



Quality, Reliability, Life

Vertical Centrifugal Pump 60Hz



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Applications

- Municipal water supply
- HVAC and cooling tower
- Hot & cold-water circulation
- Booster pump
- Pool and fountain water transfer

Application Limits

- Suction: up to 8m
- Liquid Temperature: Up to 85 °c
- Ambient temperature: up to 40 °c
- Max. working pressure: 10 Bar
- Liquid PH value: 6-8
- Density: 1000 kg/m³
- Kinematic viscosity: 1 mm²/s

Performance Range

- Flow: up to 522 m³/h
- Head: 3-152 meters
- Power: 2.2 kw to 90 kw
- Rated Speed: 1750 & 3500 RPM

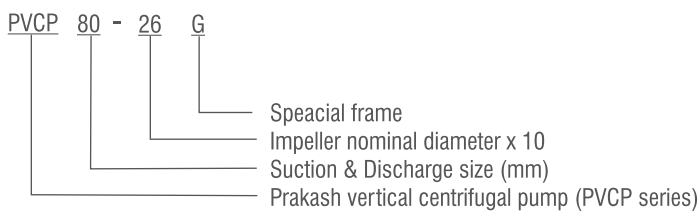
Motor Details

- 2 & 4 pole Induction Motor
- 100% Cooper winding
- Insulation class: F
- Enclosure class: IP55
- Voltage: single phase 220-240v, 60Hz
three phase 380-420v, 60Hz

Installation and use

PRAKASH PVCP series are vertical in-line pumps. The biggest feature is vertical structure which sharply reduces installation space. Motor shaft is plugged into pump shaft to ensure alignment of pump and motor. This series pump adopts IEC standard motor and pump head can be assembled separately

Model Instruction



Design & Structure

Design	Performance referring to BS EN733/DIN24255 standard
Structure	Vertical, Single-Stage, Single-Suction, Volute, Casing, In-line, Close-coupled
DN(mm)	40-200
Flange	DIN2501 PN 16 GB/T17241.6 PN 1.6
Motor	IEC standard motor

Material

Part	Standard Material	Options on request
Casing	Cast Iron	Ductile Iron
Impeller	Cast Iron	Brass/ASTM304(CF8)/ASTM316(CF8M)
Shaft	ASTM420	ASTM304/ASTM316/ASTM 1045
Shaft Seal	Mechanical Seal	-

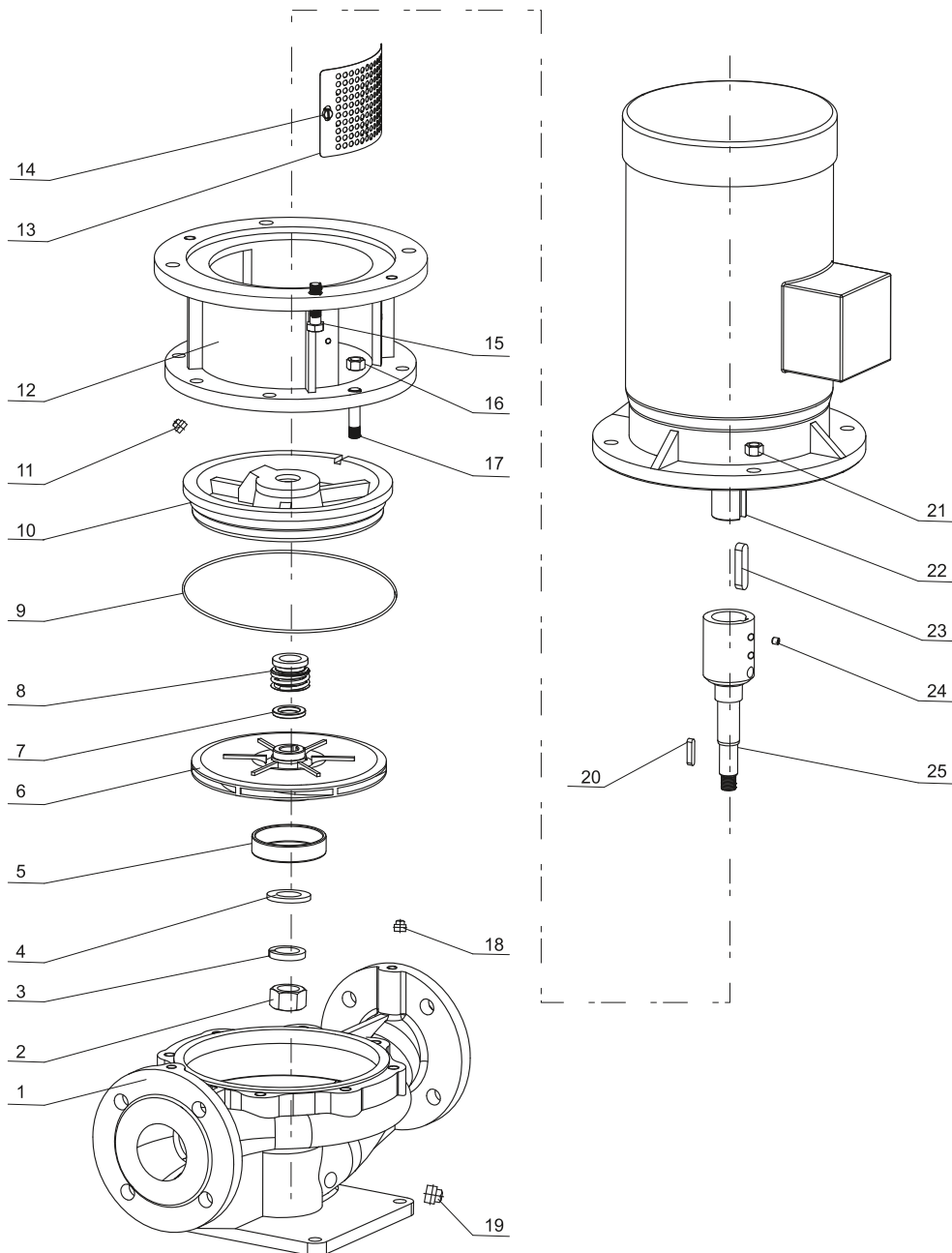
Material code

C	: Cast iron	45	: ASTM1045
Q	: Ductile iron	304	: ASTM304
B	: Brass	316	: ASTM316
S	: ASTM420	M	: Mechanical seal

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Exploded View



Material of Construction (MOC)

Code	Parts name	Material	Code	Parts name	Material
1	Casing	Cast iron HT200	14	Screw	Carbon steel
2	Impeller nut	Carbon steel	15	Screw bolt	Carbon steel
3	Flat washer	Carbon steel	16	Screw nut	Carbon steel
4	Spring washer	Manganese alloy steel	17	Screw nut	Carbon steel
5	Front wear ring	Cast iron HT250	18	1/4 Plug	Carbon steel
6	Impeller	Cast iron HT200	19	1/4 & 3/8 Plug	Carbon steel
7	Seal seat	ASTM420	20	Pump shaft key	ASTM1045SS
8	Mechanical seal	Sic-Carbide/Carbon/Viton	21	Screw nut	Carbon steel
9	Casing gasket	Paper	22	Motor	Vertical motor
10	Casing cover	Cast iron HT200	23	Motor shaft key	ASTM1045SS
11	1/4 Plug	Carbon steel	24	Screw	Carbon steel
12	Adaptor	Cast iron HT200	25	Shaft	ASTM420
13	Guard	Galvanized sheet			

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Selection & Dimension Chart 1750 & 3500RPM, 60Hz

Model	Motor		Impeller OD (mm)	Pump Installation Dimension (mm)											Inlet / outlet flange (mm)						Approx. Weight (Kg)		
	Speed (RPM)	Power (Kw)		h1	L1	F	G	L	AD	B1	B2	n2×m2	n1×m1	S1	DN	D	K	n-d	b	Bare pump	Motor	Total weight	
PVCP40-13	3500	2.2	122	113	152	150	310	447	155	104	95	170x200	200x230	12	40	150	110	4-Ø18	18	32	26	57	
PVCP40-13	3500	3	132	113	164	150	310	489	180	104	95	170x200	200x230	12	40	150	110	4-Ø18	18	34	44	78	
PVCP40-13	3500	4	139	113	164	150	310	504	190	104	95	170x200	200x230	12	40	150	110	4-Ø18	18	34	43	77	
PVCP65-13	3500	2.2	100	128	152	175	360	447	155	113	99	170x200	200x230	12	40	150	110	4-Ø18	20	40	26	66	
PVCP65-13	3500	3	112	128	164	175	360	489	180	113	99	170x200	200x230	12	65	185	145	4-Ø18	20	40	44	84	
PVCP65-13	3500	4	122	128	164	175	360	504	190	113	99	170x200	200x230	12	65	185	145	4-Ø18	20	40	43	83	
PVCP65-13	3500	5.5	130	128	187	175	360	577	210	113	99	170x200	200x230	12	65	185	145	4-Ø18	20	46	65	112	
PVCP65-13	3500	7.5	139	128	187	175	360	577	210	113	99	170x200	200x230	12	65	185	145	4-Ø18	20	46	69	116	
PVCP65-13G	3500	5.5	110	155	187	200	410	577	210	130	105	170x200	200x230	12	65	185	145	4-Ø18	20	49	65	114	
PVCP65-13G	3500	7.5	128	155	187	200	410	577	210	130	105	170x200	200x230	12	65	185	145	4-Ø18	20	49	69	119	
PVCP65-13G	3500	11	139	155	220	200	410	725	255	130	105	170x200	200x230	12	65	185	145	4-Ø18	20	58	108	166	
PVCP80-13	3500	11	132	160	220	220	460	725	255	140	116	170x200	200x230	12	80	200	160	8-Ø18	25	62	108	170	
PVCP80-13	3500	11	120	160	220	220	460	725	255	140	116	170x200	200x230	12	80	200	160	8-Ø18	25	62	108	170	
PVCP80-13	3500	15	139	160	220	220	460	725	255	140	116	170x200	200x230	12	80	200	160	8-Ø18	25	62	109	171	
PVCP50-16	3500	4	133	118	164	160	320	504	190	115	115	170x200	200x230	12	50	165	125	4-Ø18	20	38	43	81	
PVCP50-16	3500	5.5	152	118	187	160	320	577	210	115	115	170x200	200x230	12	50	165	125	4-Ø18	20	42	65	107	
PVCP50-16	3500	7.5	174	118	187	160	320	577	210	115	115	170x200	200x230	12	50	165	125	4-Ø18	20	42	69	111	
PVCP65-16	3500	5.5	139	138	187	175	370	577	210	128	115	170x200	200x230	12	65	185	145	4-Ø18	20	49	65	114	
PVCP65-16	3500	7.5	155	138	187	175	370	577	210	128	115	170x200	200x230	12	65	185	145	4-Ø18	20	49	69	118	
PVCP65-16	3500	11	174	138	220	175	370	725	255	128	115	170x200	200x230	12	65	185	145	4-Ø18	20	51	108	160	
PVCP65-16G	1750	2.2	165	138	164	220	440	489	180	140	120	170x200	200x230	12	65	185	145	4-Ø18	20	46	34	80	
PVCP65-16G	1750	3	174	138	164	220	440	489	180	140	120	170x200	200x230	12	65	185	145	4-Ø18	20	46	37	83	
PVCP65-16G	3500	7.5	128	138	187	220	440	577	210	140	120	170x200	200x230	12	65	185	145	4-Ø18	20	54	69	123	
PVCP65-16G	3500	11	142	138	220	220	440	725	255	140	120	170x200	200x230	12	65	185	145	4-Ø18	20	54	108	162	
PVCP65-16G	3500	15	155	138	220	220	440	725	255	140	120	170x200	200x230	12	65	185	145	4-Ø18	20	54	109	163	
PVCP65-16G	3500	18.5	174	138	220	220	440	780	255	140	120	170x200	200x230	12	65	185	145	4-Ø18	20	54	133	186	
PVCP80-16	1750	2.2	160	158	164	220	480	489	180	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	55	34	88	
PVCP80-16	1750	3	174	158	164	220	480	489	180	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	55	37	91	
PVCP80-16	3500	11	134	158	220	220	480	504	190	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	62	108	170	
PVCP80-16	3500	15	148	158	220	220	480	725	255	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	62	109	171	
PVCP80-16	3500	18.5	157	158	220	220	480	780	255	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	62	133	194	
PVCP80-16	3500	22	165	158	220	220	480	810	280	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	62	155	217	
PVCP80-16	3500	30	174	158	222	220	480	882	305	162	132	170x200	200x230	12	80	200	160	8-Ø18	25	70	224	294	
PVCP100-16	1750	2.2	141	188	164	260	540	489	180	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	58	34	92	
PVCP100-16	1750	3	158	188	164	260	540	489	180	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	58	37	95	
PVCP100-16	1750	4	170	188	164	260	540	504	190	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	58	47	105	
PVCP100-16	1750	5.5	174	188	187	260	540	577	210	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	60	65	125	
PVCP100-16	3500	22	148	188	220	260	540	810	280	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	66	155	221	
PVCP100-16	3500	30	164	188	222	260	540	882	305	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	73	224	298	
PVCP100-16	3500	37	174	188	222	260	540	882	305	168	136	170x200	200x230	12	100	220	180	8-Ø18	24	73	235	308	
PVCP125-16	1750	3	162	220	179	330	690	504	180	202	162	260x260	300x300	14	125	250	210	8-Ø18	26	102	37	139	
PVCP125-16	1750	4	179	220	179	330	690	519	190	202	162	260x260	300x300	14	125	250	210	8-Ø18	26	102	47	149	
PVCP125-16	1750	5.5	190	220	202	330	690	592	210	202	162	260x260	300x300	14	125	250	210	8-Ø18	26	103	65	168	
PVCP125-16	3500	37	175	220	237	330	690	897	305	202	162	260x260	300x300	14	125	250	210	8-Ø18	26	113	235	347	
PVCP125-16	3500	45	186	220	237	330	690	942	335	202	162	260x260	300x300	14	125	250	210	8-Ø18	26	117	286	403	
PVCP125-16	3500	55	190	220	271	330	690	1041	370	202	162	260x260	300x300	14	125	250	210	8-Ø18	26	120	373	493	
PVCP50-20	1750	2.2	214	118	163	210	420	488	180	137	134	170x200	200x230	14	50	165	125	4-Ø18	20	48	34	82	
PVCP50-20	3500	7.5	173	118	186	210	420	576	210	137	134	170x200	200x230	14	50	165	125	4-Ø18	20	51	69	120	
PVCP50-20	3500	11	195	118	218	210	420	723	255	137	134	170x200	200x230										

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Selection & Dimension Chart 1750 & 3500RPM, 60Hz

Model	Motor		Impeller OD (mm)	Pump Installation Dimension (mm)											Inlet / outlet flange (mm)					Approx. Weight (Kg)		
	Speed (RPM)	Power (Kw)		h1	L1	F	G	L	AD	B1	B2	n2×m2	n1×m1	S1	DN	D	K	n-d	b	Bare pump	Motor	Total weight
PVCP125-20	1750	11	202	220	234	330	680	739	255	208	170	200x250	250x300	18	125	250	210	8-018	26	103	108	211
PVCP125-20	1750	15	214	220	234	330	680	794	255	208	170	200x250	250x300	18	125	250	210	8-018	26	103	129	231
PVCP125-20	3500	55	180	220	271	330	680	1041	370	208	170	200x250	250x300	18	125	250	210	8-018	26	126	373	499
PVCP125-20	3500	75	200	220	271	330	680	1116	410	208	170	200x250	250x300	18	125	250	210	8-018	26	126	485	610
PVCP125-20	3500	90	210	220	271	330	680	1166	410	208	170	200x250	250x300	18	125	250	210	8-018	26	126	541	667
PVCP150-20	1750	11	193	260	234	360	740	739	255	242	186	200x250	250x300	18	150	285	240	8-022	26	130	108	238
PVCP150-20	1750	15	206	260	234	360	740	794	255	242	186	200x250	250x300	18	150	285	240	8-022	26	130	129	259
PVCP150-20	1750	18.5	214	260	234	360	740	824	280	242	186	200X250	250X300	18	150	285	240	8-022	26	130	157	287
PVCP200-20	1750	18.5	185	280	261	400	840	851	280	256	198	340x340	420x420	18	200	340	295	12-022	28	167	157	324
PVCP200-20	1750	22	198	280	261	400	840	891	280	256	198	340x340	420x420	18	200	340	295	12-022	28	167	179	346
PVCP200-20	1750	30	214	280	264	400	840	924	305	256	198	340x340	420x420	18	200	340	295	12-022	28	173	240	413
PVCP50-26	1750	2.2	215	118	173	230	470	498	180	168	168	170x200	200x230	14	50	165	125	4-018	20	62	34	96
PVCP50-26	1750	3	235	118	173	230	470	498	180	168	168	170x200	200x230	14	50	165	125	4-018	20	62	37	99
PVCP50-26	1750	4	264	118	173	230	470	513	190	168	168	170x200	200x230	14	50	165	125	4-018	20	62	47	109
PVCP50-26	3500	18.5	210	118	228	230	470	788	255	168	168	170x200	200x230	14	50	165	125	4-018	20	70	133	202
PVCP50-26	3500	22	225	118	228	230	470	818	280	168	168	170x200	200x230	14	50	165	125	4-018	20	70	155	225
PVCP50-26	3500	30	250	118	231	230	470	891	305	168	168	170x200	200x230	14	50	165	125	4-018	20	77	224	301
PVCP50-26	3500	37	264	118	231	230	470	891	305	168	168	170x200	200x230	14	50	165	125	4-018	20	77	235	312
PVCP65-26	1750	2.2	205	138	173	260	520	498	180	168	168	170x200	200x230	14	65	185	145	4-018	20	66	34	100
PVCP65-26	1750	3	230	138	173	260	520	498	180	168	168	170x200	200x230	14	65	185	145	4-018	20	66	37	103
PVCP65-26	1750	4	252	138	173	260	520	513	190	168	168	170x200	200x230	14	65	185	145	4-018	20	66	47	113
PVCP65-26	1750	5.5	264	138	196	260	520	586	210	168	168	170x200	200x230	14	65	185	145	4-018	20	70	65	135
PVCP65-26	3500	22	210	138	228	260	520	818	280	168	168	170x200	200x230	14	65	185	145	4-018	20	74	155	229
PVCP65-26	3500	30	240	138	231	260	520	891	305	168	168	170x200	200x230	14	65	185	145	4-018	20	81	224	305
PVCP65-26	3500	37	264	138	231	260	520	891	305	168	168	170x200	200x230	14	65	185	145	4-018	20	81	235	315
PVCP65-26G	1750	4	205	138	174	260	520	514	190	178	164	170x200	200x230	14	65	185	145	4-018	20	68	47	115
PVCP65-26G	1750	5.5	231	138	197	260	520	587	210	178	164	170x200	200x230	14	65	185	145	4-018	20	71	65	137
PVCP65-26G	1750	7.5	264	138	197	260	520	627	210	178	164	170x200	200x230	14	65	185	145	4-018	20	71	79	150
PVCP80-26	1750	5.5	215	168	202	290	590	592	210	195	170	170x200	200x230	14	80	200	160	4-018	22	83	65	148
PVCP80-26	1750	7.5	235	168	202	290	590	632	210	195	170	170x200	200x230	14	80	200	160	8-018	22	83	79	162
PVCP80-26	1750	11	264	168	234	290	590	739	255	195	170	170x200	200x230	14	80	200	160	8-018	22	89	108	197
PVCP80-26	3500	55	217	168	271	290	590	1041	370	195	170	170x200	200x230	14	80	200	160	8-018	22	113	373	486
PVCP80-26	3500	75	246	168	271	290	590	1116	410	195	170	170x200	200x230	14	80	200	160	8-018	22	113	485	597
PVCP80-26	3500	90	264	168	271	290	590	1166	410	195	170	170x200	200x230	14	80	200	160	8-018	22	113	541	654
PVCP100-26	1750	11	233	188	234	310	630	739	255	208	184	170x200	200x230	14	100	220	180	8-018	24	99	108	207
PVCP100-26	1750	15	255	188	234	310	630	794	255	208	184	170x200	200x230	14	100	220	180	8-018	24	99	129	228
PVCP100-26	1750	18.5	264	188	234	310	630	824	280	208	184	170x200	200x230	14	100	220	180	8-018	24	99	157	256
PVCP100-26	3500	55	208	188	271	310	630	1041	370	208	184	170x200	200x230	14	100	220	180	8-018	24	123	373	496
PVCP100-26	3500	75	226	188	271	310	630	1116	410	208	184	170x200	200x230	14	100	220	180	8-018	24	123	485	607
PVCP100-26	3500	90	239	188	271	310	630	1166	410	208	184	170x200	200x230	14	100	220	180	8-018	24	123	541	663
PVCP125-26	1750	18.5	242	220	238	340	700	828	280	222	192	200x250	250x300	18	125	250	210	8-018	26	125	157	282
PVCP125-26	1750	22	252	220	238	340	700	868	280	222	192	200x250	250x300	18	125	250	210	8-018	26	125	179	304
PVCP125-26	1750	30	264	220	241	340	700	901	305	222	192	200x250	250x300	18	125	250	210	8-018	26	131	240	371
PVCP150-26	1750	18.5	217	260	238	360	760	829	280	245	210	200x250	250x300	18	150	285	240	8-022	26	155	157	312
PVCP150-26	1750	22	228	260	238	360	760	868	280	245	210	200x250	250x300	18	150	285	240	8-022	26	155	179	334
PVCP150-26	1750	30	245	260	241	360	760	901	305	245	210	200x250	250x300	18	150	285	240	8-022	26	161	240	401
PVCP150-26	1750	37	264	260	275	360	760	955	335	245	210	200x250	250x300	18	150	285	240	8-022	26	170	301	471
PVCP200-26	1750	30	230	280	248	380	830	908	305	258	210	250x300	300x350	18	200	340	295	12-022	30	213	240	453
PVCP200-26	1750	37																				

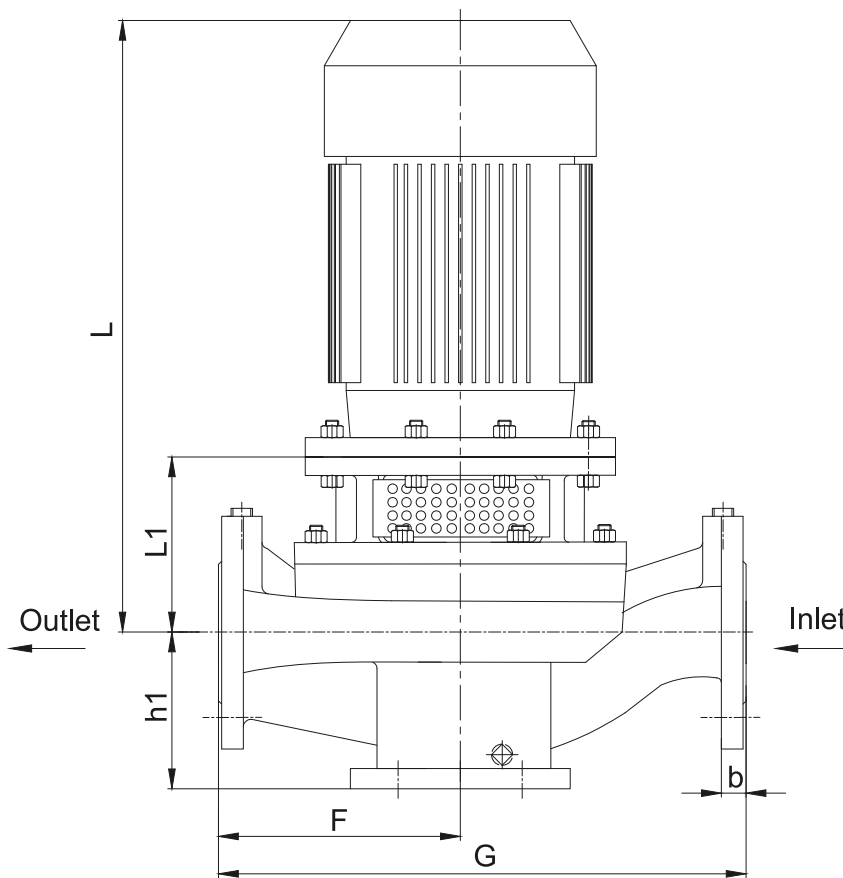
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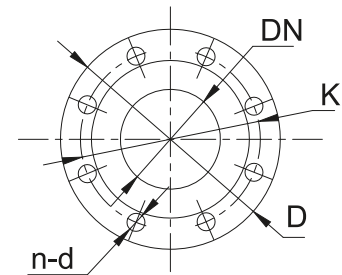
Selection & Dimension Chart 1750 & 3500RPM, 60Hz

Model	Motor		Impeller OD (mm)	Pump Installation Dimension (mm)										Inlet / outlet flange (mm)					Approx. Weight (Kg)			
	Speed (RPM)	Power (Kw)		h1	L1	F	G	L	AD	B1	B2	n2×m2	n1×m1	S1	DN	D	K	n-d	b	Bare pump	Motor	Total weight
PVCP200-32	1750	75	315	300	285	430	920	1130	410	290	242	340X340	420X420	18	200	340	295	12-Ø22	30	266	544	809
PVCP200-32	1750	90	329	300	285	430	920	1180	410	290	242	340X340	420X420	18	200	340	295	12-Ø22	30	266	587	852
PVCP100-40	1750	37	364	220	284	400	800	964	335	265	248	310X310	370X370	18	100	220	180	8-Ø18	24	204	301	504
PVCP100-40	1750	45	387	220	284	400	800	989	335	265	248	310X310	370X370	18	100	220	180	8-Ø18	24	204	312	516
PVCP100-40	1750	55	409	220	284	400	800	1054	370	265	248	310X310	370X370	18	100	220	180	8-Ø18	24	208	383	590
PVCP125-40	1750	37	345	240	284	380	810	964	335	285	262	200x250	250x300	18	125	250	210	8-Ø18	26	212	301	513
PVCP125-40	1750	45	363	240	284	380	810	989	335	285	262	200x250	250x300	18	125	250	210	8-Ø18	26	212	312	524
PVCP125-40	1750	55	383	240	284	380	810	1054	370	285	262	200x250	250x300	18	125	250	210	8-Ø18	26	217	383	599
PVCP125-40	1750	75	409	240	284	380	810	1129	410	285	262	200x250	250x300	18	125	250	210	8-Ø18	26	218	544	762
PVCP150-40	1750	55	330	250	284	400	850	1054	370	296	264	250x300	300x350	18	150	285	240	8-Ø22	26	235	383	617
PVCP150-40	1750	75	365	250	284	400	850	1129	410	296	264	250x300	300x350	18	150	285	240	8-Ø22	26	236	544	780
PVCP150-40	1750	90	375	250	284	400	850	1179	410	296	264	250x300	300x350	18	150	285	240	8-Ø22	26	236	587	823

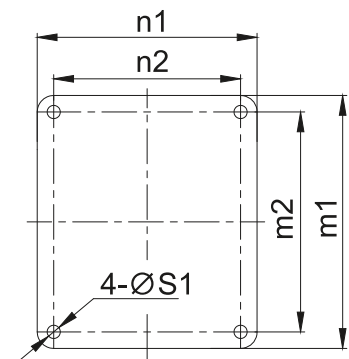
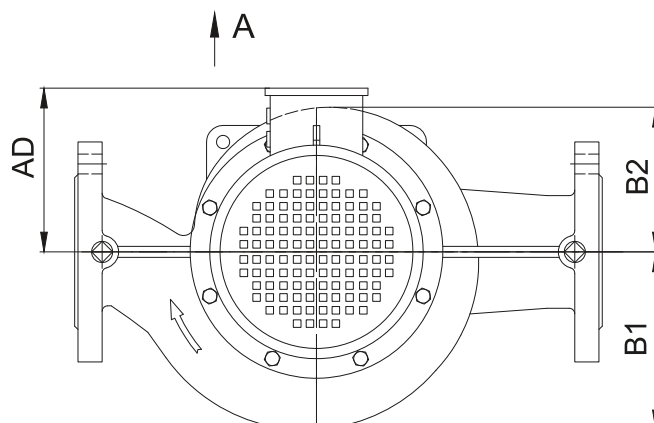
G.A Drawing



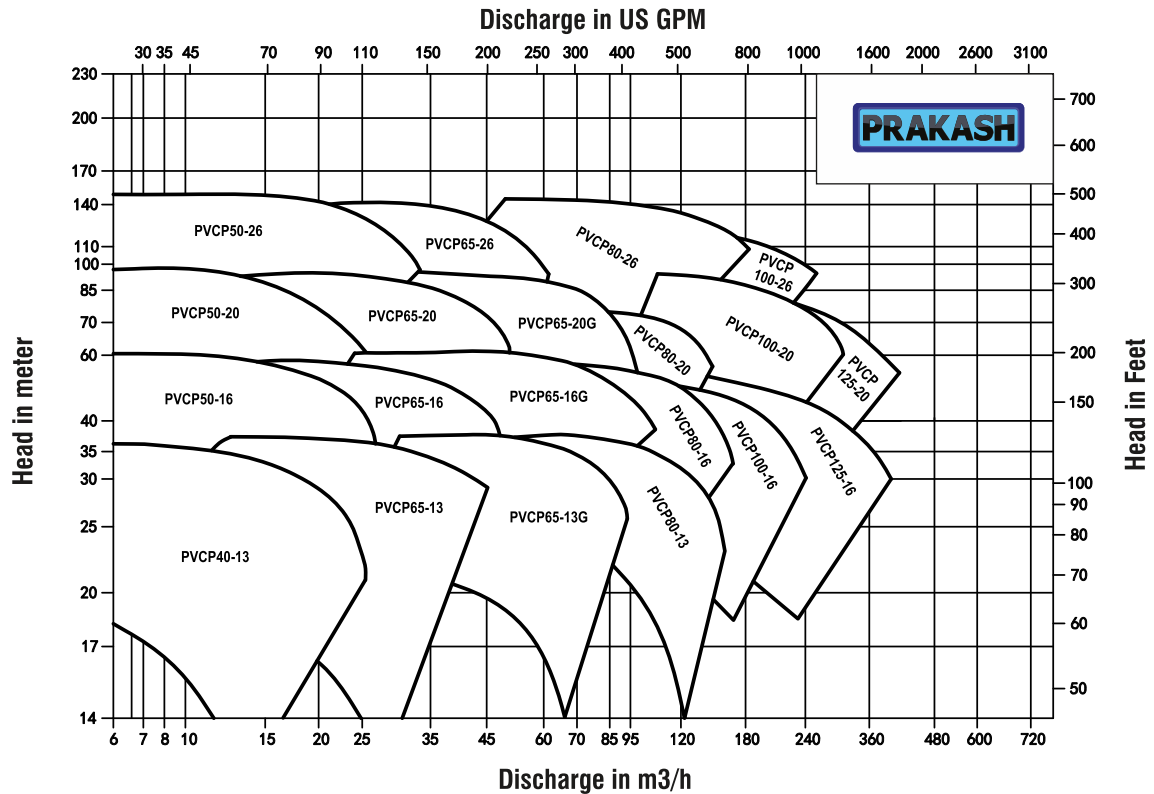
Inlet/Outlet Flange



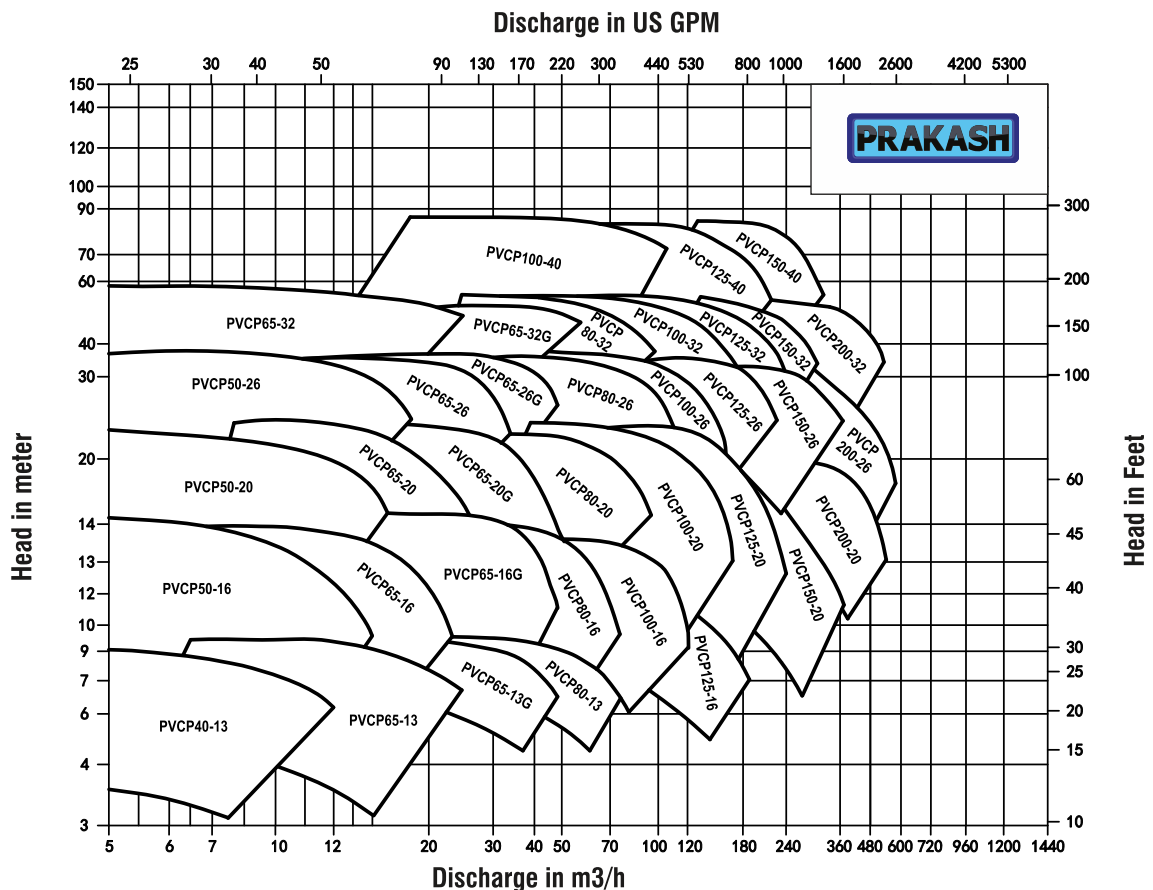
A View



HYDRAULIC PERFORMANCE CURVE PVCP 3500RPM 60Hz



HYDRAULIC PERFORMANCE CURVE PVCP 1750RPM 60Hz



Performance to ISO9906 Grade 2 for clean cold water only

PRAKASH

Office in India

PRAKASH PUMP

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