ECO GEARCHEM® Series GH8

EXTERNAL SPUR GEAR PUMP

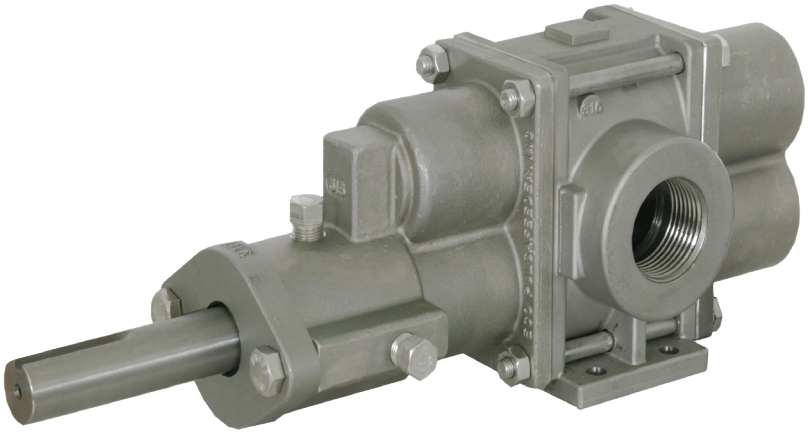
ECO positive displacement gear pumps offer the reliability you need to safely transfer or meter chemicals in a wide range of applications. Extensive material options provide versatility for pumping low or high viscosity fluids over a broad range of temperatures, pressures, and corrosive service. Typical applications include chemical transfer, distillates from evaporation columns, and everything from glues and molten sulfur to soaps and toothpastes. ECO gear pumps are well suited for pilot plants, vacuum systems, and many metering applications.

Applications
- pH control
- odor control
- acids
- caustics

Flow
up to 22 gpm (83.28 lpm)

Pressure
up to 100 psi (6.9 bar)

Temperature
up to 450°F (232°C)



- Gearchem pumps offer laminar flows for consistent, continuous and measurable transfer of liquids.
- 360 degree mounting and bi-directional operation allow for easy installation.
- Closed running and operating clearance evacuate air from the suction piping.
- Can handle clear lubricating and non-lubricating fluids including hydrocarbons and polymers.
- Variety of gear materials, easily convert to satisfy different service conditions.
- All gear materials are non-sparking for use with hazardous fluids.
- Internal sleeve type bearings are lubricated by process fluid eliminating the need for periodic lubrication maintenance and prevents contamination of external lubrication materials.
- Offered with heavy duty bellows or wedge type mechanical seals minimize the possibility of leakage to the environment and contamination of pumped fluid
- Dual purposed: can be used as either a transfer pump or a metering pump.
- Handles a variety of fluids and viscosities.
- Has superior chemical resistance.
- Monitoring of flow and rpm performance allows for predictive maintenance.
- Periodic lubrication is not required since the pumped fluid provides the necessary lubrication and cooling.

PULSAFEEDER®

ECO GEARCHEM® H8

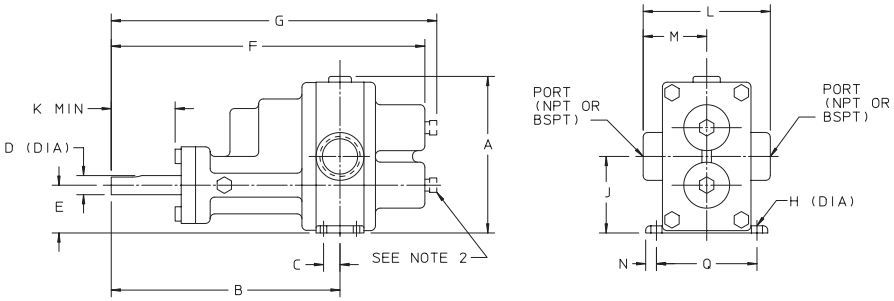
SPECIFICATIONS

Port Size and Type	1.0” NPT, BSPT
Direction of Rotation	Bi-directional
Theoretical Displacement	1.368 gal/100 rev (51.79 cc/rev)
Drive Shaft Diameter	0.75”
Maximum Differential Pressure	100 psi (6.9 bar)
Minimum System Pressure	0.1mm Hg (abs)
Maximum Speed	1725 rpm
Maximum Viscosity	Up to 100,000 cPS
Maximum Fluid Temperature	450°F (232°C)
Minimum Fluid Temperature	-100°F (-73°C)
Fluid pH range	0-14
Approximate Weight	10 lbs. (4.5 kg) pump only

MATERIALS OF CONSTRUCTION

Casing / Housings Drive / Idler Gears / Shafts	316 SS, Alloy C, Alloy 20
Bearings / Wearplate	Carbon 72, Carbon 92, Glass-filled PTFE
Bearing Type	Internal Sleeve
Bearing Lubrication	By pumped fluid
Packing Arrangements	Graphoil or PTFE lantern rings or packing, Viton lip seals
Mechanical Seals	Single or double, wedge or bellow type

DIMENSIONS

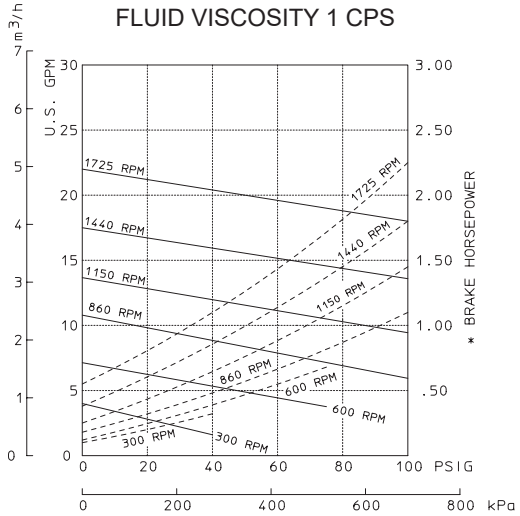


Notes:
1. Suction and Discharge ports are dependent upon rotation.
2. Bearing flush plugs (0.12 NPT) are optional.
3. All dimensions are in inches.

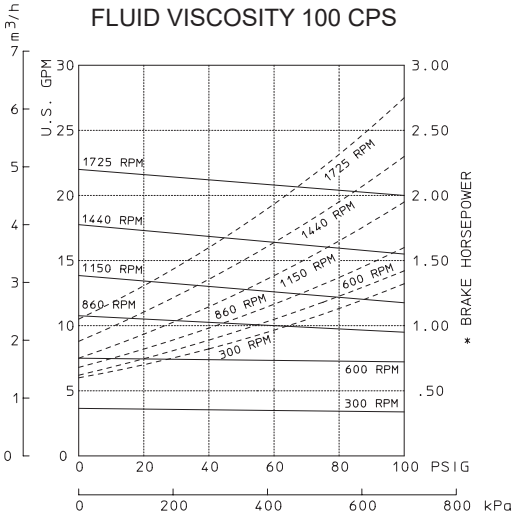
Port	A	B	C	D	E	F	G	H	J	K MIN	L	M	N	Q
1.0”	4.19”	7.48”	0.62”	0.75”	1.38”	10.32”	10.63”	0.28”	2.12”	1.81”	4.0”	2.0”	0.28”	2.62”

FLOW & PRESSURE

FLUID VISCOSITY 1 CPS



FLUID VISCOSITY 100 CPS



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