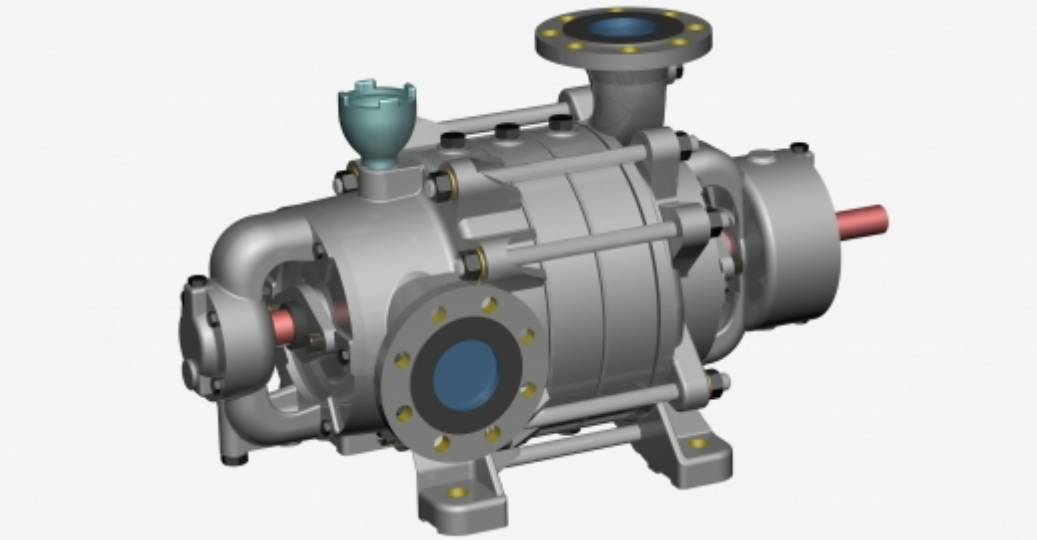
PS-80Z



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2D

3D

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PUBLICATION - 2017-11-07

TYPICAL APPLICATIONS

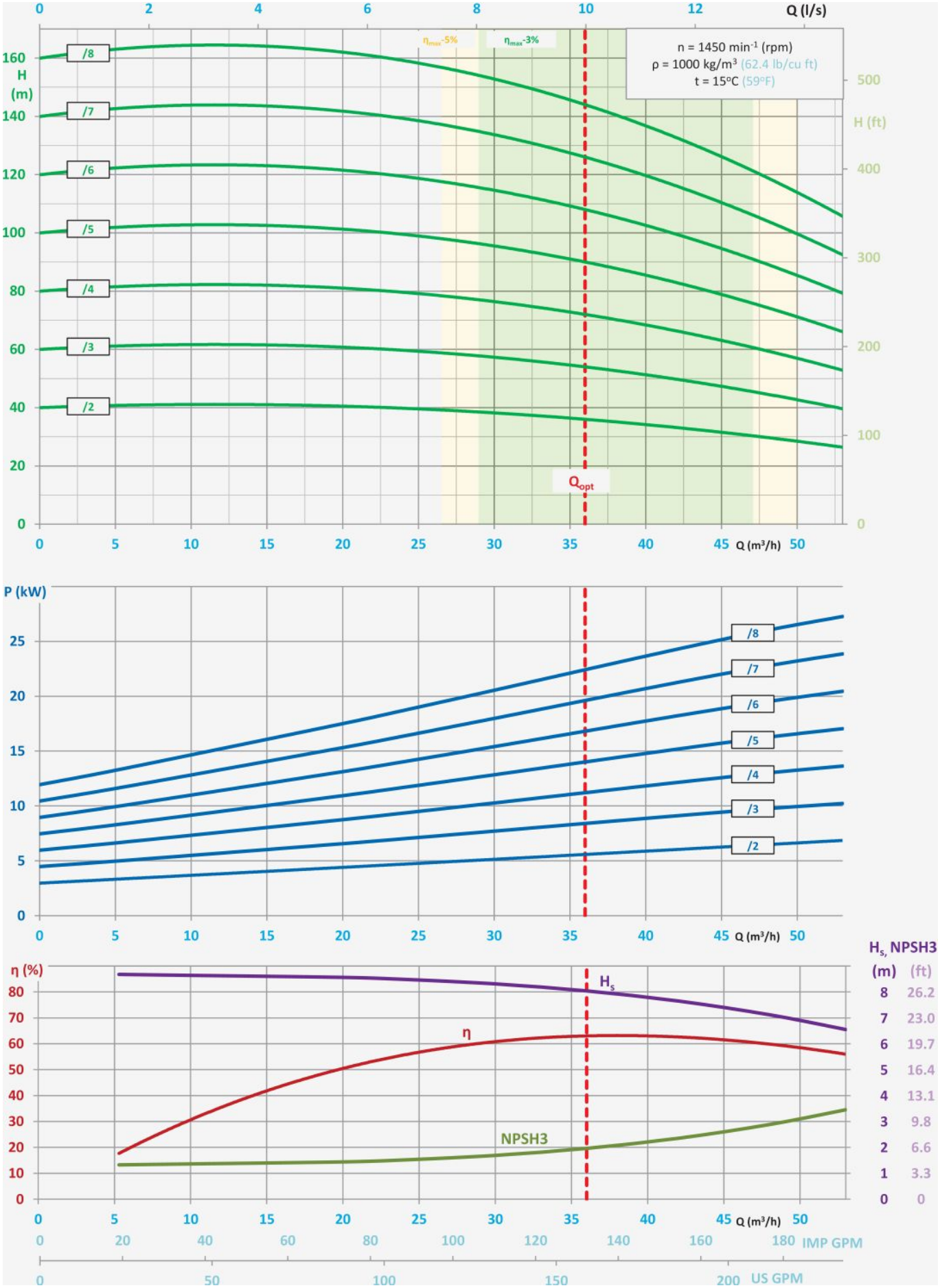
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining – longwall and auxiliary dewatering,

- 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.

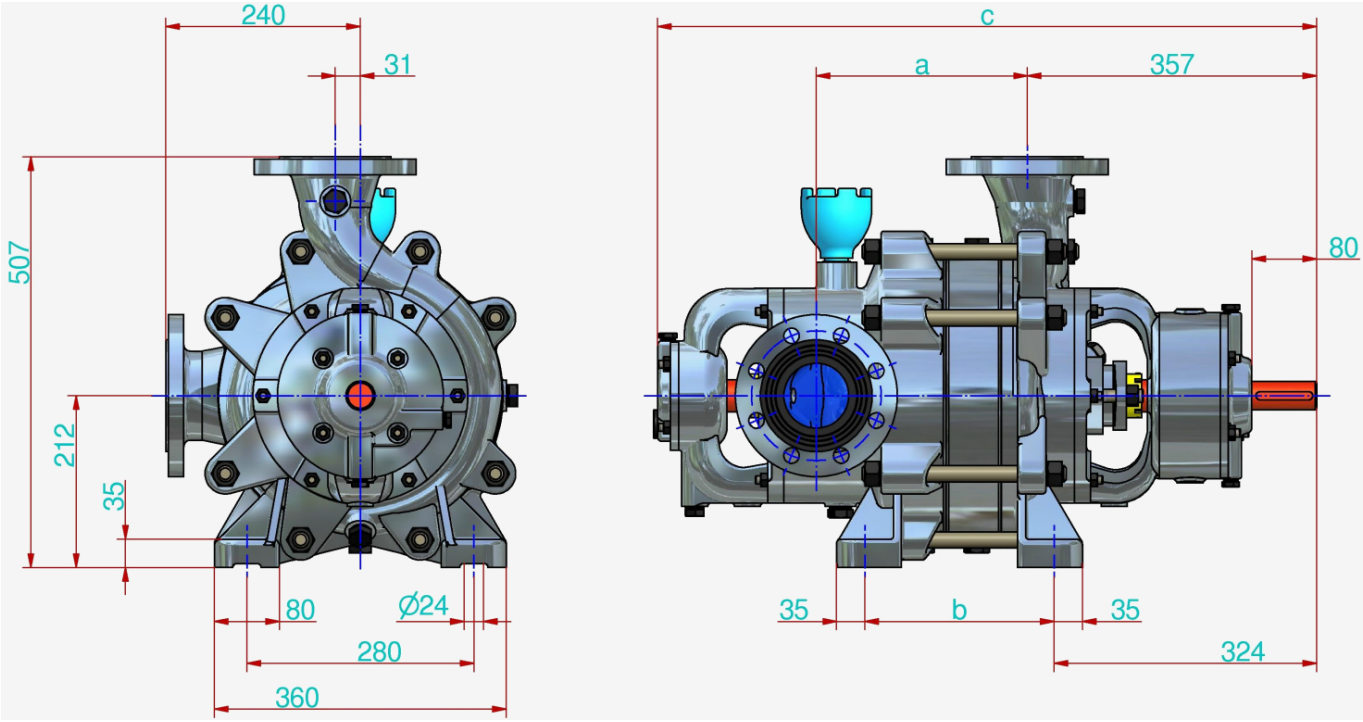
PUMP PERFORMANCE CURVE



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

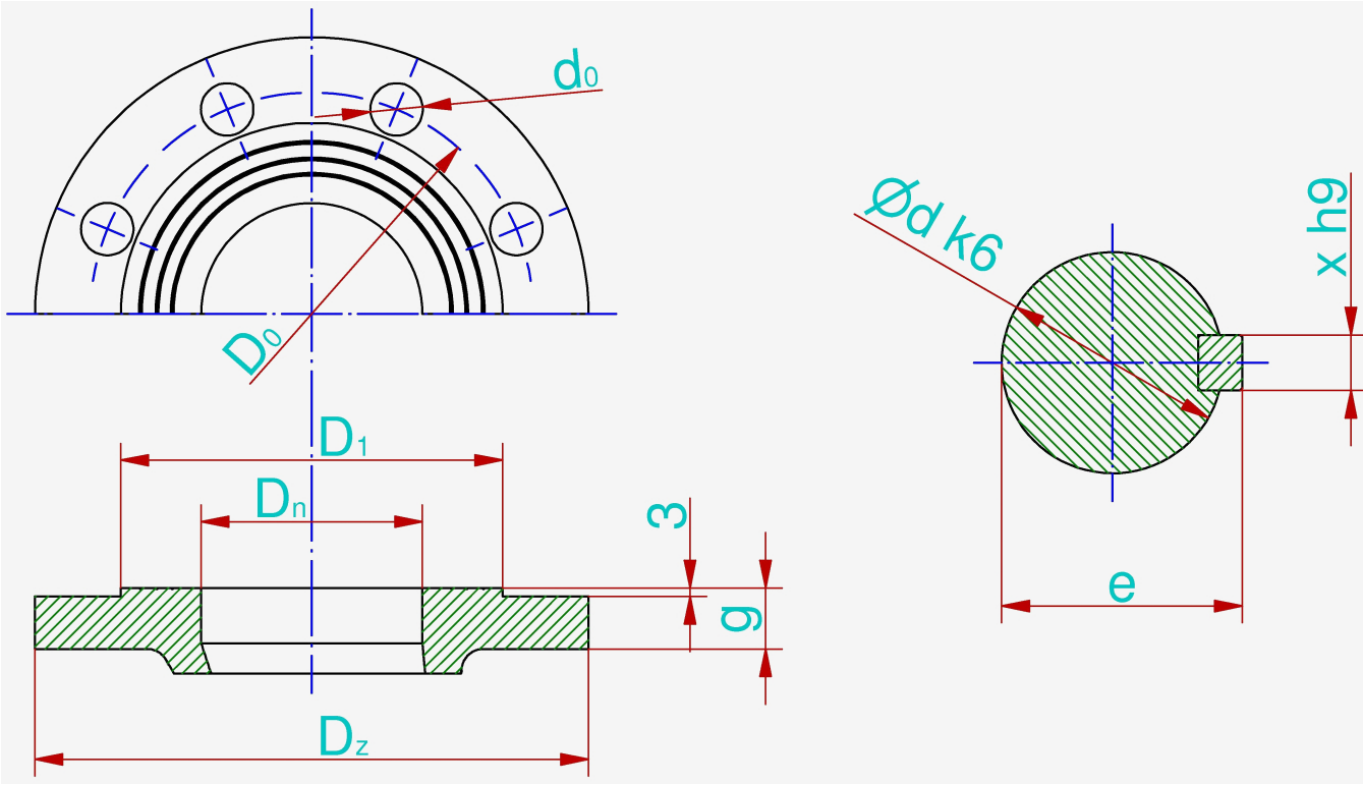
- P = f(Q) – power input acc. to rate flow,
- η = f(Q) – efficiency acc. to rate of flow,
- H_S = f(Q) – allowable suction head acc. to rate of flow,
- NPSH3 = f(Q) – net positive suction head and rate of flow.

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

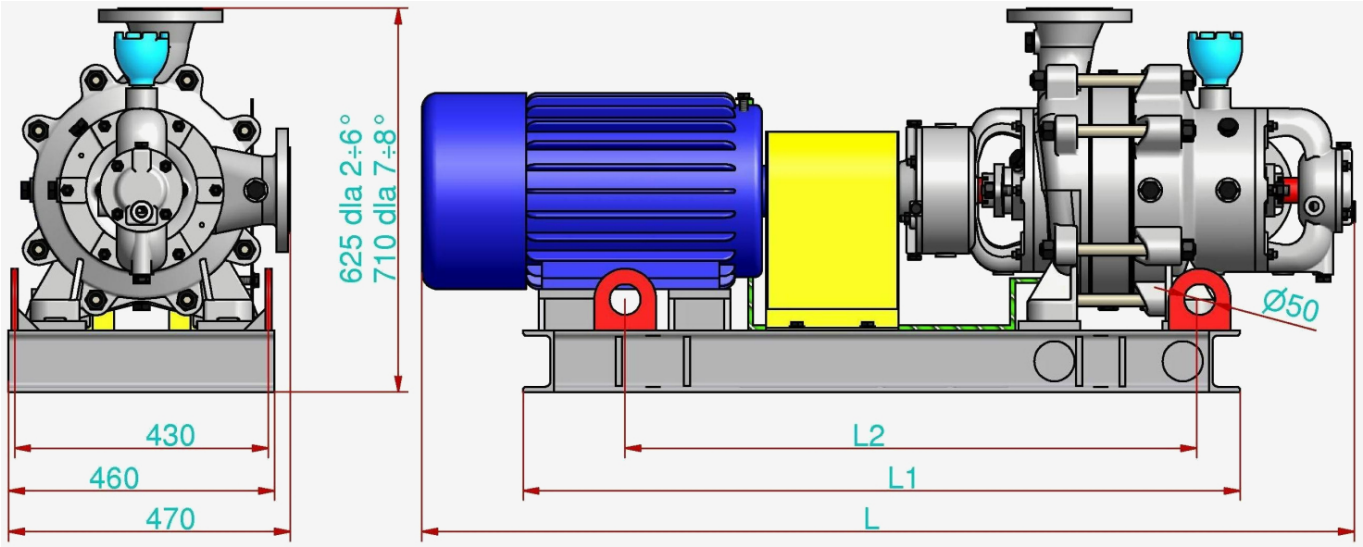
CONNECTION SIZES OF PUMP



	Pn	Dn	i	Dz	d0	g	D0	D1	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
L_1	1070	1180	1250	1370	1440	1570	1640	mm
L_2	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	-

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