

# MEGARROYAL<sup>®</sup>

## Series Process Diaphragm Pump

# DATA SHEET

### Optimal leak-proof performance for high-volume chemical injection

Engineered for the injection and transfer of hazardous chemicals, the MEGARROYAL is capable of handling flow rates of up to 12,680 gph or 211 gpm (48 m<sup>3</sup>/h or 800 L/min) with discharge pressures to 3,655 psi (252 bar) in a footprint that is up to 25% smaller when compared to similar competitive options. The MEGARROYAL pump provides the reliability you expect from Milton Roy with the power you want to meet all your chemical dosing needs.

### Specifications:

- Maximum capacity: 12,680 gph or 211 gpm (48 m<sup>3</sup>/h or 800 L/min)
- Maximum discharge pressure: 3,655 psi (252 bar)
- Maximum motor power: 100 hp (75 kW)
- Pumped fluid temperature: 14°F to 203°F (-10°C to 95°C)
- Capacity adjustment: By variable frequency drive (VFD) with variable frequency motor

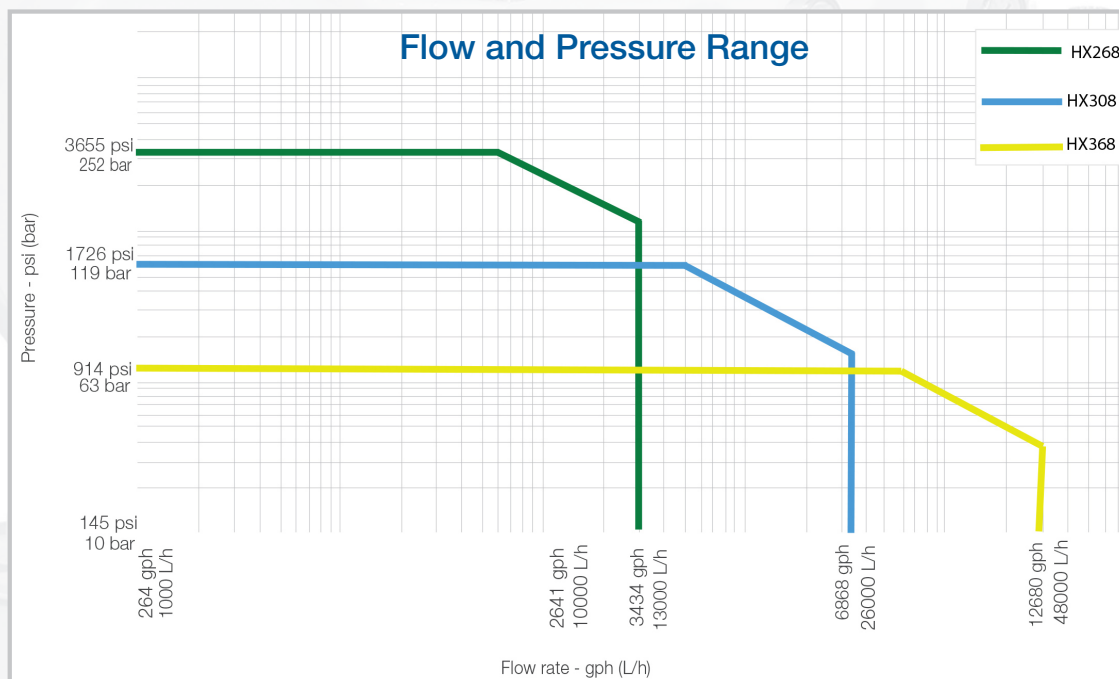


API 675 Compliant\*

### Applications:

- Oil & Gas – applications requiring high pressure liquid injection and transfer to prevent hydrate formation, reduce corrosion, scales and much more.
- Chemical and Petrochemical Processing – metering of chemicals in refinery processes such as separation / distillation, transformation / conversion and finishing/refining of products.
- Water Treatment and General Industry - Slurry fluid transfer such as bauxite, coal water slurry and sewage.
- Ideal for industries requiring zero-leakage and control of critical process liquids.

\*Consult factory for details



## Critical Sub-Assembly

*Provides Operating Efficiencies and Savings*



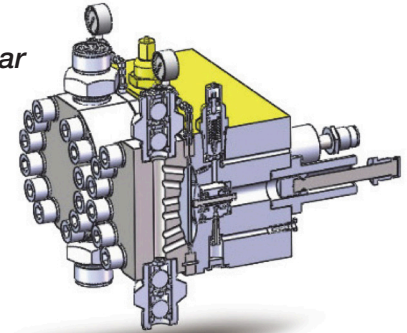
### Features and Benefits

- Wear-resistant copper alloy worm gear, runs efficiently and provides a long service life.
- Moving parts lubricated in oil bath to reduce wear.
- Connecting rods with standard bearing for convenient maintenance.
- Unique cross-head seal structure protects against leakage.
- Forged alloy steel crankshaft ensures reliable performance and a long product life.
- Advanced bearing configuration, maintains a smooth and predictable movement of the suction and discharge.

### Unique Liquid End - *Achieves high discharge pressures to 3,655 psig / 252 bar*

### Features and Benefits

- Leak-resistant design protects the process and the environment from dangerous and costly contamination.
- Patented diaphragm design with service life over 20,000 hours reduces maintenance costs while protecting against leakages.
- Integrated air-bleed valve for accurate "control" of flow.
- Patented MARS refill system automatically controls the hydraulic oil to protect the diaphragm from rupture while increasing the overall pump reliability and reducing maintenance time and expense.
- Equipped with a double-diaphragm detection system to monitor via local or remote alarm in the unlikely event of a rupture.

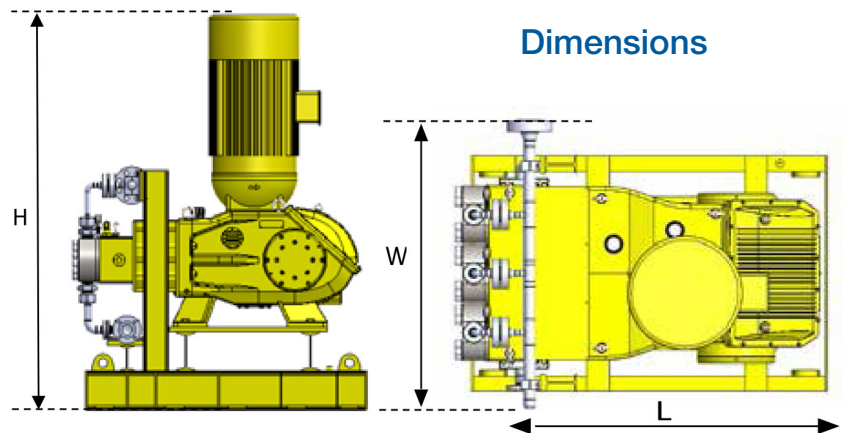


### Options

*A variety of options available to meet specification requirements*

### Benefits

- Special designed suction and discharge valves
- Low temperature
- High temperature
- Jacket insulation
- Slurry application
- Variety of diaphragm material
- Special corrosion resistant material



Dimensions

	HX268	HX308	HX368
in.	79.3 × 68.9 × 99.6	106.8 × 75.2 × 99.6	115.4 × 83.9 × 99.6
mm	2015 × 1750 2530	2715 × 1910 × 2530	2930 × 2130 2530

Contact your local representative to find out more about MEGAROYAL®

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