

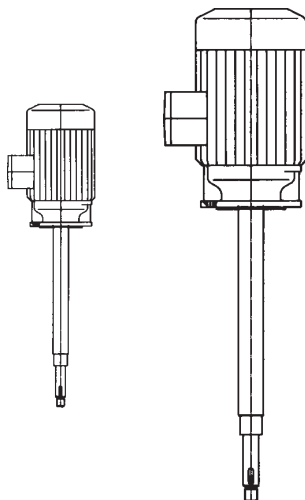
Typ Z

Niskociśnieniowe pompy wirowe do zbiorników

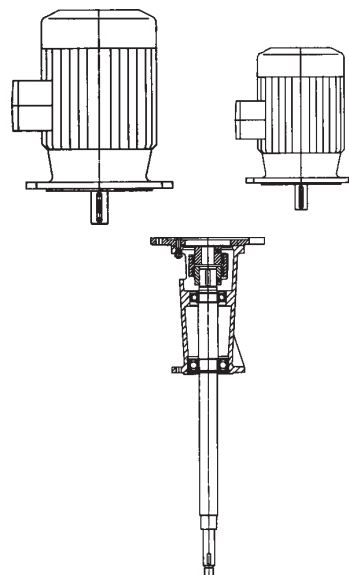


Odmiiany

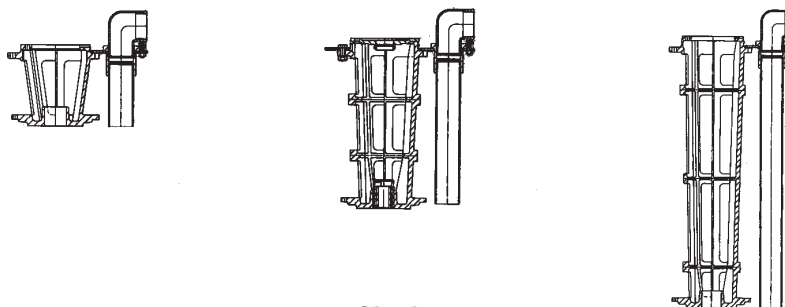
Seria Z
wersja blokowa z silnikiem



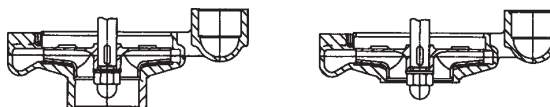
Seria Z-L
z silnikiem znormalizowanym



Głębokość zanurzenia



Obudowy



Zalety

- Wysoka niezawodność pracy
- Tulejka dławiąca z materiału o wysokiej odporności na ścieranie
- Zasada hydrodynamicznego uszczelniania
- Do montażu na zbiornikach
- Silniki znormalizowane lub blokowe
- Indywidualny dobór do instalacji
- Głębokości zanurzenia do 750 mm

Zastosowania

- Do czystych, zanieczyszczonych i abrazyjnych mediów
- Do mediów neutralnych i agresywnych, jak i do rozpuszczalników czy chłodziw
- Do techniki obróbki powierzchni detali (mycie, czyszczenie, odfuszczenie, fosforowanie, bajcowanie)
- Ochrona środowiska, neutralizacja ścieków

Konstrukcja

- Jednostopniowe odśrodkowe pionowe pompy wirowe
- Wał pompy wolnowiszący, łożyskowany jedynie w silniku
- Silnik znormalizowany lub blokowy
- Brak uszczelnienia mechanicznego, wykorzystanie zasady hydrodynamicznego uszczelniania wału
- Wirnik zamknięty
- Króćce z gwintem wewnętrznym

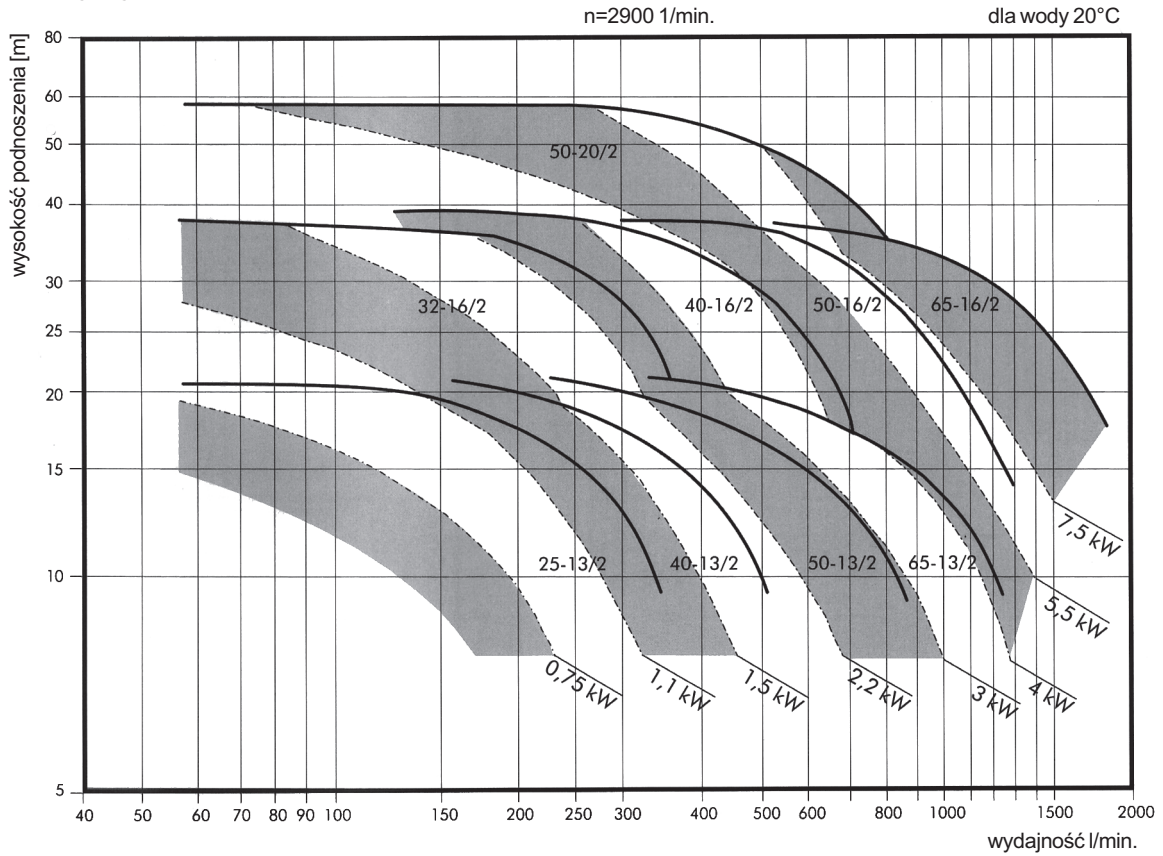
Silniki napędowe

- Stopień ochrony IP54, klasa izolacji F, temp. powietrza chłodzącego 40°C
- Silniki do pracy ciągłej o wzmocnionych łożyskach

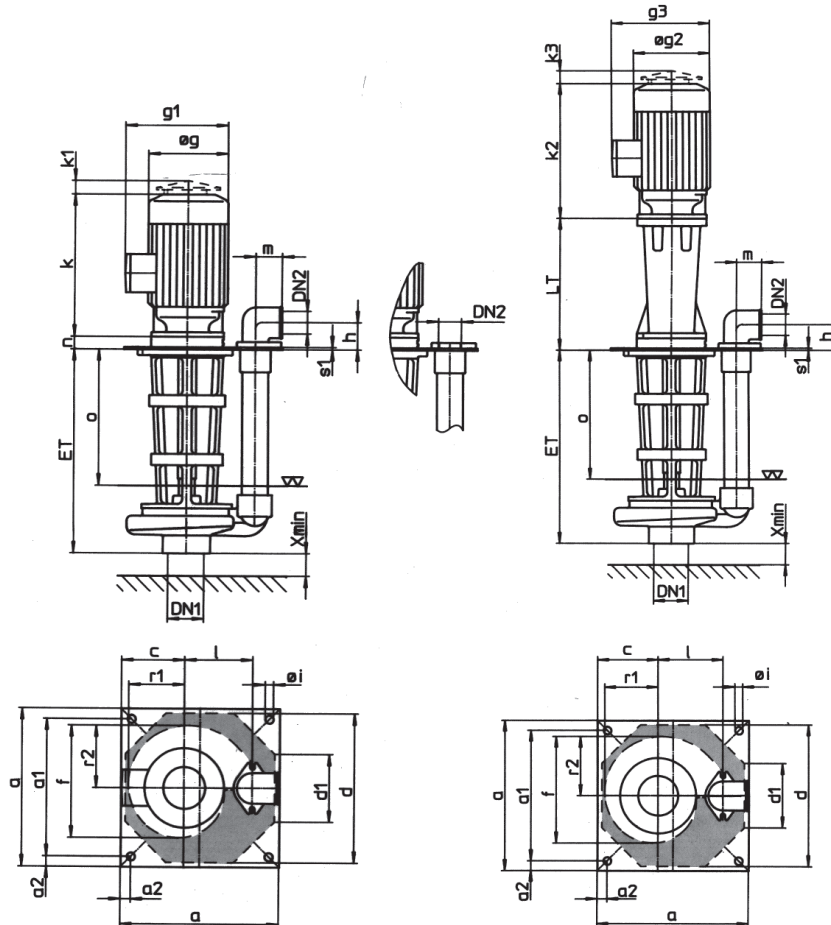
Zakresy zastosowań

- Max. temp. pracy dla wersji z PPS 80°C, dla wersji z żeliwa 120°C
- Max. wydajność do 1700 l/min
- Max. wysokość podnoszenia do 60 m

Charakterystyki



Dane techniczne



Typ Z

Dane techniczne

| Typ | Wymiary [mm] | | | | | | | | | | | | | | | | | | | | Ciężar ³⁾ [kg] | | Rura tłoczna ⁵⁾ | |
|-------|--------------|-----------|---------|-------|-------|-----|-----|----|-----|-----|-----|-----|------------|----|-----|------------|-----|-----|----|------|------------------------------|-----|-------------------------------|------|
| | ET | 2) ET1 | 1) o | DN1 | DN2 | a | a1 | a2 | c | d | d1 | f | h | i | l | m | r1 | r2 | s1 | Xmin | Z | Z-L | Z | Z-L |
| 25-13 | 250 | 220 | 105 | G3/2" | G1" | 300 | 262 | 19 | 130 | 280 | 110 | 180 | 50 (55) | 14 | 115 | 38 | 90 | 95 | 5 | 40 | 14 | 31 | A90 | R71 |
| | 320 | 295 | 175 | | | | | | | | | | | | | | | | | | 16 | 33 | | |
| | 450 | 425 | 305 | | | | | | | | | | | | | | | | | | 21 | 38 | | |
| | 550 | 525 | 405 | | | | | | | | | | | | | | | | | | 24 | 41 | | |
| | 750 | 720 | 605 | | | | | | | | | | | | | | | | | | 31 | - | | |
| 32-16 | 250 | 220 | 105 | G2" | G5/4" | 300 | 262 | 19 | 130 | 280 | 110 | 220 | 55 | 14 | 130 | 45 | 110 | 120 | 5 | 50 | 20 | 34 | A100 | A90 |
| | 320 | 295 | 175 | | | | | | | | | | | | | | | | | | 22 | 36 | | |
| | 450 | 425 | 305 | | | | | | | | | | | | | | | | | | 27 | 41 | | |
| | 550 | 525 | 405 | | | | | | | | | | | | | | | | | | 31 | 45 | | |
| | 750 | 720 | 605 | | | | | | | | | | | | | | | | | | 35 | - | | |
| 40-13 | 250 | 220 | 105 | G2" | G3/2" | 300 | 262 | 19 | 130 | 280 | 110 | 195 | 60 (65) | 14 | 120 | 50 | 100 | 105 | 5 | 50 | 18 | 34 | A90 | R71 |
| | 320 | 295 | 175 | | | | | | | | | | | | | | | | | | 20 | 36 | | |
| | 450 | 425 | 305 | | | | | | | | | | | | | | | | | | 25 | 41 | | |
| | 550 | 525 | 405 | | | | | | | | | | | | | | | | | | 28 | 44 | | |
| | 750 | 720 | 605 | | | | | | | | | | | | | | | | | | 33 | - | | |
| 40-16 | 250 | 230 | 105 | G5/2" | G5/2" | 300 | 262 | 19 | 130 | 280 | 110 | 215 | 60 (65) | 14 | 135 | 50 | 110 | 115 | 5 | 65 | 22 | 36 | A112 | A90 |
| | 320 | 305 | 175 | | | | | | | | | | | | | | | | | | 24 | 38 | | |
| | 450 | 435 | 305 | | | | | | | | | | | | | | | | | | 29 | 44 | | |
| | 550 | 535 | 405 | | | | | | | | | | | | | | | | | | 32 | 46 | | |
| | 750 | 730 | 605 | | | | | | | | | | | | | | | | | | 37 | - | | |
| 50-13 | 250 | 230 | 105 | G5/2" | G2" | 350 | 304 | 23 | 140 | 330 | 150 | 230 | 65 | 18 | 165 | 58 | 115 | 125 | 5 | 65 | 24 | 40 | A132 | A112 |
| | 320 | 305 | 175 | | | | | | | | | | | | | | | | | | 26 | 42 | | |
| | 450 | 435 | 305 | | | | | | | | | | | | | | | | | | 31 | 46 | | |
| | 550 | 535 | 405 | | | | | | | | | | | | | | | | | | 35 | 51 | | |
| | 750 | 730 | 605 | | | | | | | | | | | | | | | | | | 51 | - | | |
| 50-16 | 250 | 230 | 105 | G3" | G2" | 350 | 304 | 23 | 140 | 330 | 150 | 235 | 65 (75) | 18 | 165 | 58 | 120 | 125 | 5 | 80 | 25 | 41 | A132 | A112 |
| | 320 | 305 | 175 | | | | | | | | | | | | | | | | | | 27 | 43 | | |
| | 450 | 435 | 305 | | | | | | | | | | | | | | | | | | 32 | 47 | | |
| | 550 | 535 | 405 | | | | | | | | | | | | | | | | | | 36 | 52 | | |
| | 750 | 730 | 605 | | | | | | | | | | | | | | | | | | 51 | - | | |
| 50-20 | 250 | 230 | 105 | G5/2" | G2" | 350 | 304 | 23 | 140 | 330 | 150 | 260 | 65 (75) | 18 | 165 | 58 | 125 | 135 | 5 | 65 | 33 | 49 | A132 | A112 |
| | 320 | 305 | 175 | | | | | | | | | | | | | | | | | | 35 | 51 | | |
| | 450 | 435 | 305 | | | | | | | | | | | | | | | | | | 40 | 56 | | |
| | 550 | 535 | 405 | | | | | | | | | | | | | | | | | | 44 | 60 | | |
| | 750 | 730 | 605 | | | | | | | | | | | | | | | | | | 59 | - | | |
| 65-13 | 270 | 240 | 105 | G3" | G5/2" | 350 | 304 | 23 | 140 | 330 | 150 | 255 | 75 (90) | 18 | 150 | 70 (75) | 125 | 145 | 5 | 80 | 29 | 45 | A100 | A90 |
| | 340 | 310 | 175 | | | | | | | | | | | | | | | | | | 31 | 47 | | |
| | 470 | 440 | 305 | | | | | | | | | | | | | | | | | | 36 | 52 | | |
| | 570 | 540 | 405 | | | | | | | | | | | | | | | | | | 40 | 56 | | |
| | 765 | 735 | 605 | | | | | | | | | | | | | | | | | | 55 | - | | |
| 65-16 | 350 | 310 | 175 | G3" | G5/2" | 450 | 378 | 36 | 170 | 300 | 170 | 300 | 75 (90) | 18 | 205 | 70 (75) | 150 | 165 | 8 | 80 | 57 | 73 | A160 | A132 |
| | 480 | 440 | 305 | | | | | | | | | | | | | | | | | | 59 | 75 | | |
| | 580 | 540 | 405 | | | | | | | | | | | | | | | | | | 63 | 79 | | |
| | 775 | 735 | 605 | | | | | | | | | | | | | | | | | | 76 | - | | |

1) wymagany poziom cieczy w trakcie uruchamiania pompy

2) wymiary w nawiasach dla materiału M6

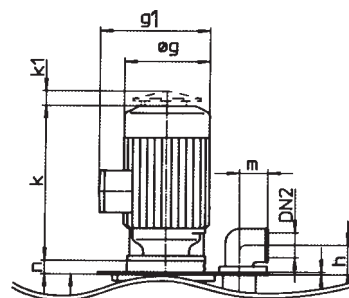
3) pompowanie zęzowe

4) ciężar samej pompy

5) pionowa rura tłoczna dostępna wyłącznie dla podanych wielkości silników

Dane silników
Typ Z

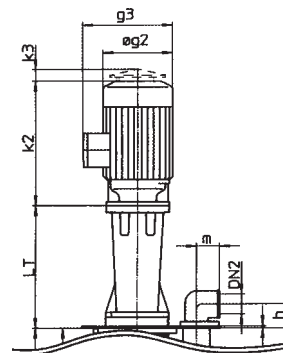
| Moc [kW] | Ilość biegunów silnika | Wielkość silnika | Wymiary [mm] | | | | | Prąd znamio- nowy [A] (400V) | Ciężar ¹⁾ [kg] |
|-------------|------------------------------|---------------------|--------------|-----|-----|----|----|---------------------------------------|------------------------------|
| | | | g | g1 | k | k1 | n | | |
| 0,55 | 2 | A63 | 125 | 155 | 208 | 22 | 28 | 1,5 | 7,8 |
| 0,75 | 2 | R71 | 143 | 186 | 218 | 26 | 28 | 2 | 9,5 |
| 1,1 | 2 | A80 | 158 | 201 | 252 | 26 | 28 | 2,5 | 12 |
| 1,5 | 2 | A80 | 158 | 201 | 252 | 31 | 28 | 3,3 | 14 |
| 2,2 | 2 | A90L | 176 | 227 | 315 | 31 | 28 | 4,8 | 18 |
| 3 | 2 | A90L | 176 | 227 | 315 | 31 | 28 | 6,4 | 20 |
| 4 | 2 | A100L | 196 | 252 | 337 | 31 | 28 | 9,1 | 25 |
| 5,5 | 2 | A112M | 220 | 280 | 350 | 32 | 28 | 11,5 | 33 |
| 7,5 | 2 | A132S | 246 | 320 | 426 | 42 | 46 | 14,5 | 49 |
| 11 | 2 | A132M | 246 | 320 | 426 | 42 | 46 | 21,5 | 59 |
| 15 | 2 | A160M | 312 | 381 | 496 | 39 | 46 | 28 | 123 |



1) ciężar samego silnika

Typ Z-L

| Moc [kW] | Ilość biegunów silnika | Wielkość silnika | Wymiary [mm] | | | | | Prąd znamio- nowy A (400V) | Ciężar ¹⁾ kg |
|-------------|------------------------------|---------------------|--------------|-----|-----|----|-----|-------------------------------------|----------------------------|
| | | | g2 | g3 | k2 | k3 | LT | | |
| 0,55 | 2 | A63 | 143 | 194 | 231 | 25 | 308 | 1,5 | 7,8 |
| 0,75 | 2 | R71 | 158 | 222 | 272 | 25 | 308 | 2 | 9,5 |
| 1,1 | 2 | A80 | 158 | 222 | 272 | 31 | 308 | 2,5 | 12 |
| 1,5 | 2 | A80 | 176 | 239 | 294 | 31 | 308 | 3,3 | 14 |
| 2,2 | 2 | A90L | 176 | 239 | 319 | 31 | 308 | 4,8 | 18 |
| 3 | 2 | A90L | 196 | 279 | 363 | 31 | 326 | 6,4 | 20 |
| 4 | 2 | A100L | 220 | 292 | 380 | 32 | 326 | 9,1 | 25 |
| 5,5 | 2 | A112M | 246 | 338 | 485 | 42 | 348 | 11,5 | 33 |
| 7,5 | 2 | A132S | 246 | 340 | 485 | 42 | 348 | 14,5 | 49 |
| 11 | 2 | A132M | 312 | 396 | 583 | 39 | 423 | 21,5 | 59 |
| 15 | 2 | A160M | 312 | 396 | 583 | 39 | 423 | 28 | 123 |



1) ciężar samego silnika

Materiały

| Nazwa części | M1 | M2 | M3 | M4 | M5 |
|--------------------|--------|--------|--------|--------|--------|
| Korpus | żeliwo | żeliwo | żeliwo | żeliwo | 1.4408 |
| Wimik | żeliwo | żeliwo | PPS | PPS | 1.4408 |
| Tuleja wału | SiFe | SiC | SiFe | SiC | SiC |
| Pierścień dławiący | żeliwo | SiC | żeliwo | SiC | SiC |
| Rura tłoczna | stal | stal | stal | stal | 1.4571 |
| Płyta montażowa | stal | stal | stal | stal | 1.4571 |