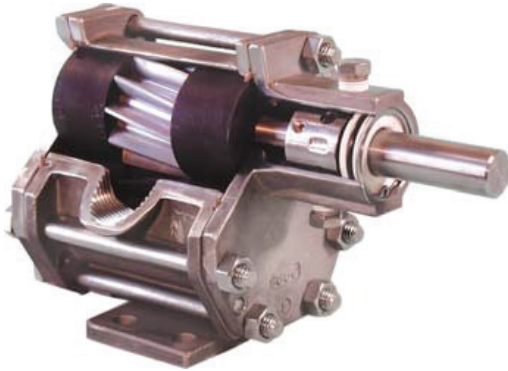




OBERDORFER[®]

An Ingersoll Rand Business

S923 METALLIC CHEMSTEEL SERIES



A full range of accessories are available including:

- close coupled mounting kits
- baseplate / pedestal mounting kits
- line mounted pressure relief valves

General Description

Chemsteel pumps are designed to handle common and highly corrosive liquids that must be pumped under pressure. Manufactured to extremely precise tolerance, the Chemsteel pump line prevents system contamination while maintaining the purity and integrity of the liquid being pumped. Its rugged, three-section, o-ring sealed thru-bolt construction provides ease of servicing and parts replacement.

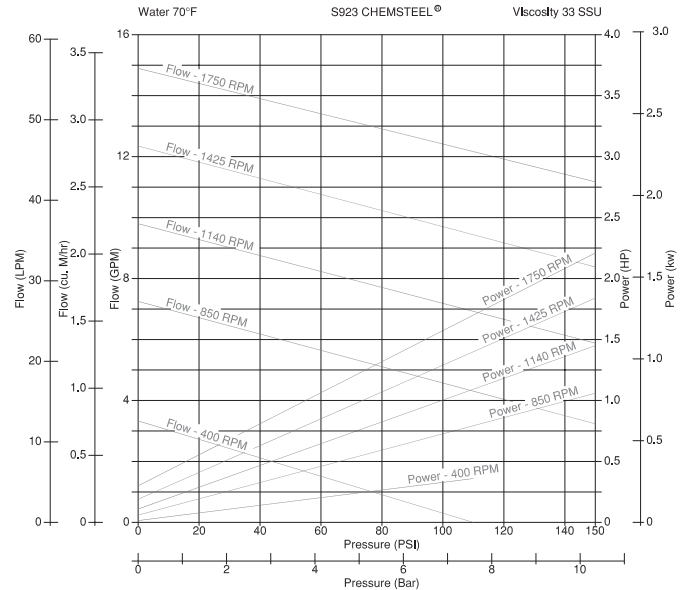
Helical gearing offers noise reduction by as much as 10db, while the tandem pumps double the output flow for a single fluid, or with isolation, handle other fluids in direct ratio to the first.

Additionally, Chemsteel pumps offer bi-directional operation for applications requiring reversing flow.

MODEL	S923	
MAXIMUM FLOW (GPM/LPM) @1750 RPM	15 GPM	56.8 LPM (3.4 m ³ /h)
THEORETICAL DISPLACEMENT	38.4 CC/REVOLUTION	
MAXIMUM DIFFERENTIAL PRESSURE	150 PSIG	10.3 BAR
MAXIMUM SYSTEM PRESSURE	225 PSIG	15.5 BAR
MAXIMUM SPEED	1800 RPM	
MAXIMUM FLUID TEMPERATURE	450° F	232° C
MINIMUM FLUID TEMPERATURE	-50° F	-46° C
NPSHR @ 1750	2 FEET	0.6 M
STANDARD PORT SIZE	1-1/2" FNPT	1-1/2" BSPT
WEIGHT-LESS MOTOR	10 LBS	4.5 KG

Performance

Capacity water at 70° F / 21.2° C



Notes: For continuous service:

- Plastic / Plastic gear combinations are limited to 50 psi or 3.5 bar.
- Metal / Plastic gear combinations are limited to 100 psi or 7 bar.
- Metal/Plastic gear combinations are limited to 150 psi or 10.3 bar.
- Horsepower requirements increase for viscous fluids.

Specific Solutions

Gear/bearing design allows for “trimming” for optimizing the pump’s maximum flow to reach minimum turndown or to match flow to a specific OEM’s requirement. Special materials combinations are available for specific liquids:

- 316 stainless or Alloy C housing construction.
- Gears available in 316 stainless, Alloy C. Also in PTFE White and Polyetheretherketone.
- Shafts are 316 stainless steel or Alloy C.
- Bearings available in Carbon, or PTFE White or PTFE Red.
- Full range of seal options including lip seal and mechanical design.

Life Cycle/Cost of Ownership

Pump design and materials selection, together provide the longest life available from a gear pump. Key attributes include:

- Gear & bearing combinations of metallic and nonmetallic wear surfaces.
- Slotted bearings to lubricate shaft and gear surfaces.
- Hydraulic porting to balance axial thrust and to reduce wear.
- Ample port sizing to reduce the likelihood of cavitation when inlet pressure is marginal.
- Effective housing seals with elastic memory prevent leakage of corrosives.

