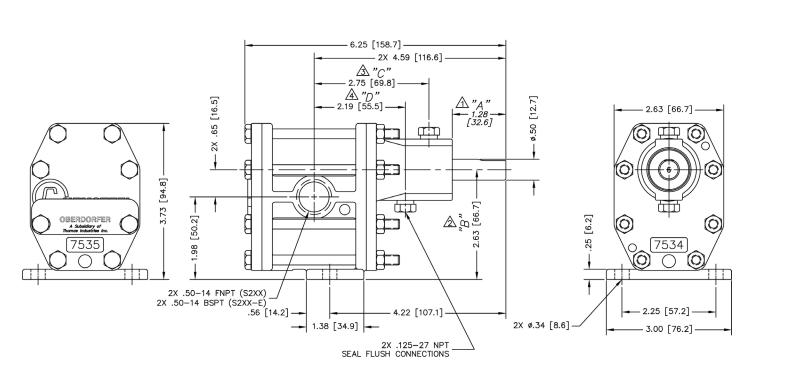
CHEMSTEEL S214 Metallic



DIMENSION "A" IS APPROXIMATELY .72 [18.2] FOR PACKING PUMPS WITH PACKING NUT INSTALLED. DIMENSION "A" IS 1.26 [32.0] FOR LIP SEAL PUMPS.

- STANDARD UPPER DRIVE SHOWN. FOR LOWER DRIVE ARRANGEMENT DIMENSION "B" IS 1.33 [33.7].

A DIMENSION "C" IS APPROXIMATELY 2.25 [57.2] FOR PACKING PUMPS WITH LANTERN LUBE PORT OPTION. DIMENSION "C" IS 2.05 [52.1] FOR LIP SEAL PUMPS.

- A DIMENSION "D" IS N/A FOR PACKING PUMPS. DIMENSION "D" IS 2.05 [52.1] FOR LIP SEAL PUMPS.

To order a CHEMkitTM, simply add a "K" to the end of the model number. A repair kit contains the following parts: bearings, gears, o-rings, shafts, keys, and retaining ring.



Visit www.oberdorferpumps.com to find in-depth descriptions of the world's leading high-quality, dependable pumps.

Due to ongoing product improvements, data shown here is subject to change without notice. Contact Oberdorfer Pumps for latest specifications.



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, threesection, 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.

LIFE CYCLE/COST OF OWNERSHIP

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

Key attributes include:

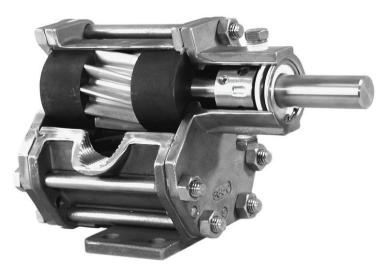
- · Gear & bearing combinations of metallic and nonmetallic wear surfaces.
- Slotted bearings to lubricate shaft and gear surfaces.
- Hydraulic porting to balance axial thrust and to reduce wear.
- Ample port sizing to reduce the likelihood of cavitation when inlet pres sure is marginal.
- · Effective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

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.

5900 Firestone Drive, Syracuse, NY 13206 Phone: (800) 448-1668; (315) 437-0361 • Fax: (315) 463-9561



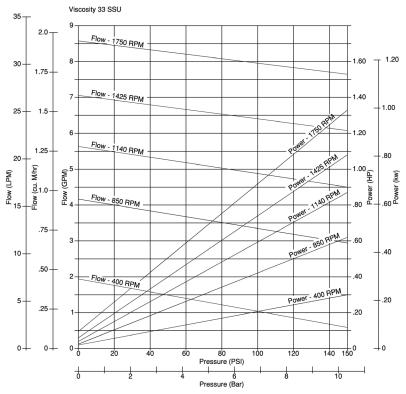


A full range of accessories are available including:

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

PERFORMANCE:

CAPACITY WATER AT 70°F



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.

CHEMSTEEL S214 Metallic

Special materials combinations are available for specific liquids:

- Stainless or Alloy C housing construction.
- · Gears available in 316 stainless, W88 stainless and Alloy C. Also in PTFE, Polyphenylenesulfide and Polyaryletherketone
- · Shafts are 316 stainless steel or Alloy C.
- · Bearings available in Carbon or PTFE.

Full range of seal options including lip seal, packing and mechanical designs.

FIT

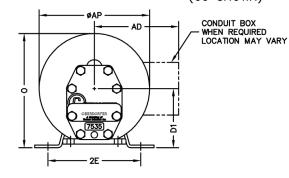
Connections are 1/2" female NPT or BSPT, pump hardware is metric and close couple adapters

mount to both NEMA and IEC standard motor frame sizes for world wide acceptance. "Near" dimensional interchangeability offers easy upgrade to Chemsteel[™] pump. The port size is the same as competitive pumps.

MAINTENANCE

A three-part housing provides easy disassembly and service. Full size bearings match the gear diameter, and eliminate the need for separate wear plates. TFE encapsulating silicone o-ring pump housing seals provide elastic memory to assure an effective long lasting seal and thus avoiding the re-torquing required of pumps using pure TFE.

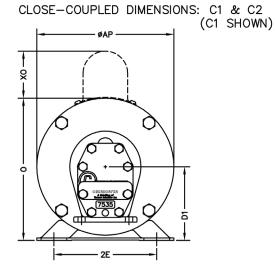




| | MOUNTED ADAPTER CODE | KIT PART NO. | MOTOR FRAME | | D1 |
|--|-------------------------|-----------------|------------------|-------------|------|
| | C3 | M2AD71E | IEC 71, B14 FACE | inches | 2.80 |
| | | | IEC 71, BI4 FACE | millimeters | 71 |
| | C4 | M2AD80E | IEC 80, B14 FACE | inches | 3.15 |
| | | | | millimeters | 80 |

 \bigodot These dimensions vary depending on hp, enclosure, speed and motor manufacturer. Specifications are subject to change without notification.

| MODEL | S214 | | |
|-------------------------------|--------------------|------------|--|
| Maximum flow @1750 rpm | 8 GPM | 30.3 LPM | |
| Theoretical displacement | 22.2 cc/revolution | | |
| Maximum differential pressure | 150 psig | 10.3 bar | |
| Maximum system pressure | 300 psig | 20.7 bar | |
| Maximum speed | 1800 RPM | | |
| Maximum fluid temperature | 450° F | 232° C | |
| Minimum fluid temperature | -50° F | -46° C | |
| NPSHR @ 1750 RPM | 4 feet | 1.2 meters | |
| Standard port size | 1/2" FNPT | 1/2" BSPT | |
| Weight (lbs) | 13 lbs | 2.7 kg | |

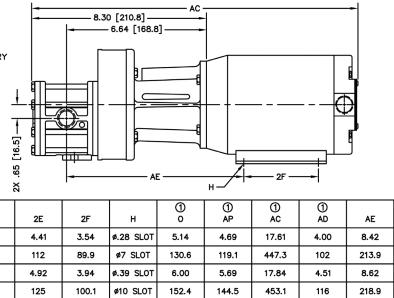


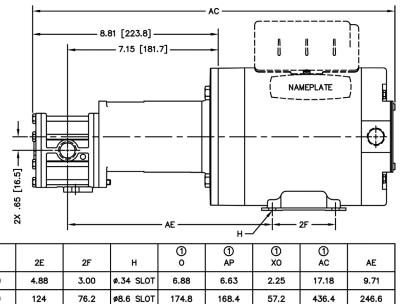
| MOUNTED ADAPTER CODE | KIT PART NO. | MOTOR FRAME | | | D1 |
|-------------------------|-----------------|----------------|-------|-------------|-------|
| C1 | M2AD56 | 56C | | inches | 3.50 |
| | | | | millimeters | 88.9 |
| C2 | M2AD45T | 143TC | 145TC | inches | 3.50 |
| | | | | millimeters | 88.9 |
| | | 182C | 184C | inches | 4.50 |
| | | | | millimeters | 114.3 |

 \bigoplus These dimensions vary depending on hp, enclosure, speed and motor manufacturer. Specifications are subject to change without notification.



OBERDORFER PUMPS by Gardner Denver





124 76.2 Ø8.6 SLOT 174.8 168.4 57.2 436.4 <u>5.50</u> Ø.34 SLOT 6.88 6.63 2.25 8.37 19.8 Ø8.6 SL

9.53