

HVDP Series Drum Pumps



FINISH THOMPSON INC.

Sealed, High Viscosity/High Head

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

- Features:**
- 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

Camlock



Foot



HVDP-HR



HVDP-LR



Tube Lengths

27" (69cm), 40" (102cm), 48" (122cm)

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. in (cm)	Discharge Size & Type	Hose Size in (cm)	Max. Temp.		Min. Temp.	
	Outer Tube	Internals				°F	°C	°F	°C
HVDP-HR	316 Stainless Steel	316 Stainless Steel, 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
HVDP-LR	316 Stainless Steel	316 Stainless Steel, Buna-N, PTFE or FKM	2 (5.1)			180	82	-20	-29

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

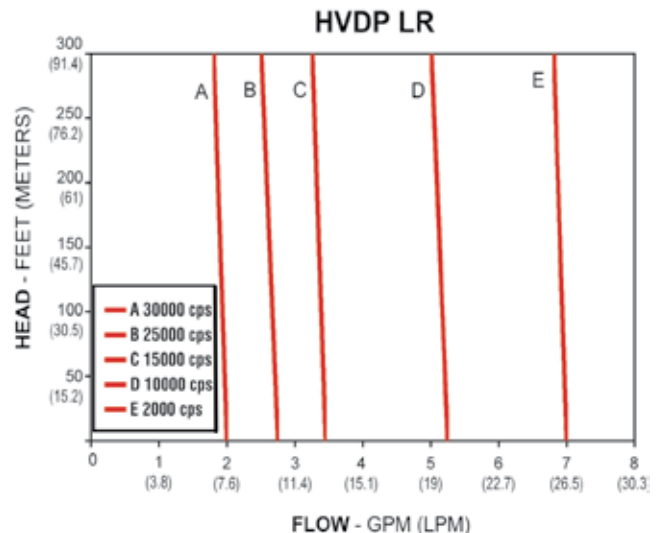
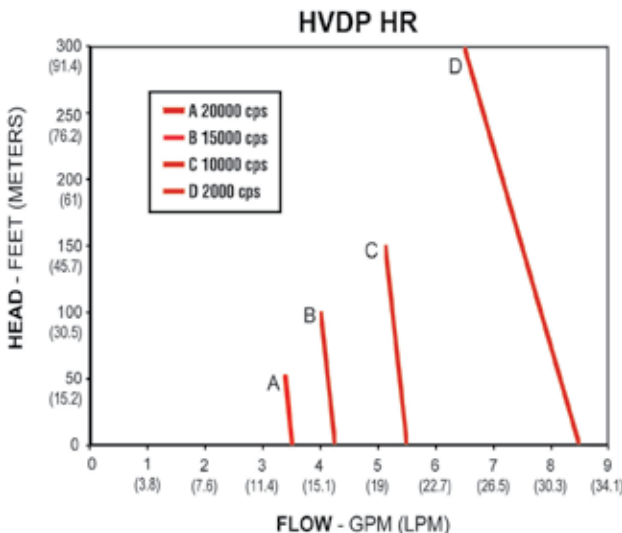
Consult FTI's Chemical Resistance Chart (<http://www.finishthompson.com/downloads/drum-pumps/technical-flyers>) before selecting pump material.

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)				
HVDP-LR	7 (27)	7 (27)	300 (91)	300 (91)	120 psi (8 bar)	1.8	100,000	100,000

*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.



Flow rates are dependent on the properties of the fluid and its ability to flow freely into the pump intake. Expected flow rates for fluids above 30,000 cP are 1 to 3 gpm (3.8 to 11 lpm).

Need help choosing a pump?
Use the handy online Pump Selector at:
www.finishthompson.com.





HR
TEFC (M58H, M59H, M59HCE)

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

Air
(M65, M66)

Model	Description	Type	Certification	Electrical Requirements	Power		RPM	Max. Viscosity cP
					HP	W		
TEFC (Totally Enclosed Fan Cooled), IP54 Motors (see description for HR or LR model)								
M58H	Continuous duty. Features 12 ft. (3.5 m) cord and circuit breaker w/ manual reset. (M58H features NEMA 5-15 Type B plug). For use with HR model.	Universal - Variable Speed	CE	115VAC/50-60 Hz	1-1/3	1000	5000/10000	20,000
M59H				220VAC/50-60 Hz	1-1/3	1000	5000/10000	20,000
M59HCE				220VAC/50-60 Hz	1-1/3	1000	5000/10000	20,000
M60	Continuous duty. 12 ft. (3.5 m) cord. For use with LR model.	Induction	*	115VAC/60 Hz	1	745	3450	15,000
M61				115VAC/60 Hz	1-1/2	1118	3450	30,000
M62				115VAC/60 Hz	2	1491	3450	100,000
M63				230VAC/50-60 Hz	1	745	2850/3450	15,000
M64				230VAC/50-60 Hz	2	1491	2850/3450	100,000

Explosion Proof Motors (for use with LR5 model)

M67	Suitable for use in hazardous areas, ideal for flammable liquids. TEFC housing. Continuous duty rated.	TEFC, Exp-proof	*	115VAC/60 Hz	1	745	3450	15,000
M69			*		2	1491	3450	100,000

Air Motors^{†‡} (for use with LR4 model)

M65	Lightweight. Operates from customer-supplied compressed air source. Variable speed. Muffler and control valve supplied.	Air	CE	100 psi @ 25 cfm	3/4	560	300-9,000	15,000
M66			CE	100 psi @ 70 cfm	1-1/2	1118	300-6,000	100,000

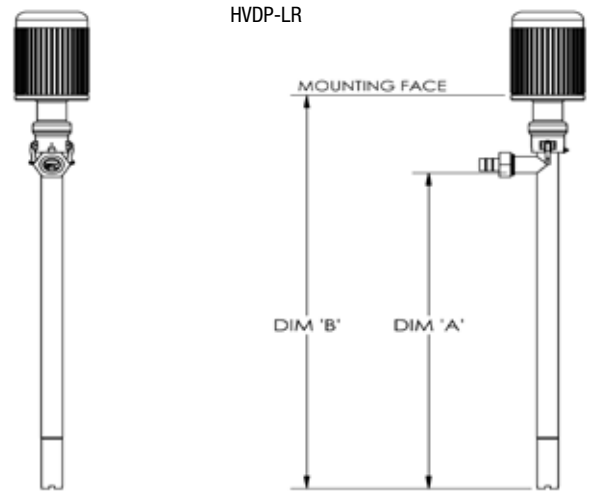
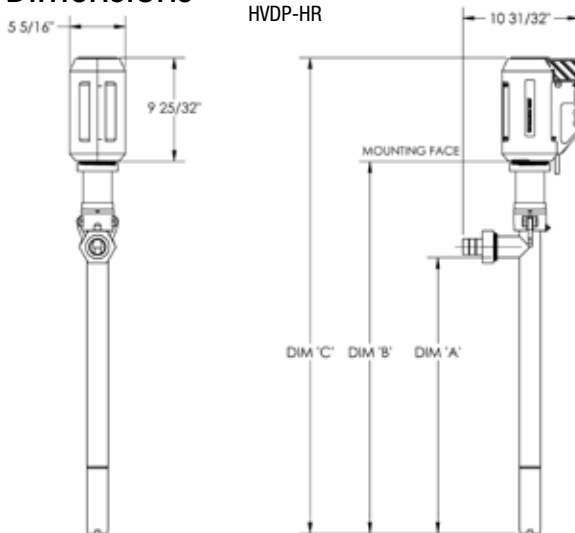
[†]An air motor is a non-electrical device meaning possibility of explosion from igniting flammables/combustibles is reduced. Air motor performance will depend upon user's system setup.

[‡]Motor suitable for hazardous areas that do not require independent certification.

*Carries independent testing laboratory approval.

Motor adapters are also available to permit installation of customer supplied NEMA or IEC motors.

Dimensions



MODEL	DIM 'A' (IN.)	DIM 'A' (MM)	DIM 'B' (IN.)	DIM 'B' (MM)	DIM 'C' (IN.)	DIM 'C' (MM)
HVDP27	26	660.4	35 1/16	889.8	44 7/8	1130.2
HVDP40	39	990.6	45 1/16	1120.0	57 7/8	1469.4
HVDP48	47	1193.8	56 1/16	1423.2	69 7/8	1771.6

MODEL	DIM 'A' (IN.)	DIM 'A' (MM)	DIM 'B' (IN.)	DIM 'B' (MM)
HVDP27	26	660.4	35 10/16	904.2
HVDP40	39	990.5	48 10/16	1234.4
HVDP48	47	1193.8	56 10/16	1437.6

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

Accessories

