 | 20 | 200 | 425 | 325 | 20           |
| LPC4 40-160/0.37   | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 320 | 170 | 150 | 107 | 108 | 100 | 20 | 215 | 425 | 325 | 23           |
| LPC4 40-200/0.75   | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 380 | 200 | 180 | 118 | 127 | 100 | 20 | 245 | 445 | 345 | 30           |
| LPC4 40-200/0.92   | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 380 | 200 | 180 | 118 | 127 | 100 | 20 | 245 | 445 | 345 | 31           |
| LPC4 50-125/0.25   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 320 | 180 | 140 | 107 | 103 | 110 | 22 | 210 | 435 | 325 | 21           |
| LPC4 50-125/0.37   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 320 | 180 | 140 | 107 | 103 | 110 | 22 | 210 | 435 | 325 | 22           |
| LPC4 50-160/0.55   | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 340 | 180 | 160 | 107 | 113 | 110 | 22 | 220 | 435 | 325 | 25           |
| LPC4 50-200/1.1 R  | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 400 | 220 | 180 | 149 | 131 | 110 | 22 | 280 | 495 | 385 | 36           |
| LPC4 50-200/1.1    | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 400 | 220 | 180 | 149 | 131 | 110 | 22 | 280 | 495 | 385 | 36           |
| LPC4 65-125/0.37   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 360 | 205 | 155 | 107 | 108 | 140 | 22 | 215 | 465 | 325 | 25           |
| LPC4 65-125/0.55   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 360 | 205 | 155 | 107 | 108 | 140 | 22 | 215 | 465 | 325 | 26           |
| LPC4 65-160/0.75   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 400 | 220 | 180 | 118 | 122 | 140 | 22 | 240 | 485 | 345 | 32           |
| LPC4 65-160/0.92   | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 400 | 220 | 180 | 118 | 122 | 140 | 22 | 240 | 485 | 345 | 33           |
| LPC4 65-200/1.1    | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 440 | 240 | 200 | 149 | 136 | 140 | 22 | 285 | 525 | 385 | 38           |
| LPC4 65-200/1.5    | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 440 | 240 | 200 | 149 | 136 | 140 | 22 | 285 | 525 | 385 | 40           |
| LPC4 80-160/0.75   | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 118 | 131 | 160 | 24 | 249 | 505 | 345 | 36           |
| LPC4 80-160/0.92   | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 118 | 131 | 160 | 24 | 249 | 505 | 345 | 37           |
| LPC4 80-160/1.1    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 149 | 131 | 160 | 24 | 280 | 545 | 385 | 38           |
| LPC4 80-160/1.5    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 440 | 240 | 200 | 149 | 131 | 160 | 24 | 280 | 545 | 385 | 40           |
| LPC4 80-200/2.2    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 500 | 275 | 225 | 159 | 146 | 160 | 24 | 305 | 585 | 425 | 51           |
| LPC4 80-200/3.0    | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 500 | 275 | 225 | 159 | 146 | 160 | 24 | 305 | 585 | 425 | 57           |
| LPC4 100-160/1.5   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 525 | 300 | 225 | 149 | 136 | 190 | 26 | 285 | 575 | 385 | 45           |
| LPC4 100-160/2.2   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 525 | 300 | 225 | 159 | 136 | 190 | 26 | 295 | 615 | 425 | 50           |
| LPC4 100-200/3.0   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 550 | 300 | 250 | 159 | 156 | 190 | 26 | 315 | 615 | 425 | 66           |
| LPC4 100-200/4.0   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 550 | 300 | 250 | 159 | 156 | 190 | 26 | 315 | 625 | 435 | 73           |
| LPC4 100-250/5.5   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 600 | 320 | 280 | 184 | 176 | 190 | 26 | 360 | 730 | 540 | 96           |
| LPC4 100-250/7.5   | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 600 | 320 | 280 | 184 | 176 | 190 | 26 | 360 | 730 | 540 | 106          |

## LPCD4 seria 40-50-65-80-100 WYMIARY

4 bieguny

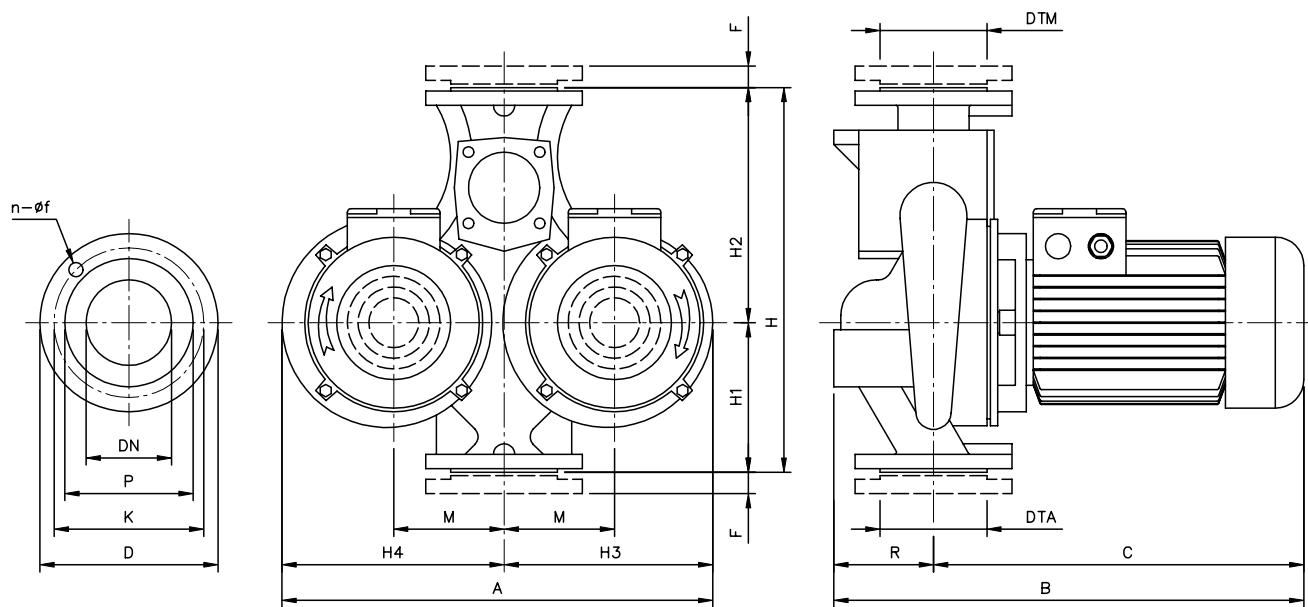


TABELA WYMIARÓW

| Typ pompy          | Wymiary (mm) |         |   |    |     |     |     |     |     |     |     |     |     |     |    |     |     |     | Masa [kg] |
|--------------------|--------------|---------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----------|
|                    | DTA/M        | DNA/M   | n | f  | P   | K   | D   | H   | H1  | H2  | H3  | H4  | M   | R   | F  | A   | B   | C   |           |
| LPCD4 40-100/0.25  | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 425 | 325 | 41        |
| LPCD4 40-125/0.25R | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 425 | 325 | 41        |
| LPCD4 40-125/0.25  | G1 1/2       | 40PN10  | 4 | 18 | 88  | 110 | 150 | 340 | 130 | 210 | 197 | 200 | 100 | 100 | 20 | 397 | 425 | 325 | 41        |
| LPCD4 50-125/0.25  | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 365 | 145 | 220 | 210 | 217 | 105 | 110 | 22 | 427 | 435 | 325 | 44        |
| LPCD4 50-125/0.37  | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 365 | 145 | 220 | 210 | 217 | 105 | 110 | 22 | 427 | 435 | 325 | 46        |
| LPCD4 50-160/0.55  | G2           | 50PN10  | 4 | 18 | 102 | 125 | 165 | 410 | 170 | 240 | 235 | 245 | 120 | 110 | 22 | 480 | 435 | 325 | 52        |
| LPCD4 65-160/0.55  | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 475 | 345 | 65        |
| LPCD4 65-160/0.75  | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 475 | 345 | 65        |
| LPCD4 65-160/0.92  | G2 1/2       | 65PN10  | 4 | 18 | 122 | 145 | 185 | 450 | 180 | 270 | 268 | 275 | 140 | 130 | 22 | 543 | 475 | 345 | 67        |
| LPCD4 80-160/0.75  | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 485 | 335 | 72        |
| LPCD4 80-160/0.92  | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 485 | 335 | 74        |
| LPCD4 80-160/1.1   | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 535 | 385 | 79        |
| LPCD4 80-160/1.5   | G3           | 80PN10  | 4 | 18 | 138 | 160 | 200 | 510 | 205 | 305 | 270 | 280 | 135 | 150 | 24 | 550 | 535 | 385 | 83        |
| LPCD4 100-200/1.5  | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 630 | 240 | 390 | 345 | 325 | 165 | 180 | 26 | 670 | 535 | 355 | 110       |
| LPCD4 100-200/2.2  | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 630 | 240 | 390 | 345 | 325 | 165 | 180 | 26 | 670 | 605 | 425 | 130       |
| LPCD4 100-200/3.0  | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 630 | 240 | 390 | 345 | 325 | 165 | 180 | 26 | 670 | 605 | 425 | 138       |
| LPCD4 100-200/4.0  | G4           | 100PN10 | 8 | 18 | 158 | 180 | 220 | 630 | 240 | 390 | 345 | 325 | 165 | 180 | 26 | 670 | 615 | 435 | 150       |



Obiegowe pompy elektryczne budowy „In-line” z trójstopniową regulacją obrotów, przeznaczone do cyrkulacji wody grzewczej w domowych instalacjach c.o.



## SPECYFIKACJA

- Maksymalne ciśnienie pracy: 10 bar
- Temperatura medium: 110 °C
- Maksymalna temperatura zewnętrzna: 55 °C
- Maksymalna temperatura powierzchni pompy: 125 °C

## MATERIAŁY

- Korpus pompy: żeliwo
- Wał pompy: stal chromowa
- Wirnik pompy: technopolimer
- Osłona wewnętrzna silnika: stal nierdzewna

## DANE TECHNICZNE

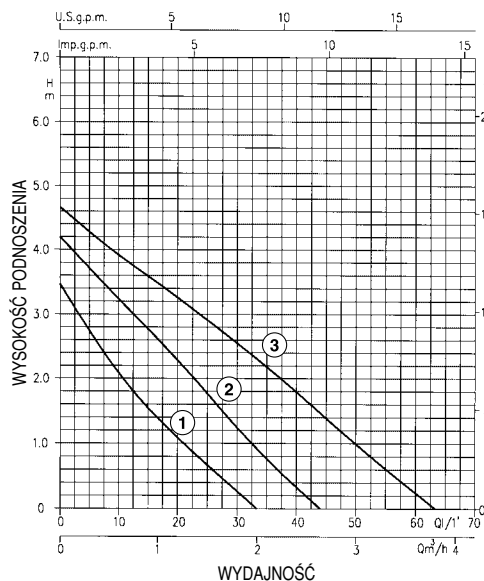
- Asynchroniczne silniki z 3-stopniową regulacją obrotów – przełącznikiem na skrzynce kablowej
  - Klasa izolacji H
  - Zasilanie: 1~230V, 50Hz
- Dla wody o temperaturze 90 °C musi być zapewniony minimalny napływ 1,5 m w celu wyeliminowania kawitacji.

Możliwe wykonania króćców:

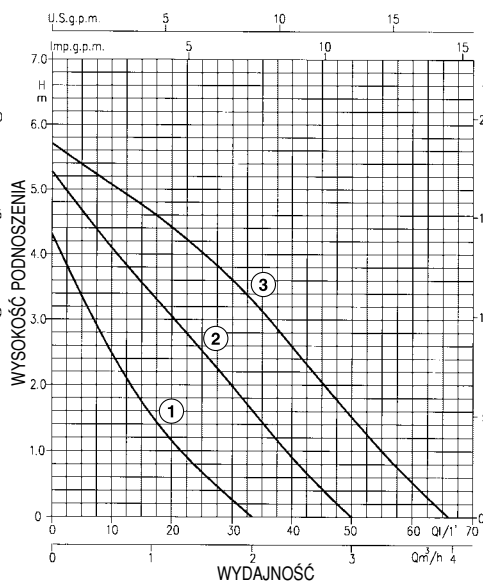
- 1" oraz 1 1/2", rozstaw 130 mm wraz z dwiema uszczelkami
- 1 1/2" oraz 2", rozstaw 180 mm wraz z dwiema uszczelkami
- kołnierze, rozstaw 120 mm wraz z dwiema uszczelkami

## CHARAKTERYSTYKI HYDRAULICZNE (wg UNI 9906-A)

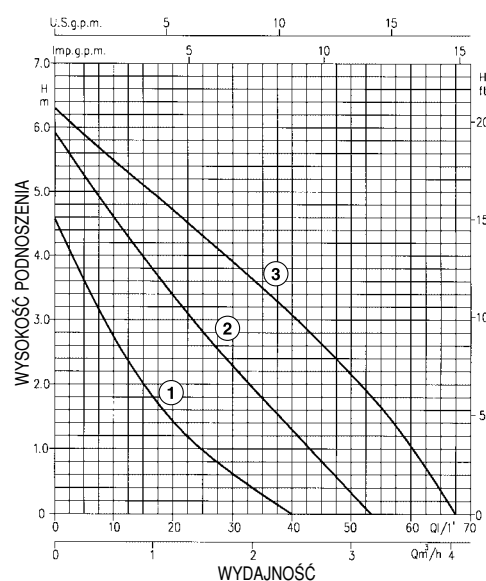
### MR 43



### MR 53



### MR 63



Pompy „in-line”, bezdławnicowe, z silnikiem zamontowanym bezpośrednio na pompie, zaopatrzonym w 4-stopniowy regulator prędkości obrotowej, dający większą elastyczność w doborze pompy. Taka konstrukcja pozwala na bardziej dokładne dopasowanie pompy do wymagań systemu hydraulicznego, redukując jednocześnie poziom hałasu i zużycie prądu.

Zastosowanie: w domowych i przemysłowych systemach grzewczych oraz cyrkulacyjnych



### SPECYFIKACJA

- Maksymalne ciśnienie robocze: 10 bar
- Maksymalna temperatura medium: – 15 do 120°C  
(z wyjątkiem ETHERMA 2/3-40/65/70-2: 110°C max  
ETHERMA 4-95-L M: 100°C max)

### MATERIAŁY

- Korpus pompy: żeliwo lub brąz
- Wał: stal chromowa
- Wirnik: technopolimer lub brąz
- Wewnętrzny płaszcz silnika: stal nierdzewna

### DANE TECHNICZNE

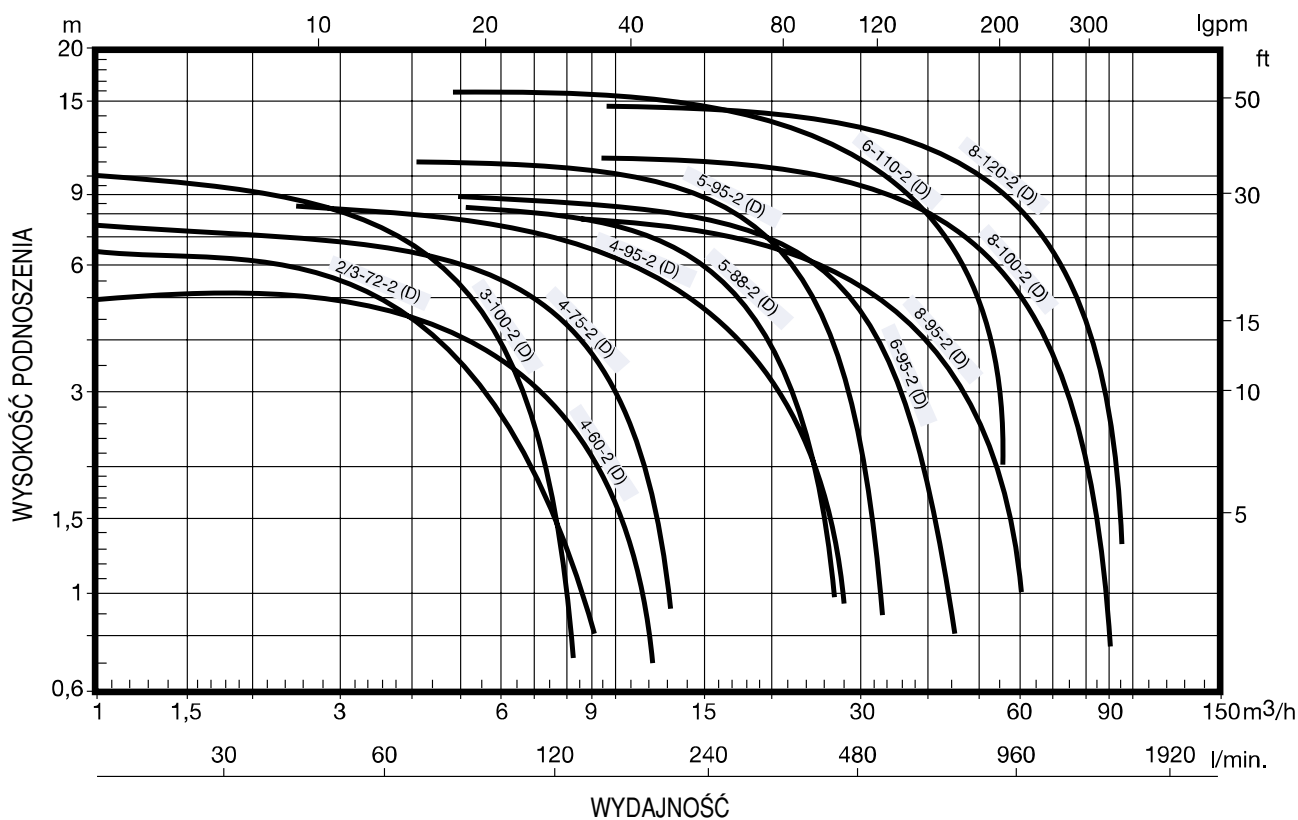
- Silnik z 4 stopniami prędkości obrotowej z regulacją na skrzynce kablowej
- Klasa izolacji: F
- Stopień ochrony: IP 44
- Zasilanie: 1~230V, 50 Hz, 3~400 V, +6 – 10%, 50 Hz

Dla wody o temp. 90 C musi być zapewnione minimalne ciśnienie napywu 1,5 m w celu uniknięcia kawitacji.

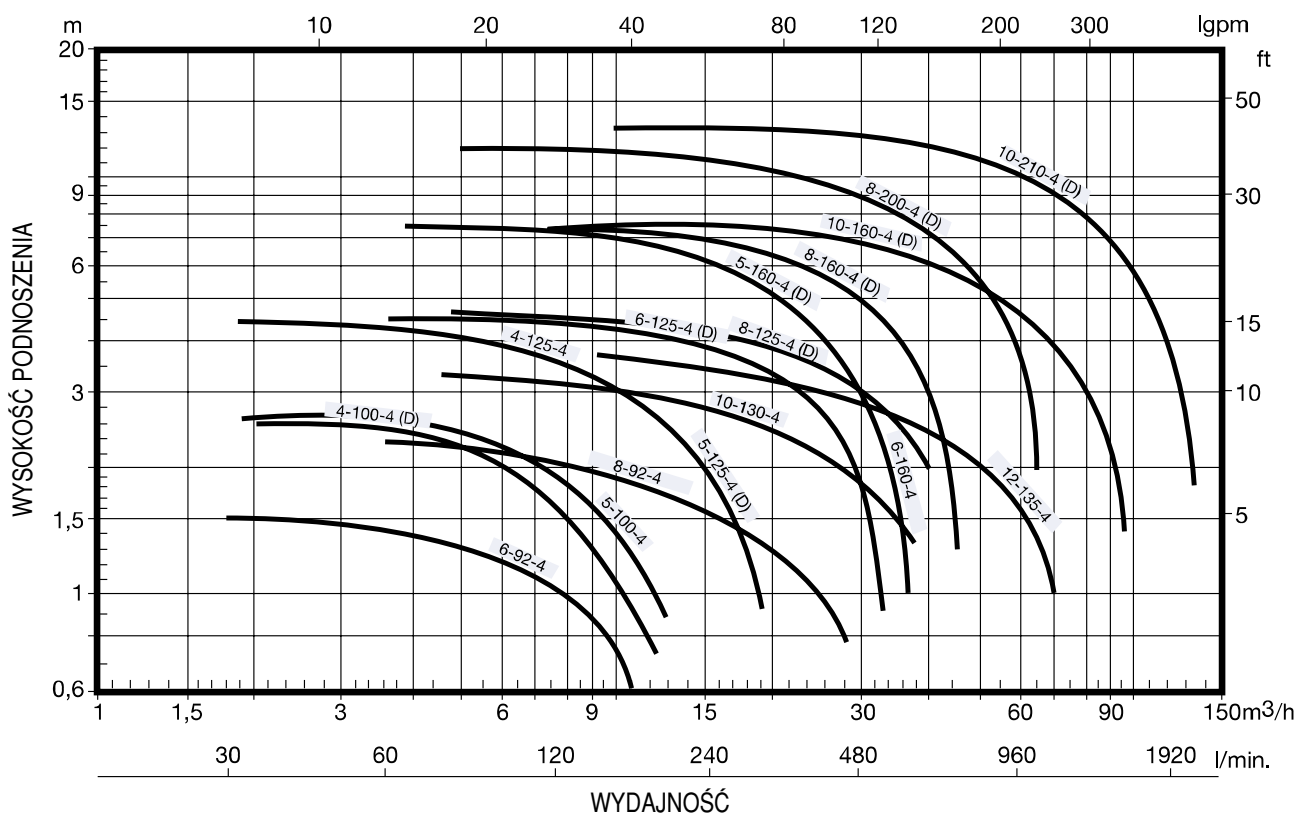
Dostępne wersje:

- 130 mm, króćce 1" gwint zewn. wraz z 2 uszczelkami
- 180 mm, króćce 1" 1/4 oraz 2" gwint zewn. wraz z 2 uszczelkami
- 120 mm, kołnierze wraz z 2 uszczelkami i śrubami

### ZAKRES STOSOWANIA dla 2800 obr./min. (w/g ISO 9906 Aneks A)



### ZAKRES STOSOWANIA dla 1400 obr./min. (wg ISO 9906-2)



Pompy „in-line”, bezdławnicowe, z silnikiem zamontowanym bezpośrednio na pompie, zaopatrzonym w elektroniczny regulator prędkości obrotowej dający większą elastyczność w doborze pompy. Taka konstrukcja pozwala na automatyczne dopasowanie się pompy do wymagań systemu hydraulicznego, redukując jednocześnie poziom hałasu i zużycie prądu.

Zastosowanie: w domowych i przemysłowych systemach grzewczych i cyrkulacyjnych



### SPECYFIKACJA

- Maksymalne ciśnienie pracy: 10 bar
- Maksymalna temperatura medium: od + 15°C do + 120°C
- Maksymalne lepkość medium: 10 mm<sup>2</sup>/s (10 cst)

### MATERIAŁY

- Obudowa pompy: żeliwo
- Wał: stal chromowa
- Wirnik: technopolimer
- Komora separująca: stal nierdzewna

### DANE TECHNICZNE

- Klasa izolacji F
  - Stopień ochrony: IP 44
  - Zasilanie: 1~230V, 3~400V (±10%) 50Hz
- Wbudowane elektroniczne zabezpieczenie przeciążeniowe.



### **BEST BOX** (wersja prysznicowa)

- Przeznaczona do pomp serii Best One
- Maksymalna średnica zanieczyszczeń: 10 mm
- Wylot: 1" 1/4 cala
- Pojemność zbiornika: 30 l
- Masa (bez pompy): 8,5 kg



### **BEST BOX** (wersja garażowa)

- Przeznaczona do pomp serii Best One Vox
- Maksymalna średnica zanieczyszczeń: 20 mm
- Wylot: 1" 1/4 cala
- Pojemność zbiornika: 30 l
- Masa: 125 kg



### **MINI RIGHT**

- Przeznaczona do pomp serii Right
- Maksymalna średnica zanieczyszczeń: 35 mm
- Wylot: 50 mm
- Pojemność zbiornika: 100 l
- Masa (bez pompy): 26 kg



### **SANIRELEV 11**

- Przeznaczona do pomp serii DW/DW VOX
- Maksymalna średnica zanieczyszczeń: 50 mm
- Wylot: DN50/DN63
- Pojemność zbiornika: 360 l
- Masa (bez pompy): 21,5 kg

**Sanirelev 11 MSA:** jednofazowa, wspornik oraz wyłącznik pływakowy

**Sanirelev 11 MPA:** jednofazowa, autozłącze oraz wyłącznik pływakowy

**Sanirelev 11 MSC:** jednofazowa, wspornik, panel oraz wyłącznik pływakowy

**Sanirelev 11 MPC:** jednofazowa, autozłącze, panel oraz wyłącznik pływakowy

**Sanirelev 11 TSC:** trójfazowa, wspornik, panel oraz wyłącznik pływakowy

**Sanirelev 11 TPC:** trójfazowa, autozłącze, panel oraz wyłącznik pływakowy



### **SANIRELEV 22**

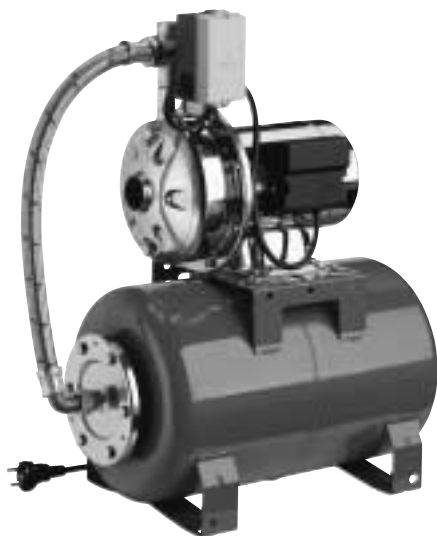
- Przeznaczona do pomp serii DW/DW VOX
- Maksymalna średnica zanieczyszczeń: 50 mm
- Wylot: DN50/DN63
- Pojemność zbiornika: 540 l
- Masa (bez pompy): 30 kg

**Sanirelev 22 MPC:** jednofazowa, autozłącze, panel oraz wyłącznik pływakowy

**Sanirelev 22 TPC:** trójfazowa, autozłącze, panel oraz wyłącznik pływakowy



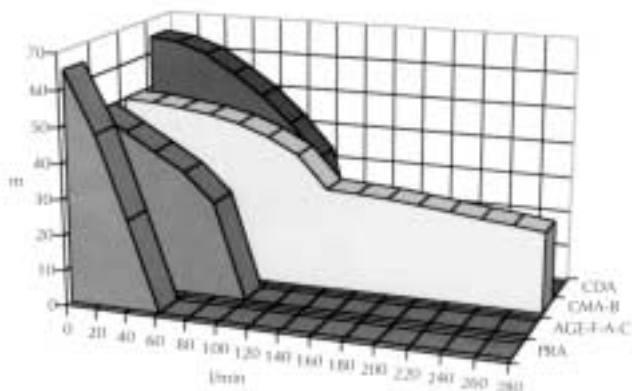
Automatyczne zestawy hydroforowe gotowe do instalacji wyposażone w pompę jednofazową, membramowy zbiornik hydroforowy, wyłącznik ciśnieniowy oraz manometr.



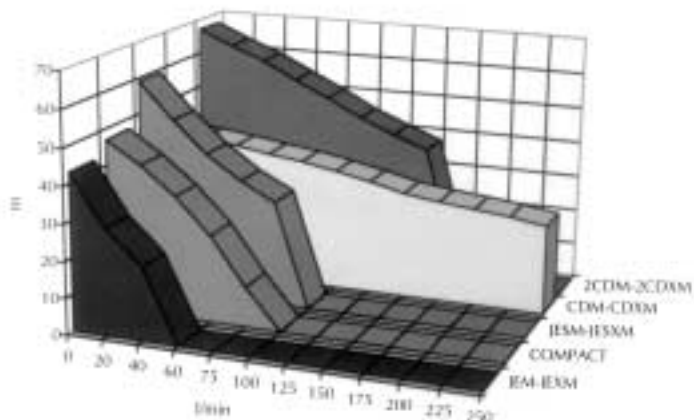
Zestaw może być wyposażony w następujące rodzaje jednofazowych pomp Ebara:

- JES – JE
- JESX – JEX
- CD – 2CD
- CDX – 2CDX
- COMPACT
- PRA
- CDA – CMA
- ew. inne

### CHARAKTERYSTYKI HYDRAULICZNE



### CHARAKTERYSTYKI HYDRAULICZNE





*Kompletne, automatycznie działające zestawy pompowe do podnoszenia ciśnienia wody w wodociągowych instalacjach domowych i przemysłowych. Zbudowane na bazie pomp poziomych lub pionowych zarówno jedno- jak i wielostopniowych*

### ZAKRES STOSOWANIA

Dokładne informacje techniczne znajdują się w katalogach „Zestawów Hydroforowych”.





## TYP 1EP 0,37-2,2kW M (CE)

Stopień ochrony IP 55

Skrzynka sterująco-zabezpieczająca do pomp jednofazowych powierzchniowych, zatapialnych oraz głębinowych (po zainstalowaniu kondensatora). Obwód sterowniczy niskonapięciowy, możliwe sterowanie wyłącznikiem ciśnieniowym lub pływakowym. Regulowana nastawa prądu znamionowego pompy. Wersja UA dodatkowo posiada wyjście do zewnętrznego sygnału dźwiękowego.

### 1~230V – 50 Hz 1~230V – 50 Hz

| Typ sterownika       | HP    | kW       | Zakres nastawy prądu |
|----------------------|-------|----------|----------------------|
| 1 EP 0,37-2,2 kW UAM | 0,5-3 | 0,37-2,2 | 0 – 18 A             |

## TYP 1EP TUA (CE)

Stopień ochrony IP 55

Skrzynka sterująco-zabezpieczająca do trójfazowych pomp powierzchniowych, zatapialnych lub głębinowych. Obwód sterowniczy niskonapięciowy, możliwe sterowanie wyłącznikiem ciśnieniowym lub pływakowym. Regulowana nastawa prądu znamionowego pompy.

Wyjście do zewnętrznego sygnału dźwiękowego.

### 3~400V – 50 Hz

| Typ sterownika     | HP      | kW       | Zakres nastawy prądu |
|--------------------|---------|----------|----------------------|
| 1EP 0,37-2,2 kW UA | 0,5-3   | 0,37-2,2 | 2 – 8 A              |
| 1EP 3-7,5 kW UA    | 4-15    | 3-7,5    | 5 – 14 A             |
| 1EP 9,2-11 kW UA   | 12,5-15 | 9,2-11   | 18 – 22 A            |

## TYP 1EP SD

Stopień ochrony IP 55

Skrzynka sterująco-zabezpieczająca do pomp trójfazowych powierzchniowych, zatapialnych oraz głębinowych. Rozruch gwiazda/trójkąt. Obwód sterowniczy niskonapięciowy, możliwe sterowanie wyłącznikiem ciśnieniowym lub pływakowym.

### 3~400V – 50 Hz

| Typ sterownika  | HP | kW   | Prąd znamionowy<br>min. A max A |    |
|-----------------|----|------|---------------------------------|----|
| 1 EP 7,5 SD UA  | 10 | 7,5  | 15                              | 18 |
| 1 EP 11 SD UA   | 15 | 10   | 18                              | 23 |
| 1 EP 15 SD UA   | 20 | 15   | 24                              | 35 |
| 1 EP 18,5 SD UA | 25 | 18,5 | 35                              | 45 |
| 1 EP 22 SD UA   | 30 | 22   | 35                              | 52 |
| 1 EP 30 SD UA   | 40 | 30   | 49                              | 66 |
| 1 EP 37 SD UA   | 50 | 37   | 75                              | 85 |

## TYP 2EP MUA (CE)

Stopień ochrony IP 55

Skrzynka sterująco-zabezpieczająca dla 2 trójfazowych pomp powierzchniowych lub zatapialnych.

Obwód sterowniczy niskonapięciowy, możliwe sterowanie wyłącznikiem ciśnieniowym lub pływakowym.

W standardzie posiada falownik oraz wyjście do zewnętrznego sygnału dźwiękowego.

### 3~400V – 50 Hz

| Typ sterownika | HP        | kW        | Zakres nastawy prądu |
|----------------|-----------|-----------|----------------------|
| 2EP 0,25M UA   | 0,34+0,34 | 0,25+0,25 | 3                    |
| 2EP 0,37M UA   | 0,5+0,5   | 0,37+0,37 | 4                    |
| 2EP 0,55M UA   | 0,75+0,75 | 0,55+0,55 | 6                    |
| 2EP 0,75M UA   | 1+1       | 0,75+0,75 | 8                    |
| 2EP 1,1M UA    | 1,5+1,5   | 1,1+1,1   | 10                   |
| 2EP 1,5M UA    | 2+2       | 1,5+1,5   | 16                   |
| 2EP 2,2M UA    | 3+3       | 2,2+2,2   | 18                   |

## TYP 2EP TUA (CE)

Stopień ochrony IP 55

Skrzynka sterująco-zabezpieczająca dla 2 trójfazowych pomp powierzchniowych lub zatapialnych. Obwód sterowniczy niskonapięciowy, możliwe sterowanie wyłącznikiem ciśnieniowym lub pływakowym.

W standardzie posiada falownik oraz wyjście do zewnętrznego sygnału dźwiękowego.

### 3~400V – 50 Hz

| Typ sterownika | HP        | kW        | Prąd znamionowy<br>min. A max A |      |
|----------------|-----------|-----------|---------------------------------|------|
| 2EP 0,37T UA   | 0,5+0,5   | 0,37+0,37 | 0,9                             | 1,3  |
| 2EP 0,55T UA   | 0,75+0,75 | 0,55+0,55 | 1,4                             | 1,9  |
| 2EP 0,75T UA   | 1+1       | 0,75+0,75 | 2                               | 3    |
| 2EP 1,1T UA    | 1,5+1,5   | 1,1+1,1   | 2                               | 3    |
| 2EP 1,5T UA    | 2+2       | 1,5+1,5   | 3                               | 3,9  |
| 2EP 2,2T UA    | 3+3       | 2,2+2,2   | 4,5                             | 5,8  |
| 2EP 3,7T UA    | 5+5       | 3,7+3,7   | 6                               | 8    |
| 2EP 5,5T UA    | 7,5+7,5   | 5,5+5,5   | 9                               | 13,5 |
| 2EP 7,5T UA    | 9,5+9,5   | 7+7       | 14                              | 18   |
| 2EP 11T UA     | 15+15     | 11+11     | 17                              | 22   |
| 2EP 13,5T UA   | 18,3+18,3 | 13,5+13,5 | 20                              | 29   |

## TYP 2EP SD UA

Stopień ochrony IP 55

Skrzynka sterująco-zabezpieczająca dla 2 trójfazowych pomp powierzchniowych lub zatapialnych. Rozruch gwiazda/trójkąt.

Obwód sterowniczy niskonapięciowy, możliwe sterowanie wyłącznikiem ciśnieniowym lub pływakowym.

W standardzie posiada falownik oraz wyjście do zewnętrznego sygnału dźwiękowego.

### 3~400V – 50 Hz

| Typ sterownika | HP   | kW   | Prąd znamionowy<br>min. A max A |    |
|----------------|------|------|---------------------------------|----|
| 2EP 7,5 SD UA  | 10   | 7,5  | 15                              | 18 |
| 2EP 9,25 SD UA | 12,5 | 9,2  | 17                              | 20 |
| 2EP 11 SD UA   | 15   | 11   | 18                              | 23 |
| 2EP 15 SD UA   | 20   | 15   | 24                              | 35 |
| 2EP 18,5 SD UA | 25   | 18,5 | 27                              | 40 |
| 2EP 22 SD UA   | 30   | 22   | 35                              | 52 |

Opory przepływu (Pc) w metrach słupa wody  
Prędkość przepływu (V) w m/s.

| Wydajność |      | Średnica wewnętrzna (mm) |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------|------|--------------------------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|           |      | 25                       | 32   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 125   | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 |       |
| 3         | Pc % | 17                       | 6    | 1.6  | 0.54 | 0.25 | 0.13 | 0.06 | 0.03 | 0.02 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s | 1.70                     | 1.03 | 0.67 | 0.43 | 0.29 | 0.22 | 0.16 | 0.13 | 0.10 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 6         | Pc % |                          | 24   | 6    | 2    | 0.9  | 0.43 | 0.21 | 0.13 | 0.08 | 0.024 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          | 2.08 | 1.34 | 0.85 | 0.58 | 0.44 | 0.32 | 0.26 | 0.20 | 0.13  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 9         | Pc % |                          |      | 12.5 | 4.3  | 1.8  | 0.9  | 0.46 | 0.25 | 0.15 | 0.06  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      | 2.08 | 1.32 | 0.88 | 0.65 | 0.5  | 0.39 | 0.32 | 0.20  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 12        | Pc % |                          |      | 20   | 7    | 3.2  | 1.5  | 0.75 | 0.44 | 0.25 | 0.09  | 0.03 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      | 2.76 | 1.76 | 1.19 | 0.88 | 0.67 | 0.53 | 0.43 | 0.27  | 0.18 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 15        | Pc % |                          |      |      | 12   | 5.2  | 2.4  | 1.25 | 0.7  | 0.42 | 0.15  | 0.06 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      | 2.2  | 1.49 | 1.1  | 0.87 | 0.66 | 0.54 | 0.34  | 0.24 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 18        | Pc % |                          |      |      | 17   | 7    | 3.5  | 1.7  | 1    | 0.6  | 0.2   | 0.08 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      | 2.64 | 1.78 | 1.3  | 1    | 0.78 | 0.64 | 0.4   | 0.28 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 21        | Pc % |                          |      |      | 22   | 8.8  | 4.2  | 2.2  | 1.3  | 0.75 | 0.28  | 0.1  | 0.05 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      | 3.25 | 2.08 | 1.54 | 1.17 | 0.93 | 0.75 | 0.48  | 0.32 | 0.24 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 24        | Pc % |                          |      |      |      | 12   | 5.7  | 3    | 1.7  | 1    | 0.36  | 0.14 | 0.07 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      | 2.38 | 1.75 | 1.34 | 1.06 | 0.85 | 0.54  | 0.36 | 0.28 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 27        | Pc % |                          |      |      |      | 14   | 7    | 3.5  | 2    | 1.25 | 0.42  | 0.17 | 0.08 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      | 2.7  | 1.97 | 1.45 | 1.17 | 0.96 | 0.6   | 0.42 | 0.31 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 30        | Pc % |                          |      |      |      | 17   | 8.2  | 4.2  | 2.3  | 1.5  | 0.5   | 0.2  | 0.09 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      | 2.88 | 2.2  | 1.74 | 1.32 | 1.08 | 0.68  | 0.48 | 0.34 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 36        | Pc % |                          |      |      |      | 25   | 12   | 6.3  | 3.5  | 2    | 0.75  | 0.3  | 0.14 | 0.07 |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      | 3.58 | 2.63 | 2    | 1.58 | 1.28 | 0.82  | 0.57 | 0.42 | 0.32 |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 42        | Pc % |                          |      |      |      |      | 16   | 8.5  | 4.5  | 2.7  | 0.85  | 0.33 | 0.18 | 0.08 |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      | 3.07 | 2.34 | 1.85 | 1.5  | 0.96  | 0.66 | 0.48 | 0.37 |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 48        | Pc % |                          |      |      |      |      | 21   | 10   | 6    | 3.6  | 1.2   | 0.45 | 0.22 | 0.12 | 0.06 |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      | 3.51 | 2.68 | 2.12 | 1.72 | 1.08  | 0.72 | 0.56 | 0.43 | 0.34 |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 54        | Pc % |                          |      |      |      |      | 25   | 13.5 | 7.8  | 4.5  | 1.5   | 0.55 | 0.28 | 0.14 | 0.08 |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      | 3.94 | 3    | 2.34 | 1.92 | 1.2   | 0.84 | 0.63 | 0.48 | 0.38 |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 60        | Pc % |                          |      |      |      |      |      | 16   | 9    | 5.5  | 1.8   | 0.7  | 0.33 | 0.17 | 0.1  |      |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      | 3.32 | 2.64 | 2.16 | 1.36  | 0.96 | 0.68 | 0.53 | 0.42 |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 75        | Pc % |                          |      |      |      |      |      | 24   | 14   | 8    | 2.76  | 1    | 0.49 | 0.24 | 0.14 | 0.08 |      |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      | 4.17 | 3.31 | 2.68 | 1.72  | 1.18 | 0.87 | 0.67 | 0.53 | 0.43 |      |      |      |      |      |      |      |      |      |      |      |       |
| 90        | Pc % |                          |      |      |      |      |      |      | 20   | 12.5 | 3.8   | 1.45 | 0.74 | 0.38 | 0.2  | 0.14 | 0.08 |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      | 3.97 | 3.24 | 2.04  | 1.44 | 1.02 | 0.8  | 0.63 | 0.51 | 0.42 |      |      |      |      |      |      |      |      |      |      |       |
| 105       | Pc % |                          |      |      |      |      |      |      | 26   | 16.5 | 5.3   | 1.95 | 0.9  | 0.47 | 0.27 | 0.16 | 0.1  |      |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      | 4.6  | 3.74 | 2.41  | 1.86 | 1.22 | 0.93 | 0.74 | 0.59 | 0.49 |      |      |      |      |      |      |      |      |      |      |       |
| 120       | Pc % |                          |      |      |      |      |      |      |      | 21.5 | 6.9   | 2.6  | 1.2  | 0.61 | 0.36 | 0.2  | 0.14 | 0.08 |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      | 4.31 | 2.72  | 1.93 | 1.35 | 1.06 | 0.84 | 0.68 | 0.56 | 0.47 |      |      |      |      |      |      |      |      |      |       |
| 135       | Pc % |                          |      |      |      |      |      |      |      | 26   | 9     | 3.3  | 1.5  | 0.76 | 0.45 | 0.25 | 0.17 | 0.1  |      |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      | 4.81 | 1.07  | 2.13 | 1.56 | 1.19 | 0.95 | 0.78 | 0.63 | 0.53 |      |      |      |      |      |      |      |      |      |       |
| 150       | Pc % |                          |      |      |      |      |      |      |      |      | 11    | 4    | 1.9  | 0.95 | 0.55 | 0.3  | 0.21 | 0.12 | 0.06 |      |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      | 3.44  | 2.36 | 1.74 | 1.34 | 1.05 | 0.86 | 0.70 | 0.59 | 0.43 |      |      |      |      |      |      |      |      |       |
| 165       | Pc % |                          |      |      |      |      |      |      |      |      |       | 13   | 4.7  | 2.2  | 1.13 | 0.65 | 0.37 | 0.24 | 0.15 | 0.08 |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       | 3.75 | 2.61 | 1.91 | 1.45 | 1.15 | 0.94 | 0.77 | 0.65 | 0.48 |      |      |      |      |      |      |      |       |
| 180       | Pc % |                          |      |      |      |      |      |      |      |      |       | 15.2 | 5.5  | 2.6  | 1.3  | 0.76 | 0.43 | 0.29 | 0.18 | 0.09 |      |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       | 4.09 | 2.83 | 2.08 | 1.59 | 1.26 | 1.02 | 0.84 | 0.71 | 0.52 |      |      |      |      |      |      |      |       |
| 210       | Pc % |                          |      |      |      |      |      |      |      |      |       | 21   | 7.4  | 3.5  | 1.8  | 1.1  | 0.6  | 0.37 | 0.24 | 0.12 | 0.06 |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       | 4.70 | 3.32 | 2.43 | 1.85 | 1.49 | 1.19 | 0.98 | 0.82 | 0.61 | 0.47 |      |      |      |      |      |      |       |
| 240       | Pc % |                          |      |      |      |      |      |      |      |      |       |      | 9.4  | 4.3  | 2.3  | 1.3  | 0.75 | 0.48 | 0.3  | 0.15 | 0.08 |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      | 3.78 | 2.77 | 2.12 | 1.68 | 1.36 | 1.12 | 0.95 | 0.69 | 0.53 |      |      |      |      |      |      |       |
| 270       | Pc % |                          |      |      |      |      |      |      |      |      |       |      | 12   | 5.5  | 2.8  | 1.62 | 0.9  | 0.58 | 0.35 | 0.18 | 0.09 |      |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      | 4.26 | 3.13 | 2.39 | 1.90 | 1.53 | 1.26 | 1.07 | 0.78 | 0.59 |      |      |      |      |      |      |       |
| 300       | Pc % |                          |      |      |      |      |      |      |      |      |       |      | 14   | 7.5  | 3.4  | 2    | 1.1  | 0.74 | 0.46 | 0.22 | 0.11 | 0.07 |      |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      | 4.75 | 3.47 | 2.65 | 2.10 | 1.71 | 1.40 | 1.18 | 0.86 | 0.67 | 0.53 |      |      |      |      |      |       |
| 360       | Pc % |                          |      |      |      |      |      |      |      |      |       |      |      | 9    | 4.7  | 2.8  | 1.6  | 1    | 0.65 | 0.32 | 0.16 | 0.09 | 0.05 |      |      |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      |      | 4.15 | 3.17 | 2.53 | 2.04 | 1.68 | 1.41 | 1.04 | 0.79 | 0.63 | 0.51 |      |      |      |      |       |
| 420       | Pc % |                          |      |      |      |      |      |      |      |      |       |      |      |      | 11.8 | 6.2  | 3.5  | 2    | 1.3  | 0.82 | 0.41 | 0.21 | 0.12 | 0.07 | 0.03 |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      |      |      | 4.86 | 3.72 | 2.94 | 2.37 | 1.95 | 1.64 | 1.22 | 0.94 | 0.76 | 0.59 | 0.41 |      |      |       |
| 480       | Pc % |                          |      |      |      |      |      |      |      |      |       |      |      |      |      | 8.5  | 4.9  | 2.9  | 1.9  | 1.2  | 0.6  | 0.3  | 0.17 | 0.09 | 0.04 |      |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      |      |      |      | 4.24 | 3.36 | 2.72 | 2.24 | 1.90 | 1.38 | 1.06 | 0.84 | 0.69 | 0.47 |      |      |       |
| 540       | Pc % |                          |      |      |      |      |      |      |      |      |       |      |      |      |      |      | 11   | 6.5  | 3.7  | 2.35 | 1.52 | 0.75 | 0.38 | 0.22 | 0.12 | 0.05 |      |       |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      |      |      |      |      | 4.78 | 3.80 | 3.08 | 2.52 | 2.13 | 1.56 | 1.19 | 0.94 | 0.78 | 0.53 |      |       |
| 600       | Pc % |                          |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      | 12.2 | 7.4  | 4.3  | 2.7  | 1.7  | 0.9  | 0.45 | 0.25 | 0.13 | 0.05 | 0.024 |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      | 5.30 | 4.20 | 3.40 | 2.81 | 2.36 | 1.73 | 1.34 | 1.06 | 0.86 | 0.61 | 0.44  |
| 660       | Pc % |                          |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      | 9    | 5.2  | 3.3  | 2.1  | 1.1  | 0.54 | 0.3  | 0.16 | 0.06 | 0.03  |
|           | Vm/s |                          |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |



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