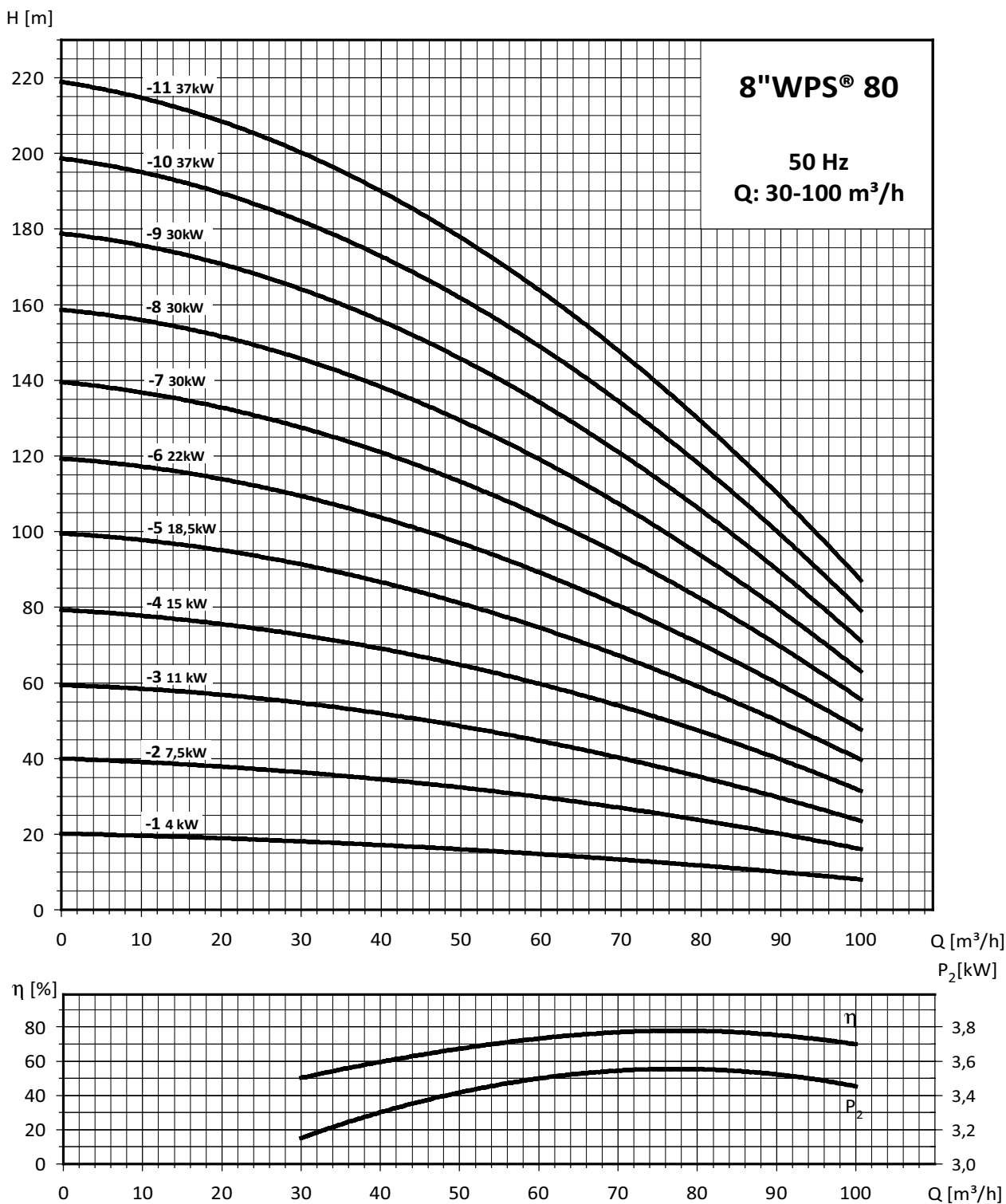




Performance Curves

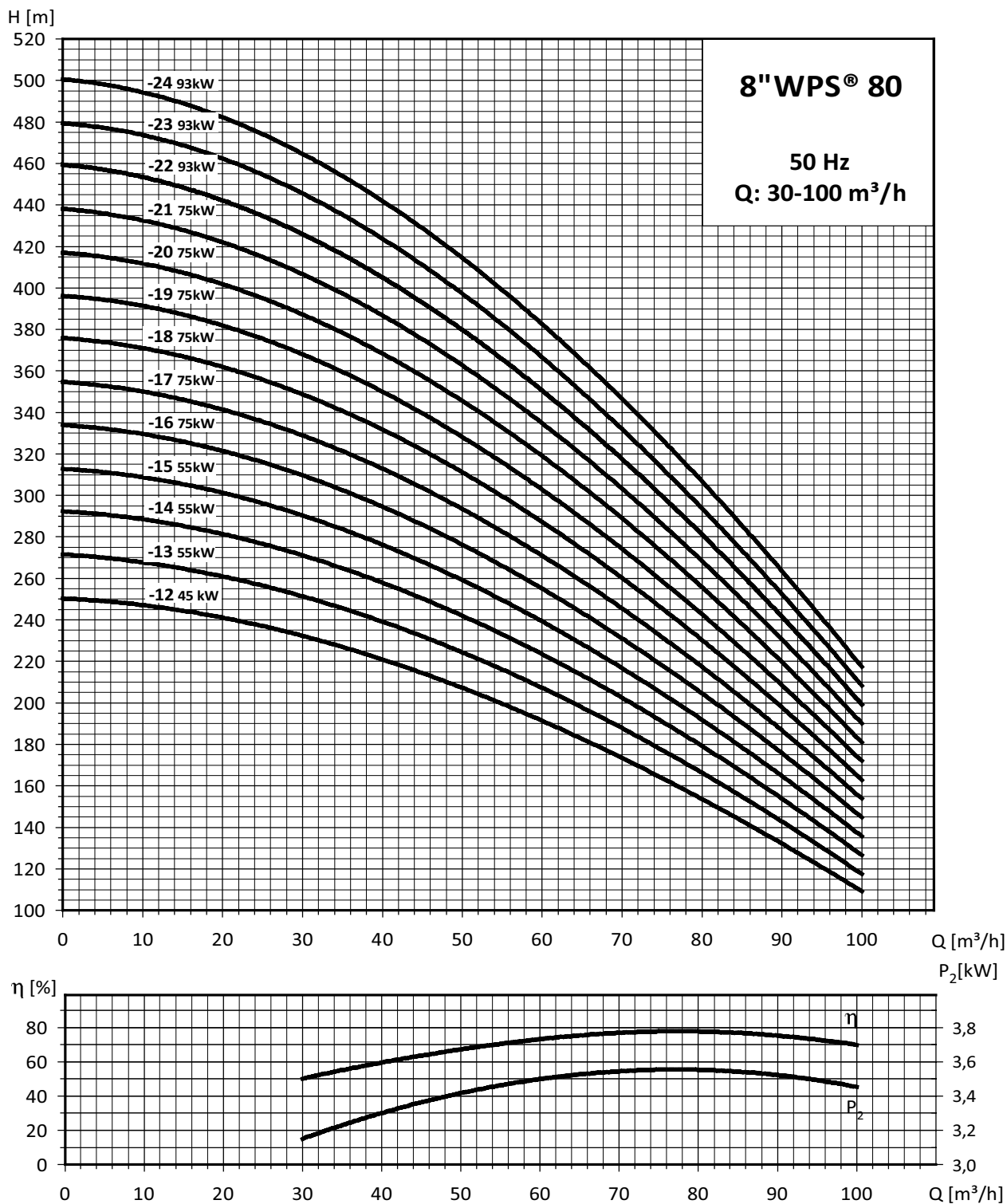
Performance Curves 8" WPS® 80





Performance Curves

Performance Curves 8"WPS® 80



8"WPS®



Technical Data

Selection Chart 8"WPS® 80

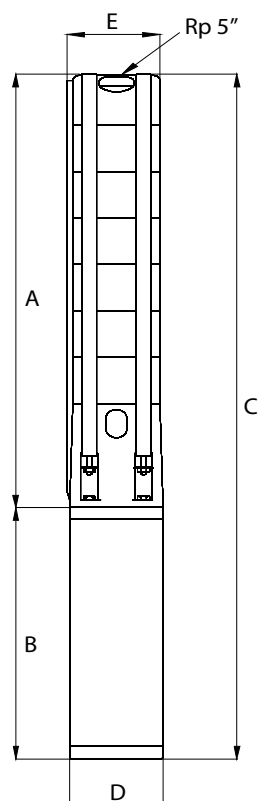
Pump Type	pump power P2			Flow [m³/h]					Max. Head [m] at 0 m³/h	Full load current	
	[kW]	[HP]	size	20	40	60	80	100		3x230V	3x400V
8"WPS®80-1	4	5,5	6"	20	18	16	13	9	21	16,1	9,3
8"WPS®80-2	7,5	10	6"	40	37	32	26	18	42	27,5	16
8"WPS®80-3	11	15	6"	61	55	47	39	28	62	40,4	23,3
8"WPS®80-4	15	20	6"	81	73	63	52	37	83	54,2	31,3
8"WPS®80-5	18,5	25	6"	101	92	79	65	46	104	66,7	38,5
8"WPS®80-6	22	30	6"	121	110	95	78	55	125	78,5	45,8
8"WPS®80-7	30	40	6"	141	128	111	90	64	146	94,7	56,2
8"WPS®80-8	30	40	6"	162	146	127	103	73	167	97,5	57,1
8"WPS®80-9	30	40	6"	182	165	142	116	83	187	103	59,9
8"WPS®80-10	37	50	6"	202	183	158	129	92	208	117	67,2
8"WPS®80-11	37	50	6"	222	201	174	142	101	229	127	73
8"WPS®80-12	45	60	8"	242	220	190	155	110	250		89
8"WPS®80-13	55	75	8"	263	238	206	168	119	271		100
8"WPS®80-14	55	75	8"	283	256	222	181	128	292		104
8"WPS®80-15	55	75	8"	303	275	237	194	138	312		108
8"WPS®80-16	75	100	8"	323	293	253	207	147	333		113
8"WPS®80-17	75	100	8"	343	311	269	220	156	354		119
8"WPS®80-18	75	100	8"	364	329	285	233	165	375		124
8"WPS®80-19	75	100	8"	384	348	301	245	174	396		133
8"WPS®80-20	75	100	8"	404	366	317	258	183	417		139
8"WPS®80-21	75	100	8"	424	384	332	271	193	437		145
8"WPS®80-22	93	125	8"	444	403	348	284	202	458		165
8"WPS®80-23	93	125	8"	465	421	364	297	211	479		178
8"WPS®80-24	93	125	8"	485	439	380	310	220	500		190

8"WPS®



Technical Data

Dimensions and Weight 8"WPS® 80



Pump Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Weight [kg]	
						Pump End	Electropump
8"WPS®80-1	644	581	1225	136	192	31,0	68,5
8"WPS®80-2	644	646	1290	136	192	31,5	76,7
8"WPS®80-3	770	711	1481	136	192	36,5	87,4
8"WPS®80-4	896	776	1672	136	192	41,5	98,2
8"WPS®80-5	1022	841	1863	136	192	46,0	109,3
8"WPS®80-6	1148	906	2054	136	192	51,0	120,3
8"WPS®80-7	1274	1036	2310	136	192	56,0	139,9
8"WPS®80-8	1400	1557	2957	136	192	61,0	144,9
8"WPS®80-9	1531	1036	2567	136	192	67,0	150,7
8"WPS®80-10	1657	1404	3051	136	192	72,0	207,0
8"WPS®80-11	1783	1404	3187	136	192	77,0	212,0
8"WPS®80-12	1909	1077	2986	187	197	82,0	254,0
8"WPS®80-13	2035	1394	3429	187	197	87,0	289,0
8"WPS®80-14	2161	1364	3525	187	197	92,0	294,0
8"WPS®80-15	2287	1364	3651	187	197	99,0	301,0
8"WPS®80-16	2413	1496	3909	187	197	101,5	341,5
8"WPS®80-17	2539	1496	4035	187	197	106,5	346,5
8"WPS®80-18	2665	1496	4161	187	197	111,5	351,5
8"WPS®80-19	2791	1496	4287	187	197	116,5	356,5
8"WPS®80-20	2917	1496	3051	187	197	121,0	361,0
8"WPS®80-21	3043	1496	4539	187	197	126,0	366,0
8"WPS®80-22	3169	1748	4917	187	197	131,0	494,0
8"WPS®80-23	3259	1748	5043	187	197	136,0	454,0
8"WPS®80-24	3421	1748	5169	187	197	141,0	459,0

8"WPS®



General Data

Pumped liquids

8"WPS® submersible pumps are designed for pumping thin, clean, non-aggressive and non-explosive liquids, not containing solid particles.

8"WPS® pumps are suitable for pumping liquids with a content of sand up to 50 g/m³. A higher content of sand will shorten pump life.

The maximum fluid temperature is 30°C. For higher temperatures, please contact Well Pumps.

Construction features

- Coupling and motor flange of pump-end are suitable for connection to motors in accordance with NEMA standard.
- Jam free spring loaded check valve, built in the discharge chamber, is designed for low loss of head.
- Generously dimensionned intermediate bearing located at each stage of the pump in order to perfectly align the shaft and optimize the lubrication.
- Alignment is achieved by using an external sleeve connected to the suction interconnector and discharge.
- Hydraulic profiles are optimized for the attainment of high efficiencies.
- Resistance to corrosion and abrasion, i.e. the same inherent qualities of stainless steel (AISI 304 - 1.4301).
- Great ease of dismantling and assembly.

Curve Conditions

- Curve tolerances according to ISO 9906, Annex A.
- The performance curves show pump performance at actual speed of the standard motor range.
- The measurements were made with airless water at a temperature of 20°C and a kinematic viscosity of 1 mm²/s (1 cSt). For pumping liquids with a higher density than clear water, motors must be used with correspondingly higher outputs.
- Q/H: The curves are inclusive of valve and inlet losses at the actual speed.
- Power curve: P₂ shows pump input power at the actual speed for each individual pump size.
- Efficiency curve: η shows pump stage efficiency.

Service

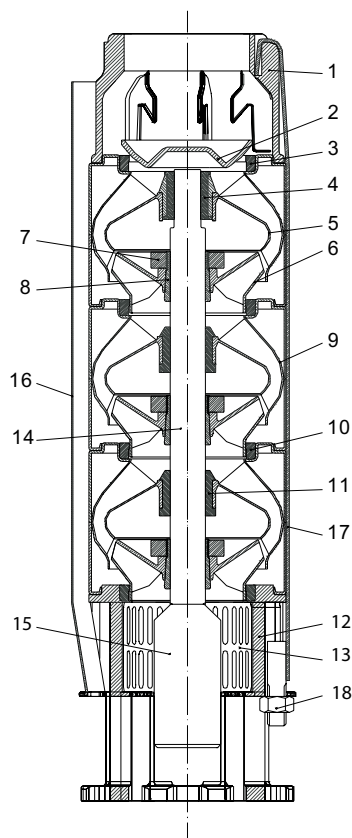
The pump and motor are very easy to maintain and repair. The modular pump and motor design facilitates installation and service. The cable and the plug are fitted to the pump with screws which enables replacement.

8"WPS®



Technical Data

Material Specification



8"WPS® 80
8"WPS® 100

Pos.	Component	Material	Material Code
1	Discharge Chamber	Stainless Steel	AISI 316 - 1.4401
2	Spring loaded Valve Cone	Stainless Steel	AISI 304 - 1.4301
3	Valve Seat	Stainless Steel/Rubber	AISI 316 - 1.4401 / NBR
4	Top Bearing	Rubber	NBR
5	Top Diffusor	Stainless Steel	AISI 304 - 1.4301
6	Impeller	Stainless Steel	AISI 304 - 1.4301
7	Nut for Conical Bush	Stainless Steel	AISI 304 - 1.4301
8	Conical Bush	Stainless Steel	AISI 304 - 1.4301
9	Diffusor	Stainless Steel	AISI 304 - 1.4301
10	Neck Ring	Teflon	PTFE
11	Indermediate Bearing	Rubber	NBR
12	Suction Interconnector	Stainless Steel	AISI 316 - 1.4401
13	Strainer	Stainless Steel	AISI 316 - 1.4401
14	Shaft	Stainless Steel	AISI 329 - 1.4406
15	Coupling	Stainless Steel	AISI 316 - 1.4401
16	Cable Guard	Stainless Steel	AISI 316 - 1.4401
17	Outer Casing	Stainless Steel	AISI 304 - 1.4301
18	Screws and Washers	Stainless Steel	AISI 316 - 1.4401

8"WPS®