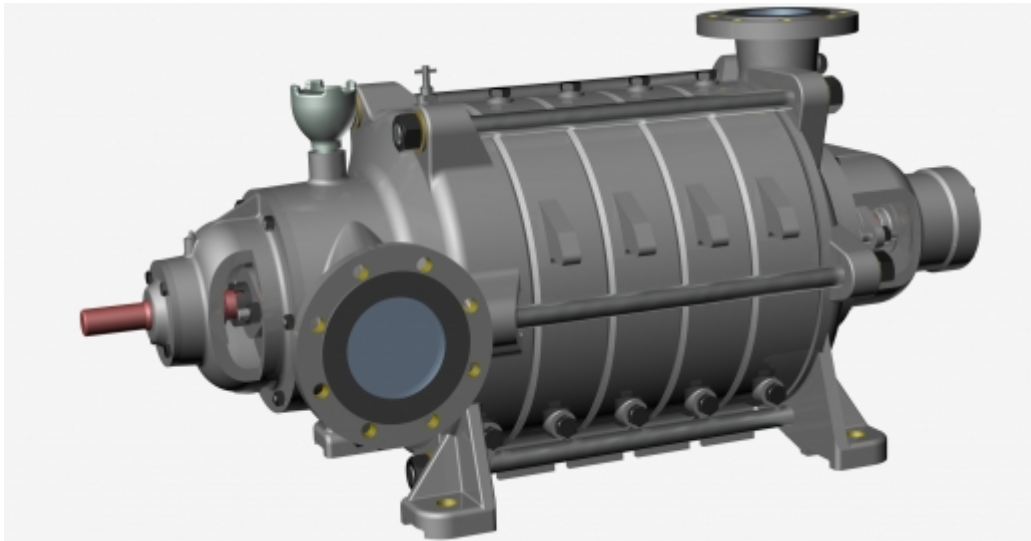


WPS-100



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Catalog



2D



3D

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PUBLICATION - 2017-11-07

TYPICAL APPLICATIONS

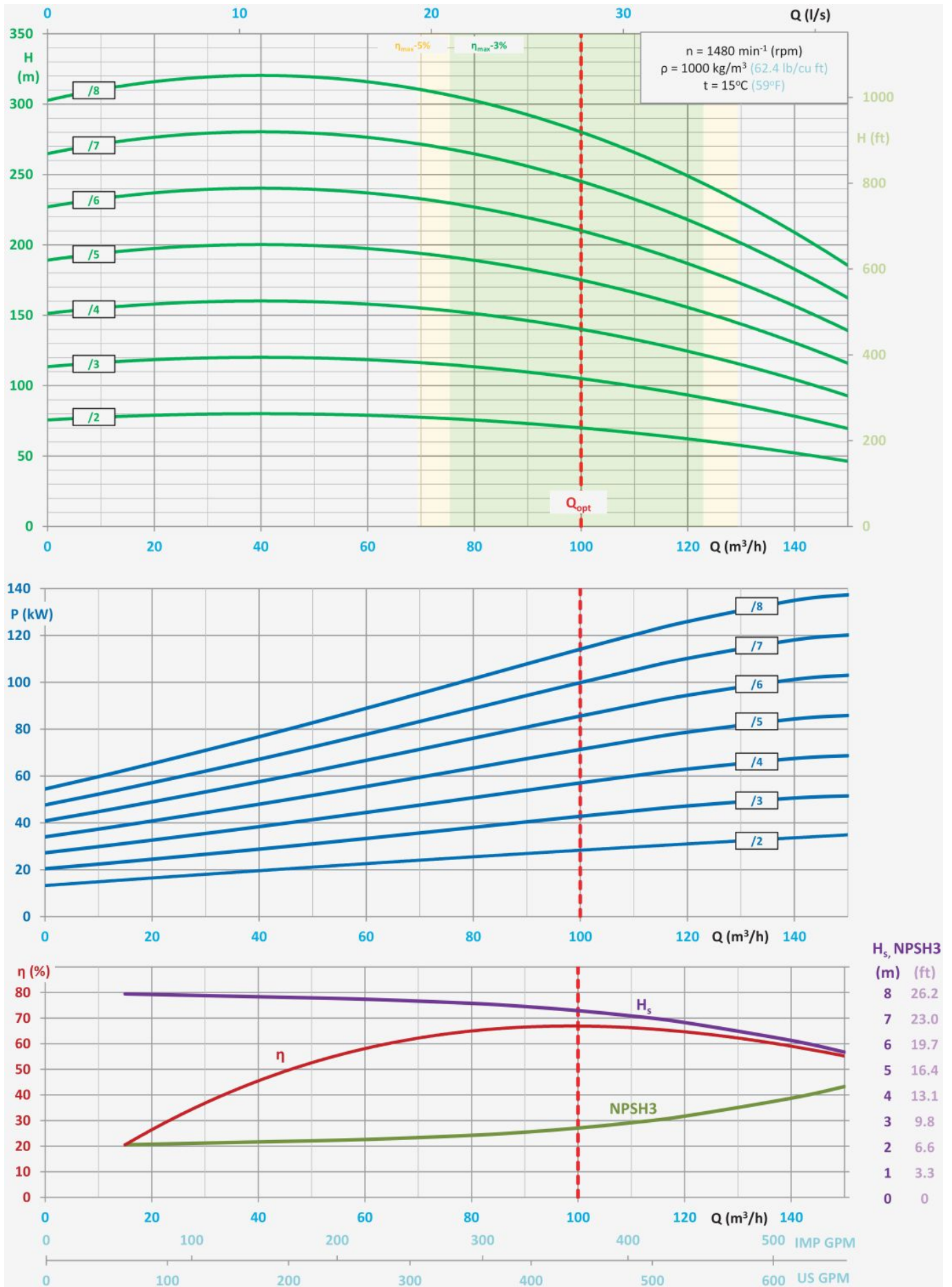
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining - longwall and auxiliary dewatering - WPS pumps intended to

- replace existing medium pressure drainage pumps,
 - water supply systems,
 - pressure boosting,
 - technological processes,
 - industrial systems,
 - filtration systems.
-

KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
 - special material execution DUPLEX especially resistant to difficult conditions,
 - no water cooling of bearings required due to the appropriate design of the relief of the pump axial forces,
 - silent and smooth operation,
 - connection dimensions in compliance with medium pressure drainage pumps,
 - inflow and suction operation,
 - compact and modern design,
 - maintenance-free operation with the use of mechanical sealing,
 - approved for operation in explosion-hazard zones - ATEX Ex I M2.
-

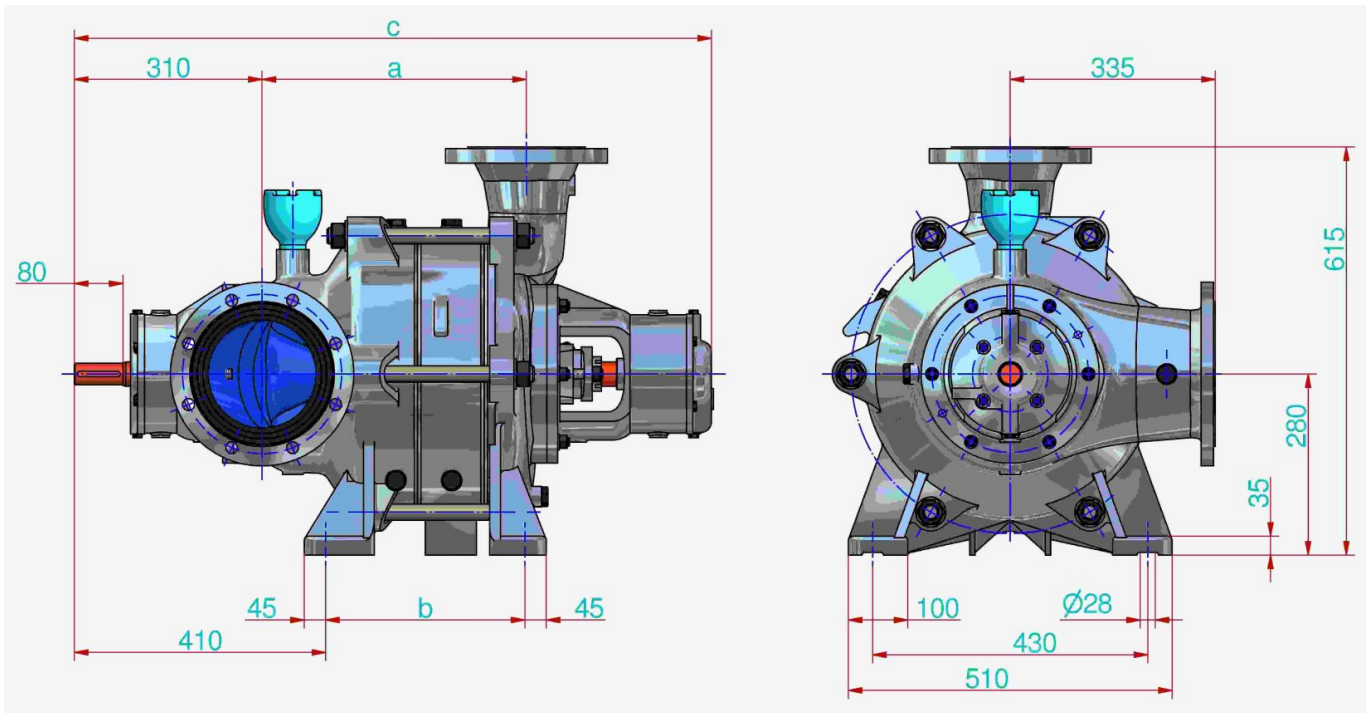
PUMP PERFORMANCE CURVE



▪ $H = f(Q)$ - lift head acc. to rate flow,

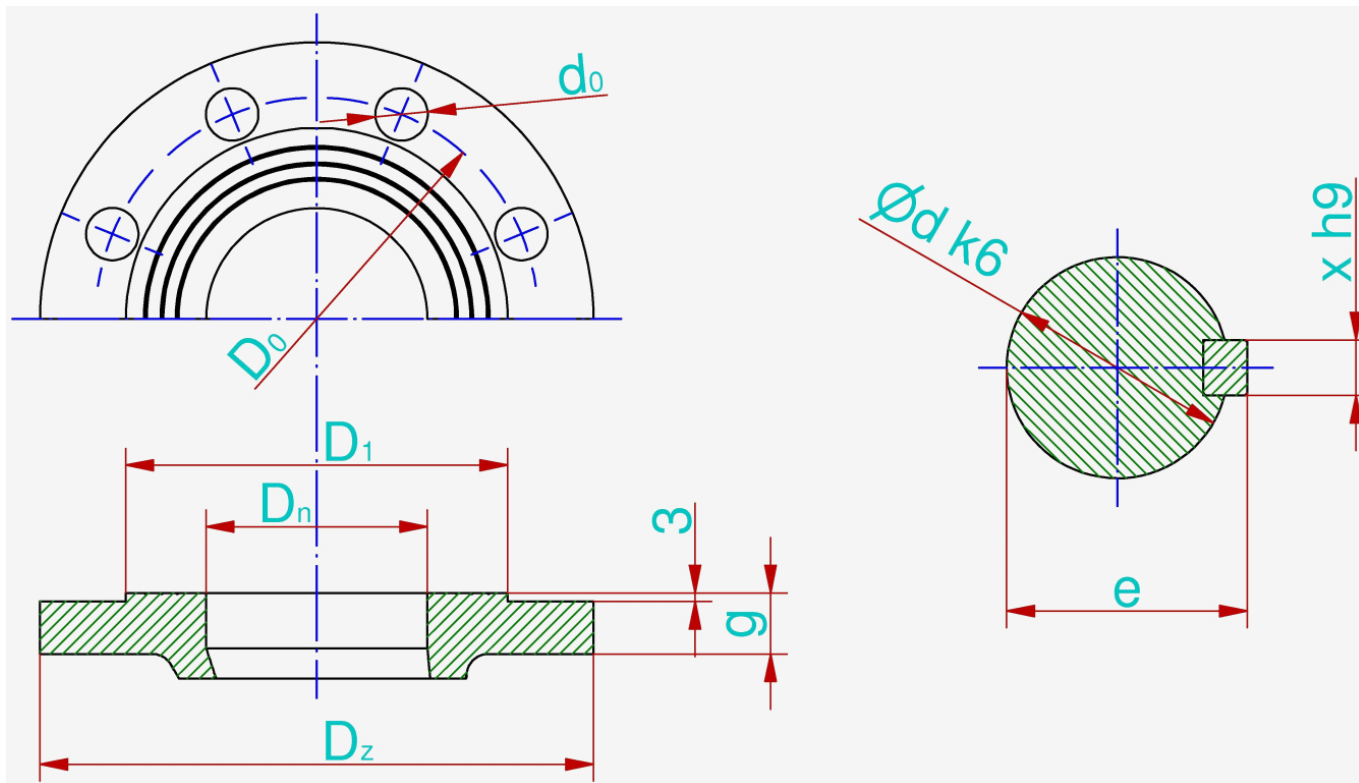
- $P = f(Q)$ - power input acc. to rate flow,
- $\eta = f(Q)$ - efficiency acc. to rate of flow,
- $H_s = f(Q)$ - allowable suction head acc. to rate of flow,
- $NPSH3 = f(Q)$ - net positive suction head and rate of flow.

MAIN DIMENSIONS OF PUMP



| | Number of stages | | | | | | | | |
|----------|------------------|-------|-------|-------|-------|-------|-------|----|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| a | 291,5 | 398,5 | 505,5 | 612,5 | 719,5 | 826,5 | 933,5 | mm | |
| b | 190 | 297 | 404 | 511 | 618 | 725 | 832 | mm | |
| c | 944 | 1051 | 1158 | 1265 | 1372 | 1479 | 1586 | mm | |

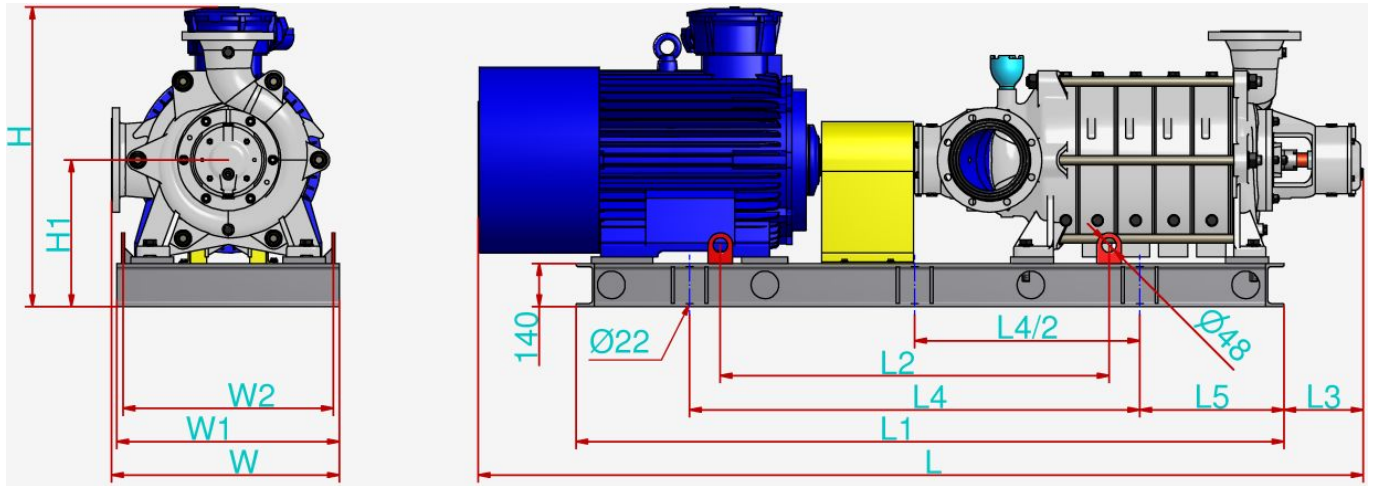
CONNECTION SIZES OF PUMP



| | D_n | Number of stages | P_n | D_f | d_0 | g | D_0 | D_1 | i | d | e | x |
|---------------------|-------|------------------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|
| Suction connector | 125 | - | 10 | 250 | 19 | 24 | 210 | 188 | 8 | - | - | - |
| Discharge connector | 100 | 2÷6 | 25 | 235 | 23 | 26 | 190 | 162 | 8 | - | - | - |
| | | 5÷8 | 40 | 235 | 22 | 24 | 190 | 162 | 8 | - | - | - |
| Shaft / coupling | - | - | - | - | - | - | - | - | - | 35 | 38 | 10 |
| | mm | - | bar | mm | mm | mm | mm | mm | - | mm | mm | mm |

The flanges are normally made in accordance with the standard PN-EN 1092-1 or PN-EN 1092-2.

MAIN DIMENSIONS OF PUMP UNIT



| | Number of stages | | | | | | | | |
|---------------------------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|----|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| L | 1860 | 2025 | 2285 | 2390 | 2530 | 2780 | 2885 | mm | |
| L₁ | 1390 | 1570 | 1795 | 1865 | 1970 | 2190 | 2300 | mm | |
| L₂ | 755 | 850 | 975 | 1010 | 1060 | 1205 | 1255 | mm | |
| L₃ | | | | 255 | | | | mm | |
| L₄ | 950 | 1045 | 1170 | 1205 | 1260 | 1400 | 1450 | mm | |
| L₅ | 195 | 250 | 305 | 355 | 410 | 465 | 515 | mm | |
| W | 645 | 645 | 670 | 670 | 670 | 695 | 695 | mm | |
| W₁ | 620 | 620 | 670 | 670 | 670 | 720 | 720 | mm | |
| W₂ | 570 | 570 | 620 | 620 | 620 | 670 | 670 | mm | |
| H | 840 | 860 | 910 | 910 | 910 | 955 | 955 | mm | |
| H₁ | 420 | 420 | 420 | 420 | 420 | 455 | 455 | mm | |
| Weight | 795 | 1005 | 1270 | 1390 | 1495 | 1670 | 1795 | kg | |
| Coupling type (Rex Viva) | V150 | V190 | V215 | V215 | V245 | V245 | V245 | - | |
| Motor type (Celma) | dSg 225S4-EP | dSg 250M4-EP | dSg 280S4-EP | dSg 280M4-EP | dSg 280M4z-EP | dSg 315S4-EP | dSg 315M4A-EP | - | |
| Motor power | 37 | 55 | 75 | 90 | 100 | 110 | 132 | kW | |
| Motor weight | 365 | 485 | 660 | 700 | 725 | 810 | 850 | kg | |

It is possible to produce pumps with parameters different than those presented in the tables and on the graphs per agreement with the manufacturer.