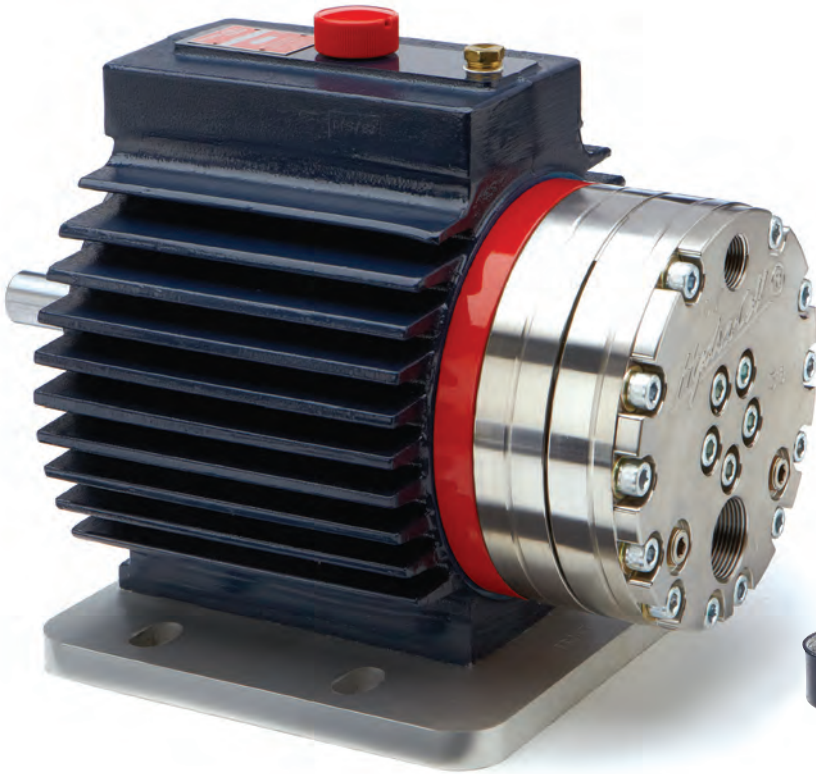


G15/G17 Series

Maximum Flow Rate: 15.5 gpm (58.7 l/min)

Maximum Pressure: 2500 psi (172 bar) for Metallic Pump Heads



G15 for horizontal installations shown with Stainless Steel pump head.



G17 for vertical mounting (including motor adapter, base plate and oil reservoir) shown with Brass pump head.

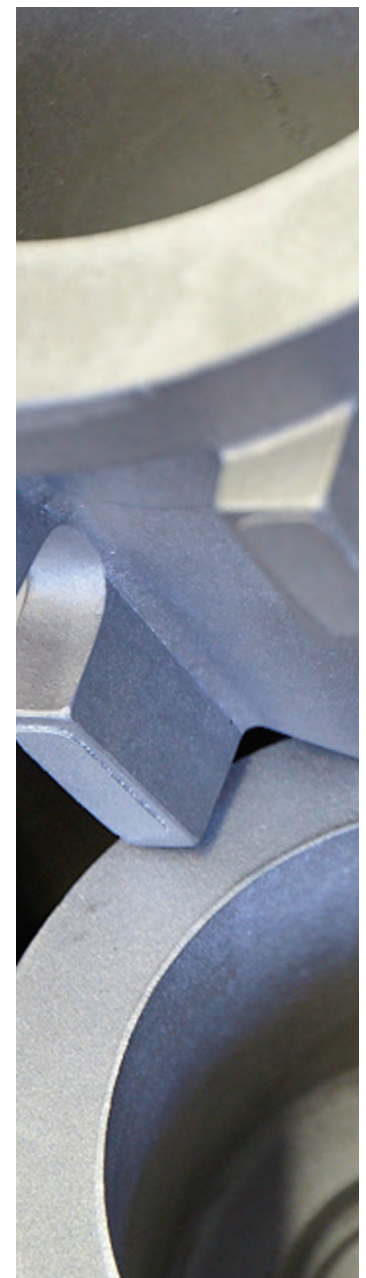
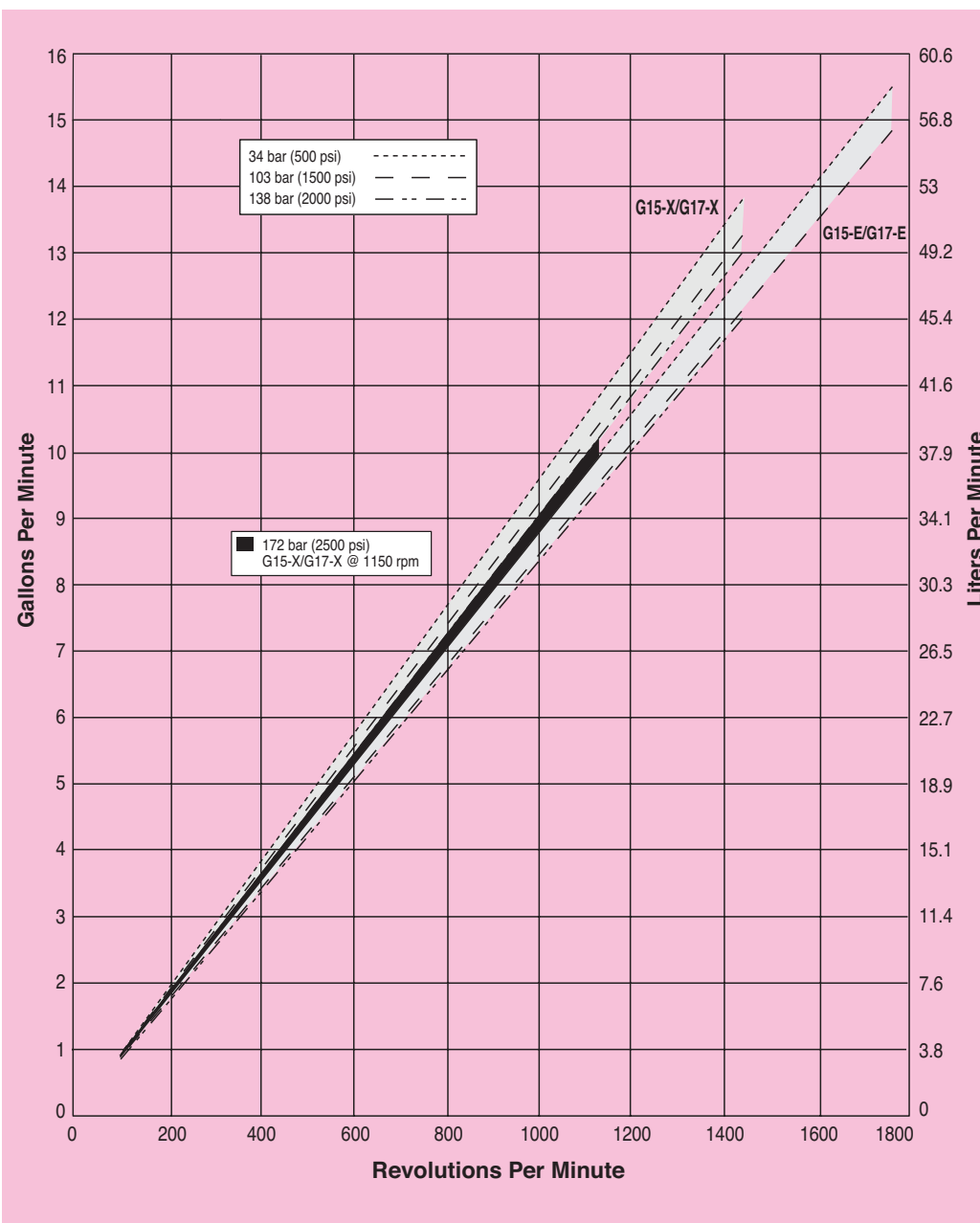
G15/G17 Series Performance

Capacities

Model	Max. Input rpm	Flow		Pressure	
		gpm	l/min	Max. Inlet Pressure	Max. Discharge Pressure
G15-X/G17-X	1450	13.8	52.3	500 psi (34 bar)	500 psi (34 bar)
	1450	13.3	50.2	500 psi (34 bar)	1500 psi (103 bar)
	1450	13.0	49.2	500 psi (34 bar)	2000 psi (138 bar)
	1150	10.1	38.1	500 psi (34 bar)	2500 psi (172 bar)
G15-E/G17-E	1750	15.5	58.7	500 psi (34 bar)	500 psi (34 bar)
	1750	14.8	56.2	500 psi (34 bar)	1500 psi (103 bar)
	1450	12.0	45.5	500 psi (34 bar)	2000 psi (138 bar)

Performance and specification ratings apply to G15/G17 configurations unless specifically noted otherwise.

Maximum Flow at Designated Pressure



G15/G17 Series Specifications

Flow Capacities (4-pole Motor @ 50 Hz)

Model	@ max rpm	psi	bar	gpm	l/min
G15-X/G17-X	1450	500	34	13.8	52.3
	1450	1500	103	13.3	50.2
	1450	2000	138	13.0	49.2
	1150	2500	172	10.1	38.1
G15-E/G17-E	1750	500	34	15.5	58.7
	1750	1500	103	14.8	56.2
	1450	2000	138	12.0	45.5

Delivery

Model	psi	bar	gal/rev	liters/rev
G15-X/G17-X	500	34	0.0095	0.0360
	1500	103	0.0092	0.0346
	2000	138	0.0090	0.0339
	2500	172	0.0088	0.0331
G15-E/G17-E	500	34	0.0089	0.0335
	1500	103	0.0085	0.0321
	2000	138	0.0083	0.0314

Maximum Discharge Pressure

Metallc Heads:	103 bar (1500 psi) @1750 rpm (G15-E & G17-E only)
	138 bar (2000 psi) @1450 rpm
	172 bar (2500 psi) @1150 rpm

Maximum Inlet Pressure

500 psi (34 bar)

Maximum Operating Temperature

Metallc Heads:	121 °C (250 °F) - Consult factory for correct component selection for temperatures from 71 °C (160 °F) to 121 °C (250 °F).
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Maximum Solids Size

500 microns

Inlet Port

1-1/4 inch BSPT
1-1/4 inch NPT

Discharge Port

3/4 inch BSPT
3/4 inch NPT

Shaft Diameter

28.6 mm (1-1/8 inch)

Shaft Rotation

Reverse (bi-directional)

Bearings

Tapered roller bearings

Oil Capacity

2.1 liters (2.2 US quarts) - See pages 96 and 97 for oil selection and specification.

Weight

Metallc Heads:	66 kg (145 lbs.)
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Calculating Required Power

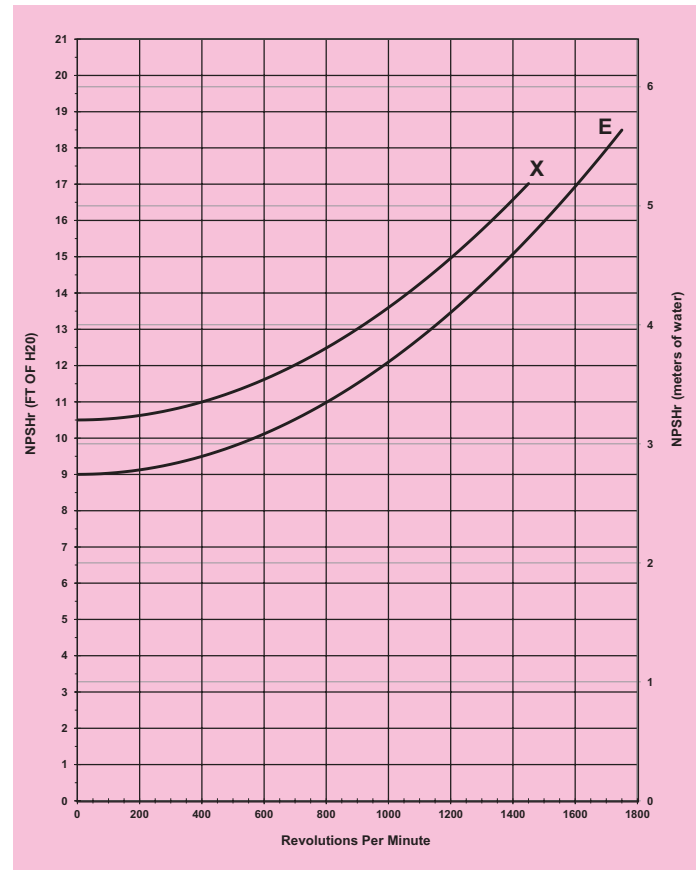
$$\frac{80 \times \text{rpm}}{63,000} + \frac{\text{gpm} \times \text{psi}}{1,460 - \left(\frac{\text{psi} - 500}{20}\right)} = \text{electric motor hp}$$

$$\frac{80 \times \text{rpm}}{84,428} + \frac{\text{l/min} \times \text{bar}}{511 - \left(\frac{\text{bar} - 35}{4}\right)} = \text{electric motor kW}$$

See page 164 for calculating pulley size.

When using a variable frequency drive (VFD) 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)



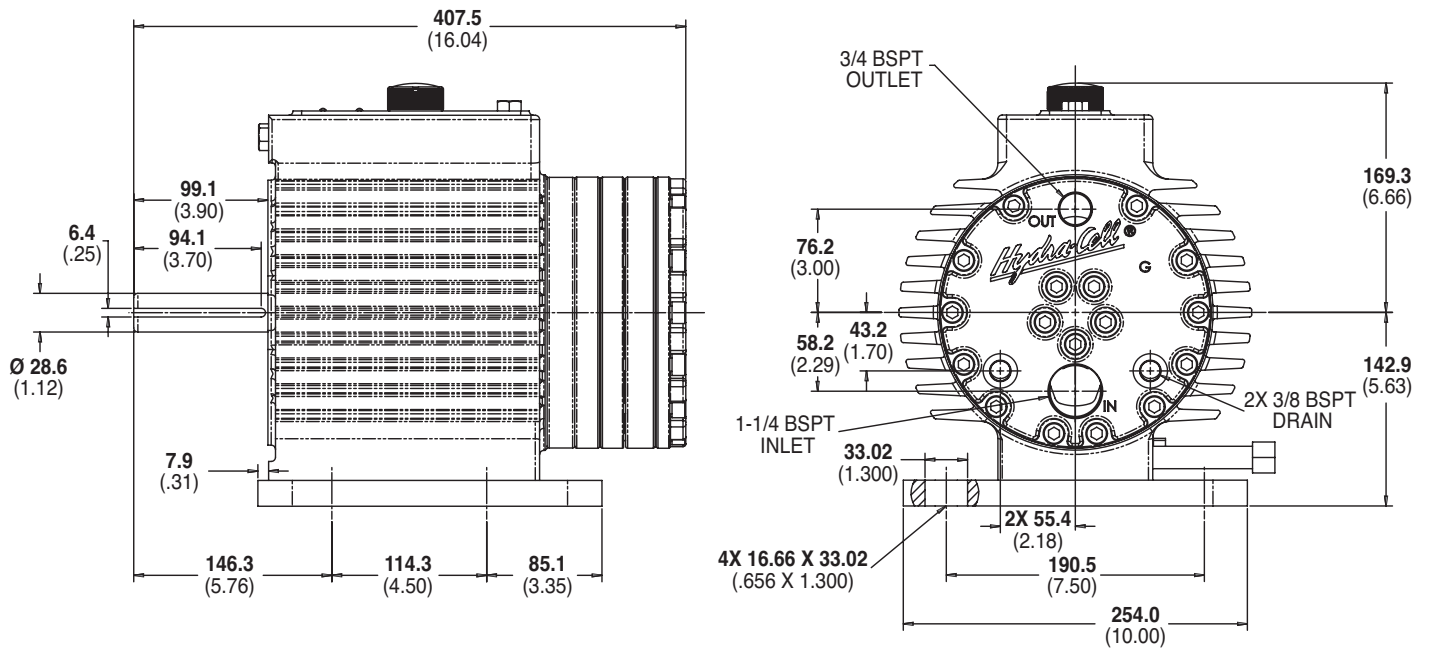
Self-priming:

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.

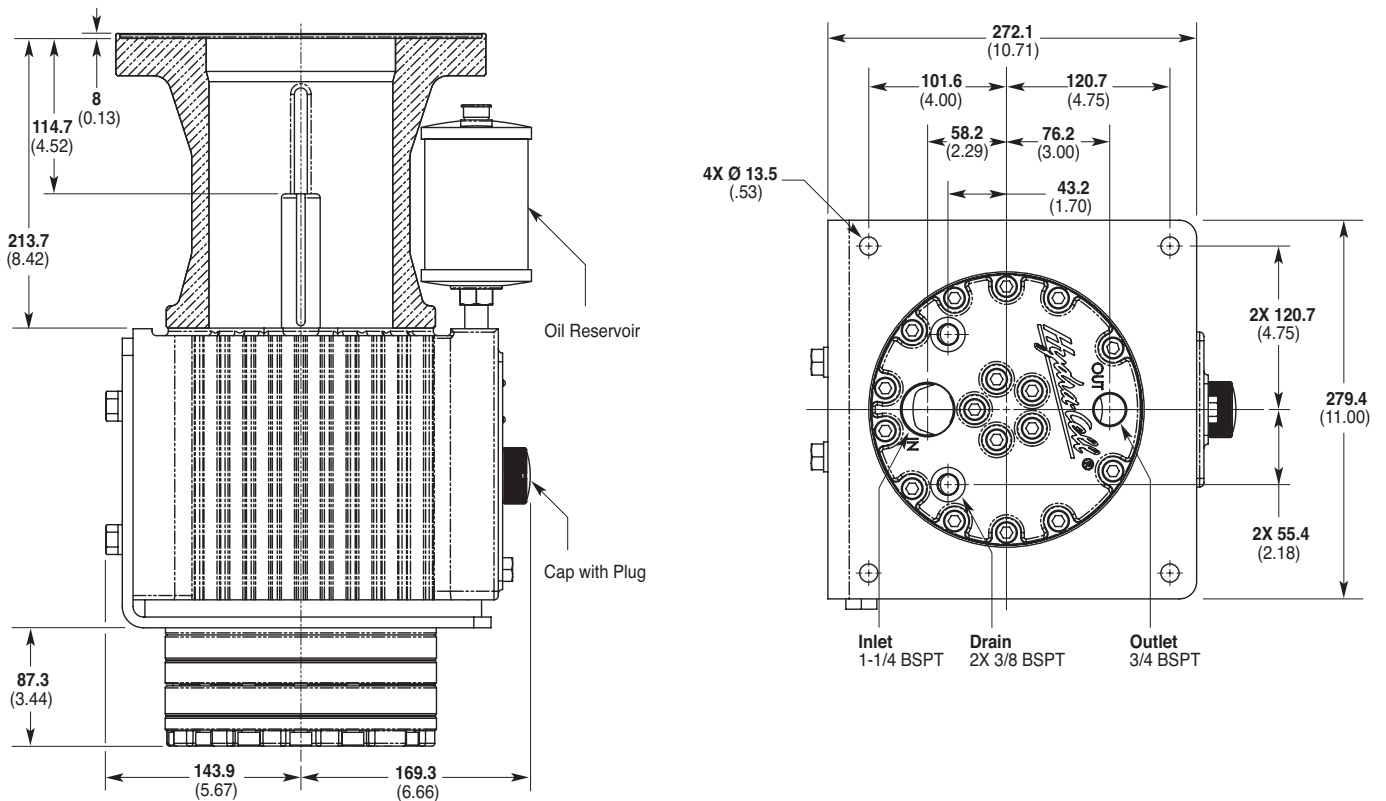
For technical assistance in pump selection, see Frequently Asked Questions on page 162, Design Considerations on page 163, and Installation Guidelines on pages 164-165.

GI5/GI7 Series Representative Drawings

GI5 Models for Horizontal Mounting (Metallic Pump Heads) mm (Inches)



GI7 Models for Vertical Mounting (Metallic Pump Heads) mm (Inches)

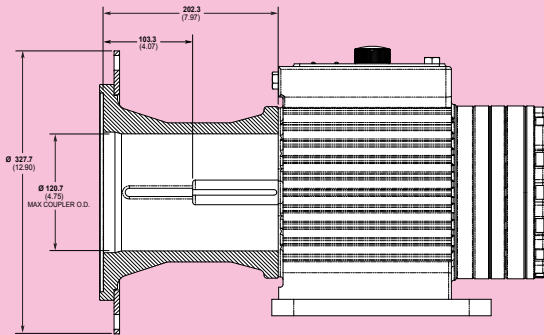


Note: Contact factory for additional drawings of specific models and configurations.

G15/G17 Series Adapters/Valves

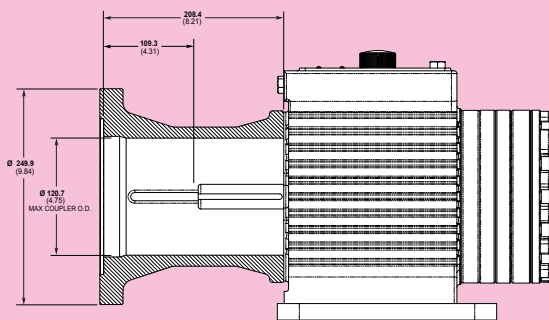
Pump/Motor Adapter mm (Inches)

G15 (Horizontal) Models



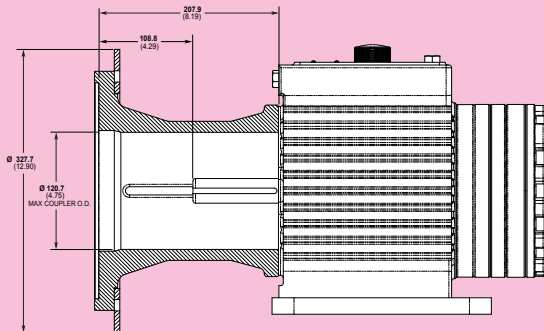
Part Number: A01-041-1201

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



Part Number: A01-041-1203

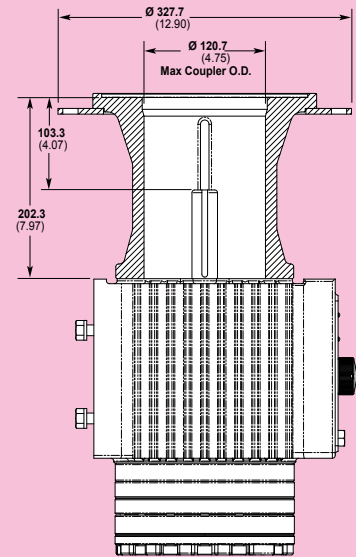
Must be ordered separately for use with IEC 160 frame motors, B14 flange.



Part Number: A01-041-1205

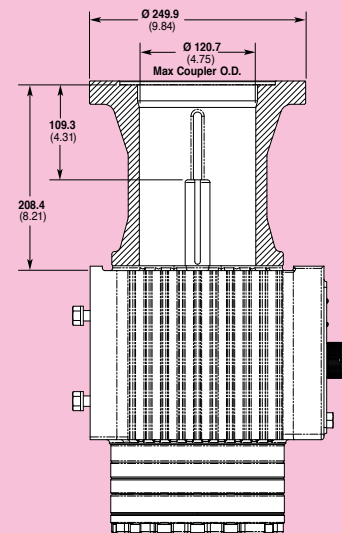
Must be ordered separately for use with IEC 160 - 180 frame motors, B5 flange.

G17 (Vertical) Models



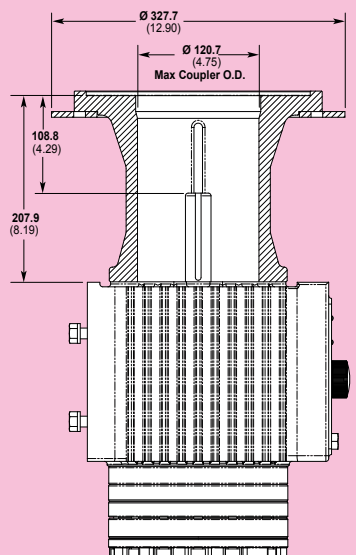
Part Number: A01-041-1201

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



Part Number: A01-041-1203

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



Part Number: A01-041-1205

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

Valve Selection

A Hydra-Cell G15/G17 Series pumping system uses a seal-less C62 Pressure Regulating Valve.

See page 88 for more information.



NEMA adapters available - consult factory.

G15/G17 Series **How to Order**

Ordering Information

1	2	3	4	5	6	7	8	9	10	11	12
---	---	---	---	---	---	---	---	---	----	----	----

A complete G15/G17 Series Model Number contains 12 digits including 9 customer-specified design and materials options, for example: G15XABTHFECG.

Digit	Order Code	Description
1-3		Pump Configuration
	G15	Horizontal shaft-driven (BSPT Ports)
	G17	Vertical shaft-driven (BSPT Ports) *Pump/motor adapters ordered separately. See previous page.
4		Hydraulic End Cam
	X	Max 48.0 l/min (12.7 gpm) @ 1450 rpm
	E	Max 43.5 l/min (11.5 gpm) @ 1450 rpm
5		Pump Head Version
	D	BSPT Ports
	X	ATEX (Note: ATEX 94/9/EC Certified, Category 2, Zone 1. Includes certificate and oil level monitor.)
6		Pump Head Material
	B	Brass
	S	316L Stainless Steel
7		Diaphragm & O-ring Material
	A	Aflas diaphragm/PTFE o-ring
	G	FKM
	T	Buna-N
8		Valve Seat Material
	D	Tungsten Carbide
	H	17-4 Stainless Steel
	N	Nitronic 50
9		Valve Material
	D	Tungsten Carbide
	F	17-4 Stainless Steel
	N	Nitronic 50
10		Valve Springs
	E	Elgiloy
	H	17-7 Stainless Steel
	T	Hastelloy C
11		Valve Spring Retainers
	C	Celcon
	H	17-7 Stainless Steel
	M	PVDF
	P	Polypropylene
	Y	Nylon (Zytel)

Digit	Order Code	Description
12		Hydra-Oil
	A	10W30 standard-duty oil
	B	40-wt for continuous-duty (use with 316L SST pump head - standard)
	E	Food-contact oil
	G	5W30 cold-temp severe-duty synthetic oil
	H	15W50 high-temp severe-duty synthetic oil

Note: For motors, bases, couplings and other pump accessories, refer to the Accessories section beginning on page 92.

Hydra-Cell®

Seal-less Pumps

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