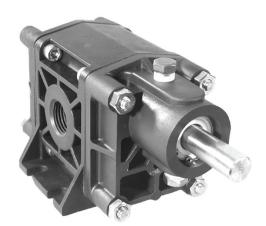


CHEMSTEEL

S205 Non-Metallic



A full range of accessories are available including: kits for base mounting, or close-coupling, line mount 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 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 pressure is marginal.
- Effective housing seals with elastic memory prevent leak age of corrosives.

SPECIFIC SOLUTIONS

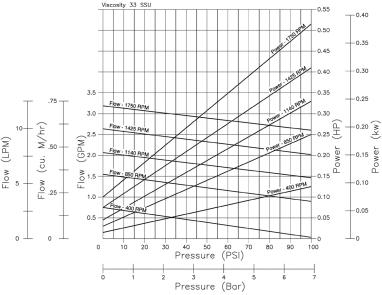
Gear/bearing design allows for "trimming" for optimizing the pump's maximum flow to reach minimum turndown or to match flow to a specific OEM's requirement.

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

PERFORMANCE:

CAPACITY WATER AT 70° F / XX° 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. Horsepower requirements increase for viscous fluids.

- 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 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.

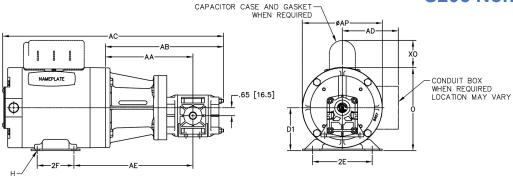
MAINTENANCE

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. The upper shaft configuration lends itself to in-line pump seal maintenance without the leakage of trapped chemicals from an incompletely drained pump.

MODEL	S205	5 NM				
Maximum flow @1750 rpm	3 GPM	11.4 LPM				
Theoretical displacement	7.4 cc/revolution					
Maximum differential pressure	100 psig	6.9 bar				
Maximum system pressure	200 psig	13.8 bar				
Maximum speed	1800 RPM					
Maximum fluid temperature	200° F	93.3° C				
Minimum fluid temperature	-40° F	-40° C				
NPSHR @ 1750 RPM	3 feet	0.9 meters				
Standard port size	1/2" FNPT	1/2" BSPT				
Weight (lbs)	3 lbs	1.4 kg				

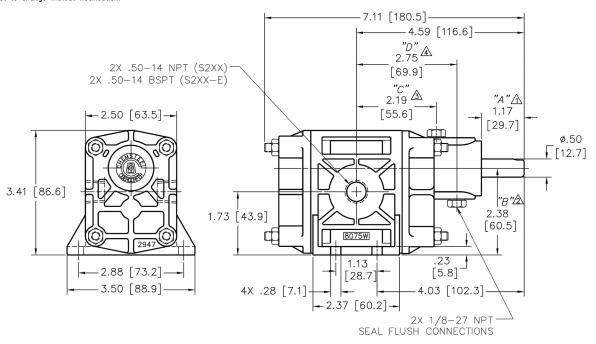


S205 Non-Metallic



MOUNTED ADAPTER CODE	KIT PART NO.	MOTOR FRAME			D1	2E	2F	н	①	① AP	① xo	AA	AB	① AC	AD	AE	
C1	M2AD56R	6R 56C	inches	3.50	4.88	3.00	ø.34 SLOT	6.88	6.63	2.25	7.14	9.66	18.04	-	9.71		
			millimeters	88.9	124	76.2	ø8.6 SLOT	174.8	168.4	57.2	181.4	245.4	458.1	-	246.6		
C2	M2AD45TR	MOAD 45TD	143TC	145TC	inches millimeters	3.50 88.9	5.50 139.7	4.00 5.00 102 127	Ø.34 SLOT Ø8.6 SLOT	6.88 174.8	6.63 168.4	2.25 57.2	7.14	9.66	19.23 20.73 488.4 526.5	-	9.53 242.1
		182C	184C	inches millimeters	4.50 114.3	7.50 190.5	4.50 5.50 114.3 139.7		8.69 220.7	7.88 200	2.38 60.3	181.4	245.4	21.95 21.17 557.5537.7	-	10.03 254.8	
С3	M2AD71RE I	M2AD71RE IEC 71, B14 F/	D14 EACE	inches	2.80	4.41	3.54	ø.28 SLOT	5.14	4.69	-	6.64	9.16	18.47	4.00	8.42	
		MZAD/IRE ILC /I, BI4 FACE		millimeters	71	112	89.9	ø7 SLOT	130.6	119.1	-	168.7	232.7	469	102	213.9	
C4	M2AD80RE	M2AD80RE IEC 80, B14 F	D14 EACE	inches	3.15	4.92	3.94	ø.39 SLOT	6.00	5.69	-	6.64	9.16	18.70	4.51	8.62	
		ZADBORE TEC 80, BT4 FACE	millimeters	80	125	100.1	ø10 SLOT	152.4	144.5	-	168.7	232.7	474.9	116	218.9		

① These dimensions vary depending on hp, enclosure, speed and motor manufacturer. Specifications are subject to change without notification.



DIMENSION "A" IS APPROXIMATELY .84 [21.3] FOR PACKING PUMPS WITH PACKING NUT INSTALLED. DIMENSION "A" IS 2.25 [57.2] FOR LIP SEAL PUMPS.

STANDARD UPPER DRIVE SHOWN.

FOR LOWER DRIVE ARRANGEMENT DIMENSION "B" IS 1.08 [27.4].

 $\stackrel{\triangle}{3}$ DIMENSION "C" IS APPROXIMATELY 1.73 [43.9] FOR LIP SEAL PUMPS.

A DIMENSION "D" IS APPROXIMATELY 1.73 [43.9] FOR LIP SEAL PUMPS.

To order a CHEMkit™, 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.



OBERDORFER PUMPS

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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.