

CHEMSTEEL®

Rotary Gear Pumps—High Temperature

- Max. temp.: 450°F
- Max. viscosity: 100 SSU, except Pedestal are 500 SSU
- Metering accuracy ±0.5%
- Self-priming

Quietly transfer highly corrosive liquids at higher pressures and temperatures. Pumps have a 316 stainless steel housing and feature Waukesha 88 nongalling helical gears. With heavy-duty 1-pc. combination bearing and full-size carbon bearing wear plate; sized to match the full gear diameter. Pump housings have through-bolt construction with PTFE-encapsulated silicone O-ring housing seals and a seal flush chamber. Other wetted materials include 316 stainless steel, W88 helical gears, PTFE, Kalrez, ceramic, and carbon. Bidirectional rotation. 3-phase pumps do not

have overload protection, which must be provided by a starter unit sold separately, see page 160.

Magnetic Drive—These sealless pumps are used to transfer harsh and aggressive chemicals in environmentally sensitive or regulated areas.

- Max. pressure: 110 psi

Mechanical Seal—Type 9T stainless steel and PTFE mechanical shaft seals handle many harsh chemical liquids.

- Max. pressure: 150 psi (2ERA9 is 110 psi)



**Magnetic Drive
2ERE7**



**Mechanical Seal
2ERC3**



**Rotary Gear
Pump Head
6KXR2**

HP	Phase	Voltage	Amps	Port Size (NPT)	NEMA Motor Frame	GPM @ Free Flow @ 1725 rpm	GPM @ 1725 rpm 100 psi*	Suction Lift (ft.)	MAGNETIC DRIVE Item No.	MECHANICAL SEAL Item No.
Rotary Gear Pumps										
1/4 hp	1	115/230	6/3	1/4 in	56C	0.6 gpm	0.37 gpm	1.5 ft	2ERE7	2ERA9 #
1/4 hp	1	115/230	6/3	1/4 in	56C	1.5 gpm	1.12 gpm	2 ft	2ERE8	2ERC1 #
1/4 hp	1	115/230	6/3	1/2 in	56C	2 gpm	1.6 gpm	3 ft	2ER9	2ERC2 #
1/2 hp	1	115/230	8/4	1/2 in	56C	3 gpm	2.2 gpm	4 ft	2ERF1	2ERC3 #
3/4 hp	1	115/230	8.4/4.2	1/2 in	56C	4 gpm	3.7 gpm	5 ft	2ERF2	2ERC4 #
1 hp	1	115/230	12.8/6.4	1/2 in	56C	5.6 gpm	5.25 gpm	6 ft	2ERF3	2ERC5 #
1 1/2 hp	3	230/460	5/2.5	1/2 in	56C	8 gpm	7.5 gpm	8 ft	2ERF4	2ERC6 #
1 1/2 hp	3	230/460	5/2.5	3/4 in	56C	10 gpm	9.25 gpm	9 ft	2ERF5	2ERC7 #
3 hp	3	230/460	8.3/4.15	1 1/2 in	182TC	14.9 gpm	12.4 gpm	10 ft	2ERF6	2ERC8 #
3 hp	3	230/460	8.3/4.15	1 1/2 in	182TC	20 gpm	17.6 gpm	12 ft	2ERF7	2ERC9 #
5 hp	3	230/460	13.2/6.6	1 1/2 in	182TC	23 gpm	20.1 gpm	15 ft	2ERF8	2ERD1 #
5 hp	3	230/460	13.2/6.6	1 1/2 in	182TC	30 gpm	27 gpm	17 ft	2ERF9	2ERD2 #

Recommended Motor HP	Port Size (NPT)	NEMA Motor Frame	Free Flow (gpm)	GPM @ 40 psi*	GPM @ 50 psi*	Max. Pressure	Suction Lift	Mr. Model	Item No.
Rotary Gear Pump Heads, Mechanical Seal									
1/4 hp	1/4 in	56C	0.6 gpm	0.5 gpm	0.5 gpm	110 psi	1.5 ft	R10216CA	6KXR2 #
1/4 hp	1/4 in	56C	1.4 gpm	1.3 gpm	1.3 gpm	150 psi	2 ft	R10316CA	6KXR3 #
1/4 hp	1/2 in	56C	2.1 gpm	1.9 gpm	1.8 gpm	150 psi	3 ft	R10416CA	6KXR4 #
1/2 hp	1/2 in	56C	2.8 gpm	2.5 gpm	2.5 gpm	150 psi	4 ft	R10616CA	6KXR5 #
3/4 hp	1/2 in	56C	4.4 gpm	4.2 gpm	4.2 gpm	150 psi	5 ft	S20716CA	6KXR6 #
1 hp	1/2 in	56C	6.2 gpm	5.9 gpm	5.8 gpm	150 psi	6 ft	S21016CA	6KXR7 #
1 1/2 hp	1/2 in	56C	8.6 gpm	8.3 gpm	8.3 gpm	150 psi	8 ft	S21416CA	6KXR8 #
1 1/2 hp	3/4 in	56C	10.5 gpm	10.1 gpm	10 gpm	150 psi	9 ft	S41716CA	6KXR9 #
3 hp	1 1/2 in	182TC	14.9 gpm	13.9 gpm	13.7 gpm	150 psi	10 ft	S92316CA	6KXT0 #
3 hp	1 1/2 in	182TC	19.6 gpm	18.8 gpm	18.6 gpm	150 psi	12 ft	S93016CA	6KXT1 #
5 hp	1 1/2 in	184TC	22.4 gpm	21.6 gpm	21.4 gpm	150 psi	15 ft	S93516CA	6KXT2 #
5 hp	1 1/2 in	184TC	29.5 gpm	28.6 gpm	28.4 gpm	150 psi	17 ft	S94616CA	6KXT3 #

Close Coupled Motor Adapters

- For Use With Pump Models R102 thru R106
- For Use With Pump Models S207 thru S214
- For Use With Pump Models S417
- For Use With Pump Models S923 thru S946

* To convert to feet of head divide by 2.31. † 3-phase models are inverter-duty rated and meet NEMA MG 1 Part 31.4.4.2 in constant and variable-torque applications with a 20:1 turndown ratio; see page 157 for AC Adjustable Frequency Drives. # Oberdorfer Chemsteel brand.

Dayton®

Hot Oil and Filtration Pumps

- Max. temp.: 375°F
- Max rpm: 1725

Bidirectional pumps feature all cast-iron construction and provide a near-pulseless flow in intermittent-duty commercial hot oil transfer applications. Nonlogging pumps have spur gears, and are able to pass nonabrasive particulates and reduce oil shear. Suitable for use in commercial fat fryers, filtration processes, and cooking oil waste removal. Not for use with water-based fluids. Include motor with ODP enclosure, except 6DHH7 and 6DHH8.

Rotary Gear Pumps, Carbonator Mount

- Max. viscosity: 100 SSU

Rotary Gear Pumps, Close-Coupled—Include relief valve.

- Max. viscosity: 100 SSU

Rotary Gear Pump Heads, Carbonator Mount

- Max. viscosity: 100 SSU



6DHH9



6DHJ2



6DHH7

HP	Voltage	Amps	Port Size (NPT)	GPM Free Flow	GPM @ 40 psi	GPM @ 50 psi	Suction Lift (ft.)	Max. Pressure (psi)	Seal	Item No.
Rotary Gear Pumps, Carbonator Mount										
1/4 hp	115/230	6.0/3.0	1/2 in	4.1 gpm	3.4 gpm	—	5.1 ft	40 psi	Viton Lip	6DHH9
1/2 hp	115/230	8.4/4.2	1/2 in	5.2 gpm	4.4 gpm	—	6.2 ft	40 psi	Silicone Lip	6DHJ0
Rotary Gear Pumps, Close-Coupled										
3/4 hp	115/230	11.6/5.8	3/4 in	9.9 gpm	8.1 gpm	7.7 gpm	12.3 ft	60 psi	Viton Mechanical	6DHJ2
Rotary Gear Pump Heads, Carbonator Mount										
1/2 hp	—	—	1/2	5.2 gpm	4.4 gpm	—	6.2	40	Viton Lip	6DHH7
1/4 hp	—	—	1/2	4.1 gpm	3.4 gpm	—	5.1	40	Viton Lip	6DHH8