

Versatile, Reliable Pumps for a Wide Range of Applications

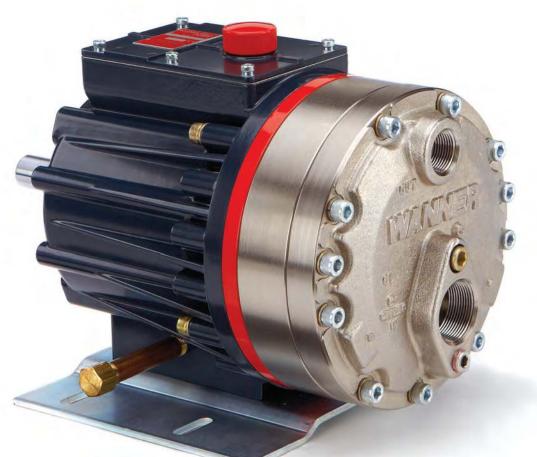


- Pumps the full spectrum of low-to-high viscosity fluids.
- Features a seal-less design and horizontal disk check valves that enable the pump to handle abrasives and particulates that might damage or destroy other types of pumps.
- Simple, compact design reduces initial investment and lowers maintenance costs.
- Operational efficiencies reduce energy costs.
- Able to run dry without damage (or additional maintenance) to the pump in case of accident or operator error.
- Tolerates non-ideal operating conditions.
- Minimizes maintenance and downtime because there are no mechanical or dynamic seals, packing, or cups to leak, wear, or replace.



H25 Series

Maximum Flow Rate:20.0 gpm (75.9 l/min)Maximum Pressure:1000 psi (69 bar) for Metallic Pump Heads350 psi (24 bar) for Non-metallic Pump Heads



H25 with Cast Iron pump head.



H25 with Brass pump head.

H25 with Polypropylene pump head.

H25 with 316L Stainless Steel pump head and ANSI flanges.

H25 Series Performance

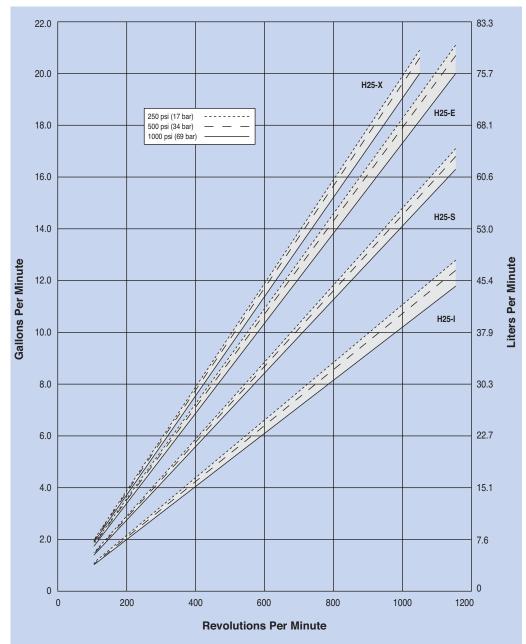
Capacities

Flow				Pressure
	Max. Input		si (69 bar)	Maximum Inle
Model	rpm	gpm	l/min	250 psi (17 ba -
H25-X	1050	20.0	75.7	Maximum Disc
H25-E	1150	20.0	75.9	Metallic Pump
H25-S	1150	16.2	61.5	1000 psi (6 Non-metallic I
H25-I	1150	11.8	44.7	250 psi (17

et Pressure ar)

charge Pressure Heads: 69 bar) Pump Heads: 7 bar) Polypropylene 350 psi (24 bar) PVDF

Performance and specification ratings apply to H25 configurations unless specifically noted otherwise.



Maximum Flow at Designated Pressure



H25 Series Specifications

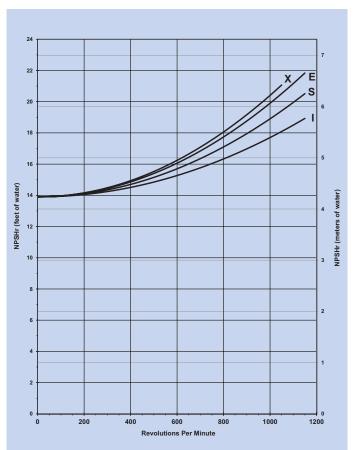
Flow Capacitie	es @1000	psi (69 bar)			
Model	rpm	gpm	l/min		
H25-X	1050	20.0	75.7		
H25-E	1150	20.0	75.9		
H25-S	1150	16.2	61.5		
H25-I	1150	11.8	44.7		
Delivery @10	00 psi (69	bar)			
Model	gal/rev	liters/rev			
H25-X	0.0190	0.0721			
H25-E	0.0174	0.0660			
H25-S	0.0141	0.0535			
H25-I	0.0103	0.0389			
Maximum Dise	charge Pre	ssure			
Metallic Heads	:	1000 psi (69 bar)			
Non-metallic H	leads:	250 psi (17 bar) Polypropylene			
		350 psi (24 bar) PVI)F		
Maximum Inle	et Pressure	250 psi (17 bar)			
Maximum Ope	erating Ten	1perature			
Metallic Heads:		250°F (121°C) - Consult factory for correct			
		component selection for temperatures from $160\degree$ F			
		(71°C) to 250°F (1	21°C).		
Non-metallic Heads:		140°F (60°C)			
Maximum Soli	ds Size	800 microns			
Inlet Port		1-1/2 inch NPT			
		150lb ANSI RF flange			
Discharge Por	t	1 inch NPT			
		600lb ANSI RF flange			
Shaft Diamete	er	1-1/8 inch (28.6 mm)			
Shaft Rotation	l	Reverse (bi-directional)			
Bearings		Tapered roller bearings			
Oil Capacity		3.3 US quarts (3.1 liters)			
Weight					
Metallic Heads	:	125 lbs. (56.8 kg)			
Non-metallic H	-2hnal	90 lbs. (40.9 kg)			

Calculating Required Power

50 x rpm 63,000	+ gpm x psi 1,460	=	electric motor hp
50 x rpm 84,428	+ $\frac{l/\min x \text{ bar}}{511}$	=	electric motor kW

When using a variable frequency drive (VFD) controller, calculate the hp or kW at minimum and maximum pump speed to ensure the correct hp or kW motor is selected. Note that motor manufacturers typically de-rate the service factor to 1.0 when operating with a VFD.

Net Positive Suction Head (NPSHr)



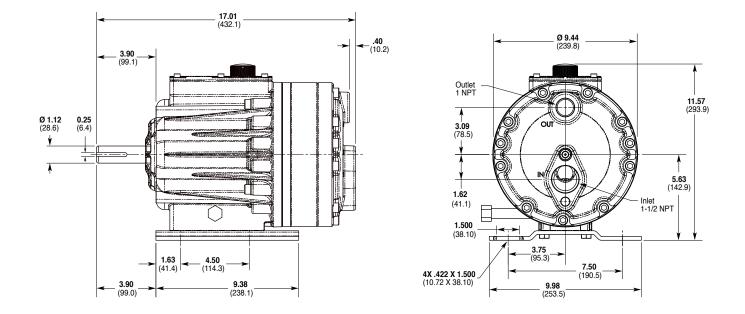
Note: Positive inlet pressure required with PTFE diaphragms.

Self-priming:

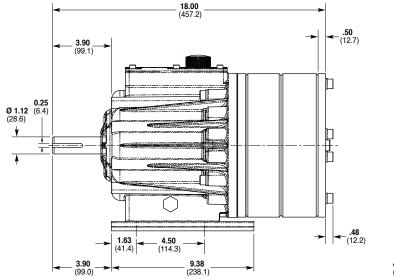
Each Hydra-Cell pump has different lift capability depending on model size, cam angle, speed, and fluid characteristics. To ensure that your specific lift characteristics are met, refer to the inlet calculations regarding friction, and acceleration head losses in your Hydra-Cell Installation & Service Manual. Compare those calculations to the NPSHr curves above.

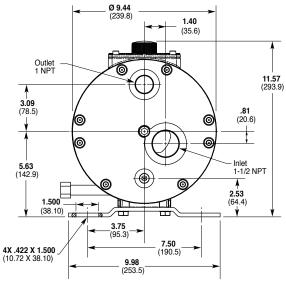
H25 Series Representative Drawings

H25 Models with Metallic Pump Head Inches (mm)



H25 Models with Non-metallic Pump Head Inches (mm)





Note: Contact factory for additional drawings of specific models and configurations.

H25 Series Adapters/Valves

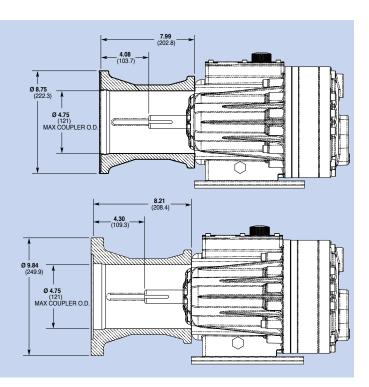
Pump/Motor Adapter Inches (mm)

Part Number: A04-041-1200

For: 182TC, 184TC, 213, 215TC, 254 and 256TC frame motors. Metric adapter available - consult factory.

Part Number: A04-042-1200

For: 284TC and 286TC frame motors. Metric adapter available - consult factory.



Valve Selection

A seal-less C63 Pressure Regulating Valve is recommended for Hydra-Cell H25 pumping systems, especially for highpressure requirements or when handling dirty fluids.



A C23 Pressure Regulating Valve provides a capable, lower-cost alternative to C63 valves for Hydra-Cell H25 pumping systems.





For complete specifications and ordering information, consult the Hydra-Cell Master Catalog.

H25 Series How to Order



Digit	Order Code	Description	Digit	Order Code	Description
1-3		Pump Configuration	9		Valve Material
	H25	Shaft-driven (NPT Ports or ANSI Flanges)*		C	Ceramic
		*Pump/motor adapters ordered separately.		D	Tungsten Carbide
		See previous page.		F	17-4 Stainless Steel
4	Х	Hydraulic End Cam Max 20.0 gpm (75.7 l/min) @ 1050 rpm		Ν	Nitronic 50
	E	Max 20.0 gpm (75.9 l/min) @ 1150 rpm		Т	Hastelloy C
	S	Max 16.2 gpm (61.5 l/min) @ 1150 rpm	10		Valve Springs
	ĩ	Max 10.2 gpm (01.8 ymm) @ 1100 ppm Max 11.8 gpm (44.7 l/min) @ 1150 rpm		E	Elgiloy
5		Pump Head Version		Н	17-7 Stainless Steel
	К	Kel-Cell NPT Ports		Т	Hastelloy C
	M	Machined housing to accept C-face adapter/gearbox	11		Valve Spring Retainers
5		Pump Head Material		C	Celcon
	В	Brass		Н	17-7 Stainless Steel (used with metallic heads only)
	C	Cast Iron (Nickel-plated)		М	PVDF
	G	Duplex Alloy 2205 (with Hastelloy C followers &		Р	Polypropylene
	М	follower screws) PVDF (with Hastelloy C followers & follower screws)		Т	Hastelloy C (used with metallic heads only)
	N	Polypropylene (with Hastelloy C followers & follower		Y	Nylon (Zytel)
	N	screws)	12		Hydra-Oil
	Р	Polypropylene (with 316L Stainless Steel followers &		Α	10W30 standard-duty oil
		follower screws)		В	40-wt for continuous-duty oil (use with 316L SST or
	R	316L Stainless Steel ANSI flange class 150 x 600			Hastelloy CW12MW pump head - standard)
	S	316L Stainless Steel		C	EPDM-compatible oil
7	T	Hastelloy CW12MW Diaphragm & O-ring Material		E	Food-contact oil
/	А	Aflas diaphragm / PTFE o-ring		G	5W30 cold-temp severe-duty synthetic oil
	E	EPDM (requires EPDM-compatible oil - Digit 12 oil		Н	15W50 high-temp severe-duty synthetic oil
		code C)	H25 Pump Housing is standard as Cast Aluminum.		
	G	FKM	Upgrade to Ductile Iron available.		
	J	PTFE (available with E and S cams only; 1050 rpm	Consult the Hydra-Cell Master Catalog for:		
		max.)			
	Р	Neoprene	 Motors, bases, couplings and other pump accessories 		
	Т	Buna-N	Hydra-Oil selection and specification information		
3		Valve Seat Material	• Design considerations, installation guidelines, and other technical		
	C	Ceramic	assistance in pump selection		
	D	Tungsten Carbide			
	Н	17-4 Stainless Steel			
	Ν	Nitronic 50			
	Т	Hastelloy C			



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