



## Adjustable Pressure Relief Valves

- Operate in any position
  - Max. temp.: 180°F
- Pressure can be set to maximize discharge performance. Some bypass may occur.

**WARNING:** For use with positive displacement pumps only. Not designed for complete shutoff. Not for hot water heaters, boilers, or steam service. Install only on pressure side of pump to relieve pressure. Using valves under or over rated pressure will cause valve to leak.

Max. Flow (gpm)	Pressure Range (psi)	Body Material	Wetted Materials	Inlet Port (in.)	Outlet Port (in.)	Item No.
6 gpm	300 to 600	Bronze	Stainless Steel	½ (M)NPT	½ (F)NPT	4KGZ8
6 gpm	300 to 600	Bronze	Stainless Steel	¾ (M)NPT	¾ (F)NPT	4KG27
13 gpm	0 to 150	Nylon	Nylon	¾ (M)NPT	¾ (F)NPT	4KG29
22 gpm	0 to 250	Nylon	Nylon	¾ (M)NPT	¾ (F)NPT	4KHA3
25 gpm	0 to 300	Bronze	Stainless Steel	¾ (M)NPT	¾ (F)NPT	4KHA1
40 gpm	0 to 400	Bronze	Stainless Steel	1 (M)NPT	¾ (F)NPT	4KHA2

## Intermittent-Duty Rotary Gear Pumps—Carbonator-Mount



- Max. viscosity: 500 SSU at 1750 rpm
- Max. operating pressure: 100 psi
- ODP motor enclosures
- Mechanical seals

### CAST-IRON

Max. temp.: 280°F  
Designed for oil-based fluids. Steel spur gears and shafts with Viton seals. Other wetted materials are cast iron, 303 stainless steel, carbon, and ceramic.

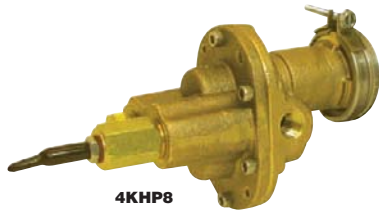
### BRONZE

Max. temp.: 210°F  
Handle water-based fluids. Carbon graphite bushings and Buna N seals. Other wetted materials are bronze, brass, Buna N gasket, and 303, 17-7, and 18-8 stainless steel.

These pumps are self-priming and have a pressure relief valve. Bidirectional (reversible) motor drive with thermal overload protection.

Port Size	GPM @ Free Flow	HP @ Free Flow*	GPM @ 100 psi	HP @ 100 psi	Suction Lift	CAST-IRON Item No.	BRONZE Item No.	
<b>Pump Only</b>								
¼ in	2.2 gpm	0.3333 hp	1.6 gpm	0.3333 hp	3.2 ft	4KHR1	4KHP8	
¾ in	4.4 gpm	0.5 hp	3.6 gpm	0.5 hp	3.6 ft	4KHR2	4KHP9	
HP	Voltage	Amps AC	Port Size (in.)	GPM @ Free Flow	GPM @ 100 psi	Suction Lift (ft.)	CAST-IRON Item No.	BRONZE Item No.
<b>Pump with Motor</b>								
½ hp	115/230	5.6/2.8	¼ in	2.2 gpm	1.3 gpm	3.2 ft	41TK24	41TK25
½ hp	115/230	7.2/3.6	¾ in	4.4 gpm	3 gpm	3.6 ft	41TK26	41TK27

\* Flow is based on pumping 10-weight oil at 70°F at 1725 rpm.



## Rotary Gear Pumps—Close-Coupled



- Max. viscosity: 500 SSU
- Max. pressure: 125 psi
- Mechanical seals
- Self-priming

Can be mounted on NEMA C-face motors to provide a near pulseless flow with easy maintenance. Feature ball bearings and keyed shafts.

### CAST-IRON

Max. temp.: 280°F  
ODP motor enclosures  
Steel spur gears handle oil-based fluids. Viton carbon/ceramic seal with cellulose gasket. Other wetted materials are cast iron and steel. With pressure relief valve.

### BRONZE

Max. temp.: 210°F  
ODP motor enclosures  
Fortron PPS spur gears have a linear polymer structure for greater strength, and transfer water-based liquids with no metal-to-metal contact; good chemical compatibility. Ryton

PPS gears have a cross-linked polymer construction and can resist a variety of solvents and corrosive chemicals. Carbon/ceramic/Buna N seal and carbon graphite bushings. Other wetted materials include bronze and brass. With pressure relief valve.

### 316 STAINLESS STEEL

- Max. temp.: 280°F
- TEFC motor enclosures

Fortron PPS spur gears are a linear polymer construction for added strength, and operate quietly with no metal-to-metal contact; good chemical resistance. Viton seal. Sealed flush chamber increases pump efficiency. Other wetted materials are 316 stainless steel, carbon graphite, Graphoil gasket, and ceramic.



Port Size	Motor Frame	GPM @ Free Flow	HP @ Free Flow	GPM @ 125 psi	HP @ 125 psi	Suction Lift	CAST-IRON, STEEL SPUR GEAR Item No.	BRONZE, FORTRON PPS SPUR GEAR Item No.	316 STAINLESS STEEL, FORTRON PPS SPUR GEAR Item No.
<b>Pump Only</b>									
¼ in	56C	4.8 gpm	0.5 hp	4.1 gpm	1 hp	3.5 ft	4KHC5	4KHA9	—
¾ in	56C	4.8 gpm	0.5 hp	4.1 gpm	1 hp	3.5 ft	—	—	4KHN7
¾ in	56C	7 gpm	0.75 hp	6.1 gpm	1.5 hp	7.9 ft	4KHC6	4KHC1	—
¾ in	56C	10.8 gpm	0.75 hp	9.7 gpm	1.5 hp	12.3 ft	4KHC7	4KHC2	4KHN8
1 in	182TC/184TC	24.8 gpm	1.5 hp	23.3 gpm	3 hp	19.5 ft	4KHC9	4KHC4	4KHN9

HP	Port Size (in.)	Gear Material	Motor Frame	GPM @ Free Flow	GPM @ 100 psi	Suction Lift (ft.)	Voltage	Item No.
<b>Pump with Motor</b>								
<b>Cast Iron</b>								
1 hp	¼ in	—	56HC	4.8 gpm	4.4 gpm	3.5 ft	115/230	41TK05
1 hp	¼ in	—	56C	4.8 gpm	4.4 gpm	3.5 ft	230/460	41TK13
1 hp	¾ in	—	56HC	7 gpm	6.5 gpm	7.9 ft	115/230	41TK09
1 ½ hp	¾ in	Steel	56C	7 gpm	6.5 gpm	7.9 ft	230/460	41TK16
1 hp	½ in	Spur	56HC	10.8 gpm	10.2 gpm	12.3 ft	115/230	41TK10
1 hp	½ in	—	56C	10.8 gpm	10.2 gpm	12.3 ft	230/460	41TK18
3 hp	1 in	—	182TC/184TC	24.8 gpm	23.9 gpm	19.5 ft	230/460	41TK21
<b>Bronze</b>								
1 hp	¼ in	—	56HC	4.8 gpm	4.4 gpm	3.5 ft	115/230	41TK06
1 hp	¼ in	—	56C	4.8 gpm	4.4 gpm	3.5 ft	230/460	41TK14
1 hp	¾ in	Fortron	56HC	7 gpm	6.5 gpm	7.9 ft	115/230	41TK08
1 ½ hp	¾ in	PPS	56C	7 gpm	6.5 gpm	7.9 ft	230/460	41TK17
1 hp	½ in	Spur	56HC	10.8 gpm	10.2 gpm	12.3 ft	115/230	41TK11
1 hp	½ in	—	56C	10.8 gpm	10.2 gpm	12.3 ft	230/460	41TK19
3 hp	1 in	—	182TC/184TC	24.8 gpm	23.9 gpm	19.5 ft	230/460	41TK22
<b>316 Stainless Steel</b>								
1 hp	¾ in	—	56HC	4.8 gpm	4.4 gpm	3.5 ft	115/230	41TK07
1 hp	¾ in	Fortron	56C	4.8 gpm	4.4 gpm	3.5 ft	230/460	41TK15
1 ½ hp	½ in	PPS	56HC	10.8 gpm	10.2 gpm	12.3 ft	115/230	41TK12
1 hp	½ in	Spur	56C	10.8 gpm	10.2 gpm	12.3 ft	230/460	41TK20
3 hp	1 in	—	182TC/184TC	24.8 gpm	23.9 gpm	19.5 ft	230/460	41TK23