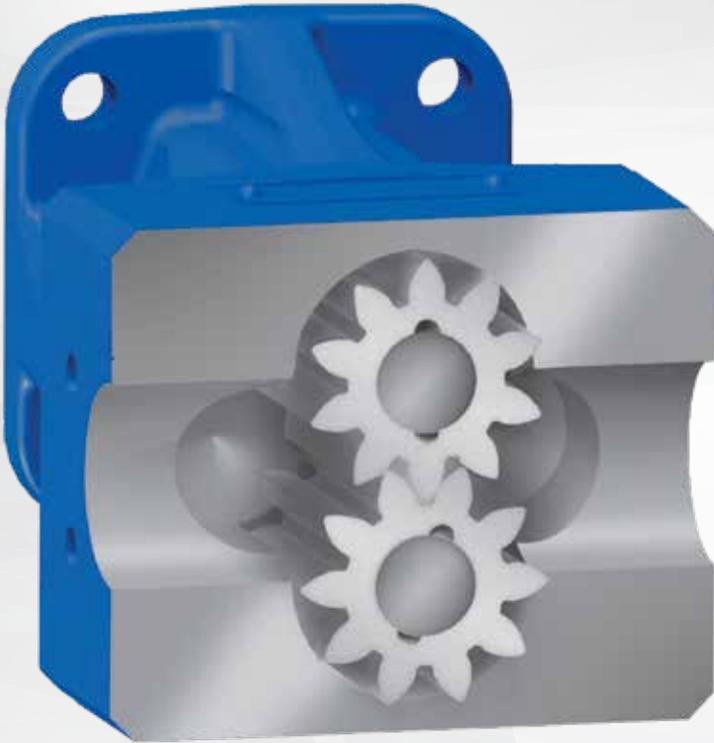
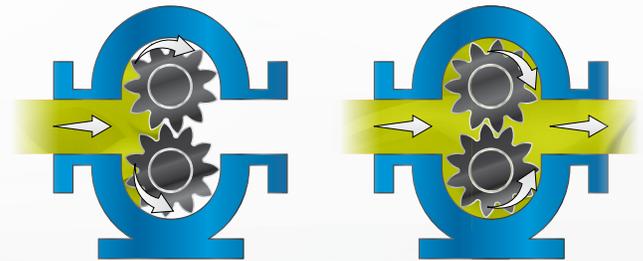


EXTERNAL GEAR PUMPS



WHY? The external gear pump is the ultimate solution for high pressure pumping.

- Bearing support on both sides of the gears enables differential pressures to 500 PSI (34 BAR), or Intermittent to 2,500 PSI (170 BAR)
- Motor speed operation eliminates cost of speed reducer
- Eliminates lubrication – no external axial or radial bearing required in most applications



TYPICAL APPLICATIONS

Common external gear pump applications include, but are not limited to:

- Various fuel oils & lube oils
- Chemical additive & polymer metering
- Chemical mixing & blending (double pump)
- Industrial & mobile hydraulic applications
- Low volume transfer or application

MATERIALS OF CONSTRUCTION & CONFIGURATION OPTIONS

Externals (Head, Casing, Bracket)

Iron, ductile iron

Internals (Shafts)

Steel

Internals (Gears)

Steel

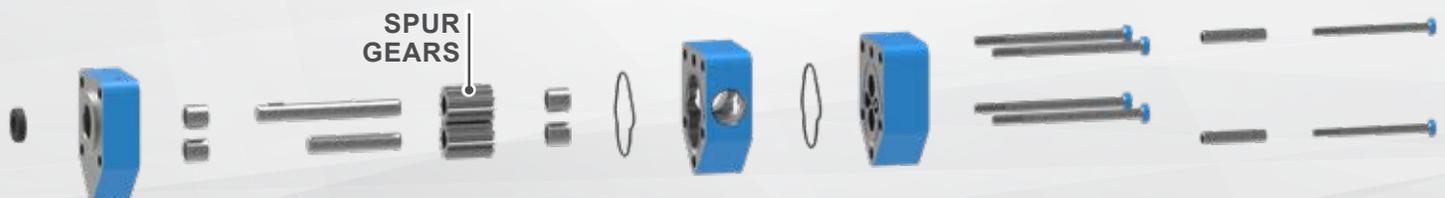
Bushings (Sleeve Bearings)

Carbon, silicon carbide, needle bearings

Shaft Seal

Lip seal, component mechanical seal, sealless magnetic couplings

KEY PUMPING ELEMENTS



The External Gear Pump with spur gears offers higher pressures and unique abilities to supply multi-section specialty pumps with one driver.

ADVANTAGES

Higher Pressure Capabilities

With shaft support on both sides of the gears

Multi-Section Pumps

Use one motor for multiple pumping applications, blending liquids, or splitting flows to different uses

Shaft Seal Options

Including lip seal, component mechanical seal and sealless mag drive options

Compact, Close-Coupled Options

For motor speed operation or with gearmotors

Smooth, Non-Pulsing Flow

For accurate flow measurement

Reliable & Easy to Maintain

With only two moving parts

One Shaft Seal

More reliable and lower cost than two used on timed lobe and screw pumps

PERFORMANCE

Flow Range
to 190 GPM (719 LPM)

Viscosity
28 to 1,000,000 SSU (1 to 250,000 cSt)
With special construction

Pressure
to 500 PSI (34 BAR)
Intermittent to 2,500 PSI (170 BAR)

Temperature
-40°F to +450°F (-40°C to +230°C)
With special construction

