H25 PRO SERIES Maximum Flow Rate: 20.0 gpm (75.9 l/min) Maximum Pressure: 1000 psi (69 bar) for M

Maximum Flow Rate: 20.0 gpm (75.9 l/min) Maximum Pressure: 1000 psi (69 bar) for Metallic Pump Heads 350 psi (24 bar) for Non-metallic Pump Heads

WANNER[™] HYDRA-CELL[®] PRO SEAL-LESS PUMP TECHNOLOGIES



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.

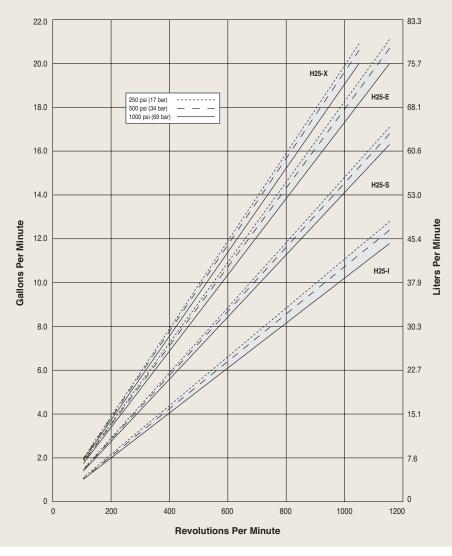
- Able to run dry without damage (or additional maintenance) to the pump in case of accident or operator error.
- Tolerates non-ideal operating conditions.
- Minimizes maintenance and downtime because there are no mechanical or dynamic seals, packing, or cups to leak, wear, or replace.



Capacities

Model	Max. Input rpm	Max. Flow Capacities @1000 psi (69 bar) gpm I/min			inlet ssure bar	N Metallic Heads psi bar		lax. Discharge Pressu Polypropylene Heads psi bar		re PVDF Heads psi bar	
H25-X	1050	20.0	75.7	250	17	1000	69	250	17	350	24
H25-E	1150	20.0	75.9	250	17	1000	69	250	17	350	24
H25-S	1150	16.2	61.5	250	17	1000	69	250	17	350	24
H25-I	1150	11.8	44.7	250	17	1000	69	250	17	350	24

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



Maximum Flow at Designated Pressure

Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.



H25 Pro Series | Specifications

Flow Capacities @100	JU psi (69 k	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 @1000 psi (69	9 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 Discharge	Pressure						
Metallic Heads:		1000 psi (69 bar)					
Non-metallic Heads:		250 psi (17 bar) Polypropylene					
		350 psi (24 bar) PVDF					
Maximum Inlet Press	ure 250 p	osi (17 b	oar)				
Maximum Operating	Temperati	ure					
Metallic Heads:	250°F	= (121°C)				
	Cons	Consult factory for correct component					
		selection for temperatures from 160°F					
	(71°C	(71°C) to 250°F (121°C).					
Non-metallic Heads:	140°F	= (60°C)					
Maximum Solids Size	1 008	800 microns					
Inlet Port	1-1/2	1-1/2 inch NPT					
	150lb) ANSI R	F flange				
Discharge Port	1 inc	1 inch NPT					
-	600lt) ANSI R	E flange				

Calculating Required Power

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

Attention!

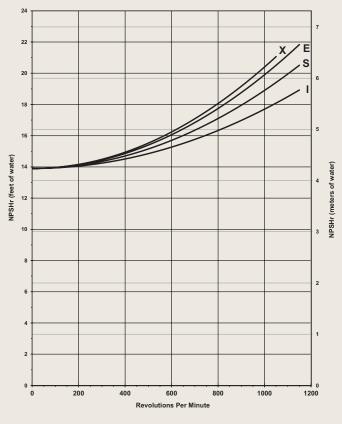
When using a variable frequency drive (VFD) controller, calculate the hp or kW at minimum and maximum pump speed to ensure the correct hp or kW motor is selected. Note that motor manufacturers typically de-rate the service factor to 1.0 when operating with a VFD.

Calculating Pulley Size

motor pulley OD	_	pump pulley OD
pump rpm		motor rpm

Shaft Diameter	1-1/8 inch (28.6 mm)
Shaft Rotation	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 Heads:	90 lbs. (40.9 kg)

Net Positive Suction Head (NPSHr)



Note: Positive inlet pressure required with PTFE diaphragms.

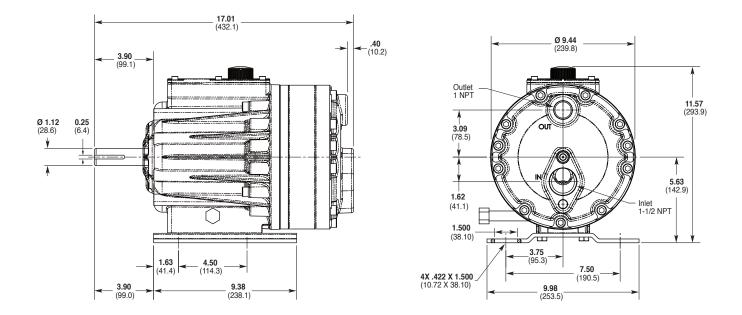
Suction Lift

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 Product Manual. Compare those calculations to the NPSHr curves above.

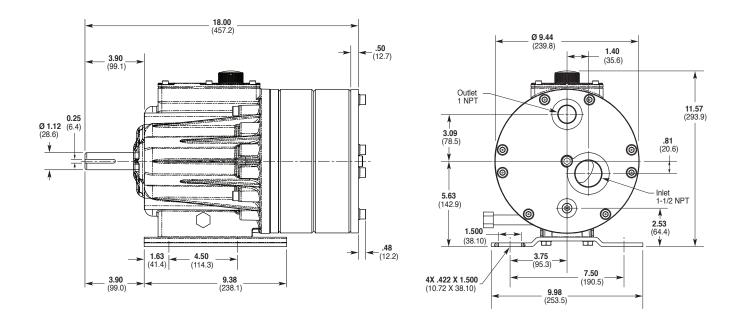
Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.







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



Note: Dimensions are for reference only. Contact factory for certified drawings.

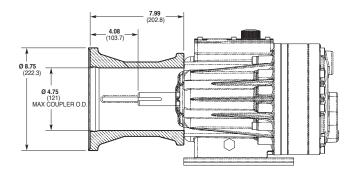


Pump/Motor Adapter Inches (mm)

Part Number: A04-041-1200

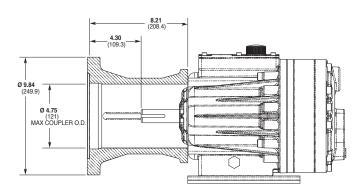
For: 182TC, 184TC, 213, 215TC, 254 and 256TC frame motors.

Metric adapter available - consult factory.



Part Number: A04-041-1202

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



Note: Dimensions are for reference only. Contact factory for certified drawings.

Valve Selection

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



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



Skid-mounted H25 with 15hp, 3-phase motor.

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



Ordering Information

A complete H25 Series Model Number contains 12 digits including 9 customer-specified design and materials options, for example: H25XKCGNNECA.



Digit	Order Code	Description	Digit	Order Code	Description
1-3		Pump Configuration	9		Valve Material
	H25	Shaft-driven (NPT Ports or ANSI Flanges)*		С	Ceramic
		*Pump/motor adapters ordered separately.		D	Tungsten Carbide
		See previous page.		F	17-4 Stainless Steel
4		Hydraulic End Cam		Ν	Nitronic 50
-	Х	Max 20.0 gpm (75.7 l/min) @ 1050 rpm		Т	Hastelloy C
	E	Max 20.0 gpm (75.9 l/min) @ 1150 rpm	10		Valve Springs
	S	Max 16.2 gpm (61.5 l/min) @ 1150 rpm	10	Е	Elgiloy
	I	Max 10.2 gpm (44.7 l/min) @ 1150 rpm		H	17-7 Stainless Steel
				T	Hastelloy C
5	IZ.	Pump Head Version			· ·
	K	Kel-Cell NPT Ports	11	0	Valve Spring Retainers
	Μ	Machined housing to accept C-face		С	Celcon
		adapter/gearbox		Н	17-7 Stainless Steel (used with metallic heads only)
6		Pump Head Material		Μ	PVDF
	В	Brass		P	Polypropylene
	С	Cast Iron (Nickel-plated)		T	Hastelloy C (used with metallic heads only)
	G	Duplex Alloy 2205 Stainless Steel (with Hastelloy C		Y	Nylon (Zytel)
		followers & follower screws)	12		Hydra-Oil
	М	PVDF (with Hastelloy C followers & follower		А	10W30 standard-duty oil
		screws)		В	40-wt for continuous-duty oil (use with 316L SST
	Ν	Polypropylene (with Hastelloy C followers &			or Hastelloy CW12MW pump head - standard)
		follower screws)		С	EPDM-compatible oil
	Р	Polypropylene (with 316L Stainless Steel followers		Е	Food-contact oil
		& follower screws)		G	5W30 cold-temp severe-duty synthetic oil
	R	316L Stainless Steel ANSI flange class 150 x 600		Н	15W50 high-temp severe-duty synthetic oil
	S	316L Stainless Steel			
	Т	Hastelloy CW12MW	H25	5 Pump H	lousing is standard as Cast Aluminum.
7		Diaphragm & O-ring Material			Ductile Iron available.
	А	Aflas diaphragm / PTFE o-ring			
	E	EPDM (requires EPDM-compatible oil –			
		Digit 12 oil code C)			
	G	FKM			
	J	PTFE (available with E and S cams only;			
		1050 rpm max.)			
	Р	Neoprene			
	Т	Buna-N			
8		Valve Seat Material			
	С	Ceramic			
	D	Tungsten Carbide			
	Н	17-4 Stainless Steel			
	Ν	Nitronic 50			
	Т	Hastelloy C			



D10 Pro Series | Options

Consult the Hydra-Cell Master Catalog for:

- Motors, bases, couplings and other pump accessories
- Hydra-Oil selection and specification information
- Design considerations, installation guidelines, and other technical assistance in pump selection





H25 Pro with Brass pump head.

H25 Pro with Polypropylene pump head.

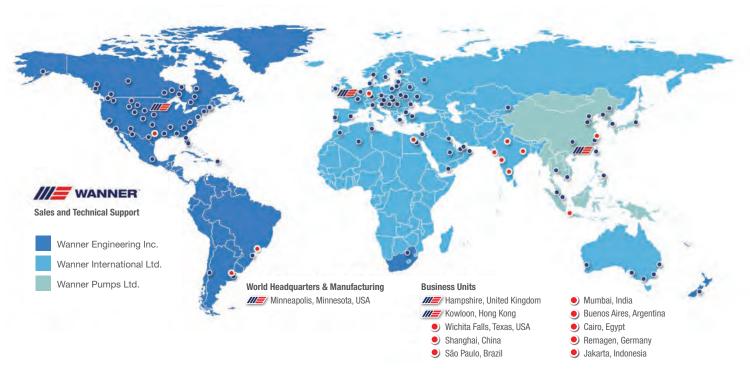
H25 Pro with 316L Stainless Steel pump head and ANSI flanges.



WANNER[™] HYDRA-CELL[®] PRO

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