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PULSAFEEDER®
A Unit of IDEX Corporation

pulsafeeder.com

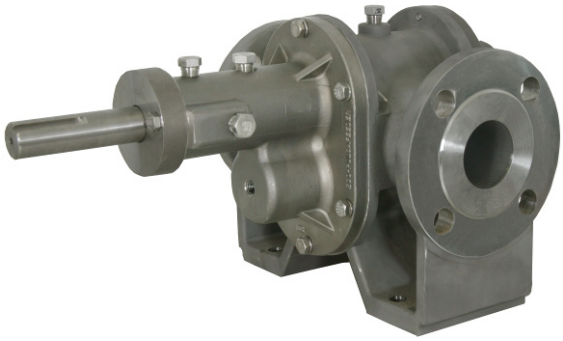
The Gearchem pumps are designed for continuous on duty use. They are constructed out of the strongest material available to provide superior chemical resistance and assure long life. Designed to handle a variety of process liquids including liquefied gasses, the GA16 can handle highly viscous fluids to very thin, clear, non-abrasive fluids. Typically employed to transfer fluids they are equally advantageous in metering fluids because of their consistency.

Key Features

- Gearchem pumps offer laminar flows for consistent, continuous and measurable transfer of liquids.
- Fully inline serviceable. Do not need to disconnect from piping.
- Self-priming and bi-directional
- 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 gears available and easily convertible 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
- Three types of seals and two packing arrangements available

Operating Benefits

- Simplified maintenance due to quick disassembly
- Do not require periodic lubrication, since the pumped fluid provides the necessary lubrication and cooling.
- Possibility of contamination of pumped fluid is eliminated
- Bi-directional for easy installation
- 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



Aftermarket & Accessory Offerings

- KOPkit®
- Bolt-on Heating/Cooling jackets
- Pressure Relief Valves
- Back Pressure Diaphragm Valves
- Base-Mounted Units
- Close-Coupled Units



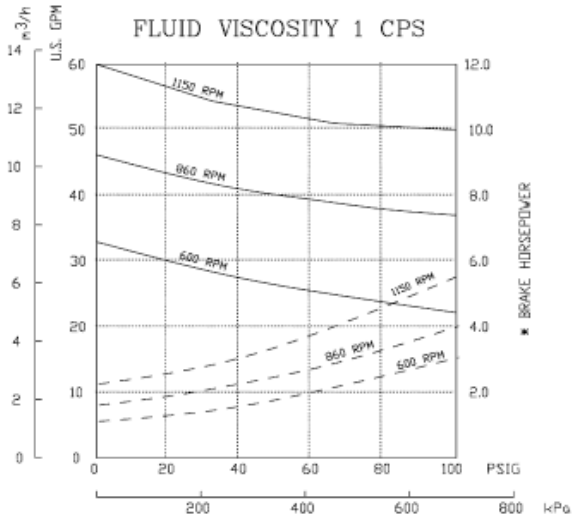
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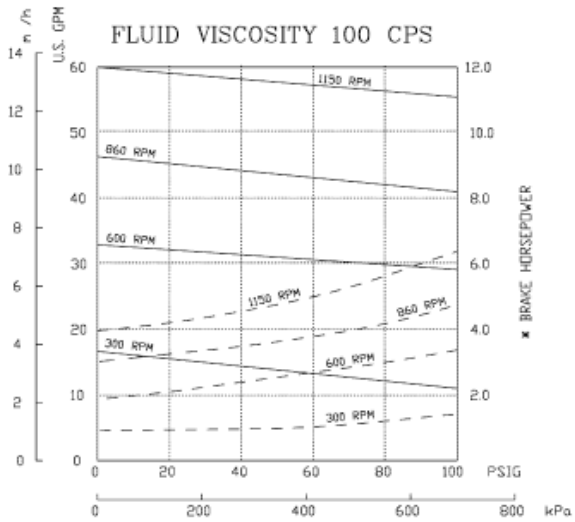
Configurations available certified to UL 1389:2019 Ed 1, “Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations”

ECO Gearchem® Series 16
External Spur Gear Pump

ECO Gearchem® Series 16

Typical Performance





Engineering Data

Casing/Housings: 316SSL, 316 SS, Alloy C, Alloy 20

Drive/Idler Gears: 316SSL, 316 SS, Alloy C, Alloy 20

Shafts: 316SSL, 316 SS, Alloy C, Alloy 20

Bearings: Carbon 72, Carbon 92, Glass-filled PTFE, Silicon Carbide

Bearing Type: Internal Sleeve

Wearplate: Carbon 72, Carbon 92, Glass-filled PTFE, Silicon Carbide

Bearing Lubrication: By pumped fluid

Packing Arrangements: Standard or lantern ring

Mechanical Seals: Single internal or double seals to 140 psi. Single external seal to 50 psi.

Port Size and Type: 2”, 150# ANSI RF flange

Direction of Rotation: Bi-directional

Theoretical Displacement: 5.584 gal/100 rev (211 cc/rev)

Drive Shaft Diameter: 1”

Maximum Differential Pressure: 100 psi (6.89 bar)

Minimum System Pressure: .1mm Hg (abs)

Maximum Speed: 1150 rpm

Maximum Viscosity: 100,000 cPS, higher viscosities possible with speed reduction

Maximum Fluid Temperature: 450°F (232°C) metallic gears, 212°F (100°C) non-metallic gears

Minimum Fluid Temperature: -100°F (-73°C)

Fluid pH range: 0-14

Approximate Weight: 80 lbs. (36kg) pump only

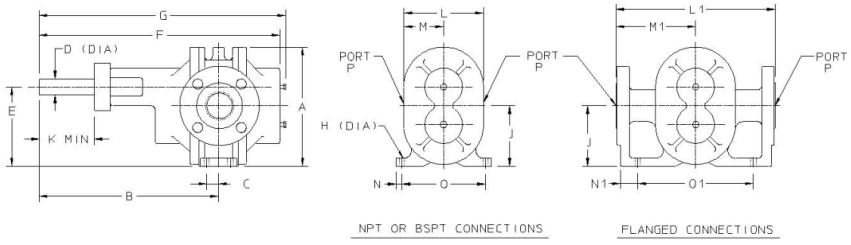
Custom Engineered Designs

- Bearing High Pressure option available
- Flush plugs
- Housing vent port
- Bolt-on Heating/cooling jackets
- Pressure relief valves
- Backpressure valves
- Flanges
- Flush plugs
- Housing vent port

Dimensions

	Port Sizes								
	NPT or BSPT	150 LB RF FLG							
Model	P	P	A	B	C	D	E	F	G
GA16	----	2	8.75	12.25	1.75	1	6.25	17.12	17.5

H	J	K MIN	L	M	N	O	L1	M1	N1	O1
0.53	5.06	3.25	----	----	----	----	10.5	5.25	1.44	6.5



pulsafeeder.com

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IDEX CORPORATION

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