

Versatile, Reliable Pumps for a Wide Range of Applications



G25 Series

- 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.



G25 Series

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





G25 with Brass pump head.



G25 with Polypropylene pump head.



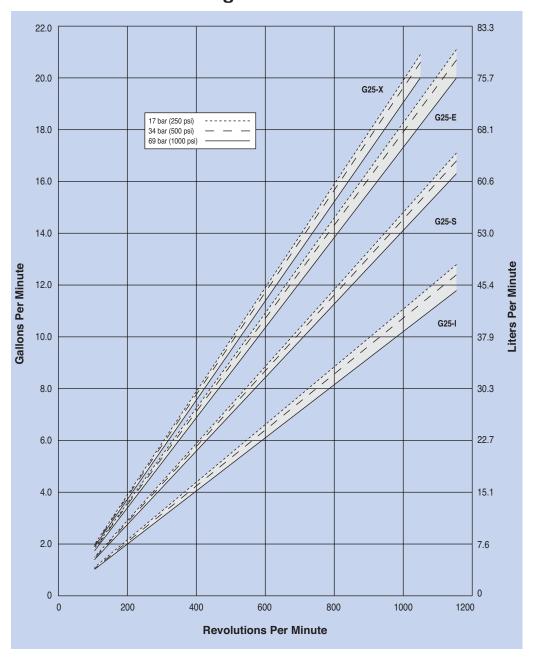
G25 with 316L Stainless Steel pump head and ANSI flanges.

G25 Series Performance

Capacities

Flow				Pressure		
Model	Max. Input rpm		. Flow si (69 bar) I/min	Maximum Inlet Pressure 250 psi (17 bar)		
G25-X	1050	20.0	75.7	- Maximum Discharge Pressure		
G25-E	1150	20.0	75.9	Metallic Pump Heads:		
G25-S	1150	16.2	61.5	1000 psi (69 bar)		
G25-I	1150	11.8	44.7	Non-metallic Pump Heads: 250 psi (17 bar) Polypropylene 350 psi (24 bar) PVDF		
Performance and specification ratings apply to G25 configurations unless specifically noted otherwise.						

Maximum Flow at Designated Pressure



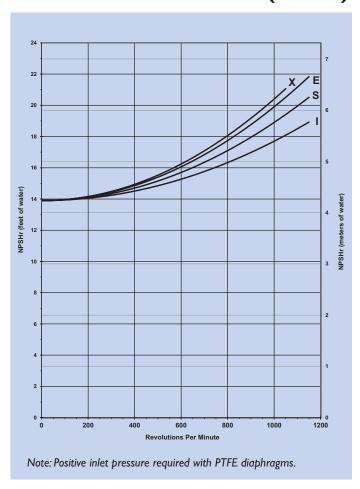


G25 Series Specifications

-		(1000 psi) 6-pole M		
Model	rpm	gpm	l/min	
G25-X	960	18.2	69.0	
G25-E	960	16.6	63.0	
G25-S	960	13.2	50.0	
G25-I	960	9.5	36.0	
-		(1000 psi) 8-pole M		
Model	rpm	gpm	l/min	
G25-X	730	13.9	52.8	
G25-E	730	12.9	48.8	
G25-S	730	10.3	39.1	
G25-I	730	7.9	29.9	
Delivery @ 69	bar (1000 ¡	osi)		
Model	gal/rev	liters/rev		
G25-X	0.0190	0.0721		
G25-E	0.0174	0.0660		
G25-S	0.0141	0.0535		
G25-I	0.0103	0.0389		
Maximum Disc	harge Pressu	ıre		
Metallic Head	S:	69 bar (1000 psi)		
Non-metallic	Heads:	17 bar (250 psi) Poly	propylene	
		24 bar (350 psi) PVD	F	
Maximum Inle	t Pressure	17 bar (250 psi)		
Maximum Ope	rating Tempe	erature		
Metallic Head	S:	121 °C (250 °F) - Consult factory for correct		
		component selection	for temperatures from 71°C	
		(160°F) to 121°C (2	250°F).	
Non-metallic	Heads:	60°C (140°F)		
Maximum Soli	ds Size	800 microns		
Inlet Port		1-1/2 inch BSPT		
		1-1/2 inch NPT		
		150lb ANSI RF flange)	
Discharge Port		1 inch BSPT		
•		1 inch NPT		
		600lb ANSI RF flange)	
Shaft Diamete	r	28.6 mm (1-1/8 incl		
Shaft Rotation		Reverse (bi-directions	•	
Bearings		Tapered roller bearing	•	
Oil Capacity		3.1 liters (3.3 US quo		
Weight				
Metallic Head	۲٠	56.8 kg (125 lbs.)		
moranic ricuu	J.	30.0 Ng (123 lb3.)		

40.9 kg (90 lbs.)

Net Positive Suction Head (NPSHr)



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 Installation & Service Manual. Compare those calculations to the NPSHr curves above.

Calculating Required Power

$$\frac{50 \times \text{rpm}}{63,000} + \frac{\text{gpm} \times \text{psi}}{1,460} = \text{electric motor hp}$$

$$\frac{50 \times \text{rpm}}{84,428} + \frac{\text{l/min} \times \text{bar}}{511} = \text{electric motor kW}$$

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.

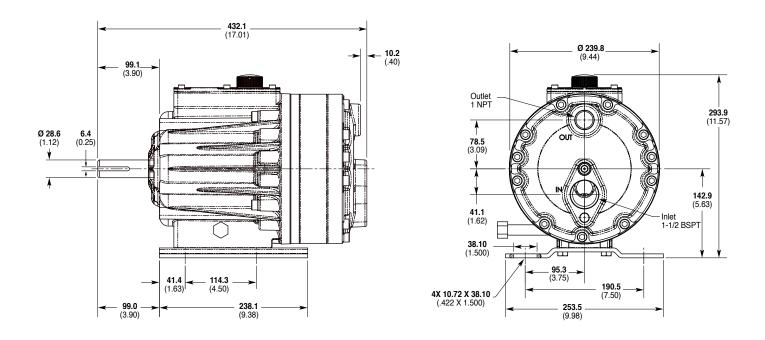
Calculating Pulley Size

$$\frac{\text{motor pulley OD}}{\text{pump rpm}} = \frac{\text{pump pulley OD}}{\text{motor rpm}}$$

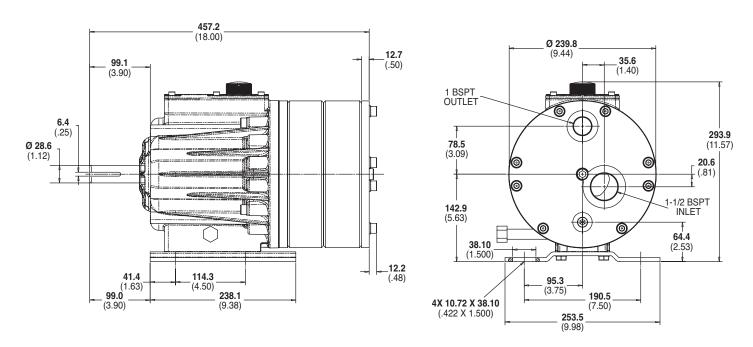
Non-metallic Heads:

G25 Series Representative Drawings

G25 Models with Metallic Pump Head mm (Inches)



G25 Models with Non-metallic Pump Head mm (Inches)



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

G25 Series Adapters/Valves

Pump/Motor Adapter mm (Inches)

Part Number: A04-041-1201

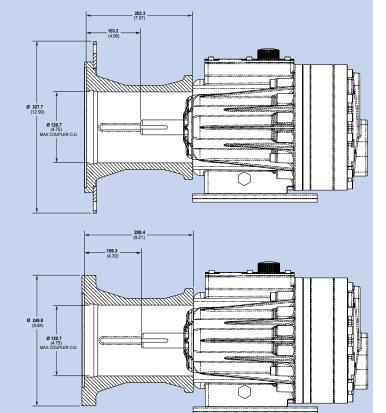
Must be ordered separately for G25 models for use with IEC 132 frame motors, B5 flange.

NEMA adapter available - consult factory.

Part Number: A04-041-1203

Must be ordered separately for G25 models for use with IEC 160 frame motors, B14 flange.

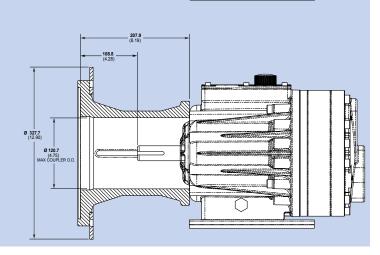
NEMA adapter available - consult factory.



Part Number: A04-041-1205

Must be ordered separately for G25 models for use with IEC 160 - 180 frame motors, B5 flange.

NEMA adapter available - consult factory.



Valve Selection

A seal-less C63 Pressure Regulating Valve is recommended for Hydra-Cell G25 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 G25 pumping systems.



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

G25 Series How to Order

Ordering Information

 1 G
 2 2
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A complete G25 Series Model Number contains 12 digits including 9 customer-specified design and materials options, for example: G25XKCGNNECA.

Digit	Order Code	Description
1-3	G25	Pump Configuration Shaft-driven (BSPT Ports or ANSI Flanges)* *Pump/motor adapters ordered separately. See previous page.
4		Hydraulic End Cam
	X	Max 69.0 l/min (18.2 gpm) @ 960 rpm
	E	Max 63.0 l/min (16.6 gpm) @ 960 rpm
	S	Max 50.0 l/min (13.2 gpm) @ 960 rpm
	ı	Max 36.0 I/min (9.5 gpm) @ 960 rpm
5		Pump Head Version
	K	Kel-Cell BSPT Ports
	M	Machined housing to accept C-face adapter/gearbox
6	В	Pump Head Material Brass
	C	Cast Iron (Nickel-plated)
	G	Duplex Alloy 2205 Stainless Steel (with Hastelloy C followers & follower screws)
	M	PVDF (with Hastelloy C followers & follower screws)
	N	Polypropylene (with Hastelloy C followers & follower screws)
	Р	Polypropylene (with 316L Stainless Steel followers & follower screws)
	R	316L Stainless Steel ANSI flange class 150 x 600
	S	316L Stainless Steel
	T	Hastelloy CW12MW
7		Diaphragm & O-ring Material
	Α	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.)
	P	Neoprene
	T	Buna-N
8		Valve Seat Material
	C	Ceramic
	D	Tungsten Carbide
	Н	17-7 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C

Digit	Order Code	Description
9		Valve Material
	С	Ceramic
	D	Tungsten Carbide
	F	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
10		Valve Springs
	E	Elgiloy
	Н	17-7 Stainless Steel
	T	Hastelloy C
11		Valve Spring Retainers
	C	Celcon
	Н	17-7 Stainless Steel (used with metallic heads only)
	M	PVDF
	P	Polypropylene
	T	Hastelloy C (used with metallic heads only)
	Υ	Nylon (Zytel)
12		Hydra-Oil
	Α	10W30 standard-duty oil
	В	40-wt for continuous-duty oil (use with 316L SST or Hastelloy CW12MW pump head - standard)
	C	EPDM-compatible oil
	E	Food-contact oil
	G	5W30 cold-temp severe-duty synthetic oil
	Н	15W50 high-temp severe-duty synthetic oil

G25 Pump Housing is standard as Cast Aluminum. Upgrade to Ductile Iron available.

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





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