



Quality, Reliability, Life

Vertical Centrifugal Pump



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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 457 m³/h
- Head: 2-164 meters
- Power: 2.2 kw to 90 kw
- Rated Speed: 1450 & 2900 RPM

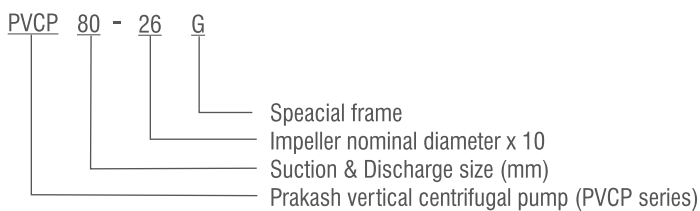
Motor Details

- 2 & 4 pole Induction Motor
- 100% Cooper winding
- Insulation class: F
- Enclosure class: IP55
- Voltage: single phase 220-240v, 50Hz
three phase 380-420v, 50Hz

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	-

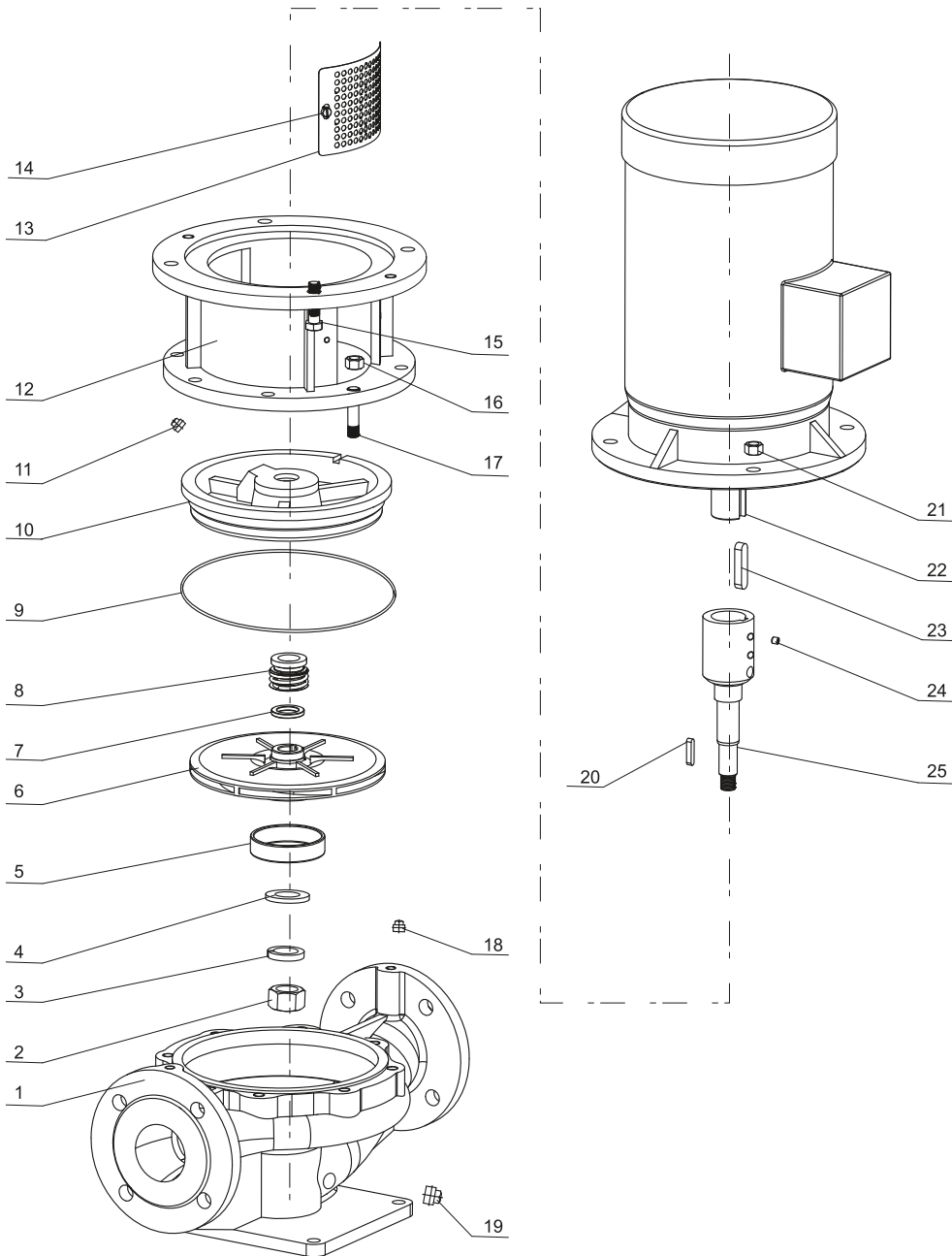
Material code

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

Vertical Centrifugal Pump

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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			

Vertical Centrifugal Pump

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Selection & Dimension Chart 1450 & 2900RPM, 50Hz

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	2900	2.2	139	113	152	150	310	447	155	104	95	170×200	200×230	12	40	150	110	4-Ø18	18	32	26	57	
PVCP65-13	2900	2.2	121	128	152	175	360	447	155	113	99	170×200	200×230	12	65	185	145	4-Ø18	20	38	26	63	
PVCP65-13	2900	3.0	130	128	164	175	360	489	180	113	99	170×200	200×230	12	65	185	145	4-Ø18	20	40	44	84	
PVCP65-13	2900	4.0	139	128	164	175	360	504	190	113	99	170×200	200×230	12	65	185	145	4-Ø18	20	40	43	83	
PVCP65-13G	2900	3.0	110	155	164	200	410	489	180	130	105	170×200	200×230	12	65	185	145	4-Ø18	20	46	44	90	
PVCP65-13G	2900	4.0	126	155	164	200	410	504	190	130	105	170×200	200×230	12	65	185	145	4-Ø18	20	46	43	89	
PVCP65-13G	2900	5.5	139	155	187	200	410	577	210	130	105	170×200	200×230	12	65	185	145	4-Ø18	20	49	65	115	
PVCP80-13	2900	5.5	128	160	187	220	460	577	210	140	116	170×200	200×230	12	80	200	160	8-Ø18	25	54	65	119	
PVCP80-13	2900	7.5	139	160	187	220	460	577	210	140	116	170×200	200×230	12	80	200	160	8-Ø18	25	54	69	123	
PVCP50-16	2900	2.2	133	118	152	160	320	447	155	115	115	170×200	200×230	12	50	165	125	4-Ø18	20	36	26	62	
PVCP50-16	2900	3.0	148	118	164	160	320	489	180	115	115	170×200	200×230	12	50	165	125	4-Ø18	20	38	44	82	
PVCP50-16	2900	4.0	166	118	164	160	320	504	190	115	115	170×200	200×230	12	50	165	125	4-Ø18	20	38	43	81	
PVCP50-16	2900	5.5	174	118	187	160	320	577	210	115	115	170×200	200×230	12	50	165	125	4-Ø18	20	42	65	107	
PVCP65-16	2900	3.0	139	138	164	175	370	489	180	128	115	170×200	200×230	12	65	185	145	4-Ø18	20	44	44	88	
PVCP65-16	2900	4.0	153	138	164	175	370	504	190	128	115	170×200	200×230	12	65	185	145	4-Ø18	20	44	43	87	
PVCP65-16	2900	5.5	174	138	187	175	370	577	210	128	115	170×200	200×230	12	65	185	145	4-Ø18	20	49	65	114	
PVCP65-16G	2900	4.0	125	138	164	220	440	504	190	140	120	170×200	200×230	12	65	185	145	4-φ18	20	51	43	94	
PVCP65-16G	2900	5.5	138	138	187	220	440	577	210	140	120	170×200	200×230	12	65	185	145	4-Ø18	20	51	65	116	
PVCP65-16G	2900	7.5	149	138	187	220	440	577	210	140	120	170×200	200×230	12	65	185	145	4-Ø18	20	51	69	120	
PVCP65-16G	2900	11	174	138	220	220	440	725	255	140	120	170×200	200×230	12	65	185	145	4-Ø18	20	54	108	162	
PVCP80-16	1450	2.2	174	158	164	220	480	489	180	162	132	170×200	200×230	12	80	200	160	8-Ø18	25	55	34	88	
PVCP80-16	2900	5.5	130	158	187	220	480	577	210	162	132	170×200	200×230	12	80	200	160	8-Ø18	25	60	65	125	
PVCP80-16	2900	7.5	143	158	187	220	480	577	210	162	132	170×200	200×230	12	80	200	160	8-Ø18	25	60	69	129	
PVCP80-16	2900	11	160	158	220	220	480	725	255	162	132	170×200	200×230	12	80	200	160	8-Ø18	25	62	108	170	
PVCP80-16	2900	15	174	158	220	220	480	725	255	162	132	170×200	200×230	12	80	200	160	8-Ø18	25	62	109	171	
PVCP100-16	1450	2.2	169	188	164	260	540	489	180	168	136	170×200	200×230	12	100	220	180	8-Ø18	24	58	34	92	
PVCP100-16	1450	3.0	174	188	164	260	540	489	180	168	136	170×200	200×230	12	100	220	180	8-Ø18	24	58	37	95	
PVCP100-16	2900	11	141	188	220	260	540	725	255	168	136	170×200	200×230	12	100	220	180	8-Ø18	24	65	108	173	
PVCP100-16	2900	15	157	188	220	260	540	725	255	168	136	170×200	200×230	12	100	220	180	8-Ø18	24	65	109	174	
PVCP100-16	2900	18.5	166	188	220	260	540	780	255	168	136	170×200	200×230	12	100	220	180	8-Ø18	24	65	133	198	
PVCP100-16	2900	22	174	188	220	260	540	810	280	168	136	170×200	200×230	12	100	220	180	8-Ø18	24	66	155	221	
PVCP125-16	1450	2.2	177	220	179	330	690	504	180	202	162	260×260	300×300	18	125	250	210	8-Ø18	26	100	34	134	
PVCP125-16	1450	3.0	190	220	179	330	690	504	180	202	162	260×260	300×300	18	125	250	210	8-Ø18	26	100	37	137	
PVCP125-16	2900	22	178	220	234	330	690	824	280	202	162	260×260	300×300	18	125	250	210	8-Ø18	26	110	155	265	
PVCP125-16	2900	30	190	220	237	330	690	897	305	202	162	260×260	300×300	18	125	250	210	8-Ø18	26	113	224	337	
PVCP50-20	2900	4.0	170	118	163	210	420	503	190	137	134	170×200	200×230	14	50	165	125	4-φ18	20	51	43	94	
PVCP50-20	2900	5.5	188	118	186	210	420	576	210	137	134	170×200	200×230	14	50	165	125	4-Ø18	20	51	65	116	
PVCP50-20	2900	7.5	207	118	186	210	420	576	210	137	134	170×200	200×230	14	50	165	125	4-Ø18	20	51	69	120	
PVCP50-20	2900	11	214	118	218	210	420	723	255	137	134	170×200	200×230	14	50	165	125	4-Ø18	20	55	108	163	
PVCP65-20	2900	5.5	175	138	186	240	480	576	210	144	134	170×200	200×230	14	65	185	145	4-Ø18	20	56	65	121	
PVCP65-20	2900	7.5	193	138	186	240	480	576	210	144	134	170×200	200×230	14	65	185	145	4-Ø18	20	56	69	125	
PVCP65-20	2900	11	214	138	218	240	480	723	255	144	134	170×200	200×230	14	65	185	145	4-Ø18	20	60	108	168	
PVCP65-20G	1450	2.2	214	138	166	240	480	491	180	158	142	170×200	200×230	14	65	185	145	4-Ø18	20	54	34	87	
PVCP65-20G	2900	11	178	138	221	240	480	726	255	158	142	170×200	200×230	14	65	185	145	4-Ø18	20	61	108	169	
PVCP65-20G	2900	15	195	138	221	240	480	726	255	158	142	170×200	200×230	14	65	185	145	4-Ø18	20	61	109	170	
PVCP65-20G	2900	18.5	214	138	221	240	480	781	255	158	142	170×200	200×230	14	65	185	145	4-Ø18	20	61	133	194	
PVCP80-20	1450	2.2	193	150	163	260	540	488	180	170	148	170×200	200×230	14	80	200	160	8-Ø18	25	62	34	96	
PVCP80-20	1450	3.0	214	150	163	260	540	488	180	170	148	170×200	200×230	14	80	200	160	8-Ø18	25	62	37	99	
PVCP80-20	2900	15	174	150	218	260	540	723	255	170	148	170×											

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Selection & Dimension Chart 1450 & 2900RPM, 50Hz

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	
PVCP200-20	1450	15	214	280	261	400	840	821	255	256	198	340×340	420×420	18	200	340	295	12-Ø22	28	165	129	294	
PVCP50-26	1450	2.2	264	118	173	230	470	498	180	168	168	170×200	200×230	14	50	165	125	4-Ø18	20	62	34	96	
PVCP50-26	1450	2.2	225	118	173	230	470	498	180	168	168	170×200	200×230	14	50	165	125	4-Ø18	20	62	34	96	
PVCP50-26	2900	11	216	118	228	230	470	733	255	168	168	170×200	200×230	14	50	165	125	4-Ø18	20	70	108	178	
PVCP50-26	2900	15	237	118	228	230	470	733	255	168	168	170×200	200×230	14	50	165	125	4-Ø18	20	70	109	179	
PVCP50-26	2900	18.5	257	118	228	230	470	788	255	168	168	170×200	200×230	14	50	165	125	4-Ø18	20	70	133	202	
PVCP50-26	2900	22	264	118	228	230	470	818	280	168	168	170×200	200×230	14	50	165	125	4-φ18	20	66	155	221	
PVCP65-26	1450	2.2	248	138	173	260	520	498	180	168	168	170×200	200×230	14	65	185	145	4-Ø18	20	66	34	100	
PVCP65-26	1450	2.2	215	138	173	260	520	498	180	168	168	170×200	200×230	14	65	185	145	4-Ø18	20	66	34	100	
PVCP65-26	1450	3.0	264	138	173	260	520	498	180	168	168	170×200	200×230	14	65	185	145	4-Ø18	20	66	37	103	
PVCP65-26	2900	11	210	138	228	260	520	733	255	168	168	170×200	200×230	14	65	185	145	4-Ø18	20	74	108	182	
PVCP65-26	2900	15	225	138	228	260	520	733	255	168	168	170×200	200×230	14	65	185	145	4-Ø18	20	74	109	183	
PVCP65-26	2900	18.5	245	138	228	260	520	788	255	168	168	170×200	200×230	14	65	185	145	4-Ø18	20	74	133	207	
PVCP65-26G	1450	2.2	205	138	174	260	520	497	180	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	68	34	102	
PVCP65-26G	1450	3.0	225	138	174	260	520	497	180	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	68	37	105	
PVCP65-26G	1450	4.0	252	138	174	260	520	512	190	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	68	47	115	
PVCP65-26G	1450	5.5	264	138	197	260	520	587	210	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	71	65	137	
PVCP65-26G	2900	18.5	205	138	229	260	520	788	280	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	75	133	208	
PVCP65-26G	2900	22	218	138	229	260	520	819	280	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	76	155	231	
PVCP65-26G	2900	30	245	138	232	260	520	892	305	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	83	224	307	
PVCP65-26G	2900	37	264	138	232	260	520	892	305	178	164	170×200	200×230	14	65	185	145	4-Ø18	20	83	235	317	
PVCP80-26	1450	4.0	230	168	179	290	590	519	190	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	81	47	128	
PVCP80-26	1450	5.5	253	168	202	290	590	592	210	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	83	65	148	
PVCP80-26	1450	7.5	264	168	202	290	590	632	210	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	83	79	162	
PVCP80-26	2900	30	217	168	237	290	590	897	305	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	95	224	319	
PVCP80-26	2900	37	233	168	237	290	590	897	305	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	95	235	330	
PVCP80-26	2900	45	252	168	237	290	590	942	335	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	99	286	385	
PVCP80-26	2900	55	264	168	271	290	590	1041	370	195	170	170×200	200×230	14	80	200	160	8-Ø18	22	113	373	486	
PVCP100-26	1450	5.5	230	188	202	310	630	592	210	208	184	170×200	200×230	14	100	220	180	8-Ø18	24	93	65	158	
PVCP100-26	1450	7.5	250	188	202	310	630	632	210	208	184	170×200	200×230	14	100	220	180	8-Ø18	24	93	79	172	
PVCP100-26	1450	11	264	188	234	310	630	739	255	208	184	170×200	200×230	14	100	220	180	8-Ø18	24	99	108	207	
PVCP100-26	2900	45	229	188	237	310	630	942	335	208	184	170×200	200×230	14	100	220	180	8-Ø18	24	120	286	406	
PVCP100-26	2900	55	243	188	271	310	630	1041	370	208	184	170×200	200×230	14	100	220	180	8-Ø18	24	123	373	496	
PVCP100-26	2900	75	264	188	271	310	630	1116	410	208	184	170×200	200×230	14	100	220	180	8-Ø18	24	123	485	607	
PVCP125-26	1450	11	239	220	238	340	700	743	255	222	192	200×250	250×300	18	125	250	210	8-Ø18	26	125	108	233	
PVCP125-26	1450	15	264	220	238	340	700	798	255	222	192	200×250	250×300	18	125	250	210	8-Ø18	26	125	129	254	
PVCP125-26	2900	55	212	220	275	340	700	1045	370	222	192	200×250	250×300	18	125	250	210	8-Ø18	26	148	373	521	
PVCP125-26	2900	75	234	220	275	340	700	1120	410	222	192	200×250	250×300	18	125	250	210	8-Ø18	26	148	485	633	
PVCP150-26	1450	15	235	260	238	360	760	798	255	245	210	200×250	250×300	18	150	285	240	8-Ø22	26	155	129	284	
PVCP150-26	1450	18.5	248	260	238	360	760	829	280	245	210	200×250	250×300	18	150	285	240	8-Ø22	26	155	157	313	
PVCP150-26	1450	22	264	260	238	360	760	869	280	245	210	200×250	250×300	18	150	285	240	8-Ø22	26	155	179	334	
PVCP200-26	1450	18.5	239	280	248	380	830	838	280	258	210	250×300	300×350	18	200	340	295	12-Ø22	30	194	157	351	
PVCP200-26	1450	22	250	280	248	380	830	878	280	258	210	250×300	300×350	18	200	340	295	12-Ø22	30	194	179	373	
PVCP200-26	1450	30	264	280	248	380	830	908	305	258	210	250×300	300×350	18	200	340	295	12-Ø22	30	210	240	450	
PVCP65-32	1450	3.0	278	138	179	290	580	504	180	200	200	170×200	200×230	14	65	185	145	4-Ø18	20	91	37	128	
PVCP65-32	1450	3.0	260	138	179	290	580	504	180	200	200	170×200	200×230	14	65	185	145	4-Ø18	20	91	37	128	
PVCP65-32	1450	4.0	306	138	179	290	580	519	190	200	200	170×200	200×230	14	65	185	145	4-Ø18	20	91	47	138	
PVCP65-32	1450	5.5	329	138	201	290	580	591	210	200	200	170×200	200×230	14	65	185	145	4-Ø18	20	95	65	160	
PVCP65-32	2900	22	265	138	2313																		

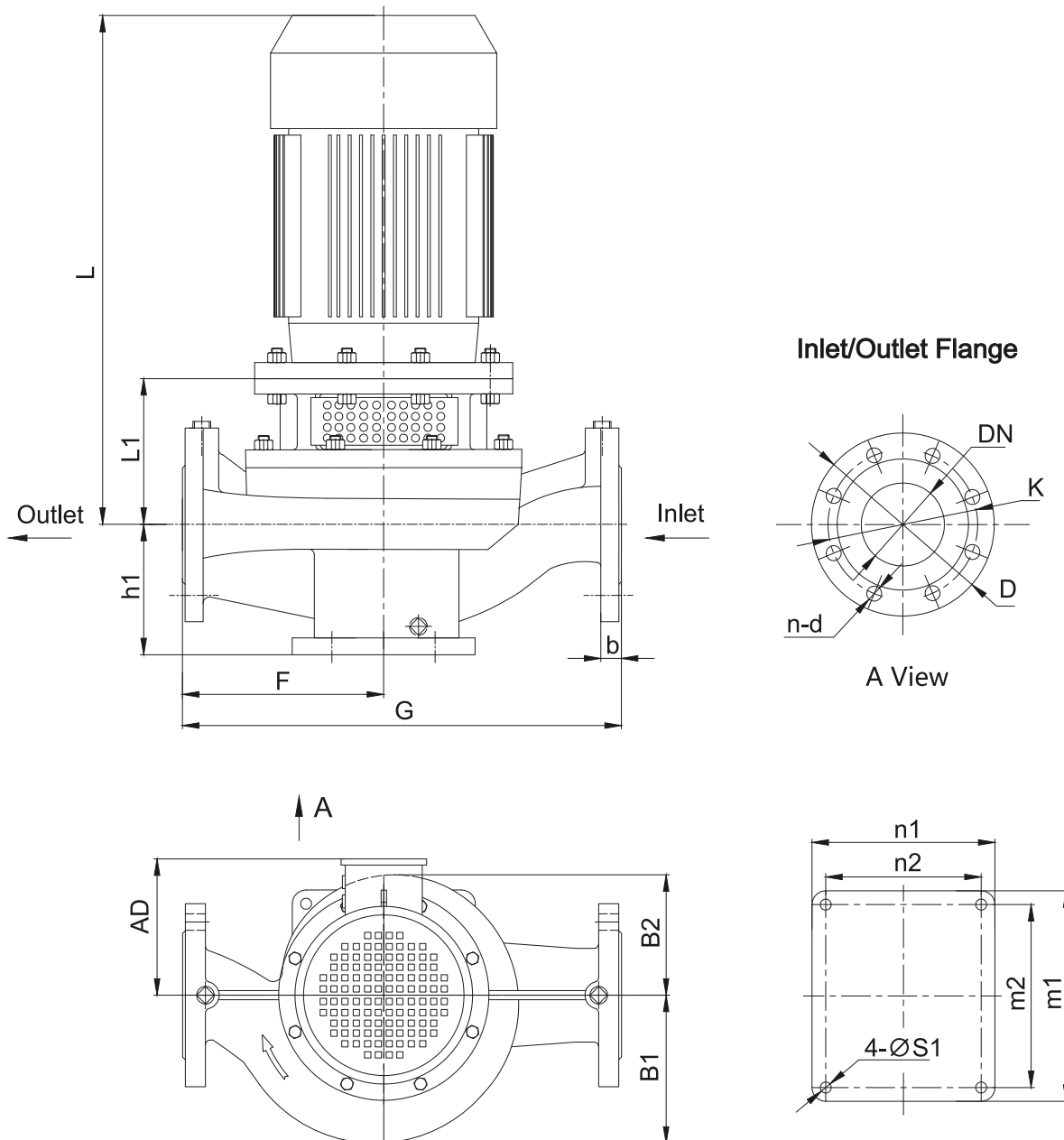
Vertical Centrifugal Pump

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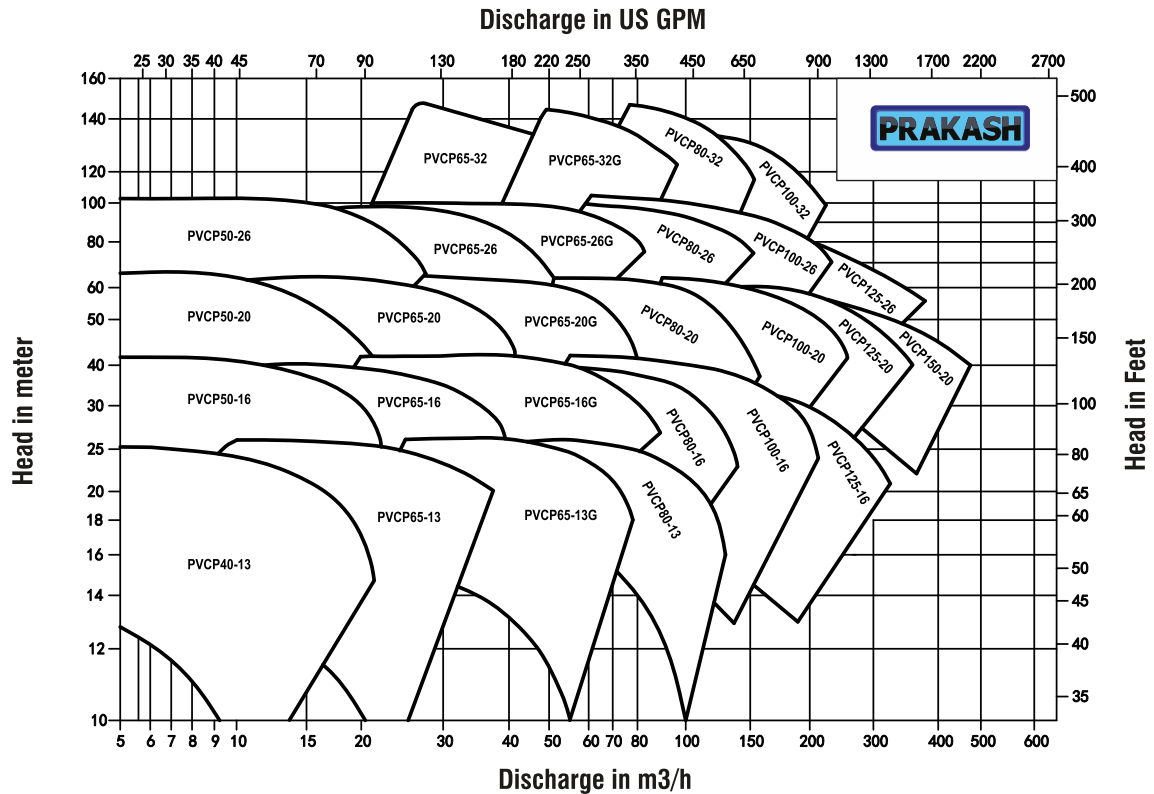
Selection & Dimension Chart 1450 & 2900RPM, 50Hz

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
PVCP150-32	1450	30	312	260	249	400	895	909	305	266	226	340×340	420×420	18	150	285	240	8-Ø22	26	198	240	438
PVCP150-32	1450	37	329	260	284	400	895	964	335	266	226	340×340	420×420	18	150	285	240	8-Ø22	26	206	301	507
PVCP200-32	1450	30	292	300	250	430	920	910	305	290	242	340×340	420×420	18	200	340	295	12-Ø22	30	241	240	481
PVCP200-32	1450	37	303	300	285	430	920	965	335	290	242	340×340	420×420	18	200	340	295	12-Ø22	30	249	301	550
PVCP200-32	1450	45	320	300	285	430	920	990	335	290	242	340×340	420×420	18	200	340	295	12-Ø22	30	249	312	562
PVCP200-32	1450	55	329	300	285	430	920	1055	370	290	242	340×340	420×420	18	200	340	295	12-Ø22	30	264	383	647
PVCP100-40	1450	18.5	342	220	249	400	800	839	280	265	248	310×310	370×370	18	100	220	180	8-Ø18	24	191	157	348
PVCP100-40	1450	22	362	220	249	400	800	879	280	265	248	310×310	370×370	18	100	220	180	8-Ø18	24	191	179	370
PVCP100-40	1450	30	409	220	249	400	800	909	305	265	248	310×310	370×370	18	100	220	180	8-Ø18	24	197	240	436
PVCP125-40	1450	22	345	240	249	380	810	879	280	285	262	200×250	250×300	18	125	250	210	8-Ø18	26	204	179	383
PVCP125-40	1450	30	376	240	249	380	810	909	305	285	262	200×250	250×300	18	125	250	210	8-Ø18	26	206	240	445
PVCP125-40	1450	37	395	240	284	380	810	964	335	285	262	200×250	250×300	18	125	250	210	8-Ø18	26	212	301	513
PVCP125-40	1450	45	409	240	284	380	810	989	335	285	262	200×250	250×300	18	125	250	210	8-Ø18	26	212	312	524
PVCP150-40	1450	37	340	250	284	400	850	964	335	296	264	250×300	300×350	18	150	285	240	8-Ø22	26	231	301	531
PVCP150-40	1450	45	365	250	284	400	850	989	335	296	264	250×300	300×350	18	150	285	240	8-Ø22	26	231	312	543
PVCP150-40	1450	55	383	250	284	400	850	1054	370	296	264	250×300	300×350	18	150	285	240	8-Ø22	26	235	383	617
PVCP150-40	1450	75	409	250	284	400	850	1129	410	296	264	250×300	300×350	18	150	285	240	8-Ø22	26	236	544	780

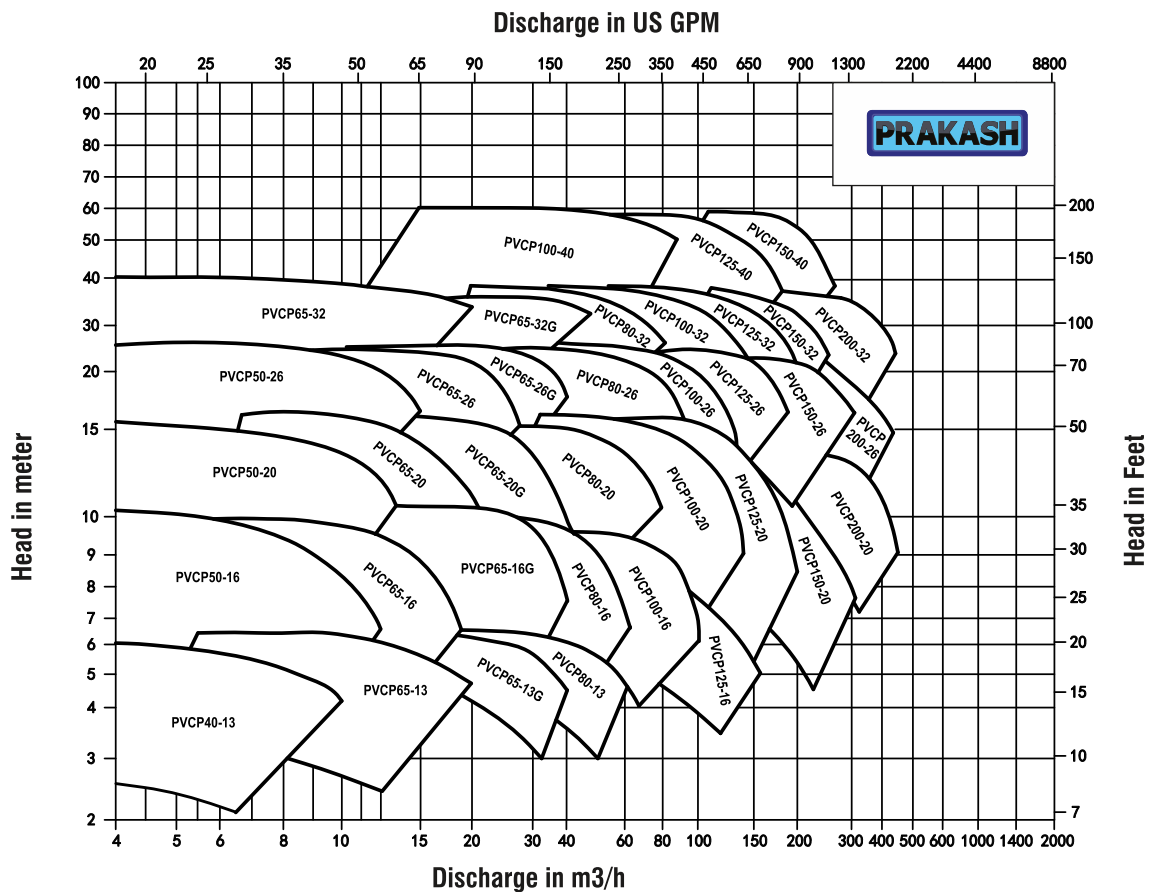
G.A Drawing



HYDRAULIC PERFORMANCE CURVE PVCP 2900RPM 50Hz



HYDRAULIC PERFORMANCE CURVE PVCP 1450RPM 50Hz



Performance to ISO9906 Grade 2 for clean cold water only

PRAKASH

Office in India

PRAKASH PUMP

Survey No. 479, Opp. Supreme Estate-1, Zak Kadadara Road, Vill. - Kadadara,
Tal. Dahegam, Gandhinagar, Gujarat 382305 INDIA E-mail: sale@prakashpump.com

Distributor Office for Middle East

PRAKASH PUMP EST

P.O. Box: 20973 Industrial Area Al Ain (United Arab Emirates)
Tel.: +971 3 7222733 Mob.: +971 50 6731283 E-mail: sale@prakashpump.com

Distributor Office for Oman

GLOBAL EQUIPMENT MATERIAL CO. LLC

P.O. Box. 227, Postal Code: 320 Nakhal Road, Barka (Sultanate of Oman)
Tel.: +968 26883982 Mob.: +968 94584686 E-mail: oman@prakashpump.com

Distributor Office for Saudi Arabia

PRAKASH PUMP INDUSTRY

P.O. Box 14327, Bldg. 3616, Al Marwah 6447, Al Mishael Riyadh City, (Kingdoms of Saudi Arabia)
Sulay Exit 18. Mobile: +966 539811109 Email: saudi@prakashpump.com

Factory Address

PANJI ENGINEERING PVT LTD

Survey No. 479, Opp. Supreme Estate-1, Zak Kadadara Road, Vill. - Kadadara,
Tal. Dahegam, Gandhinagar, Gujarat 382305 INDIA E-mail: sale@prakashpump.com



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sale@prakashpump.com / oman@prakashpump.com
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