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Versatile, Reliable Pumps for a Wide Range of Applications



G35 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.



G35 Series

Maximum Flow Rate: 36.5 gpm (138 l/min)

Maximum Pressure: 1500 psi (103 bar) for Metallic Pump Heads





G35 with Brass pump head.



G35 with 316L Stainless Steel pump head and ANSI flanges.

G35 Series Performance

Capacities

Flow				
	Max.	Max. Flow @ 1200 psi (83 bar)		
Model	Input rpm	@ 1200 p	si (83 bar) I/min	
G35-X	1050	36.5	138	
G35-E	1150	34.0	129	
		@ 1500 psi (103 bar)*		
G35-X	700	23.1	87.5	

Pressure

Maximum Inlet Pressure

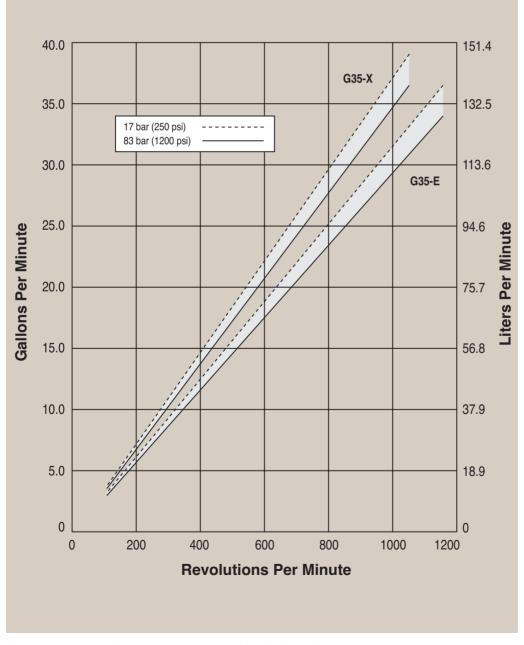
250 psi (17 bar) with 1500 psi (103 bar) maximum discharge pressure 500 psi (34 bar) with 1200 psi (83 bar) maximum discharge pressure

Maximum Discharge Pressure

1200 psi (83 bar) @ 1150 rpm max. 1500 psi (103 bar) @ 700 rpm max.

Performance and specification ratings apply to G35 configurations unless specifically noted otherwise.

Maximum Flow at Designated Pressure



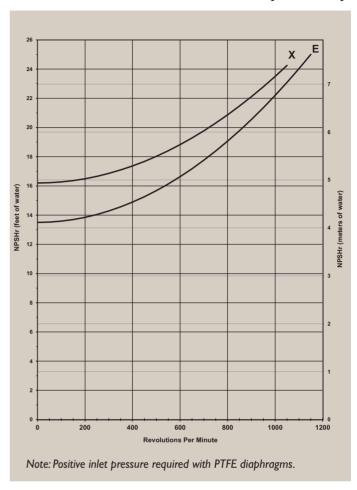


^{*} Consult factory if operating above 1200 psi (83 bar).

G35 Series Specifications

-	@ 83 bar	(1200 psi) 6-pole M	
Model	rpm	gpm	l/min
G35-X	960	33.50	127.00
G35-E	960	29.00	110.00
Flow Capacities	@ 83 bar	(1200 psi) 8-pole M	otor @ 50 Hz
Model	rpm	gpm	l/min
G35-X	730	25.50	96.60
G35-E	730	22.10	83.60
Delivery @ 83 b	ar (1200 _I	osi)	
Model	gal/rev	liters/rev	
G35-X	0.0347	0.1314	
G35-E	0.0296	0.1120	
Delivery @ 103	bar 1500	psi)	
Model	gal/rev	liters/rev	
G35-X	0.0330	0.1250	
Maximum Discho	irge Pressi	Jre	
Metallic Heads:		83 bar (1200 psi) @) 1150 rpm max.
		103 bar (1500 psi) @	700 rpm max Consult
		factory if operating ab	ove 83 bar (1200 psi).
Maximum Inlet F	Pressure	17 bar (250 psi) with	103 bar (1500 psi)
		maximum discharge p	ressure
		34 bar (500 psi) with	83 bar (1200 psi)
		maximum discharge p	
Maximum Opera	ting Temp	erature	
Metallic Heads:		121 °C (250 °F) - Co	nsult factory for correct
		component selection for temperatures from 71 °C	
		(160°F) to 121°C (2	.50°F).
Maximum Solids	Size	800 microns	•
Inlet Port		2-1/2 inch BSPT	
		2-1/2 inch NPT	
		150lb or 600lb ANSI	RF flanae
		3 inch SAE flange	3
Discharge Port		1-1/4 inch BSPT	
, g		1-1/4 inch NPT	
		600lb or 1500lb ANS	I RF flanae
		1-1/4 inch SAE flange	
Shaft Diameter		50.8 mm (2 inch)	-
Shaft Rotation		Reverse (bi-directiona	1)
Bearings		Tapered roller bearing	
Oil Capacity		7.3 liters (7.75 US qua	
Weight		7.0 mois (7.7 5 05 400	113/
Metallic Heads:		116.6 kg (257 lbs.)	
Meining Hends:		110.0 kg (Z3/ IDS.)	

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

$$\frac{100 \times \text{rpm}}{63,000} + \frac{\text{gpm} \times \text{psi}}{1,460} = \text{electric motor hp}$$

$$\frac{100 \times \text{rpm}}{84,428} + \frac{1/\text{min} \times \text{bar}}{511} = \text{electric motor kW}$$

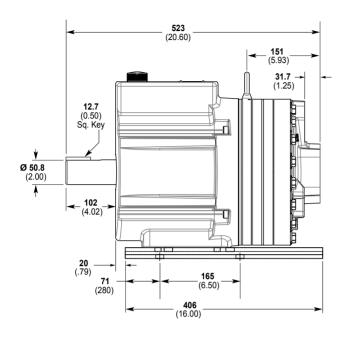
When using a variable frequency drive (VFD) controller calculate the hp or kW at minimum and maximum pump speed to ensure the correct hp or kW motor is selected. Note that motor manufacturers typically de-rate the service factor to 1.0 when operating with a VFD.

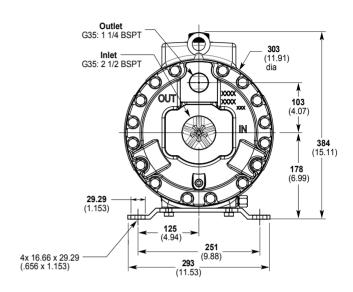
Calculating Pulley Size

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

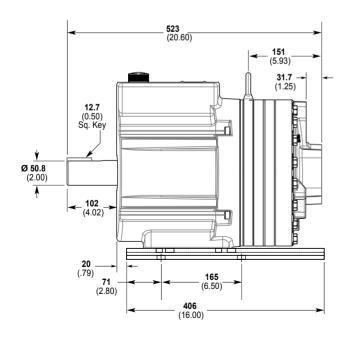
G35 Series Representative Drawings

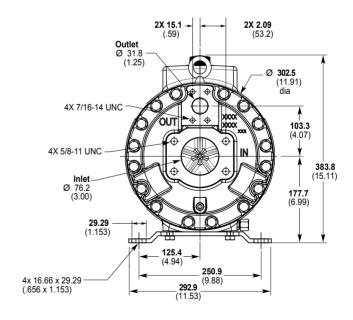
G35 Models with BSPT Inlet/Outlet Ports mm (Inches)





G35 Models with SAE Flange Inlet/Outlet Ports mm (Inches)

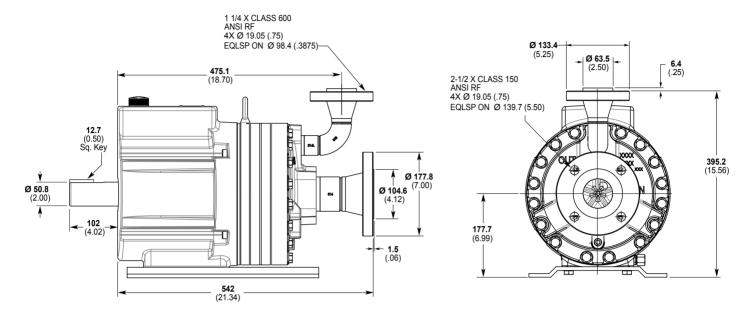




Note: Dimensions are for reference only. Contact factory for certified drawings.

G35 Series Representative Drawings/Valves/Skids

G35 Models with ANSI Flange Inlet/Outlet Ports mm (Inches)



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

Valve Selection

A seal-less C64 Pressure Regulating Valve is recommended for Hydra-Cell G35 pumping systems, especially for highpressure requirements or when handling dirty fluids.



A C24 Pressure Regulating Valve provides a capable, lower-cost alternative to C64 valves for Hydra-Cell G35 pumping systems.





G35 Series How to Order

Ordering Information

 1 G
 2 3
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 12

A complete G35 Series Model Number contains 12 digits including 9 customer-specified design and materials options, for example: G35XKBTHFECA.

Digit	Order	Decementary		
Digit	Code	Description		
1-3	G35	Pump Configuration Shaft-driven (BSPT Ports or SAE or ANSI Flanges)		
4		Hydraulic End Cam		
	X	Max 127.0 I/min (33.5 gpm) @ 960 rpm		
	E	Max 110.0 I/min (29.1 gpm) @ 960 rpm		
5		Pump Head Version		
	K	Kel-Cell BSPT Ports or ANSI Flanges		
	E	Kel-Cell SAE Flanges		
6	В	Pump Head Material Brass		
	C	Ductile Iron (Nickel-plated)		
	G	Duplex Alloy 2205 Stainless Steel (with Hastelloy C followers & follower screws)		
	Q	316L Stainless Steel ANSI flange class 600 x 1500		
	R	316L Stainless Steel ANSI flange class 150 x 600		
	S	316L Stainless Steel - threaded or SAE ports		
	T	Hastelloy CW12MW		
7		Diaphragm & O-ring Material		
	Α	Aflas diaphragm / PTFE o-ring		
	E	EPDM (requires EPDM-compatible oil - Digit 12 oil code D)		
	G	FKM		
	J	PTFE (available with E cam only; 1050 rpm max.)		
	Р	Neoprene		
	T	Buna-N		
8		Valve Seat Material		
	C	Ceramic		
	D	Tungsten Carbide (900 rpm max.)		
	Н	17-4 Stainless Steel		
	N	Nitronic 50		
	T	Hastelloy C		
9		Valve Material		
	C	Ceramic		
	D	Tungsten Carbide (900 rpm max.)		
	F	17-4 Stainless Steel		
	N	Nitronic 50		
	T	Hastelloy C		
10	E	Valve Springs Elgiloy		
	H	17-7 Stainless Steel		
	т	Hastelloy C		
	•			

Dinit	Order	Deceription
Digit	Code	Description
11		Valve Spring Retainers
	C	Celcon
	Н	17-7 Stainless Steel
	M	PVDF
	P	Polypropylene
	T	Hastelloy C
	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)
	D	EPDM-compatible oil
	E	Food-contact oil
	G	5W30 cold-temp severe-duty synthetic oil
	Н	15W50 high-temp severe-duty synthetic oil

G35 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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