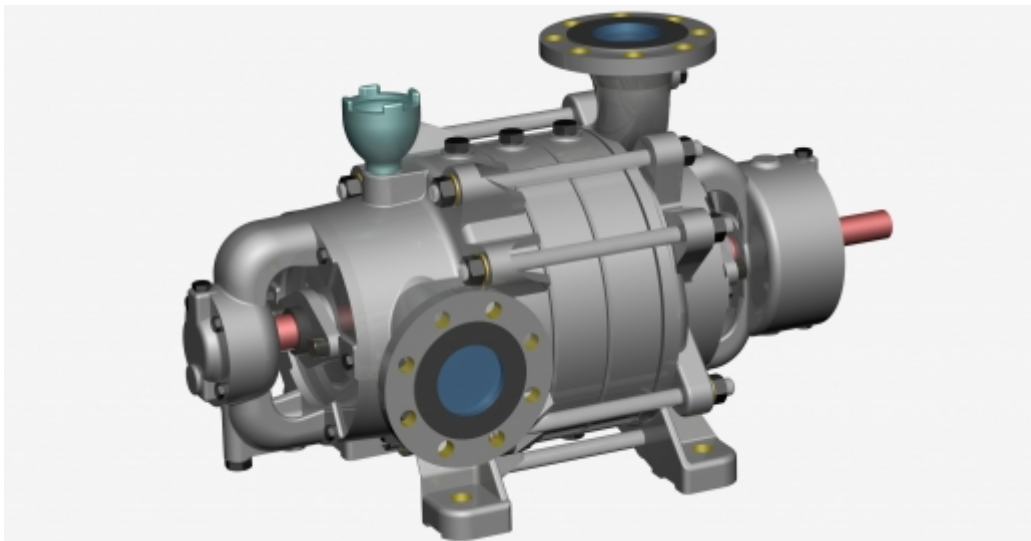


# PS-80Z



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**PUBLICATION - 2017-11-07**

## TYPICAL APPLICATIONS

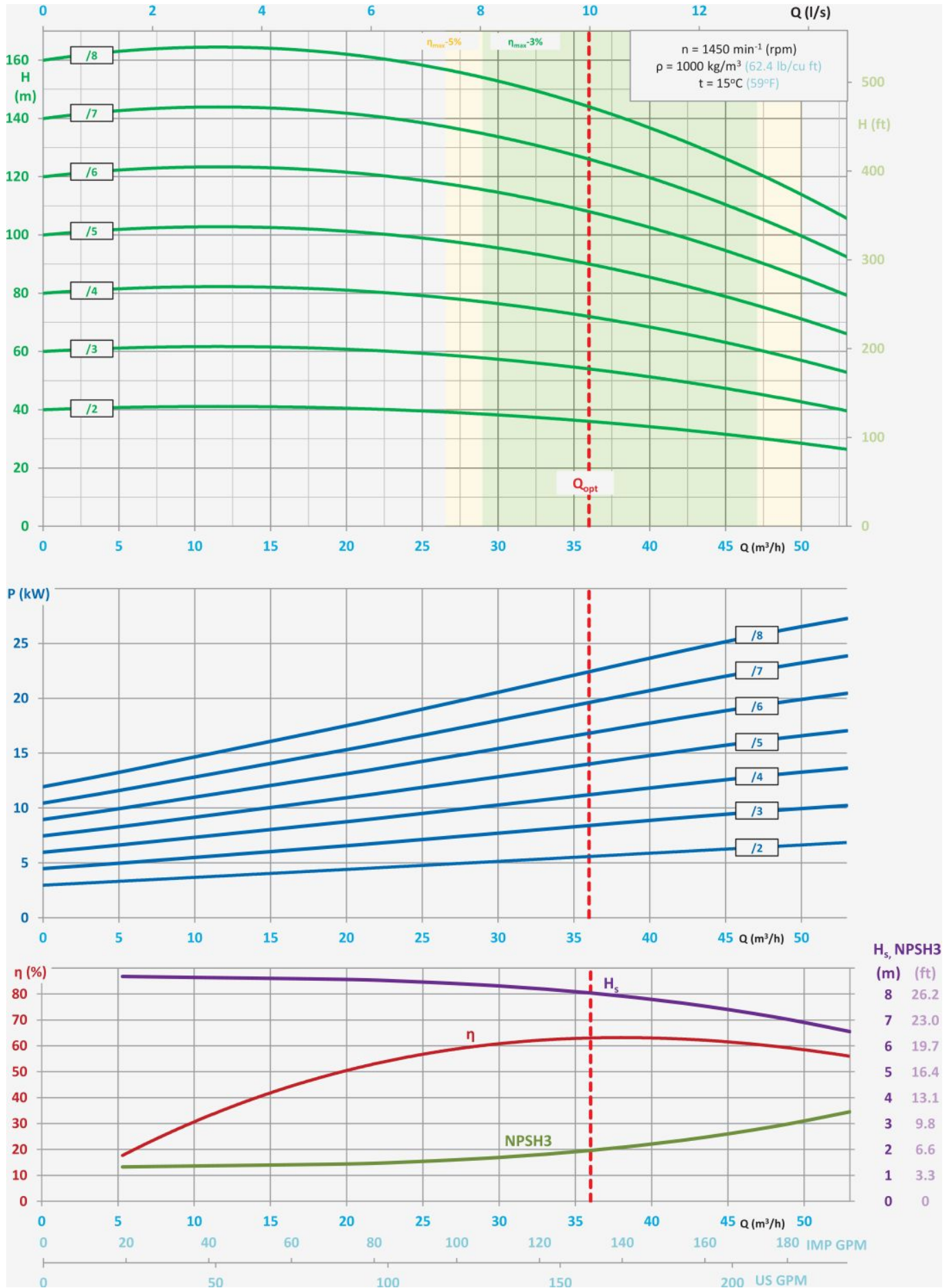
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining - longwall and auxiliary dewatering,

- 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.
- 

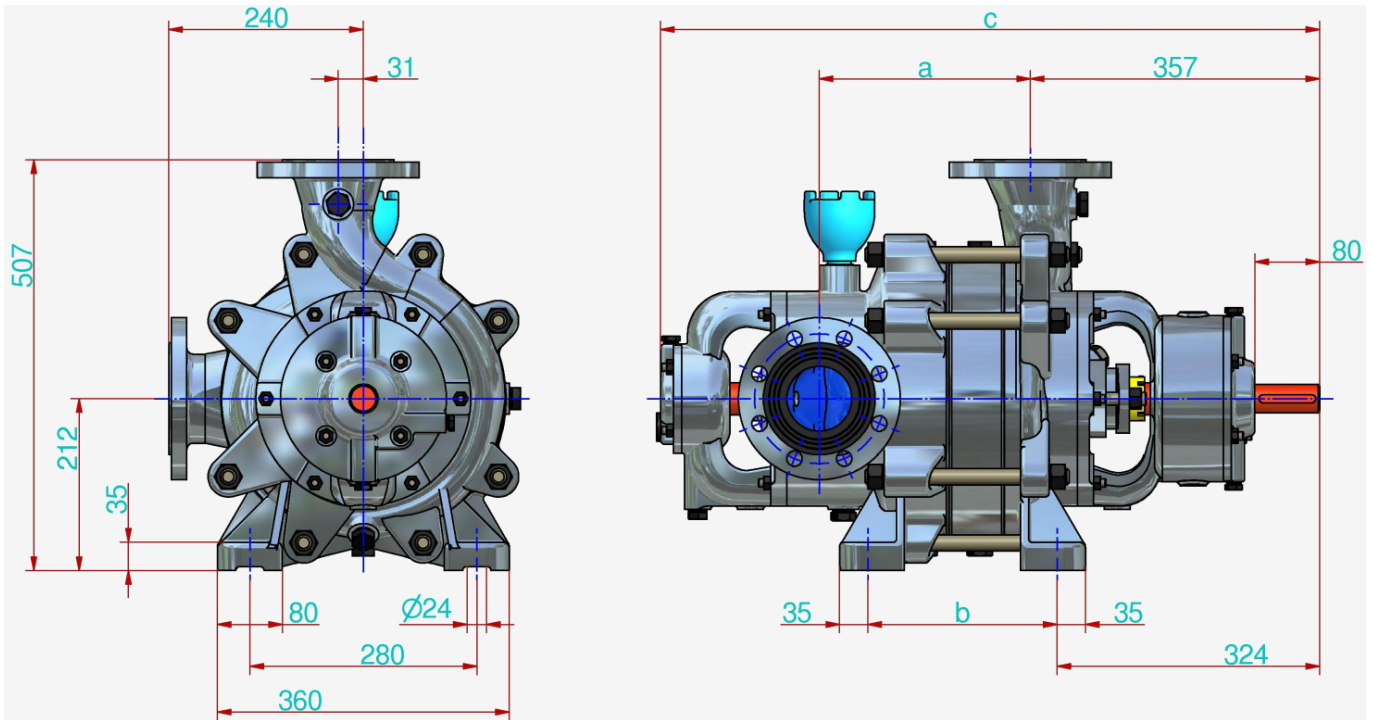
## **PUMP PERFORMANCE CURVE**



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

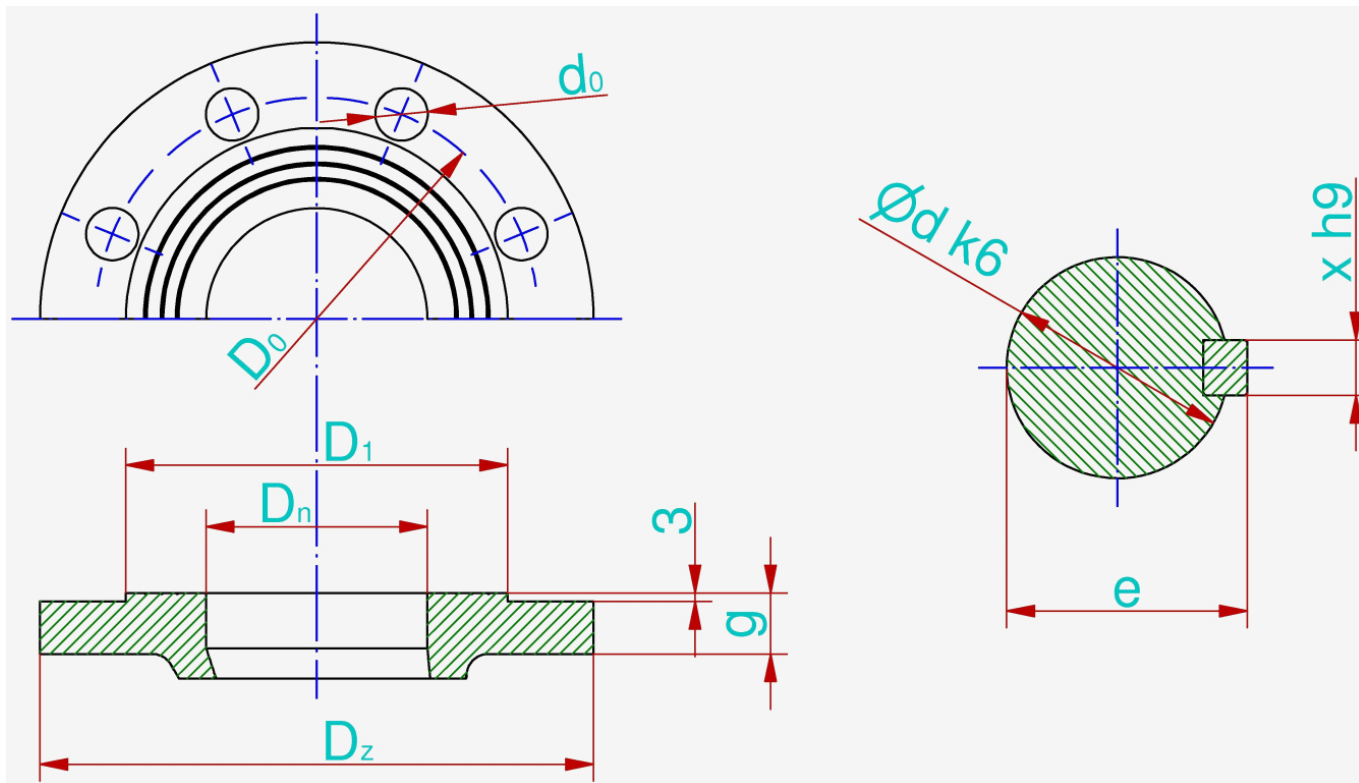
- $P = f(Q)$  - power input acc. to rate flow,
- $\eta = f(Q)$  - efficiency acc. to rate of flow,
- $H_s = f(Q)$  - allowable suction head acc. to rate of flow,
- $NPSH3 = f(Q)$  - net positive suction head and rate of flow.

## MAIN DIMENSIONS OF PUMP



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

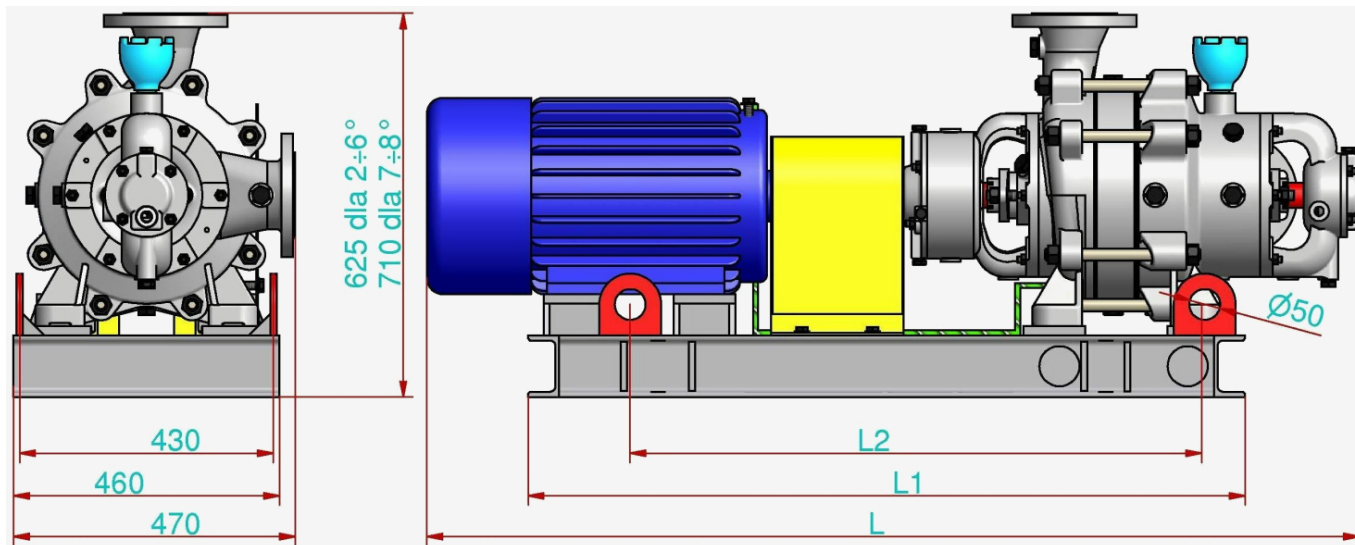
## CONNECTION SIZES OF PUMP



	$P_n$	$D_n$	$i$	$D_z$	$d_0$	$g$	$D_0$	$D_1$	$d$	$e$	$x$
<b>Suction connector</b>	10	80	8	200	19	22	160	133	-	-	-
<b>Discharge connector</b>	25	80	8	200	23	22	160	138	-	-	-
<b>Shaft / coupling</b>	-	-	-	-	-	-	-	-	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		
<b>L</b>	1460	1530	1630	1760	1830	1940	2010	mm	
<b>L<sub>1</sub></b>	1070	1180	1250	1370	1440	1570	1640	mm	
<b>L<sub>2</sub></b>	890	1000	1070	1190	1260	1390	1460	mm	
<b>Weight</b>	418	453	506	586	645	775	812	kg	
<b>Coupling type (Rex Viva)</b>	V125	V125	V125	V130	V130	V150	V150	-	
<b>Motor type (Celma)</b>	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.**