

WPS-80



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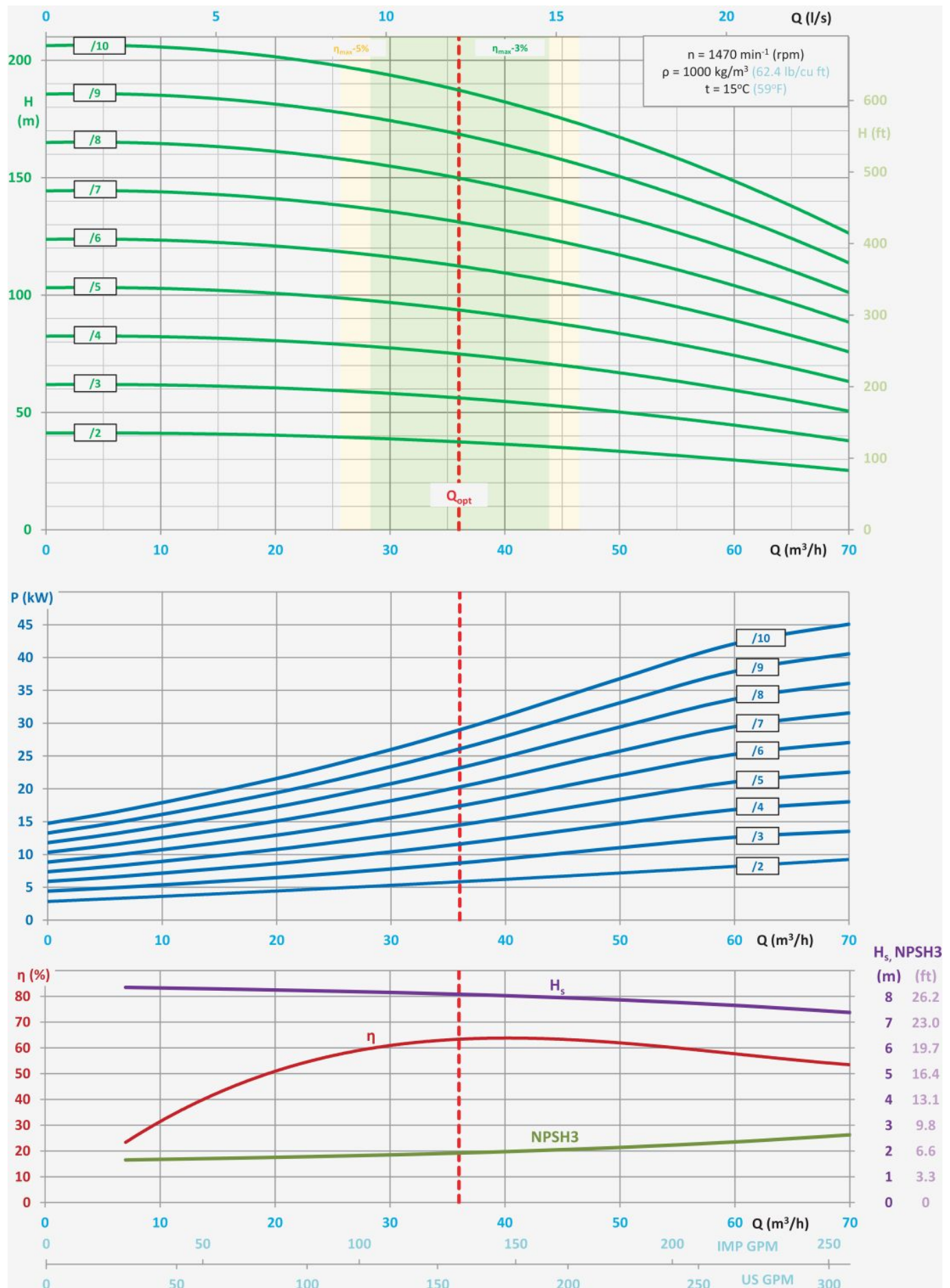
TYPICAL APPLICATIONS

- 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.
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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.
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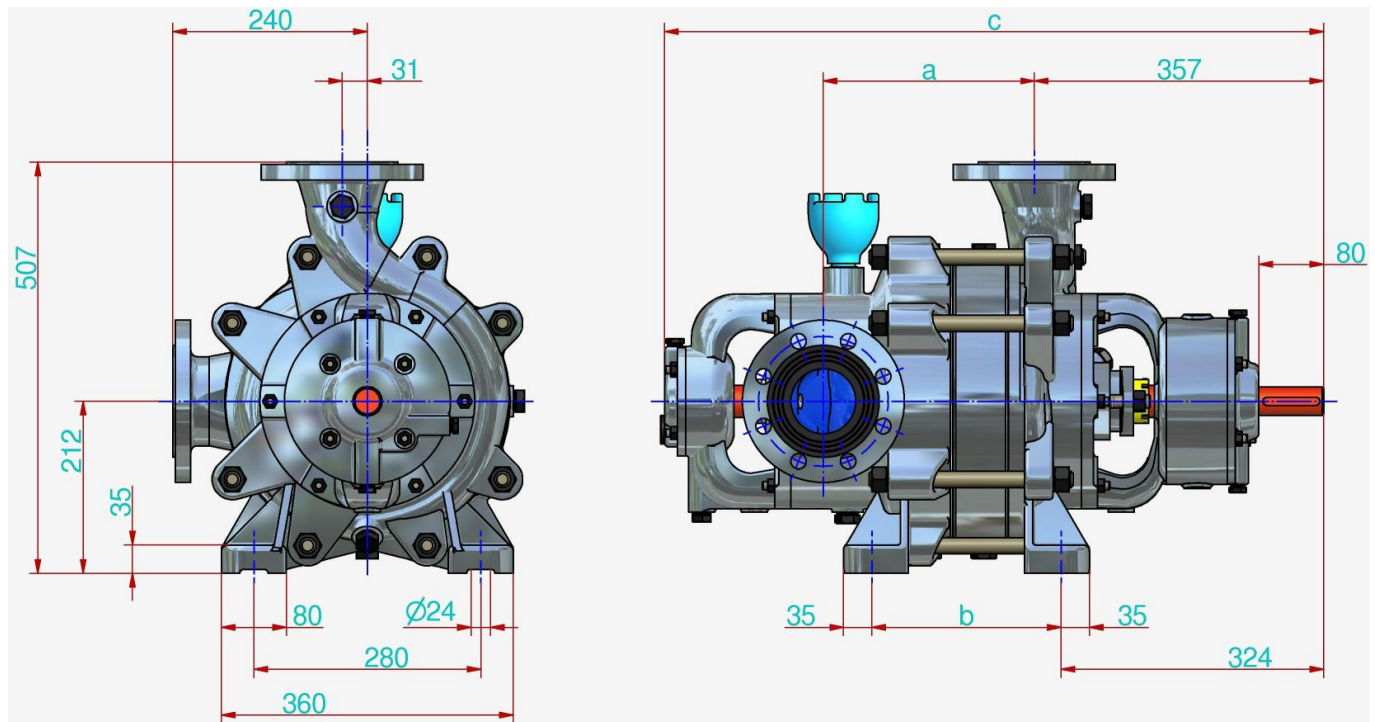
PUMP PERFORMANCE CURVE



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

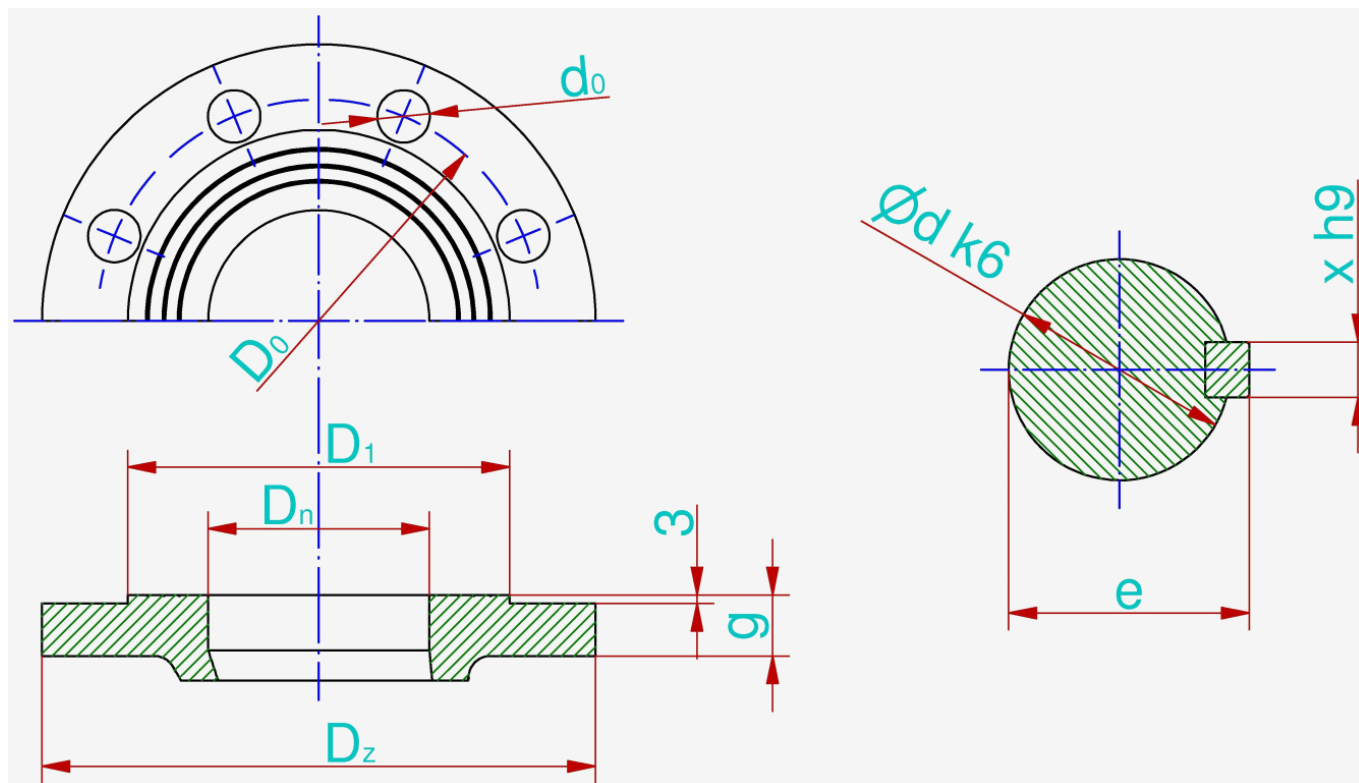
- $P = f(Q)$ - power input acc. to rate flow,
- $\eta = f(Q)$ - efficiency acc. to rate of flow,
- $H_s = f(Q)$ - allowable suction head acc. to rate of flow,
- $NPSH_3 = f(Q)$ - net positive suction head and rate of flow.

MAIN DIMENSIONS OF PUMP



Number of stages										
	2	3	4	5	6	7	8	9	10	
a	162	230	297	366	431	502	570	638	706	mm
b	165	233	301	369	437	505	573	641	709	mm
c	769	837	905	973	1041	1109	1177	1245	1313	mm

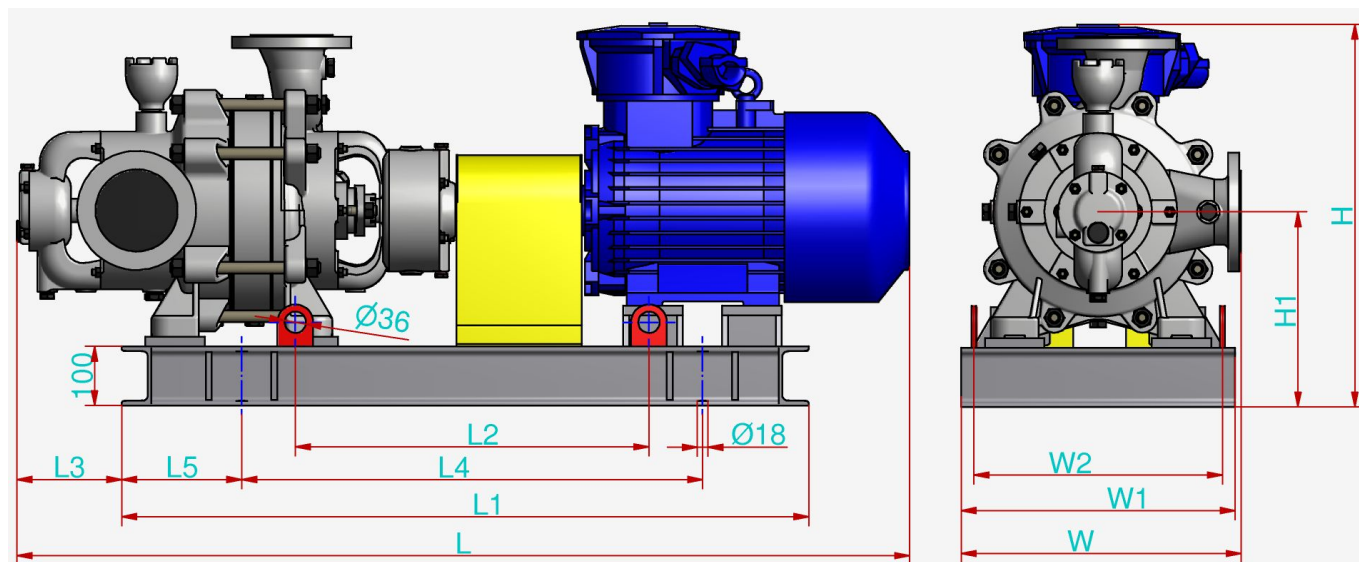
CONNECTION SIZES OF PUMP



	D_n	Number of stages	P_n	D_f	d_0	g	D_0	D_1	i	d	e	x
Suction connector	80	-	10	200	19	22	160	133	8	-	-	-
Discharge connector	80	2÷8	16	200	23	22	160	138	8	-	-	-
		8÷10	25	200	18	20	160	138	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	9	10	
L	1450	1515	1625	1750	1815	1974	2040	2160	2230	mm
L ₁	1085	1155	1265	1370	1440	1560	1630	1735	1805	mm
L ₂	565	600	655	710	745	805	840	915	945	mm
L ₃	195									mm
L ₄	740	775	830	885	920	980	1015	1090	1125	mm
L ₅	170	200	235	270	305	340	370	405	440	mm
W	470	470	470	470	470	490	490	527,5	527,5	mm
W ₁	460	460	460	460	460	500	500	545	545	mm
W ₂	415	415	415	415	415	455	455	500	500	mm
H	643	643	643	663	663	728	728	761	761	mm
H ₁	328	328	328	328	328	328	328	341	341	mm
Weight	405	445	500	570	630	760	800	885	925	kg
Coupling type (Rex Viva)	V125	V125	V125	V130	V130	V150	V150	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	dSg 225S4-EP	dDSg 225S4-EP	-
Motor power	11	11	15	18,5	22	30	30	37	37	kW
Motor weight	155	155	170	205	225	315	315	365	365	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.