

Series HD

CPVC Multi-Stage Horizontal Diffuser

*Flows to 104 GPM
Pressure to 74 Ft. TDH*



*Model
HD-1 1/2-2*

Features:

- Corrosion resistant
- Optimum Efficiency
- Available Single or 2-Stage: 1 1/2, 2, or 3 Hp
- Higher Pressures w/ Corresponding Moderate Flow Rates
- Diplo Springless Seal
- 316SS or Optional Titanium Shafts
- Diffuser

Recommended Applications:

- Solution Filtering
- Transfer Pumping
- Recirculation Spray/Rinse
- Photographic Processors and Developers
- OEM Wet Process Equipment
- Water and Waste Treatment

Penguin multi-stage horizontal diffuser pumps are designed for higher pressure and moderate flow rate applications. Series HD pumps create flows with pressures comparable to pumps having impellers 2 or 3 times their size with less disk friction loss. In lieu of using a single large diameter impeller, the same pressure can be obtained by utilizing two or more smaller impellers in series. Thus, smaller pump cases are needed requiring less installation space. The diffuser

vanes required to guide the fluid from one impeller to the next creates hydraulic balance radially, thus providing higher efficiency and a quiet smooth operation. Penguin diffuser pumps are constructed of CPVC and 316SS or optional titanium shaft with temperatures to 200°F. HD Series pumps are available 2-stage, 1 1/2 hp and 2 hp, and 3-stage, 2 hp or 3 hp. Three phase motors are shipped unwired.



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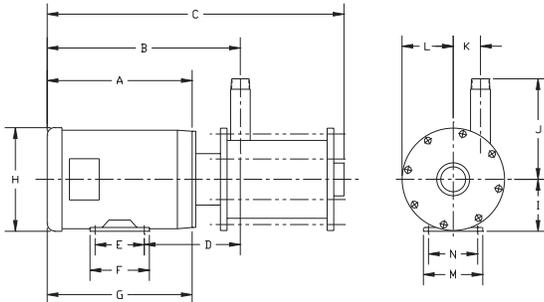
Specifications

Model	Max Flow (gpm)	Max Head (ft)	Suction	Discharge	Motor					Dimensions				
					HP	RPM	Volts	Hertz	Phase	Amps	Ht	Wth	Lth	Wt
HD-1 1/2-2	87	91	2 FPT	1 MPT	1 1/2	3450	208-230/460	60/50	3	4.9-4.6/2.3	20	9	9	41
HD-2-2	93	105			2					5.8-5.4/2.7	21			46
HD-2-3	93	132								26	58			
HD-3-3	104	150			3					7.8-7.4/3.7	27			68

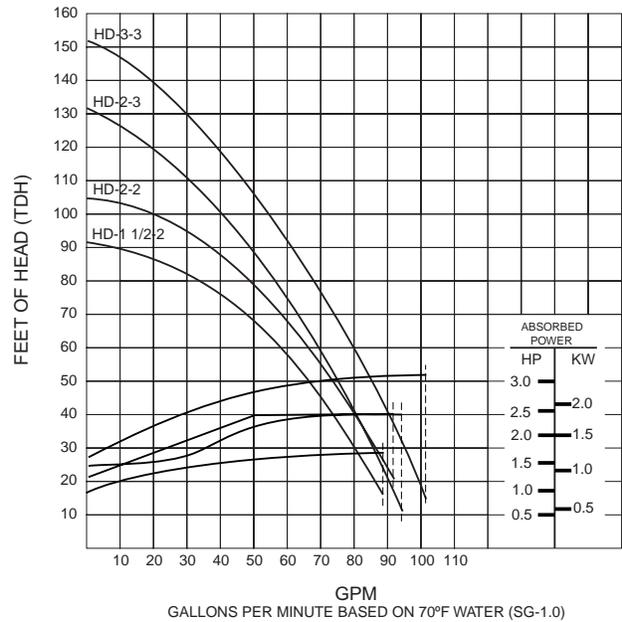
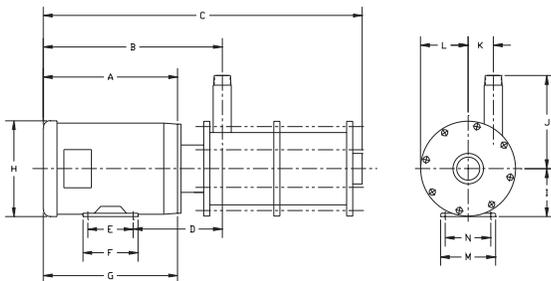
Dimensions

Model	A	B	C	D	E	F	H	I	J	K	L	M	N
HD-1 1/2-2	9 3/4	13 7/8	19 1/2	6 5/8	3	4 1/2	7	3 1/2	5	1 3/4	3 1/2	6 1/2	4 7/8
HD-2-2	11 1/4	15 3/8	20 3/4										
HD-2-3			26	7									
HD-3-3	12	16 3/8	25 3/4										

2-Stage



3-Stage



Nomenclature

HD	2	3	E
Horizontal Diffuser Pump	Horsepower 1 1/2=1 1/2 2=2 3=3	No. of Stages 2=2-stage 3=3-stage	Seal Material E=ethylene/propylene carbon/ceramic V=viton carbon/ceramic

