



KWP Water Pump

Overview

The KWP type non clogging centrifugal pump is a horizontal, single-stage, axial suction centrifugal pump. It can be used in urban water supply, sewage treatment engineering, chemical processes, steel and papermaking, sugar making, and canned food industries. The main characteristics are high efficiency and no blockage. Adopting a rear dismantling structure, the rotor components can be disassembled without dismantling the inlet and outlet pipelines and pump body, simplifying maintenance. The impeller and Cover Plate Liner Insert can be quickly replaced to enable the pump to quickly adjust to different working conditions.

The KWP pump can transport clean water, various types of sewage, seawater, brine, wastewater, and sewage slurry. Therefore, it is suitable for flood control plants, sewage treatment plants, breweries, mines, as well as chemical and construction industries.

The specification range of KWP pumps based on outlet size is from 40mm to 500mm.

KWP pumps are generally suitable for conveying neutral media, with a pH value of around 6–8. For transporting corrosive media with special requirements, corrosion-resistant or wear-resistant materials can be selected.

Sealing Form

Packing seal

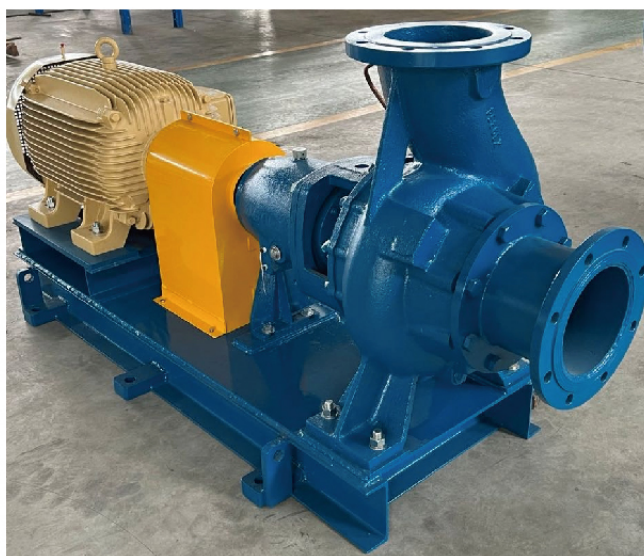
There are two types of structures: standard and high-temperature. When the temperature of the conveying medium exceeds 90 °C, a high-temperature type should be used. This type of packing box is equipped with a cooling box, which is filled with cooling water to facilitate high-temperature conveying conditions.

Mechanical seal

In situations where the conveying medium cannot leak, mechanical seal can also be used. Mechanical seals have single and double end faces, which can be selected according to different occasions.

Drive Mode

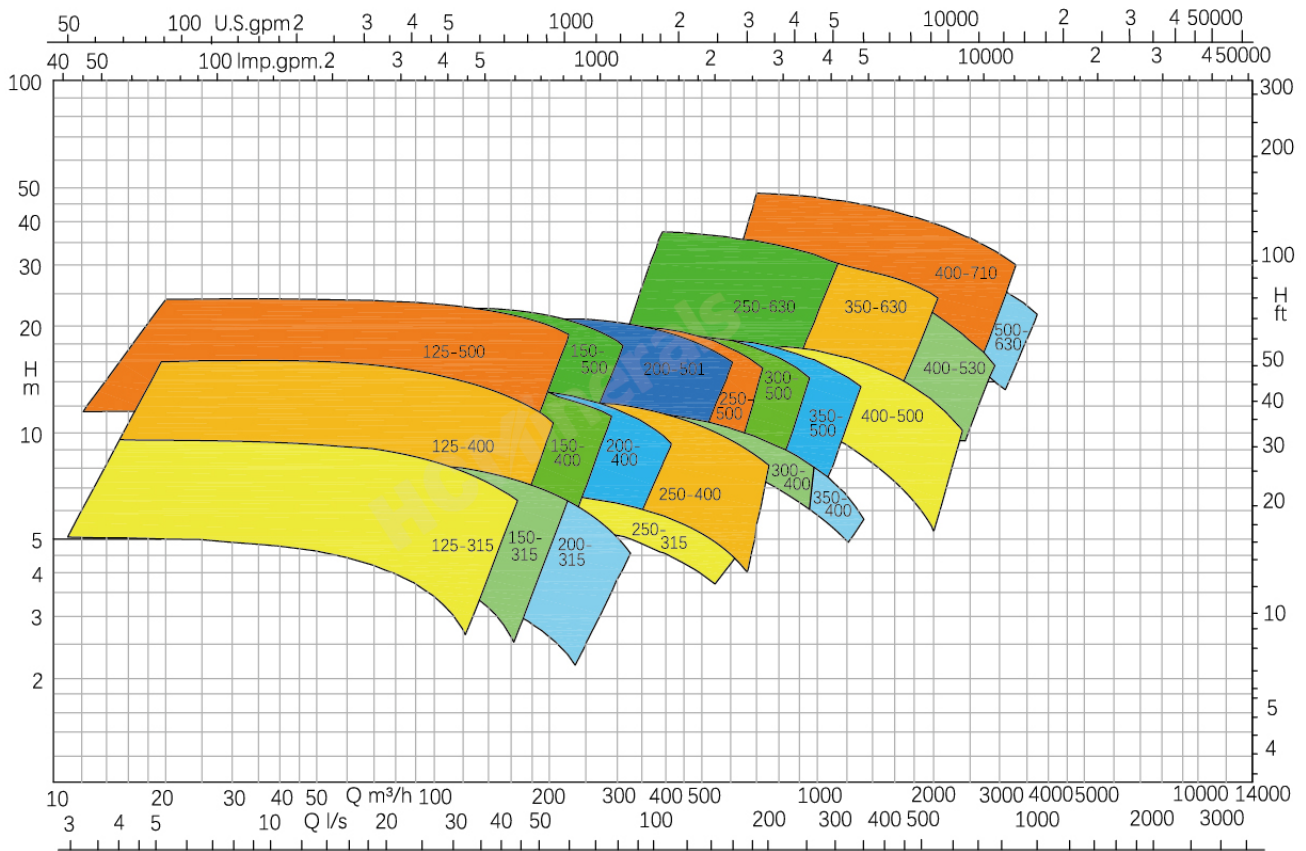
Direct drive is generally used. Indirect driving methods such as belt drive can also be used, with a transmission ratio range of 1:1 to 1:2.



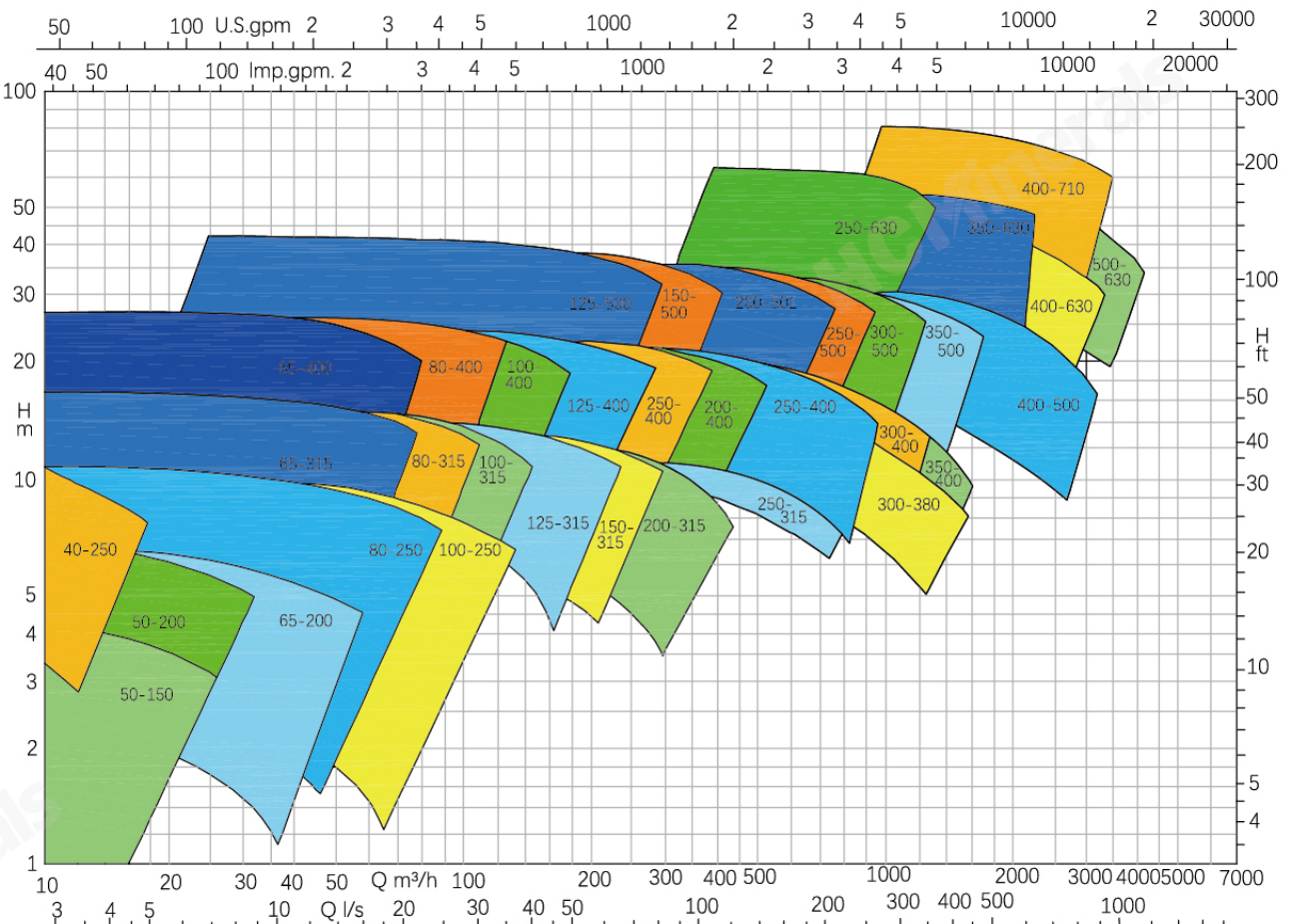
Selecion Charts

KWPK
n=725r/min

50Hz



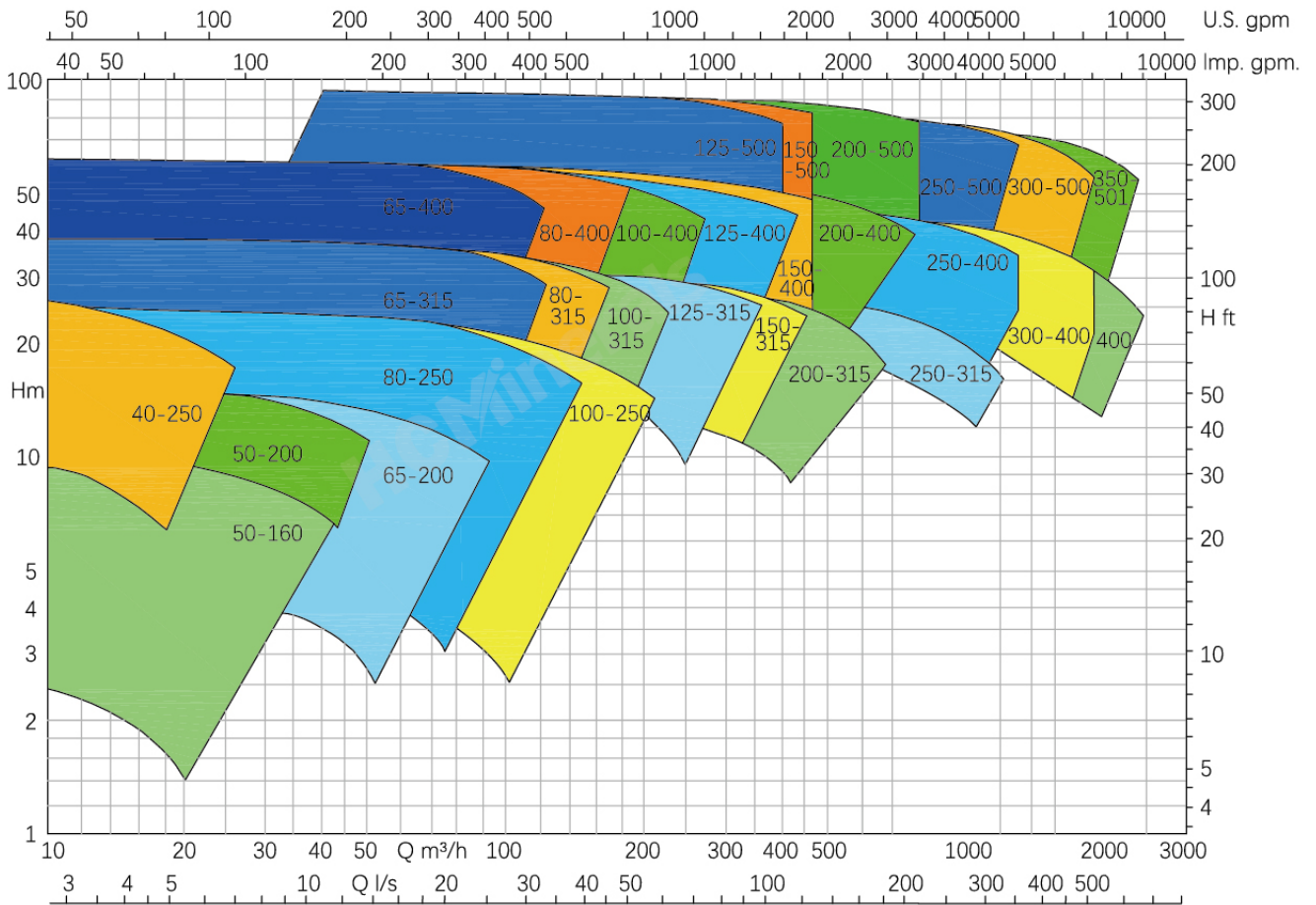
n=960r/min



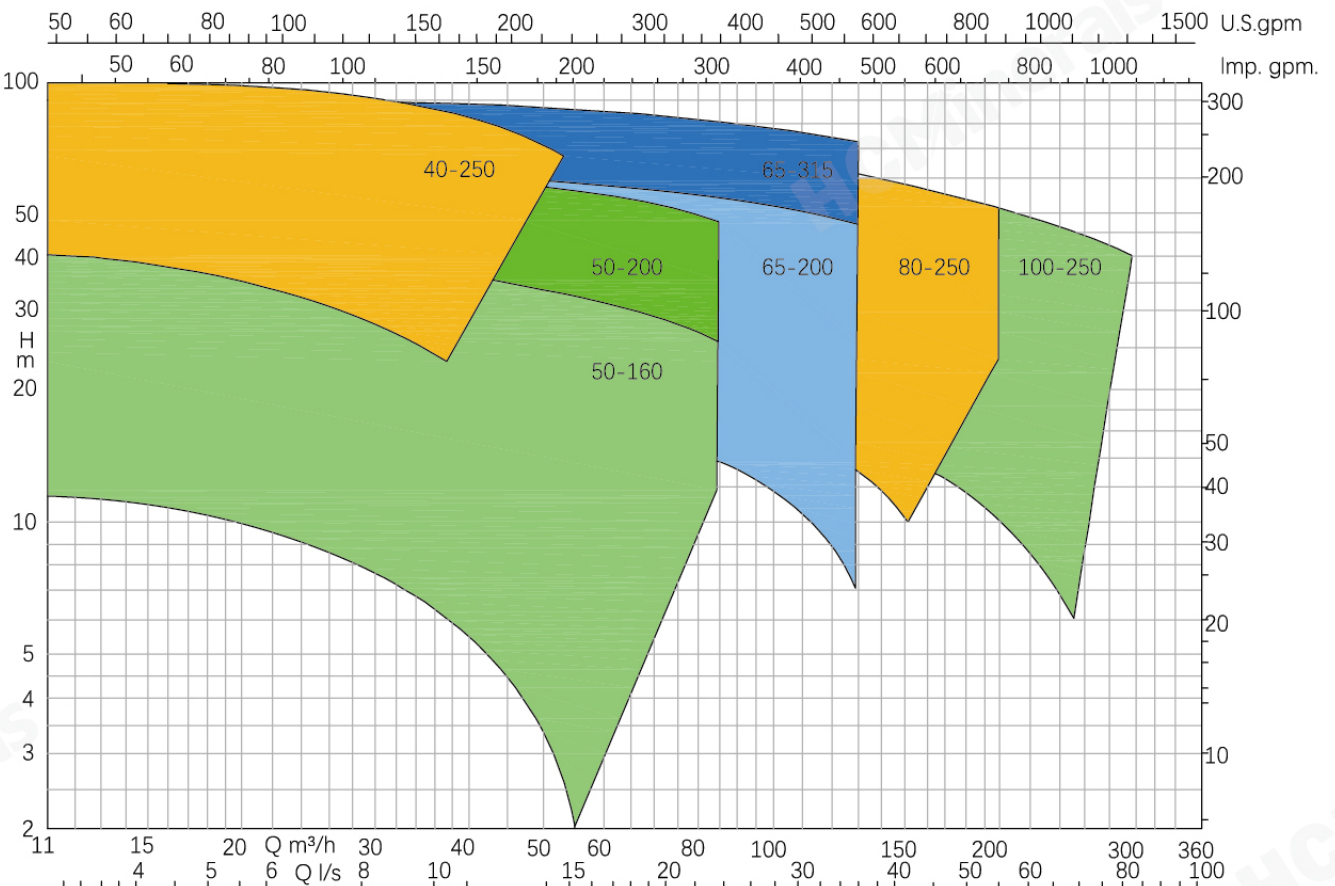
Selecion Charts

KWPK
n=1450r/min

50Hz



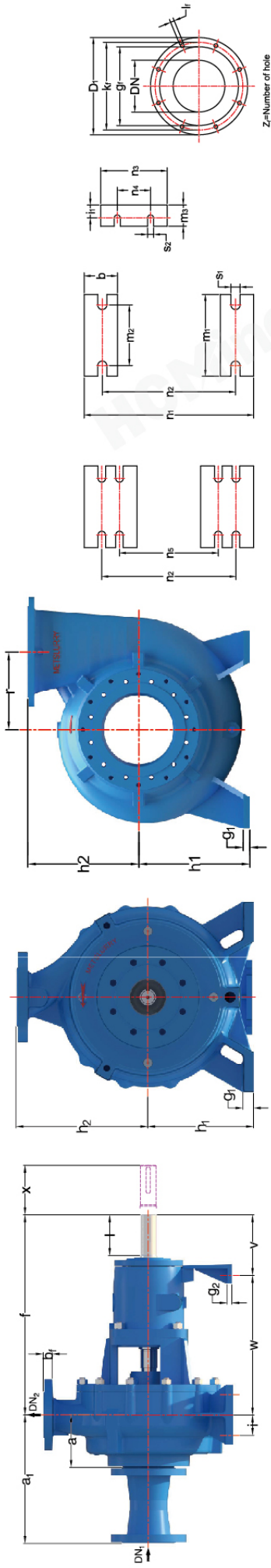
n=2900r/min



Explosion View



KWP Outline Dimension



Pump size ≤ 200–500

Pump size ≥ 250–315

KWP Outline Dimension

Pump size	Bearing bracket	Pump dimensions														Binding bolts										Weight kg	
		DN ₁	DN ₂	a	a ₁	b	f	g ₁	g ₂	h ₁	h ₂	m ₁	m ₃	n ₁	n ₃	x	Shaftend	i	i ₁	m ₂	n ₂	n ₄	s ₁	s ₂	v		w
40–250	P03ax	65	40	100	302	65	500	16	8	180	225	125	47	320	160	140	47	30	95	250	110	16	14	14	130	370	96
50–160	P02as	65	50	100	302	50	385	14	8	160	180	100	45	265	160	100	35	29	70	212	110	14	14	14	100	285	42
50–200	P03ax	65	50	112	315	50	500	14	8	160	200	100	47	265	160	100	35	30	70	212	110	14	14	14	130	370	74
65–200	P03ax	80	65	125	327	65	500	16	8	180	225	125	47	320	160	120	47.5	30	95	250	110	14	14	14	130	370	79
65–315	P04ax	80	65	140	342	80	530	18	12	225	280	160	52	400	160	120	60	33	120	315	110	18	14	14	160	370	130
65–400	P04ax	80	65	140	342	80	530	18	12	280	355	160	52	435	160	120	60	33	120	355	110	19	14	14	160	370	190
80–250	P03ax	100	80	125	377	80	500	18	8	225	280	160	47	400	160	120	60	30	120	315	110	18	14	14	130	370	102
80–315	P04ax	100	80	140	392	80	530	18	12	225	280	160	47	400	160	120	60	33	120	315	110	19	14	14	160	370	140
80–400	P05ax	100	80	140	392	80	670	18	12	280	355	160	60	435	200	120	60	39	120	355	140	18	18	18	170	500	231
100–250	P04ax	125	100	140	392	80	530	18	12	225	280	160	52	400	160	140	60	33	120	315	110	18	14	14	160	370	114
100–315	P04ax	125	100	140	392	80	530	18	12	250	315	160	52	400	160	140	60	33	120	315	110	18	14	14	160	370	145
100–400	P05ax	125	100	140	392	100	670	20	12	280	355	200	60	500	200	160	75	39	150	400	140	23	18	18	170	500	240
125–315	P05ax	150	125	160	412	100	670	22	12	280	355	200	60	500	200	160	75	39	150	400	140	23	18	18	170	500	230
125–400	P05ax	150	125	160	412	100	670	22	12	315	400	200	60	500	200	160	75	39	150	400	140	23	18	18	170	500	255
125–500	P06x	150	125	160	412	100	720	24	12	355	450	200	60	550	200	160	75	39	150	450	140	230	18	205	515	370	
150–315	P05ax	150	150	180	432	100	670	22	12	315	400	200	60	550	200	160	75	39	150	450	140	23	18	18	170	500	240
150–400	P05ax	150	150	160	412	100	670	22	12	315	450	200	60	550	200	160	75	39	150	450	140	23	18	18	170	500	280
150–500	P06x	150	150	160	412	100	720	24	12	375	500	200	60	550	200	180	75	39	150	450	140	23	18	18	205	515	385
200–315	P05ax	200	200	200	552	100	670	22	12	355	450	200	60	550	200	160	75	39	150	450	140	23	18	18	170	500	290
200–400	P06x	200	200	180	532	100	720	24	12	355	500	200	60	550	200	160	75	39	150	450	140	23	18	18	205	515	375

X=Dismantling dimension (in case of dismantling without disconnecting the motor)

Pump size	Bearing bracket	Pump dimensions															Shaftend										Binding bolts										Weight								
		DN ₁					DN ₂					f					g ₁	g ₂	h ₁	h ₂	m ₁	m ₃	n ₁	n ₃	r	x	i	i ₁	m ₂	n ₂	n ₄	n ₅	s ₁	s ₂	v					w					kg
		DN ₁	DN ₂	a	a ₁	b	P06xP08s	P10as	P12s	P06xP08s	P10as	P12s	g ₁	h ₁	h ₂	m ₁																			m ₃	n ₁	n ₃	r	x	i	i ₁	m ₂	n ₂	n ₄	
200-500	P10as	200	200	200	552	120	-	970	1160	1160	24	12	375	560	200	60	700	200	-	250	75	39	150	560	140	-	23	18	-	220	560	300	-	780	860	860	640								
250-315	P06x	250	250	215	617	130	720	-	-	-	26	12	500	400	260	60	800	200	315	160	95	39	190	670	140	-	26	18	205	-	400	-	515	-	-	550									
250-400	P10as	250	250	180	582	130	-	1000	1190	-	26	12	425	375	260	60	800	200	300	315	95	39	190	670	140	-	26	18	-	220	375	-	-	780	890	-	650								
250-500	P12s	250	250	200	602	130	-	1000	1190	1190	26	12	425	400	260	60	800	200	315	315	95	39	190	670	140	-	28	18	-	220	400	300	-	780	890	890	740								
250-630	P12s	250	250	200	602	150	-	1000	1190	1190	32	12	500	450	260	60	900	200	400	315	95	39	190	750	140	-	26	18	-	220	450	300	-	780	890	890	1070								
300-400	P10as	300	300	180	582	180	-	1000	1190	-	32	12	500	400	360	60	900	200	390	315	125	39	250	750	140	-	28	18	-	220	400	-	-	780	890	-	850								
300-500	P12s	300	300	200	602	130	-	1000	1190	-	26	12	450	450	260	60	800	200	315	315	95	39	190	670	140	-	28	18	-	220	450	300	-	780	890	890	940								
350-400	P10as	350	350	200	602	225	-	1000	1190	-	32	12	560	450	400	60	1080	200	395	315	150	39	300	1000	140	750	28	18	-	220	450	-	-	780	890	-	1060								
350-500	P12s	350	350	290	617	225	-	1000	1190	1190	32	12	560	500	400	60	1080	200	415	315	150	39	300	1000	140	750	28	18	-	220	500	300	-	780	890	890	1100								
350-630	P12s	350	350	250	652	150	-	1000	1190	1190	32	12	560	560	360	60	900	200	400	350	125	39	250	750	140	-	28	18	-	220	560	300	-	780	890	890	1180								
400-500	P12s	400	400	260	862	250	-	-	1190	1190	40	16	670	500	400	85	1150	216	490	400	150	-	300	1040	140	800	39	18	-	-	500	425	-	-	765	765	1490								
400-630	P10as/P12s	400	400	215	-	250	-	-	1190	1190	40	16	670	600	360	85	1150	216	500	30	125	-	250	1040	140	800	39	18	-	-	425	425	-	-	765	765	-								
400-710	P10as/P12s	500	400	350	-	250	-	-	1205	1205	40	16	670	600	400	85	1150	216	480	350	150	-	300	1040	140	800	39	18	-	-	425	425	-	-	780	780	1870								
500-540	P08s/P10as/P12s	500	500	425	-	250	-	1000	1190	1190	40	16	800	630	400	85	1400	216	585	400	150	-	300	1290	140	1050	39	18	-	220	630	435	-	780	755	765	-								
500-630	P10as/P12s	500	500	375	-	250	-	-	1190	1190	40	16	750	630	400	85	1400	216	575	400	150	-	300	1290	140	1050	39	18	-	-	435	435	-	-	755	755	1850								

Dismantling dimension (in case of dismantling without disconnecting the motor)

The following is the Bearing Assembly

Bearing bracket	Shaftend			
	d	l	t	u
P02as	24	50	26.9	8
P03ax	32	80	35.3	10
P04ax	42	110	45.1	12
P05ax	48	110	51.5	14
P06x	60	140	64.2	18
P08s	75	150	79.7	20
P10as	95	220	100.2	25
P12s	110	220	116.2	28

Flanges

DN	D _r	k _r	b _r	g _r	l _r ¹⁾	Z _r
40	150	110	18	88	18/M16	4
50	165	125	20	102	18/M16	4
65	185	145	20	122	18/M16	4
80	200	160	22	138	18/M16	8
100	220	180	22	158	18/M16	8
125	250	210	24	188	18/M16	8
150	285	240	24	212	23/M20	8
200	340	295	26	268	23/M20	8
250	395	350	28	320	23/M20	12
300	445	400	28	370	23/M20	12
350	505	460	30	430	23/M20	16
400	565	515	32	482	27/M24	16
500	670	620	34	585	27/M24	20

¹⁾Suction flange: For pumps with suction pipes, it is ø 18, ø 23, or ø 27; M16, M20, M24 for pumps without suction pipes