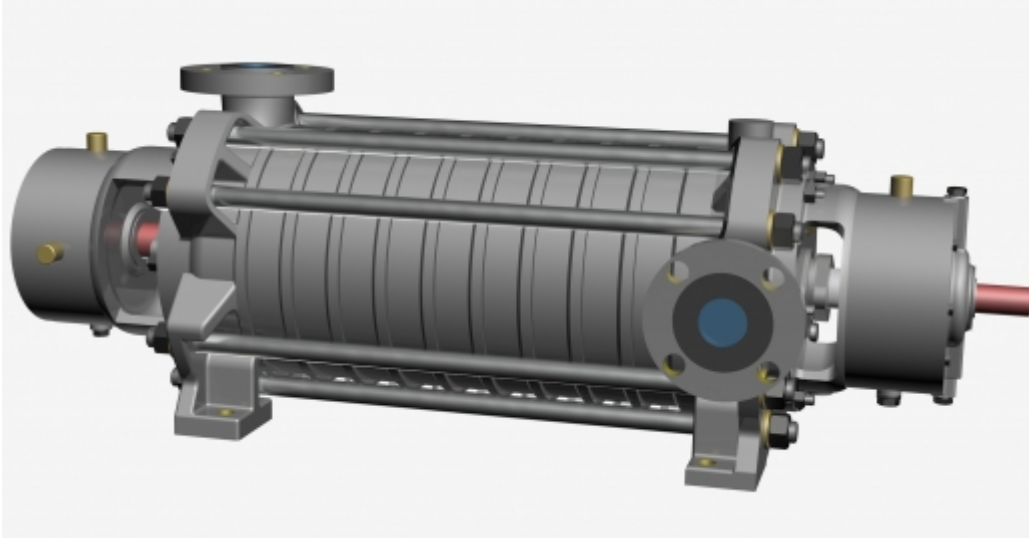


# WPZ-50



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**PUBLICATION - 2017-11-07**

## TYPICAL APPLICATIONS

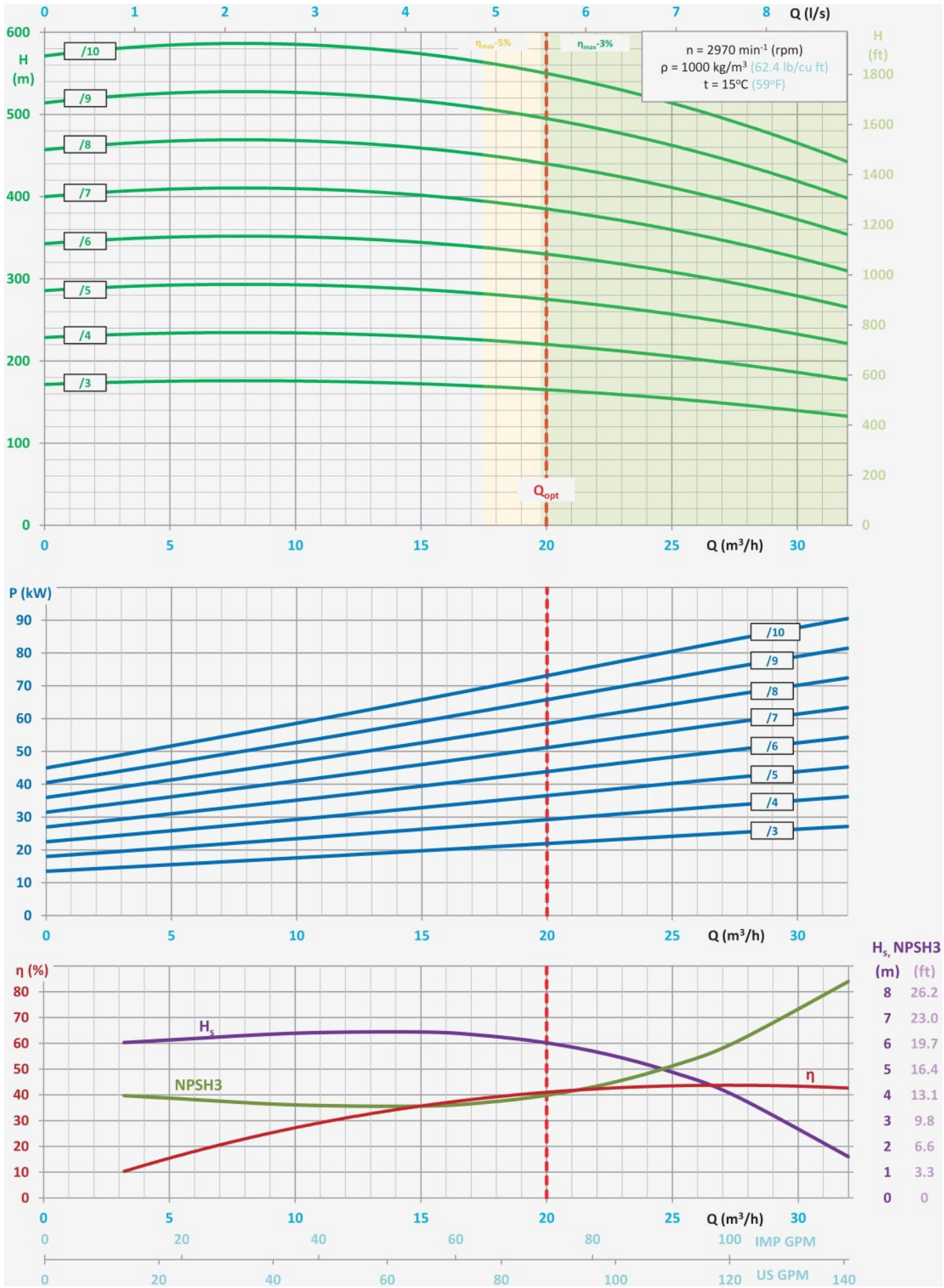
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- mining - spraying systems of the mining head,

- 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,
  - silent and smooth operation,
  - connection dimensions in compliance with medium pressure drainage pumps,
  - inflow and suction operation,
  - compact and modern design,
  - approved for operation in explosion-hazard zones - ATEX Ex I M2.
- 

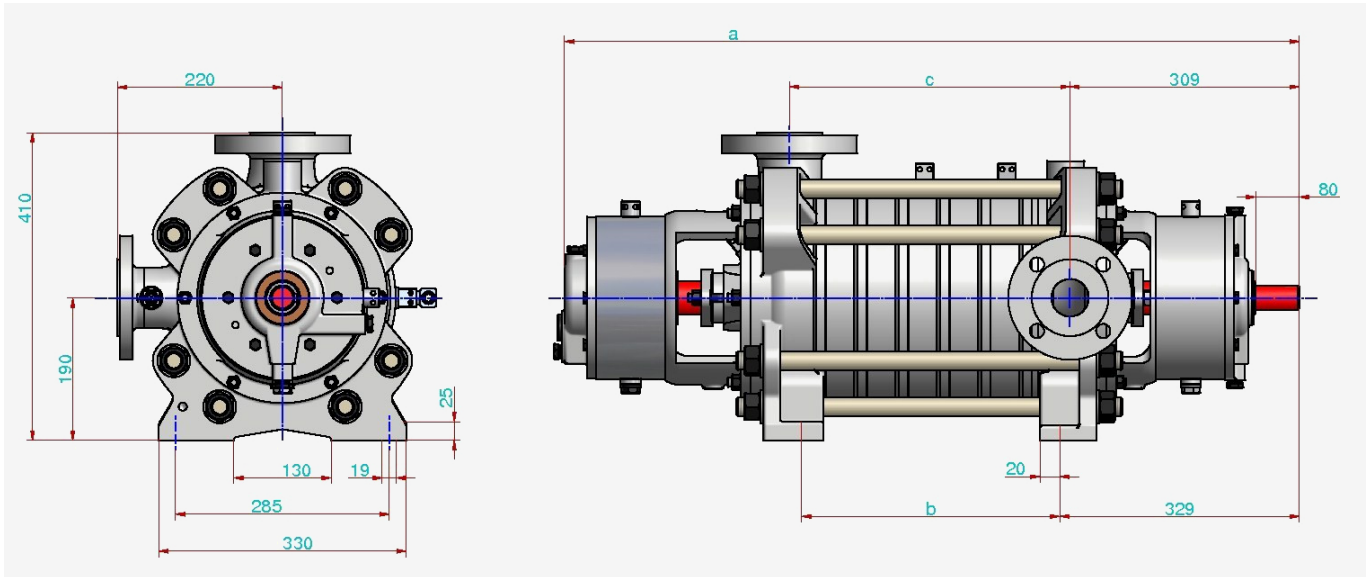
## **PUMP PERFORMANCE CURVE**



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

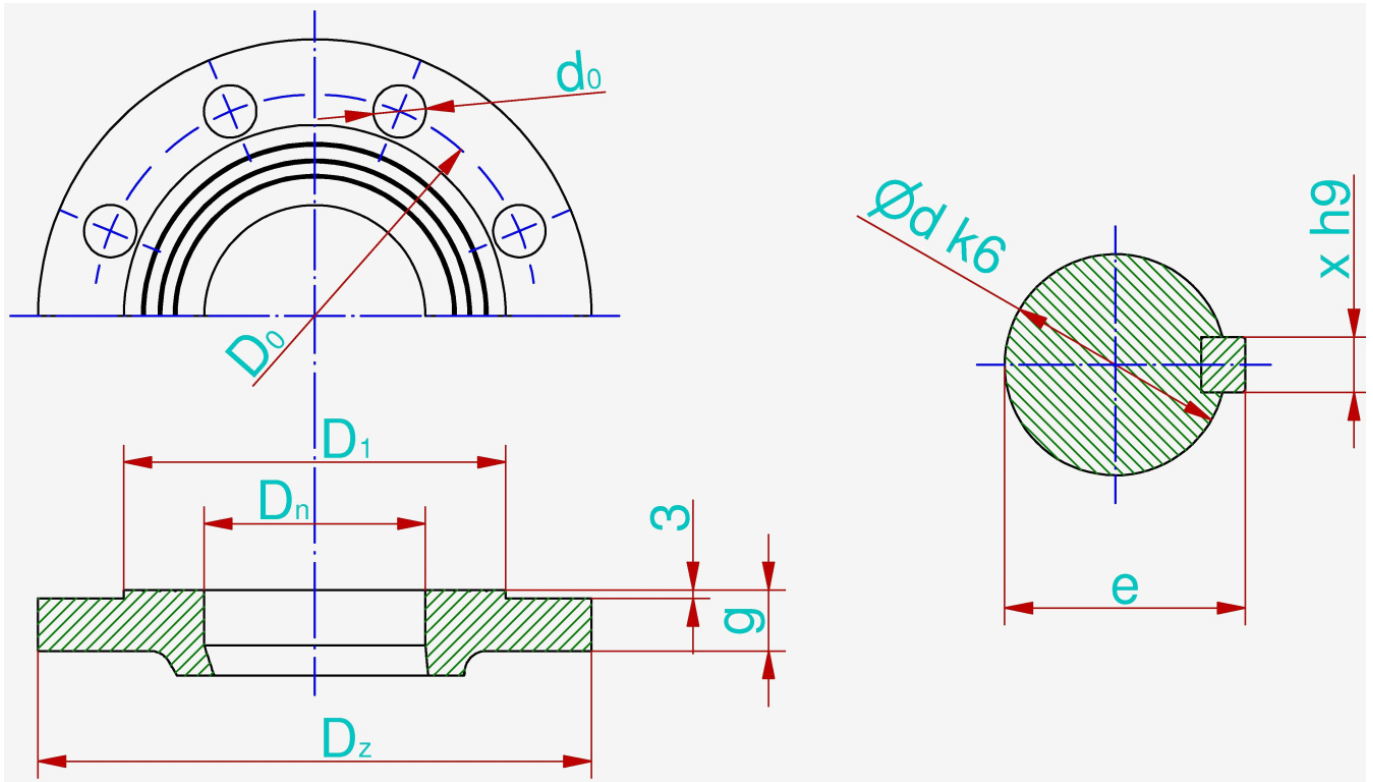
- $P = f(Q)$  - power input acc. to rate flow,
- $\eta = f(Q)$  - efficiency acc. to rate of flow,
- $H_s = f(Q)$  - allowable suction head acc. to rate of flow,
- $NPSH_3 = f(Q)$  - net positive suction head and rate of flow.

## MAIN DIMENSIONS OF PUMP



	Number of stages								
	3	4	5	6	7	8	9	10	
<b>a</b>	813	868	923	978	1033	1088	1143	1198	mm
<b>b</b>	169	224	279	334	389	444	499	554	mm
<b>c</b>	209	264	319	374	429	484	539	594	mm

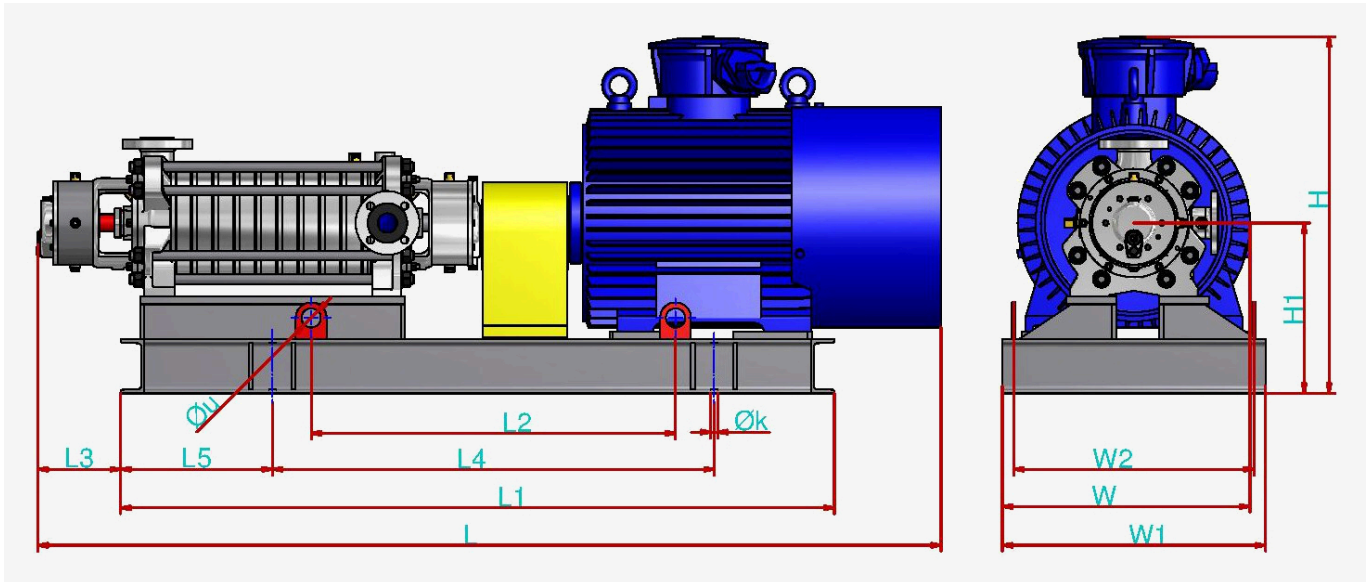
## CONNECTION SIZES OF PUMP



	$D_n$	$P_n$	$D_z$	$d_0$	$g$	$D_0$	$D_1$	$i$	$d$	$e$	$x$
Suction connector	50	16	165	19	20	125	102	4	-	-	-
Discharge connector	50	63	180	23	28	135	87	4	-	-	-
Shaft / coupling	-	-	-	-	-	-	-	-	32	35	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									
	3	4	5	6	7	8	9	10		
<b>L</b>	1680	1735	1810	1955	2010	2215	2270	2325	mm	
<b>L<sub>1</sub></b>	1305	1360	1430	1585	1640	1780	1835	1890	mm	
<b>L<sub>2</sub></b>	635	665	705	805	835	915	945	970	mm	
<b>L<sub>3</sub></b>	180								mm	
<b>L<sub>4</sub></b>	815	840	885	980	1010	1090	1120	1145	mm	
<b>L<sub>5</sub></b>	220	250	275	300	330	360	385	415	mm	
<b>W</b>	515	515	560	605	305	670	670	670	mm	
<b>W<sub>1</sub></b>	560	560	605	655	655	720	720	720	mm	
<b>W<sub>2</sub></b>	485	485	530	580	580	645	645	645	mm	
<b>H</b>	720	720	765	810	810	885	885	885	mm	
<b>H<sub>1</sub></b>	320	320	345	370	370	400	400	400	mm	
<b>Weight</b>	590	610	720	810	830	1020	1040	1100	kg	
<b>Coupling type (Rex Viva)</b>	V-130	V-130	V-130	V-150	V-150	V-150	V-150	V-170	-	
<b>Motor type (Celma)</b>	dSg200L2A-EP	dSg200L2A-EP	dSg225M2-EP	dSg250M2-EP	dSg250M2-EP	dSg280S2-EP	dSg280S2-EP	dSg280M2-EP	-	
<b>Motor power</b>	30	37	45	55	55	75	75	90	kW	
<b>Motor weight</b>	300	300	390	450	450	610	610	650	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.**