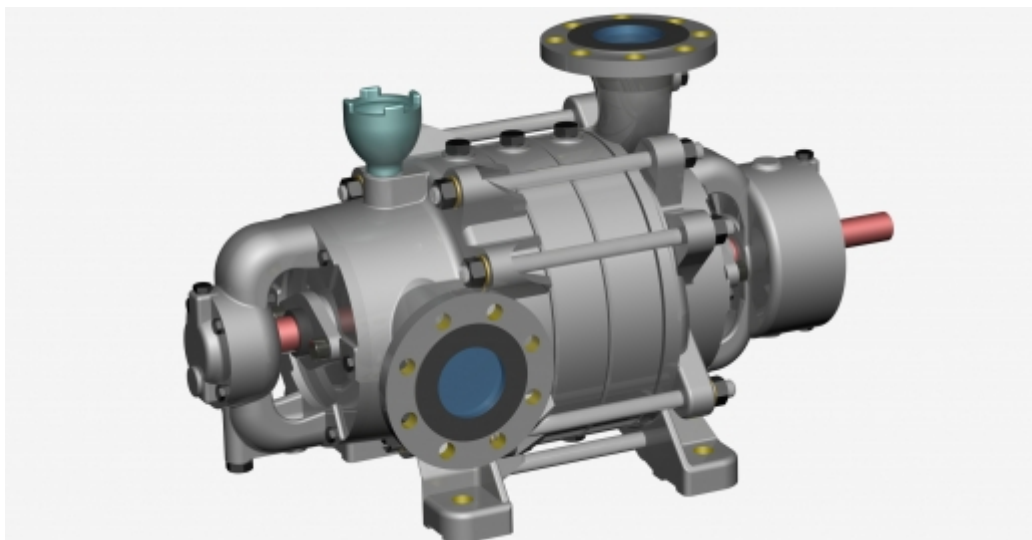


PS-80Z



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Catalog



2D



3D

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PUBLICATION - 2017-11-07

TYPICAL APPLICATIONS

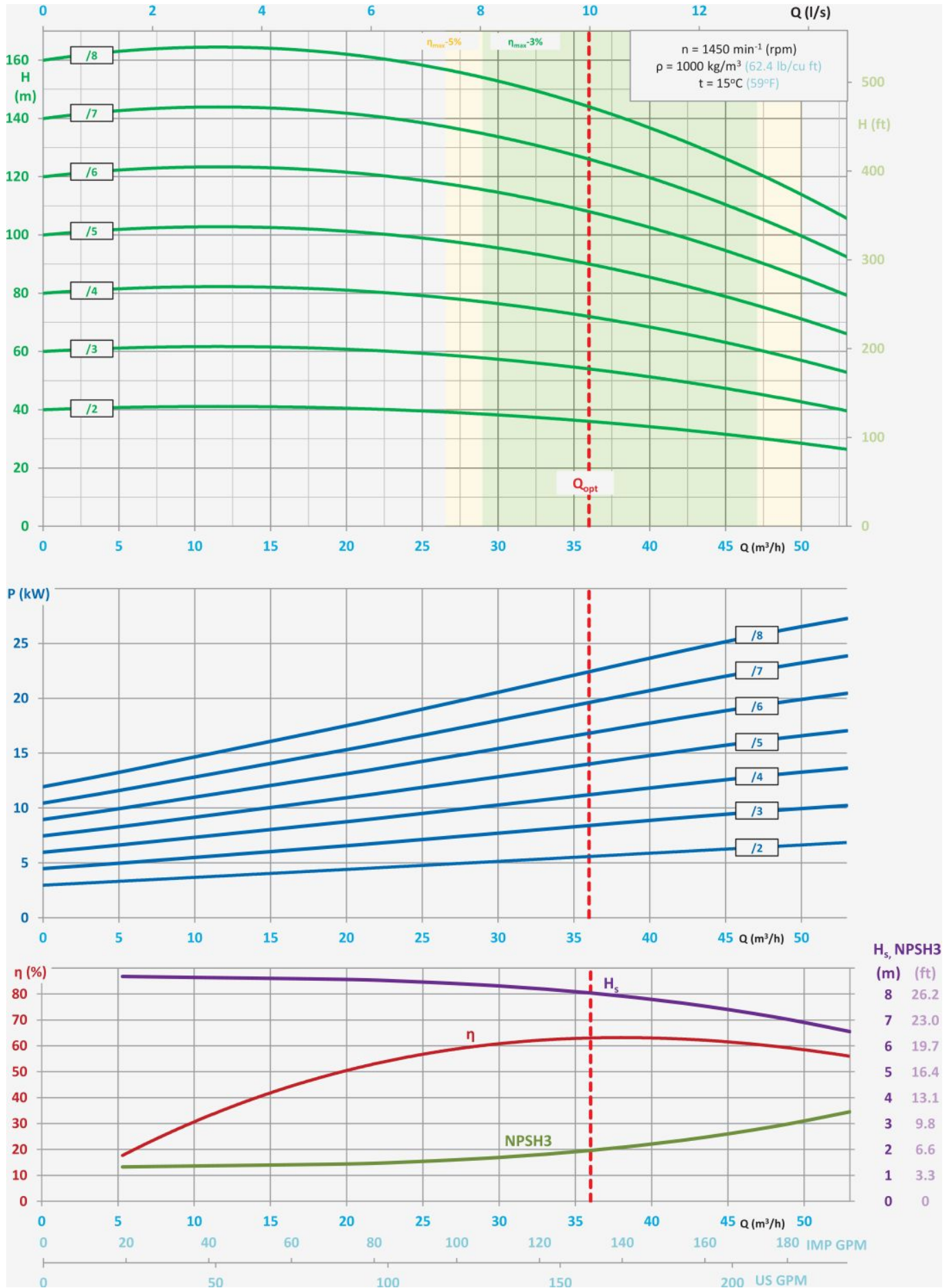
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining - longwall and auxiliary dewatering,

- 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.
-

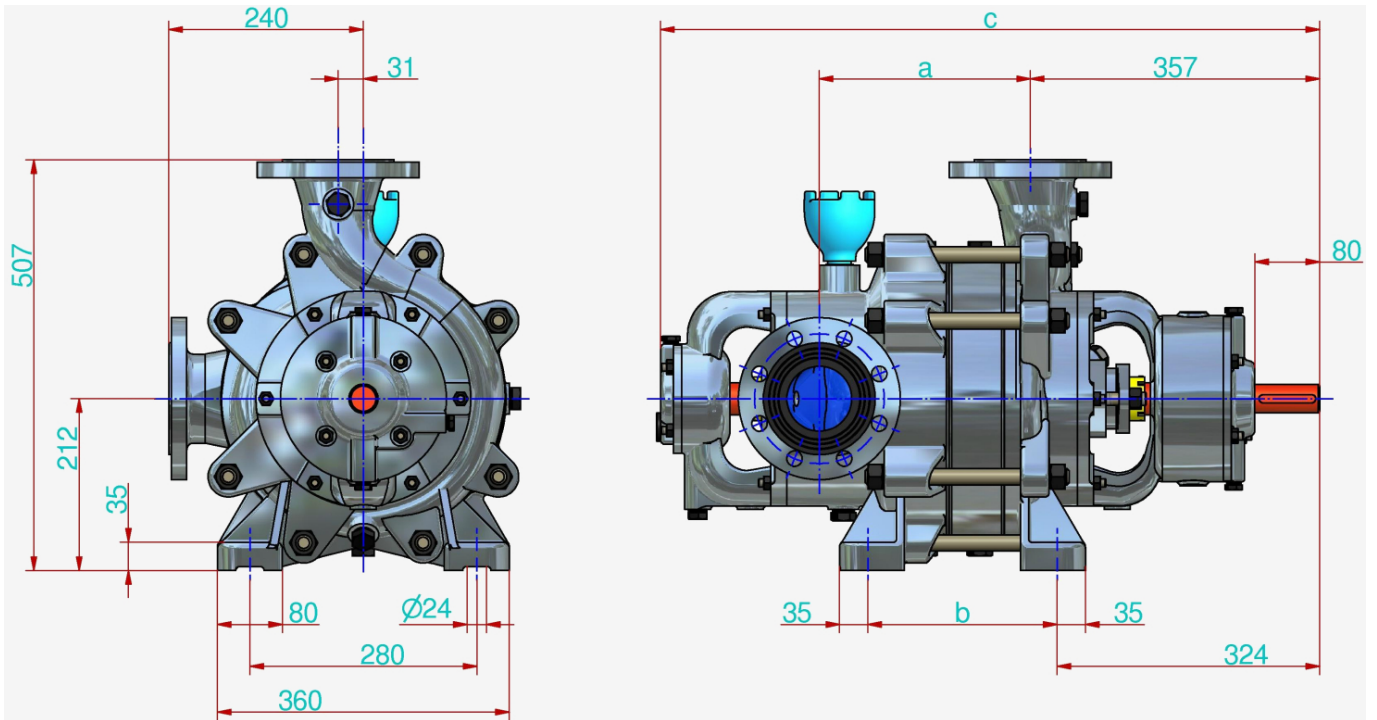
PUMP PERFORMANCE CURVE



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

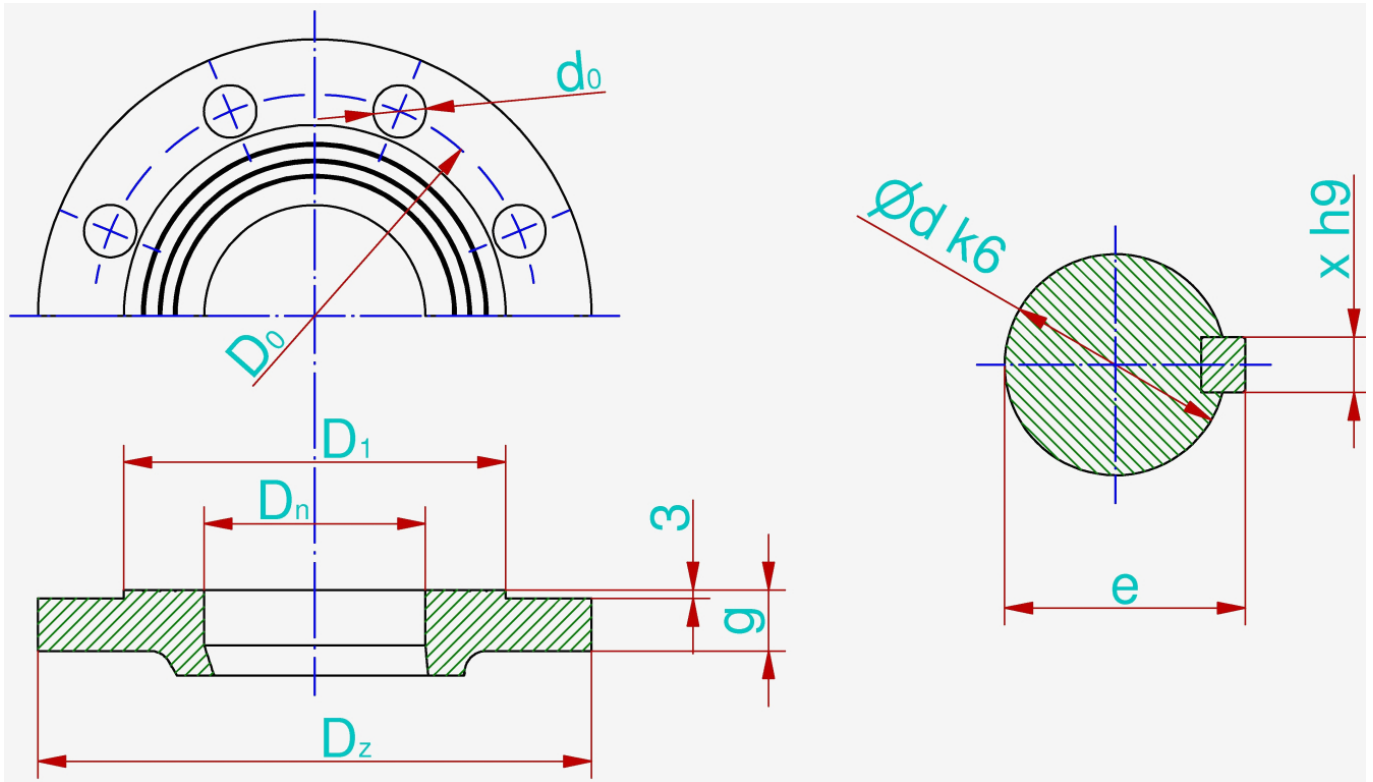
- $P = f(Q)$ - power input acc. to rate flow,
- $\eta = f(Q)$ - efficiency acc. to rate of flow,
- $H_s = f(Q)$ - allowable suction head acc. to rate of flow,
- $NPSH3 = f(Q)$ - net positive suction head and rate of flow.

MAIN DIMENSIONS OF PUMP



| | Number of stages | | | | | | | | |
|----------|------------------|-----|-----|-----|------|------|------|----|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| a | 162 | 230 | 297 | 366 | 431 | 502 | 570 | mm | |
| b | 165 | 233 | 301 | 369 | 437 | 505 | 573 | mm | |
| c | 769 | 837 | 905 | 973 | 1041 | 1109 | 1177 | mm | |

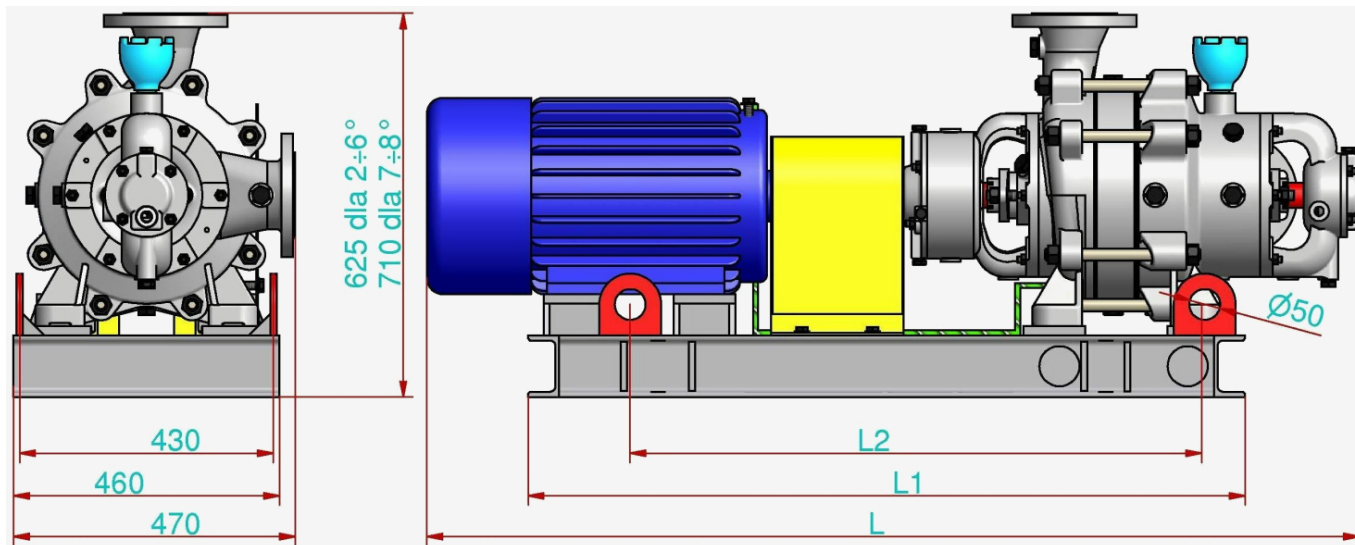
CONNECTION SIZES OF PUMP



| | P_n | D_n | i | D_z | d_0 | g | D_0 | D_1 | d | e | x |
|----------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-----|-----|
| Suction connector | 10 | 80 | 8 | 200 | 19 | 22 | 160 | 133 | - | - | - |
| Discharge connector | 25 | 80 | 8 | 200 | 23 | 22 | 160 | 138 | - | - | - |
| Shaft / coupling | - | - | - | - | - | - | - | - | 35 | 38 | 10 |
| | bar | mm | - | 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 | 1460 | 1530 | 1630 | 1760 | 1830 | 1940 | 2010 | mm | |
| L₁ | 1070 | 1180 | 1250 | 1370 | 1440 | 1570 | 1640 | mm | |
| L₂ | 890 | 1000 | 1070 | 1190 | 1260 | 1390 | 1460 | mm | |
| Weight | 418 | 453 | 506 | 586 | 645 | 775 | 812 | kg | |
| Coupling type (Rex Viva) | V125 | V125 | V125 | V130 | V130 | V150 | V150 | - | |
| Motor type (Celma) | dSg 160M4-EP | dSg 160M4-EP | dSg 160L4-EP | dSg 180M4-EP | dSg 180L4-EP | dSg 200L4-EP | dSg 200L4-EP | - | |

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