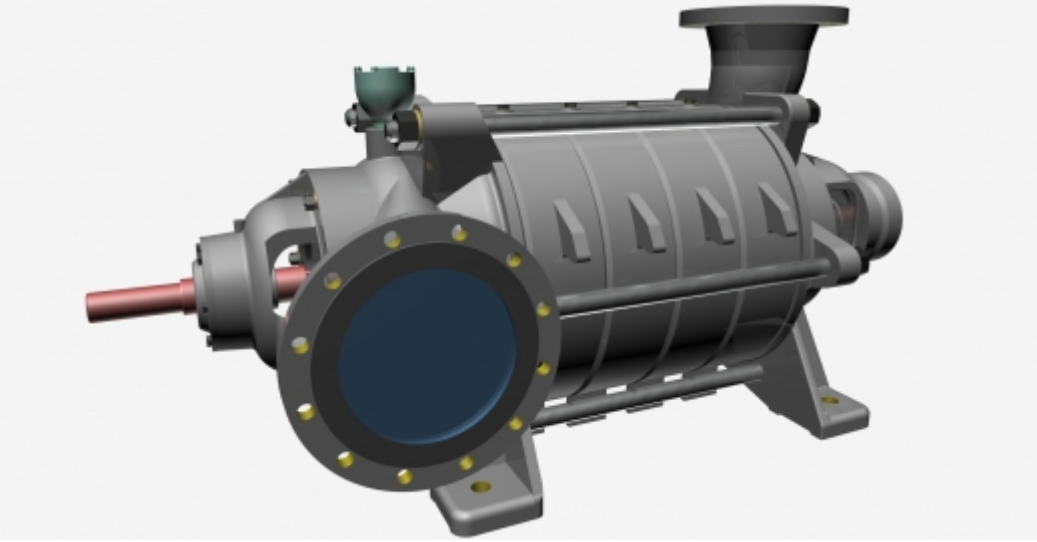
WPS-200



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PUBLICATION - 2017-11-07

TYPICAL APPLICATIONS

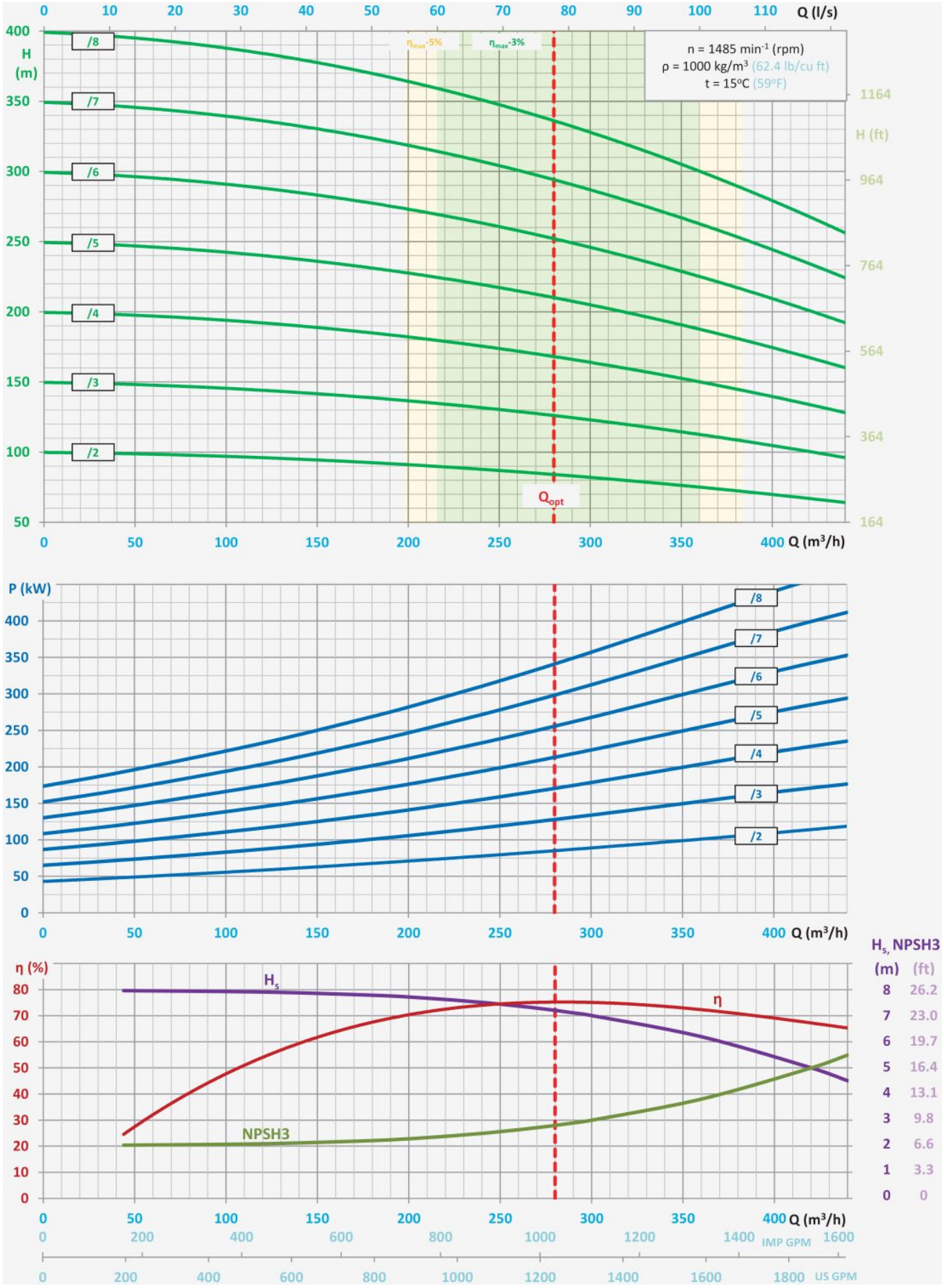
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining – longwall and auxiliary dewatering – WPS pumps intended to

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.

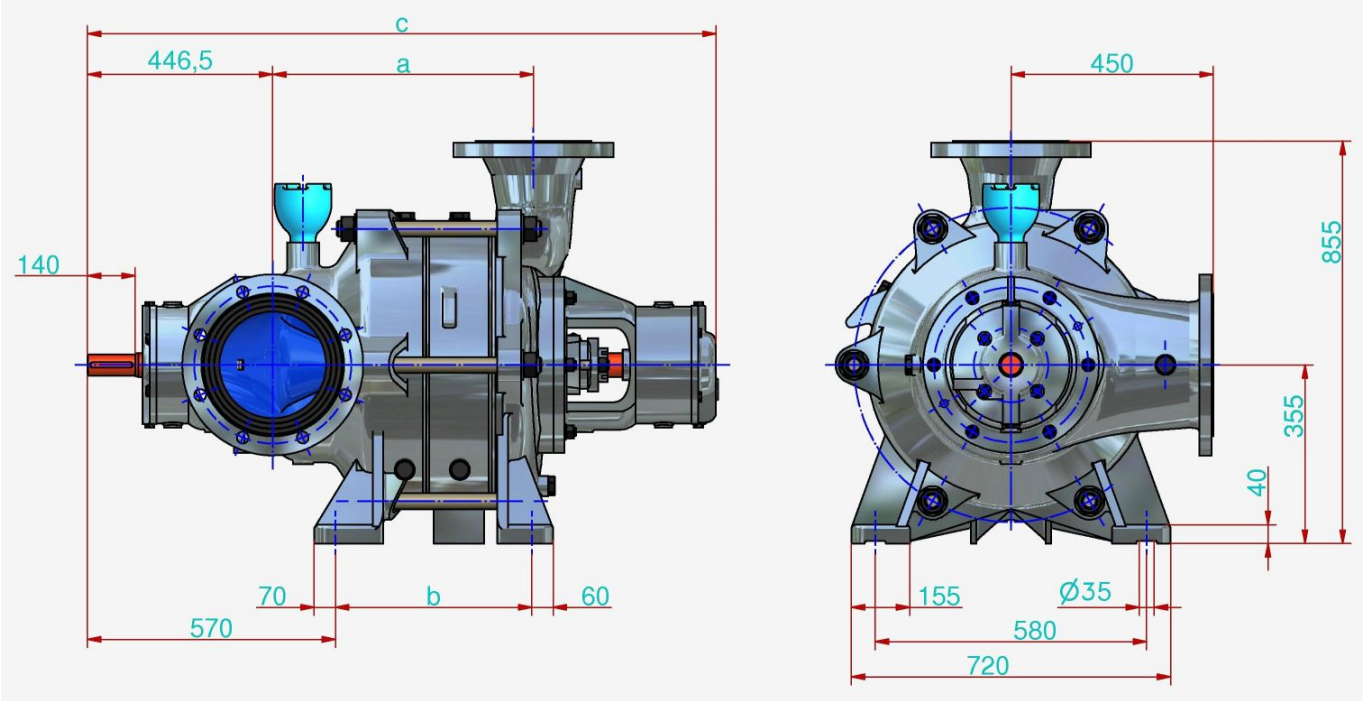
PUMP PERFORMANCE CURVE



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

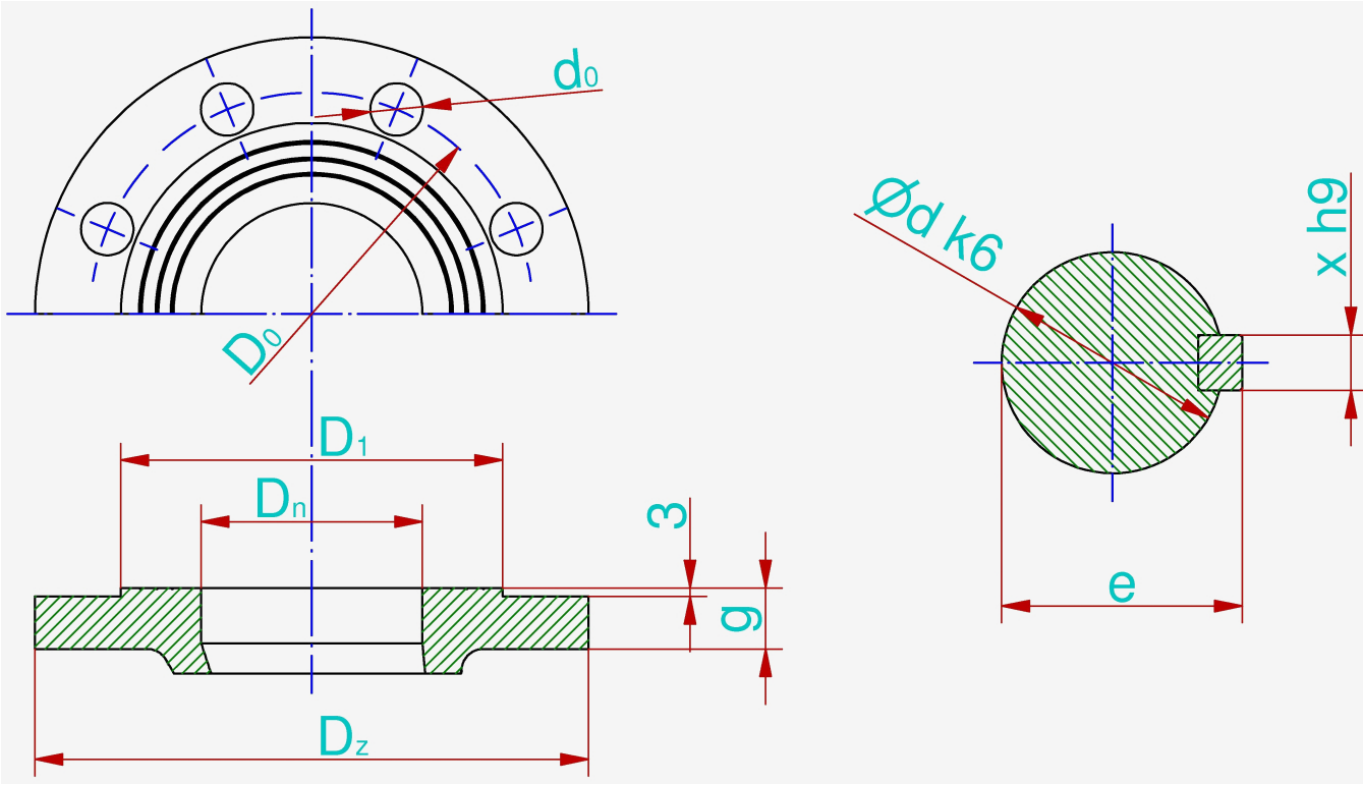
- P = f(Q) – power input acc. to rate flow,
- η = f(Q) – efficiency acc. to rate of flow,
- H_S = f(Q) – allowable suction head acc. to rate of flow,
- NPSH3 = f(Q) – net positive suction head and rate of flow.

MAIN DIMENSIONS OF PUMP



	Number of stages							
	2	3	4	5	6	7	8	
a	479	626	773	920	1067	1214	1361	mm
b	359	506	653	800	947	1094	1241	mm
c	1353	1500	1647	1794	1941	2088	2235	mm

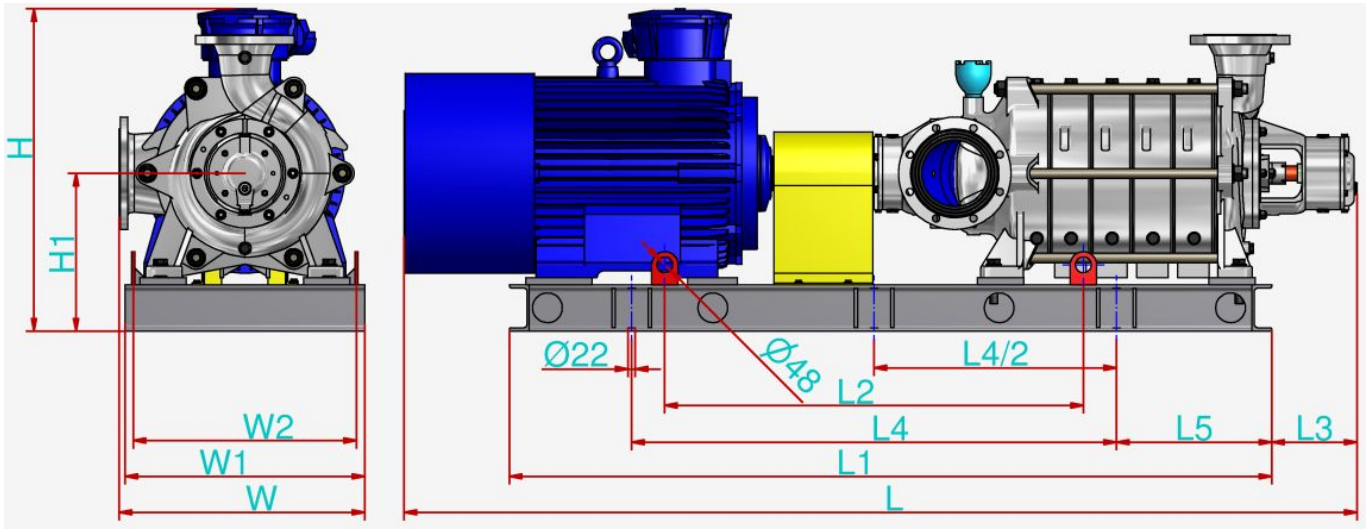
CONNECTION SIZES OF PUMP



	D_n	Number of stages	P_n	D_f	d_0	g	D_0	D_1	i	d	e	x
Suction connector	250	-	10	395	22	26	350	320	12	-	-	-
Discharge connector	200	2÷6	25	360	26	34	310	278	12	-	-	-
		5÷8	40	375	30	34	320	285	12	-	-	-
Shaft / coupling	-	-	-	-	-	-	-	-	-	60	64	18
	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	2480	2800	3025	3505	3555	3700	3850	mm
L_1	1910	2165	2395	2865	3115	3240	3390	mm
L_2	1090	1250	1360	1665	1805	1865	1940	mm
L_3			299			322		mm
L_4	1285	1445	1560	1860	2000	2060	2135	mm
L_5	310	385	455	560	605	665	740	mm
W	875	875	875	875	920	920	920	mm
W_1	850	850	850	850	935	935	935	mm
W_2	790	790	790	790	875	875	875	mm
H	1039	1039	1039	1069	1074	1074	1074	mm
H_1	539	539	539	539	584	584	584	mm
Weight	1695	1995	2215	3470	4010	4150	4385	kg
Coupling type (Rex Viva)	V215	V245	V290	V365	V365	V365	V365	-
Motor type (Celma)	dSg 280M4-EP	dSg 315M4A-EP	dSg 315L4-EP	STG 355M4	STG 355L4	STG 355L4	Damel 2SG2 400M-4f	-
Motor power	90	132	200	250	315	315	355	kW
Motor weight	700	850	1040	1990	2650	2650	2480	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.