WPS-150

DOWNLOAD

Catalog

2D

3D

SAVE TO PDF / PRINT

PUBLICATION - 2017-11-07

TYPICAL APPLICATIONS

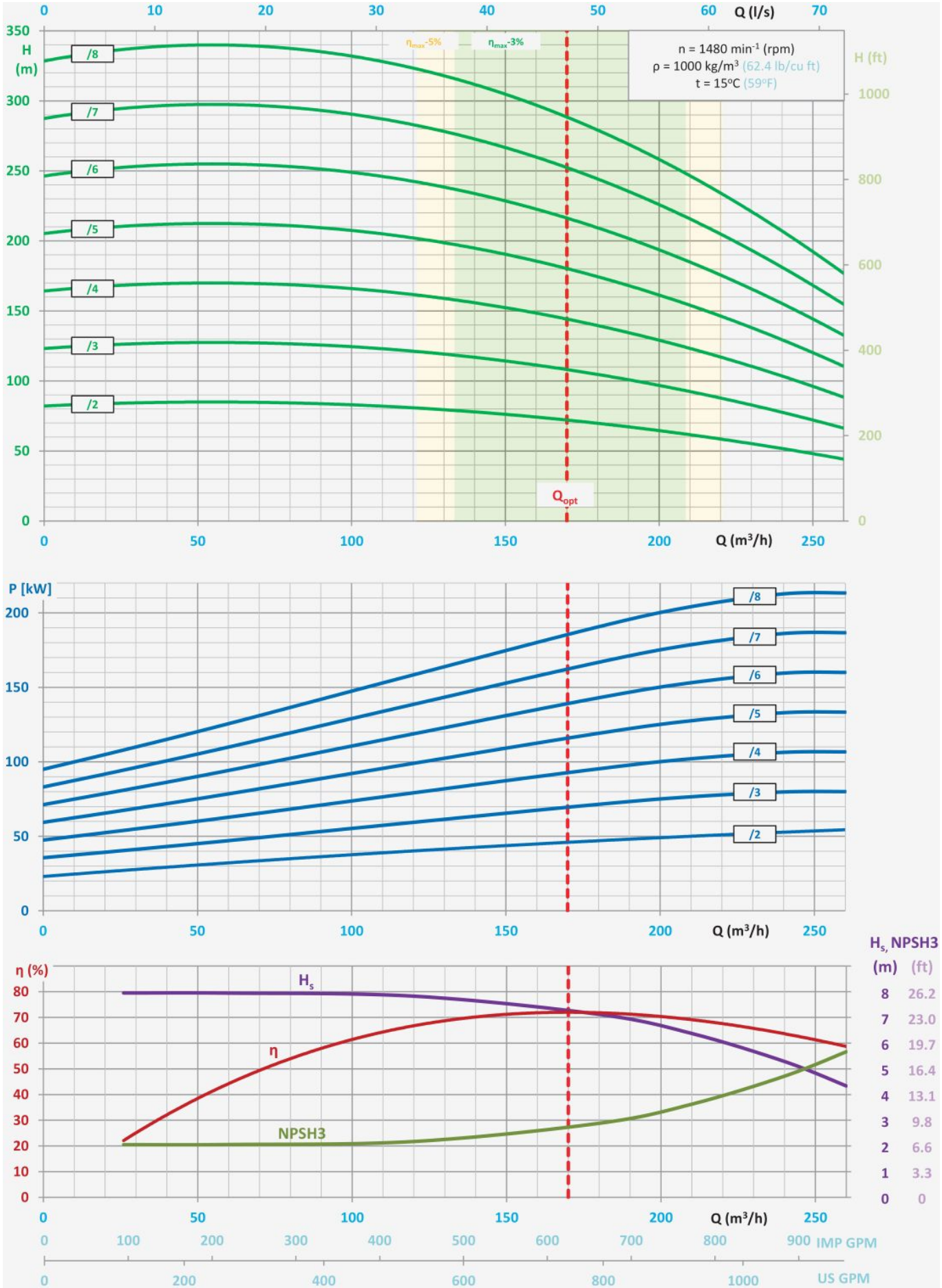
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining – longwall and auxiliary dewatering – WPS pumps intended to

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.

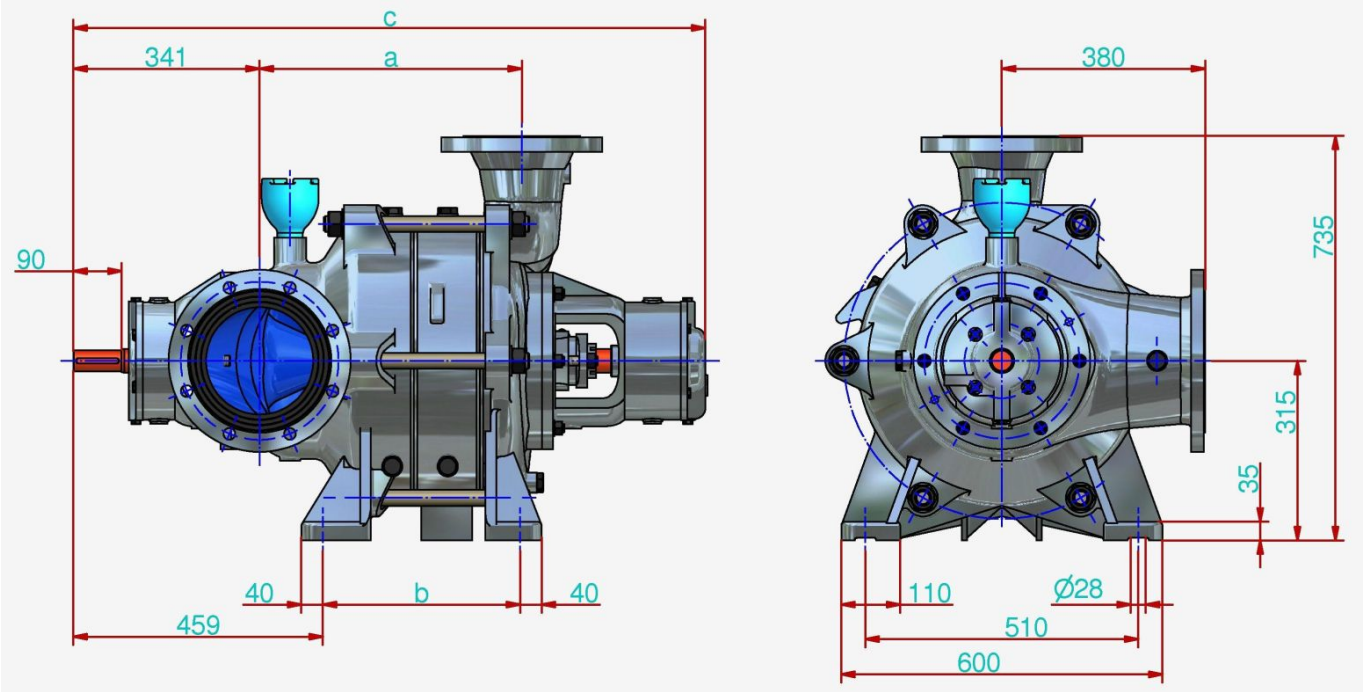
PUMP PERFORMANCE CURVE



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

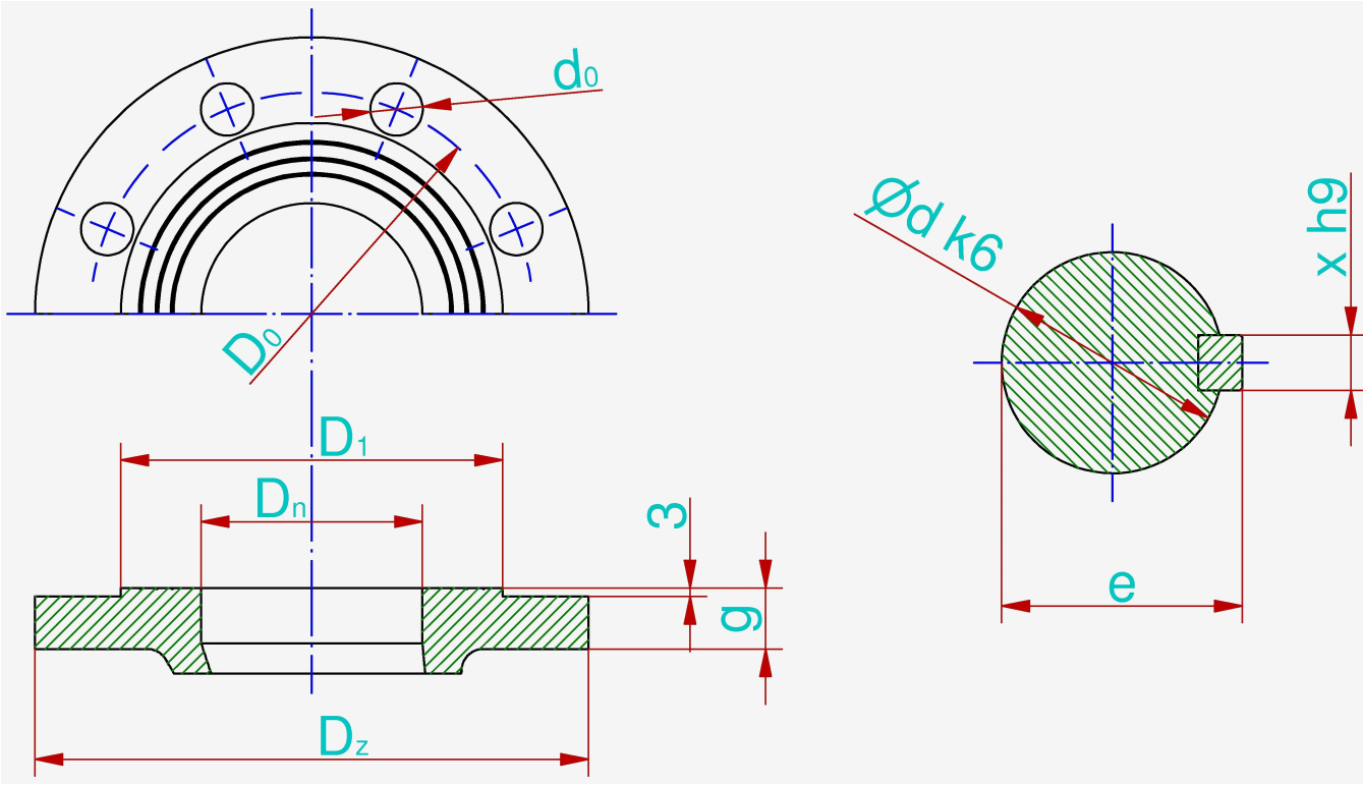
- P = f(Q) – power input acc. to rate flow,
- η = f(Q) – efficiency acc. to rate of flow,
- H_S = f(Q) – allowable suction head acc. to rate of flow,
- NPSH3 = f(Q) – net positive suction head and rate of flow.

MAIN DIMENSIONS OF PUMP



	Number of stages							
	2	3	4	5	6	7	8	
a	367	491	615	739	863	987	1111	mm
b	246	370	494	618	742	866	990	mm
c	1101	1125	1349	1473	1597	1721	1845	mm

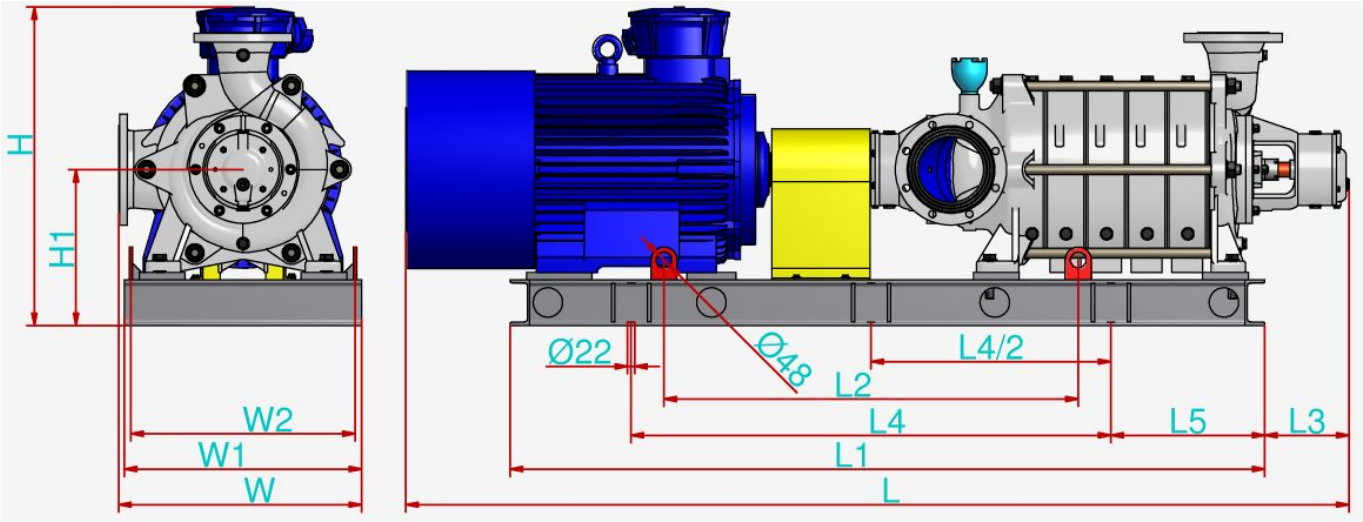
CONNECTION SIZES OF PUMP



	Dn	Number of stages	Pn	Df	d0	g	D0	D1	i	d	e	x
Suction connector	200	-	10	340	22	26	295	268	8	-	-	-
Discharge connector	150	2÷6	25	300	26	28	250	218	8	-	-	-
		5÷8	40	300	26	28	250	218	8	-	-	-
Shaft / coupling	-	-	-	-	-	-	-	-	-	40	43,5	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	2075	2250	2650	2775	2895	3020	3225	mm
L_1	1585	1790	2025	2150	2260	2385	2590	mm
L_2	875	990	1140	1205	1260	1320	1425	mm
L_3	286					296		mm
L_4	1075	1190	1335	1400	1455	1520	1620	mm
L_5	230	290	350	415	470	535	595	mm
W	740	740	745	745	745	745	745	mm
W_1	720	720	730	730	730	730	730	mm
W_2	665	665	675	675	675	675	675	mm
H	917	962	977	977	977	977	977	mm
H_1	477	477	477	477	477	477	477	mm
Weight	1125	1425	1700	1865	2030	2145	2420	kg
Coupling type (Rex Viva)	V190	V215	V245	V245	V290	V290	V290	-
Motor type (Celma)	dSg 250M4-EP	dSg 280S4-EP	dSg 315S4-EP	dSg 315M4A-EP	dSg 315M4B-EP	dSg 315M4B-EP	dSg 315L4-EP	-
Motor power	55	75	110	132	160	160	200	kW
Motor weight	485	660	810	850	890	890	1040	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.