



Quality, Reliability, Life

Vertical Centrifugal Pump



www.prakashpump.com

Vertical Centrifugal Pump

PRAKASH

Applications

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

Application Limits

- Suction: up to 3m
- 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 180 m³/h
- Head: up to 25m
- Speed: 1450 RPM
- Power: up to 11 Kw

Motor Details

- 4 pole Induction Motor IE2
- Insulation class – F
- Protection: IP55
- Voltage: 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

Design & Structure

Design	Performance referring to BS EN733/DIN24255 standard
Structure	Vertical, Single-Stage, Single-Suction, Volute, Casing, In-line, Close-coupled
DN(mm)	80-100
Flange	DIN2501 Pn16 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	-

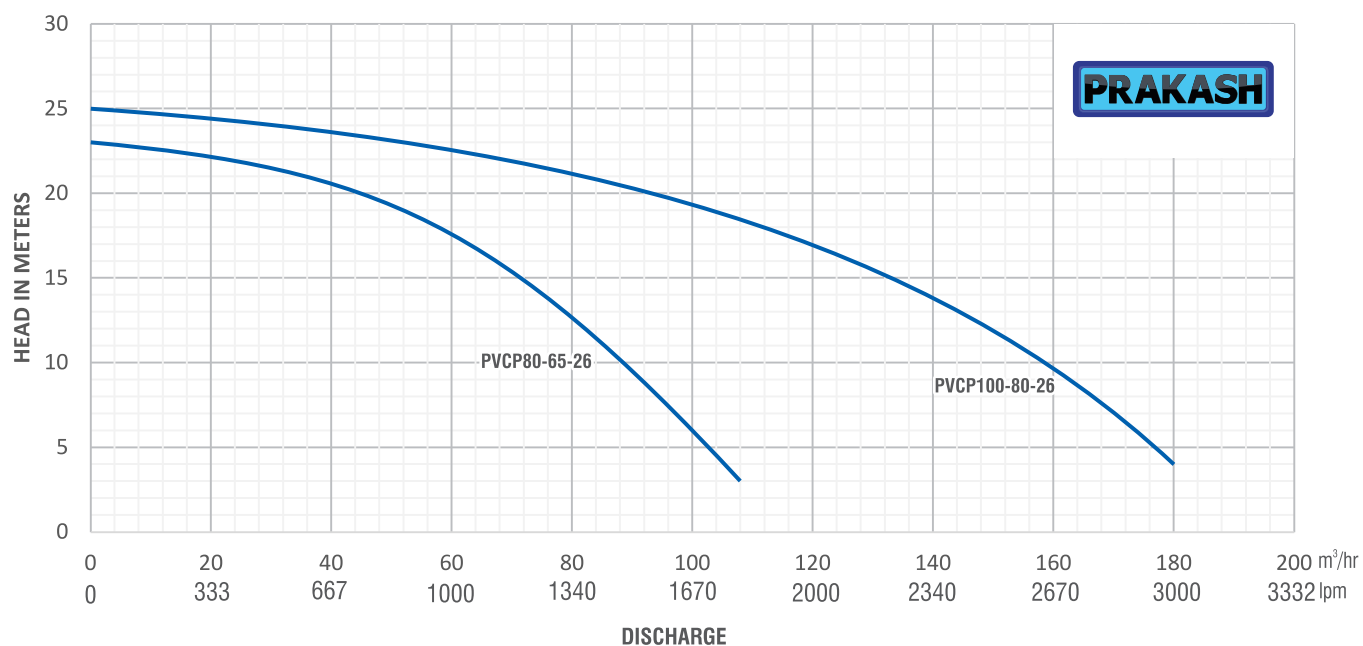
Pump Selection Chart

Model	Power		Voltage	Speed (RPM)	Outlet (Inch)	Maximum		N.W. KG	Max. Suction (M)
	KW	HP				Flow M3/h	Head Mtr		
PVCP80-65-26	5.5	7.5	380-420v	1450	3" x 3"	105	23	131	3
PVCP100-80-26	11	15	380-420v		4" x 4"	180	25	197	3

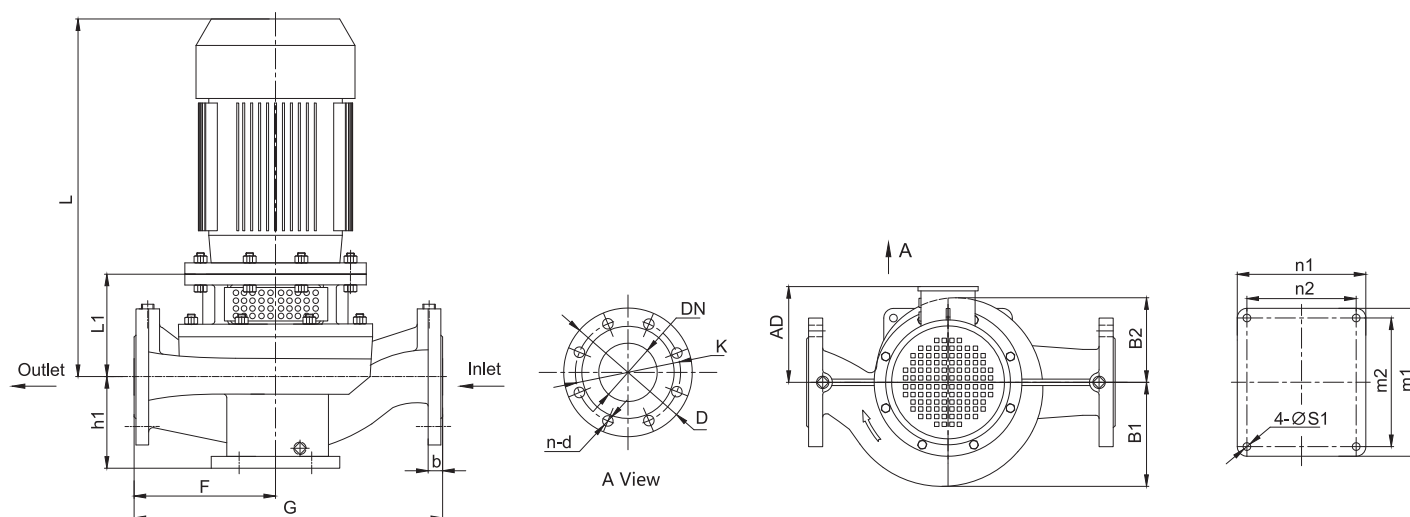
Pump Performance Curve

Model	Power		Q	US GPM	0	88	176	264	354	441	528	618	705	793
	KW	HP		M³/H	0	20	40	60	80	100	120	140	160	180
				LPM	0	333	667	1000	1340	1670	2000	2340	2670	3000
PVCP80-65-26	5.5	7.5	H (m)		23	22	21	17.5	12.5	6				
PVCP100-80-26	11	15			25	24	23.5	22.5	21.5	19.5	17	14	10	4

Performance Curve PVCP80-65-26 & PVCP100-80-26, 1450RPM, 50Hz



G.A. Drawing



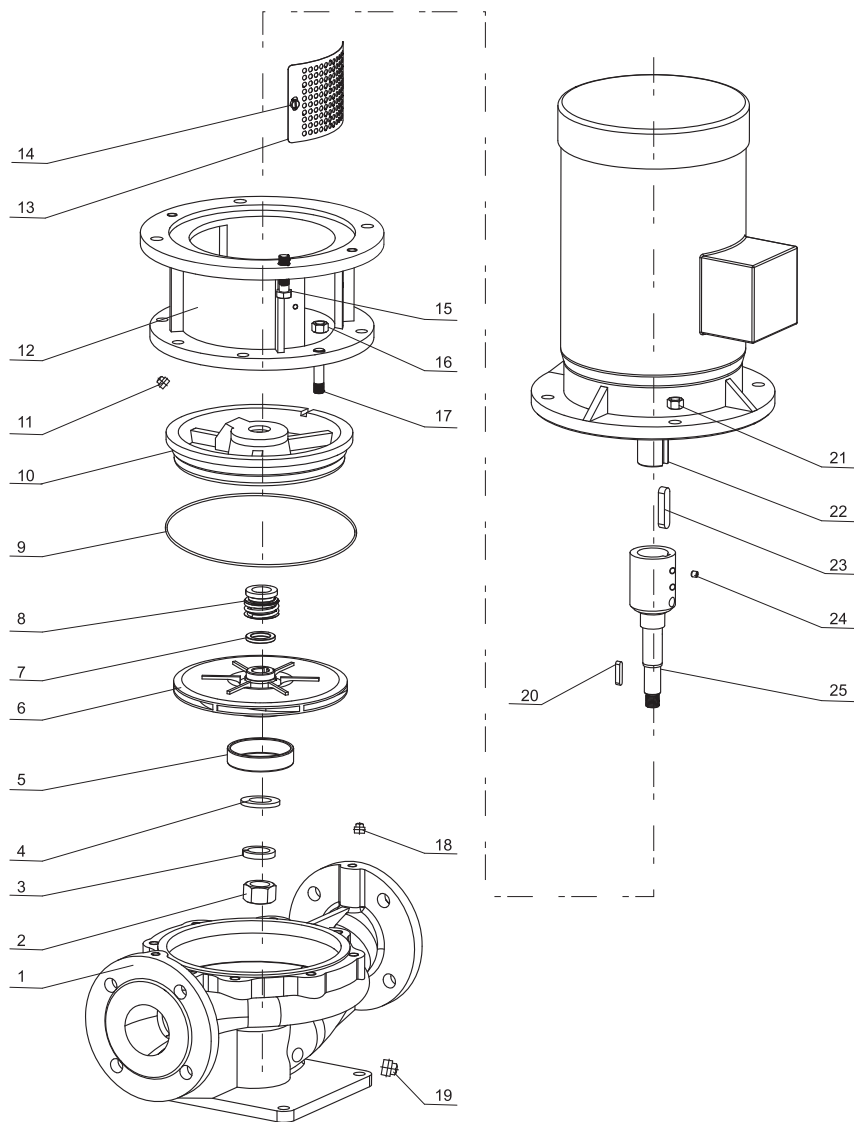
Pump Dimension

Model	Dimension in mm															
	H1	L1	F	G	L	AD	B1	B2	N2XM2	N1Xm1	S1	DN	D	K	N-D	B
PVCP80-65-26	168	202	290	590	592	210	195	170	170X200	200X230	14	80	200	160	8-Ø18	22
PVCP100-80-26	188	234	310	630	739	255	208	184	170X200	200X230	14	100	220	180	8-Ø18	24

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Exploded View



Code	Parts Name
1	Casing
2	Impeller Nut
3	Flat Washer
4	Spring Washer
5	Front-Wear Ring
6	Impeller
7	Seal Seat
8	Mech Seal
9	Casing Gasket
10	Casing Cover
11	1/4 Plug
12	Adapter
13	Guard
14	Screw
15	Screw Bolt
16	Screw Nut
17	Screw Bolt
18	1/4 Plug
19	3/8 Plug
20	Key
21	Screw Nut
22	Motor
23	Key
24	Screw
25	Shaft

PRAKASH

Office in India

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