DRUM/BARREL PUMPS
HVDP SERIES

Sealed, High Viscosity/High Head

Progessive cavity, positive displacement, mechanically sealed pump for high viscosity liquids up to 20,000 cP (HR model) or 100,000 cP (LR model).

- Heavy duty 316SS tube construction
- Buna-N, FKM, and PTFE stator options
- FDA-compliant option
- Bellows Type 21 mechanical seal
- Unique camlock feature for quick disassembly
- Optional foot design for drums with liners









Applications:
Oils, resins, solvents*, waxes, adhesives, silicone, lotions, polymers, honey, juice concentrate, hair & bath gel, corn syrup, etc.

CONSTRUCTION SPECIFICATIONS

Pump Model	Construction Materials		Tube Dia.	Discharge	Hose Size	Max. Temp.*		Min. Temp.		Tube Lengths
	Outer Tube	Internals	in (cm)	Size & Type	in (cm)	°F	°C	°F	°C	in (cm)
HVDP-HR	316 Stainless Steel	316SS, Buna-N, PTFE or FKM	2 (5.1)	1-1/2", 2" Hose Barb†	1-1/2 (3.8), 2 (5.1)	180	82	-20	-29	27 (69) 40 (102) 48 (122)
HVDP-LR	316 Stainless Steel	316SS, Buna-N, PTFE or FKM	2 (5.1)			180	82	-20	-29	

†1-1/2" tri-clamp discharge fitting available for FDA-compliant pumps

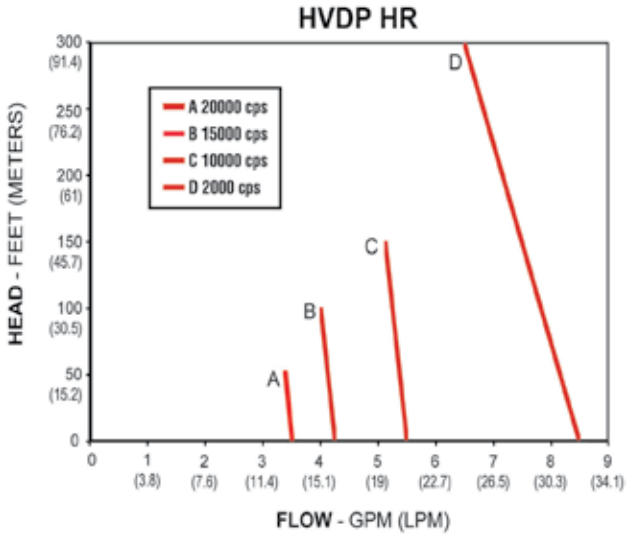
PERFORMANCE DATA

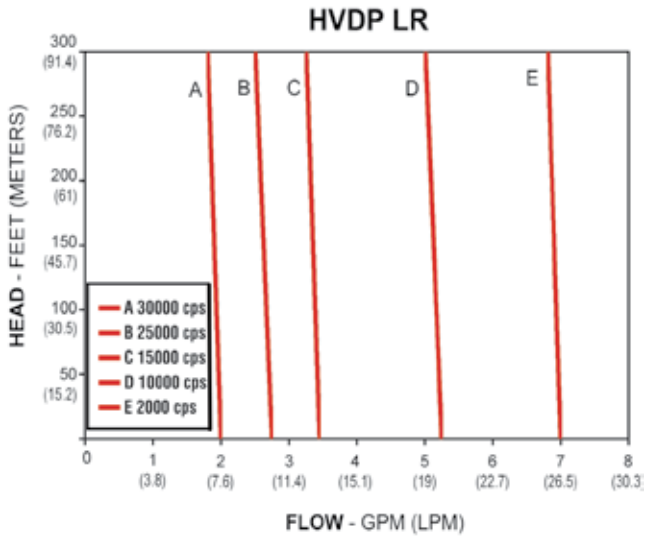
Pump Model	Maximum Flow**		Maximum Head**		Maximum Working Pressure	Maximum Specific Gravity	Maximum Viscosity - Centipoise (cP)	
	Electric gpm (lpm)	Air gpm (lpm)	Electric ft (m)	Air ft (m)			Electric	Air
HVDP-HR	9 (32)	N/A	300 (91)	300 (91)	120 psi (8 bar)	1.8	20,000	N/A
HVDP-LR	7 (27)	7 (27)	300 (91)	300 (91)	120 psi (8 bar)	1.8	100,000	100,000

Use the handy online Pump Selector at www.finishthompson.com for help choosing a pump.

*When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit.

**Testing performed with 2,000 cP liquid at 68°F (20°C). Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.





DRUM/BARREL PUMPS

MOTOR DATA



HR
TEFC (M58H, M59H, M59HCE)



LR
TEFC (M60-M64), EXP PROOF (M67, M69)



Air
(M65, M66)

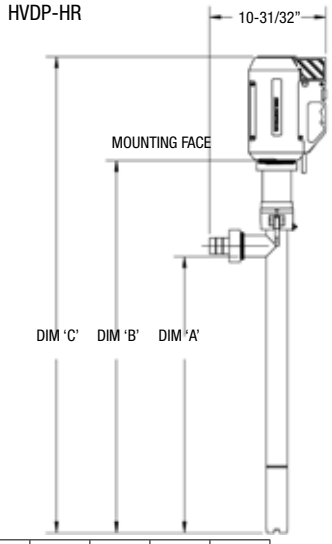
Model	Description	Certification	Requirements	Input	Output	RPM	Maximum Viscosity cP
TEFC (Totally Enclosed Fan Cooled), IP54 Motors							
M58H	Continuous duty. Variable speed. 12 ft. (3.5 m) cord and circuit breaker with manual reset. For use with HR model.	-	115V/1ph/50-60 Hz	1000 W	800 W	5,000-10,000	20,000
M59H			220V/1ph/50-60 Hz	1000 W	800 W	5,000-10,000	20,000
M59HCE		CE	220V/1ph/50-60 Hz	1000 W	800 W	5,000-10,000	20,000
M60	Continuous duty. 12 ft. (3.5 m) cord. For use with LR model.	*	115V/1ph/60 Hz	**	0.75 kW	3,450	15,000
M61			115V/1ph/60 Hz	**	1.1 kW	3,450	30,000
M62			115V/1ph/60 Hz	**	1.5 kW	3,450	100,000
M63			230V/3ph/50-60 Hz	**	0.75 kW	2,850/3,450	15,000
M64			230V/3ph/50-60 Hz	**	1.5 kW	2,850/3,450	100,000
Explosion Proof Motors							
M67	Suitable for use in hazardous areas, ideal for flammable liquids. Continuous duty.	*	115V/1ph/60 Hz	**	0.75 kW	3,450	15,000
M69		*		**	1.5 kW	3,450	100,000
M72		*	230V/3ph/50-60 Hz	**	1.5 kW	3,450	100,000
Air Motors‡†							
M65	Lightweight. Variable speed. Operates from customer supplied compressed air source. Muffler and control valve supplied.	CE	100 psi @ 25 cfm	-	0.55 kW	300-3,000	15,000
M66		CE	100 psi @ 70 cfm	-	1.1 kW	300-3,000	100,000

*Carries independent testing laboratory approval. **Input power for induction motors will vary by manufacturer. †Motor suitable for hazardous areas that do not require independent certification.
‡An air motor is a non-electrical device meaning possibility of explosion from igniting flammables/combustibles is reduced. Air motor performance will depend upon user's system setup.
Note: Motor adapters are also available to permit installation of customer supplied NEMA or IEC motors.

DIMENSIONS



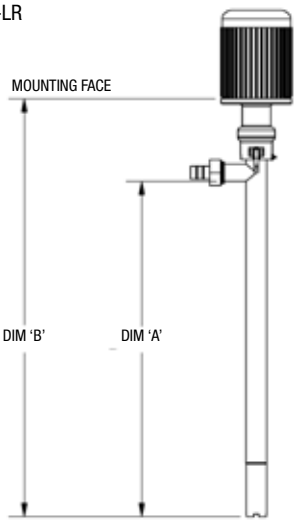
HVDP-HR



MODEL	DIM 'A' (IN.)	DIM 'A' (MM)	DIM 'B' (IN.)	DIM 'B' (MM)	DIM 'C' (IN.)	DIM 'C' (MM)
HVDP-27	26	660.4	35-1/16	889.8	44-7/8	1138.2
HVDP-40	39	990.6	48-1/16	1220	57-7/8	1468.4
HVDP-48	47	1193.7	56-1/16	1423.2	65-7/8	1671.6



HVDP-LR



MODEL	DIM 'A' (IN.)	DIM 'A' (MM)	DIM 'B' (IN.)	DIM 'B' (MM)
HVDP-27	26	660.4	35-10/16	904.2
HVDP-40	39	990.6	48-10/16	1234.4
HVDP-48	47	1193.7	56-10/16	1437.6

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