

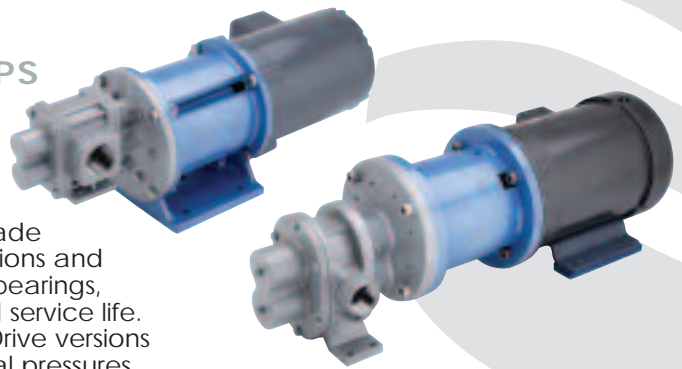
# H-SERIES

## HEAVY-DUTY INDUSTRIAL GEAR PUMPS

### H-Series

**Up to 225 PSI differential pressure**

The **H-Series Gear Pumps** were designed as an upgrade to Liquiflo's original 3-Series. With similar outside dimensions and capacities, the H-Series incorporates larger shafts and bearings, allowing them to handle higher pressures with extended service life. The H-Series pumps are available in Sealed and Mag-Drive versions with flows up to approximately **30 GPM** and differential pressures up to **225 PSI**.\* \* 300 PSI possible on some models. Contact factory.



The H-Series is recommended for all new applications as well as an upgrade to any existing 3-Series installations.

### H-Series Specifications

SEALED Long-Coupled							
SEALED MAG-DRIVE	<b>H1F</b> <b>H1F-MC</b>	<b>H3F</b> <b>H3F-MC</b>	<b>H5R</b> <b>H5R-MC</b>	<b>H5F</b> <b>H5F-MC</b>	<b>H7N</b> <b>H7N-MC</b>	<b>H7R</b> <b>H7R-MC</b>	<b>H7F</b> <b>H7F-MC</b>
Max Flow Rate	0.5 GPM (1.9 LPM)	1.4 GPM (5.3 LPM)	2.4 GPM (9.1 LPM)	3.4 GPM (13 LPM)	5.4 GPM (20 LPM)	8.6 GPM (33 LPM)	10.7 GPM (40.5 LPM)
Max Diff. Press.	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)
Max Discharge	300 PSI (20.7 BAR)	300 PSI (20.7 BAR)	300 PSI (20.7 BAR)	300 PSI (20.7 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)
Max Temp.	500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)
Max Viscosity	100,000* CPS	100,000* CPS	100,000* CPS	100,000* CPS	100,000* CPS	100,000* CPS	100,000* CPS
Max Speed	1750 RPM	1750 RPM	1750 RPM	1750 RPM	1750 RPM	1750 RPM	1750 RPM
NPSHR @ Max Speed	3 FT (0.9M)	2 FT (0.6M)	2 FT (0.6M)	2 FT (0.6M)	5.2 FT (1.6M)	5.2 FT (1.6M)	5.2 FT (1.6M)
Weight							
Sealed, LC	2.5 LBS (1.1 KGS)	2.5 LBS (1.1 KGS)	3.5 LBS (1.6 KGS)	3.5 LBS (1.6 KGS)	6.5 LBS (2.9 KGS)	6.5 LBS (2.9 KGS)	6.5 LBS (2.9 KGS)
Sealed, CC	23 LBS (10 KGS)	23 LBS (10 KGS)	24 LBS (11 KGS)	24 LBS (11 KGS)	29 LBS (13 KGS)	29 LBS (13 KGS)	29 LBS (13 KGS)
Mag-Drive, CC	31 LBS (14 KGS)	31 LBS (14 KGS)	32 LBS (15 KGS)	32 LBS (15 KGS)	36 LBS (16 KGS)	36 LBS (16 KGS)	36 LBS (16 KGS)

\* Higher viscosities possible. Contact factory.

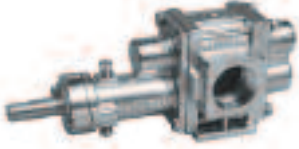
LC = Long-Coupled

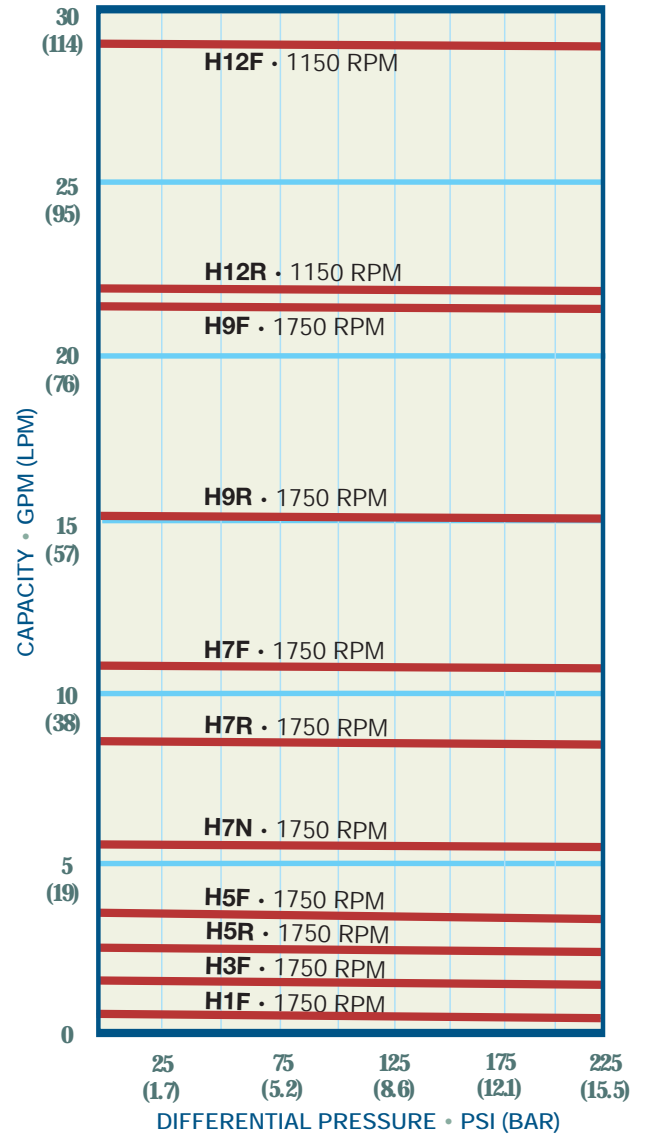
CC = Close-Coupled

**COMPOSITE  
GEAR PUMP  
PERFORMANCE  
CURVES**

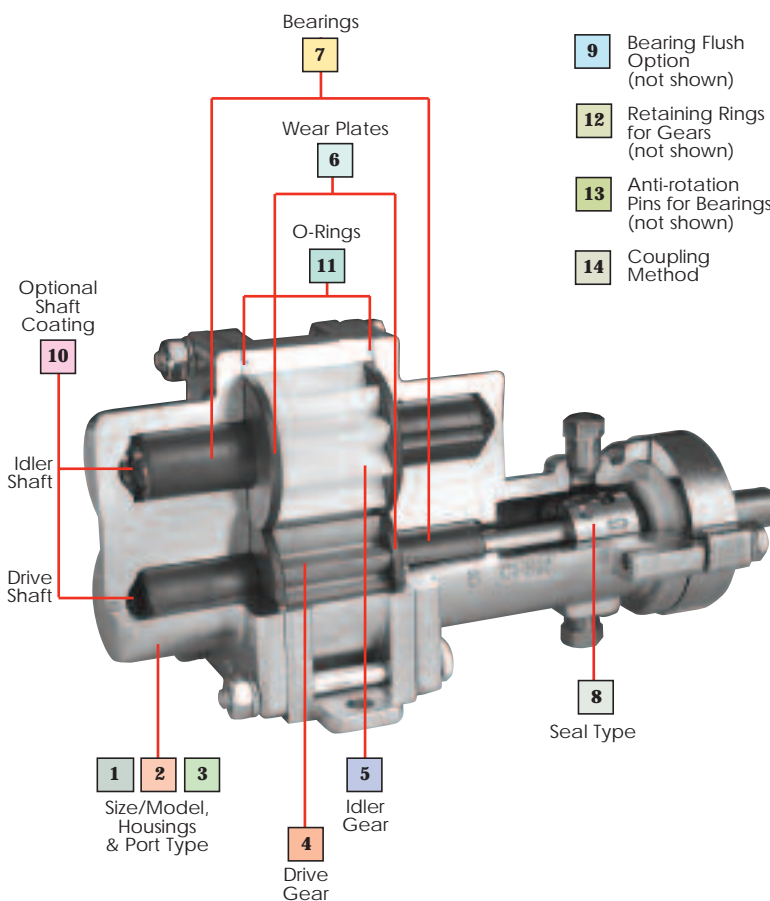
TEST FLUID:  
OIL (100 CPS)



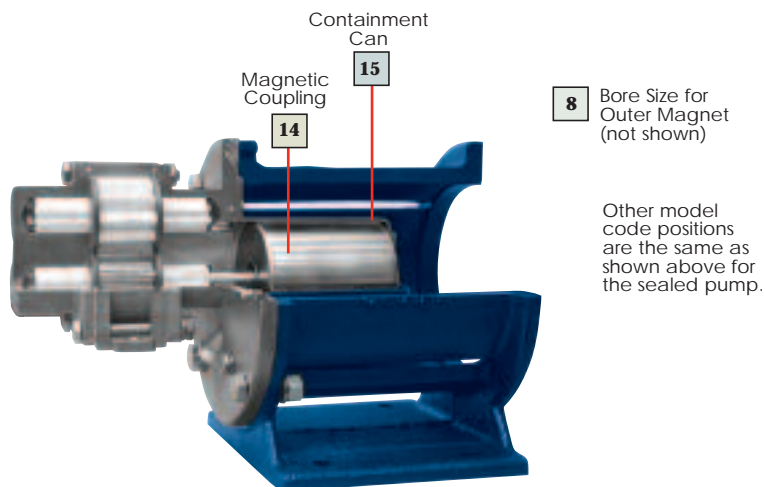
			
<b>H9R H9R-MC</b>	<b>H9F H9F-MC</b>	<b>H12R H12R-MC</b>	<b>H12F H12F-MC</b>
15 GPM (57 LPM)	21.5 GPM (81.4 LPM)	22 GPM (83 LPM)	29 GPM (110 LPM)
225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	225 PSI (15.5 BAR)
225 PSI (15.5 BAR)	225 PSI (15.5 BAR)	270 PSI (18.6 BAR)	270 PSI (18.6 BAR)
500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)	500 °F (260 °C)
100,000* CPS	100,000* CPS	100,000* CPS	100,000* CPS
1750 RPM	1750 RPM	1150 RPM	1150 RPM
4 FT (1.2M)	3 FT (0.9M)	5 FT (1.5M)	5 FT (1.5M)
8 LBS (3.6 KGS) 34 LBS (15 KGS) 38 LBS (17 KGS)	10 LBS (4.5 KGS) 36 LBS (16 KGS) 40 LBS (18 KGS)	52 LBS (24 KGS) 77 LBS (35 KGS) 95 LBS (43 KGS)	52 LBS (24 KGS) 77 LBS (35 KGS) 95 LBS (43 KGS)



**PUMP MODEL CODING**



**Sealed Pump**



**Mag-Drive Pump**

**EXAMPLE:**

H5FS6PEEU000000, designates a Model H5F Pump with Single Mechanical Seal.

<b>H5F</b>	<b>S</b>	<b>6</b>	<b>P</b>	<b>E</b>	<b>E</b>	<b>U</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
1&2	3	4	5	6	7	8	9	10	11	12	13	14	15				

Pos.	Description	Selection
1 & 2	Pump Model	H5E H5F Pump
3	Housing Mat'l	S 316 SS NPT
4	Drive Gear Mat'l	6 316 SS
5	Idler Gear Mat'l	P PEEK
6	Wear Plate Mat'l	E Carbon 60
7	Bearing Mat'l	E Carbon 60
8	Seal Type	U Single-Int, Carbon-SiC
9	Bearing Flush	Q None
10	Shaft Coating	Q None
11	O-Rings	Q Teflon
12	Retaining Ring	Q 316 SS
13	Bearing Pins	Q Teflon
14	Coupling Method	Q Close-Coupled (56C motor)
15	N/A	

Liquiflo's Model Code describes both the pump's size and materials selected. This model code is required for the future identification of your pump when reordering either a pump or replacement parts. Model code is permanently stamped into pump housing.

- Available
- ⊗ Not Available
- CF Contact Factory

Flanges available:

ANSI, DIN, JIS, or slip joint flanges conforming to the dimensions of the standard.

CONNECTION SIZES

	H1/H3	H5	H7	H9R	H9F	H12
NPT/BSPT	1/4	1/2	3/4	1	1 1/4	1 1/4
ANSI 150# RF FLG	1/2	1/2	3/4	1	1 1/4	1 1/2
DIN PN16	10	15	20	25	32	40
JIS 10K	10	15	20	25	32	40

Sample Model No. **H5** **F** **S** **6** **P** **E** **E** **U** **0** **0** **0** **0** **0** **0** **0** **0**

Position No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

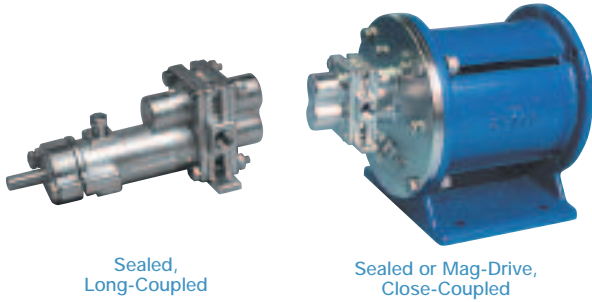
Position Model	1 Pump Model	H1	H3	H5	H7N	H7	H9	H12
Position Model	2 F = Full Capacity R = Reduced Capacity	■	■	■	⊗	■	■	■
Position Basic Material & Port Type	3 S = 316 SS NPT L = 316 SS Flanged X = 316 SS BSPT H = Alloy-C NPT C = Alloy-C Flanged Y = Alloy-C BSPT	■	■	■	■	■	■	■
Position Drive Gear	4 1 = Alloy-C 3 = Teflon 6 = 316 SS P = PEEK	■	■	■	■	■	■	■
Position Idler Gear	5 1 = Alloy-C 3 = Teflon 6 = 316 SS 8 = Ryton P = PEEK	■	■	■	■	■	■	■
Position Wear Plates	6 3 = Teflon 4 = Ceramic (SiC) E = Carbon 60 P = PEEK	■	■	■	■	■	■	■
Position Bearings	7 3 = Teflon B = Silicon Carbide E = Carbon 60 P = PEEK	■	■	■	■	■	■	■
Position Outer Magnet Bore (Mag-Drive)	8 0 = 0.625" (NEMA 56C/56HC) 1 = 0.875" (NEMA 143/145TC) 2 = 14 mm (IEC 71 - B5) 3 = 19 mm (IEC 80 - B5) 4 = 24 mm (IEC 90 - B5) 5 = 1.125" (NEMA 182/184TC) 6 = 1.375" (NEMA 213/215TC) 7 = 1.625" (NEMA 254/256TC)	■	■	■	■	■	■	■
Position Seal Type (Sealed)	8 U = Single-Int Carbon - SiC S = Single-Int Teflon - SiC F = Double Carbon - SiC H = Double Teflon - SiC L = Packing Teflon R = Packing Graphoil	■	■	■	■	■	■	■
Position Bearing Flush Option	9 0 = Standard Housings 1 = External Bearing Flush 2 = Internal Bearing Flush	■	■	■	■	■	■	■
Position Shaft Coating	10 0 = Material same as housing (uncoated) 1 = Ceramic 2 = Tungsten Carbide	■	■	■	■	■	■	■
Position O-Rings	11 0 = Teflon 6 = 316 SS / PTFE encapsulated B = Buna-N E = EPDM V = Viton K = Kalrez	■	■	■	■	■	■	■
Position Retaining Rings	12 0 = Material same as housing	■	■	■	■	■	■	■
Position Bearing Pins	13 0 = Teflon 1 = Alloy-C 6 = 316 SS	■	■	■	■	■	■	■
Position Coupling Method (Sealed)	14 0 = Close-Coupled (NEMA 56C/56HC) 1 = Close-Coupled (NEMA 143/145TC) 2 = Close-Coupled (IEC 71 - B5) 3 = Close-Coupled (IEC 80 - B5) 4 = Close-Coupled (IEC 90 - B5) 5 = Close-Coupled (NEMA 182/184TC) 6 = Close-Coupled (NEMA 213/215TC) 7 = Close-Coupled (NEMA 254/256TC) 9 = Long-Coupled	■	■	■	■	■	■	■
Position Magnetic Coupling (Mag-Drive)	14 U = 75 in-lbs B = 120 in-lbs V = 200 in-lbs K = 325 in-lbs J = 650 in-lbs	■	■	■	■	■	■	■
Position Containment Can	15 S = Single Wall Can D = Dual Kan	■	■	■	■	■	■	■
Suffix Trim Options	- 8 = Temperature Trim - 9D = Viscosity Trim (double clearance) - 9T = Viscosity Trim (triple clearance)	■	■	■	■	■	■	■

■ Long-coupled pumps (MC: 0.875" dia. shaft; Sealed: 1.125" dia. shaft)

# H1F SEALED H1F-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

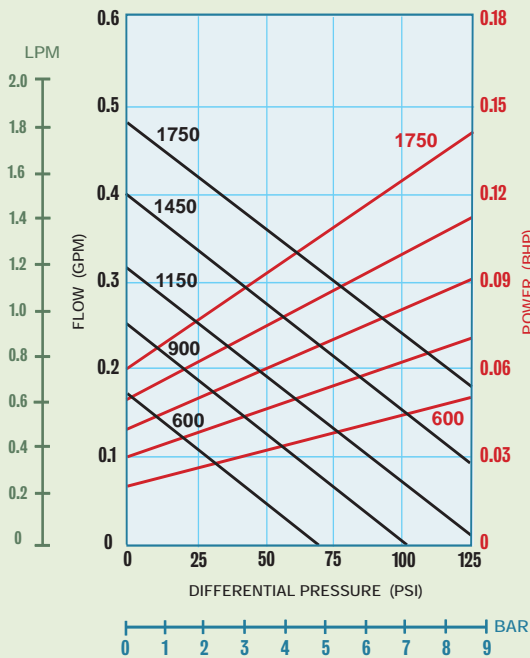


Sealed,  
Long-Coupled

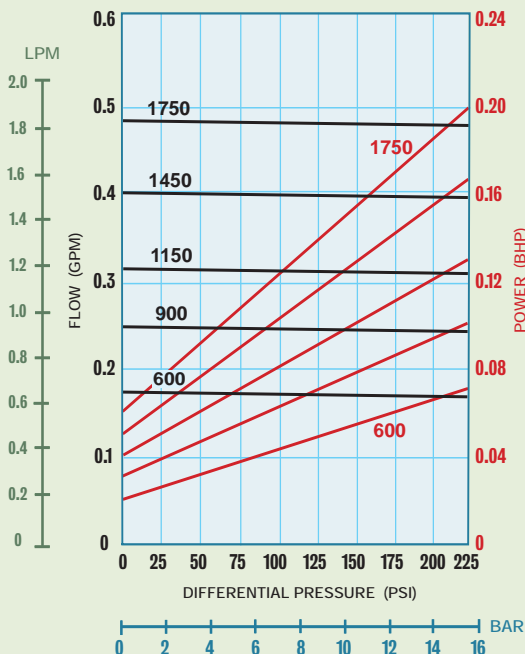
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

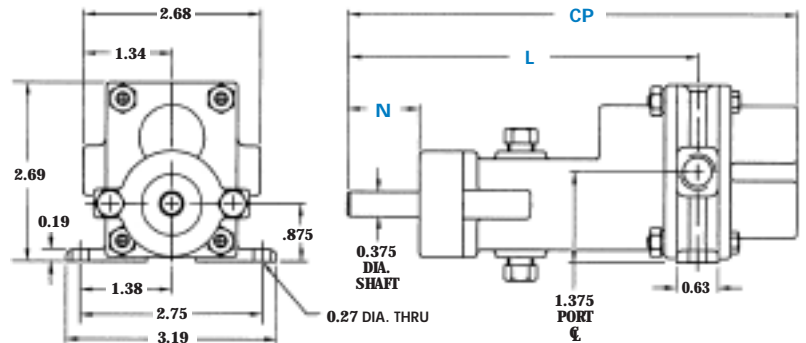


<b>PORT SIZE</b>	1/4" NPT/BSPT or 1/2" FLG
<b>MAX FLOW</b>	0.5 GPM; 1.9 LPM
<b>MAX DIFFERENTIAL PRESSURE</b>	225 PSI; 15.5 BAR
<b>MAX DISCHARGE PRESSURE</b>	300 PSI; 20.7 BAR
<b>MAX TEMPERATURE</b>	500°F; 260°C
<b>MIN TEMPERATURE</b>	-40°F; -40°C
<b>MAX VISCOSITY</b>	100,000* CPS
<b>NPSHR @ 1750 RPM</b>	3 FT; 0.9 M
<b>LIFT (DRY)</b>	0.5 FT; 0.15 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	2.5 LBS; 1.1 KGS
SEALED, Close-Coupled	23 LBS; 10 KGS
MAG-DRIVE, Close-Coupled	31 LBS; 14 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H1F Sealed, Long-Coupled



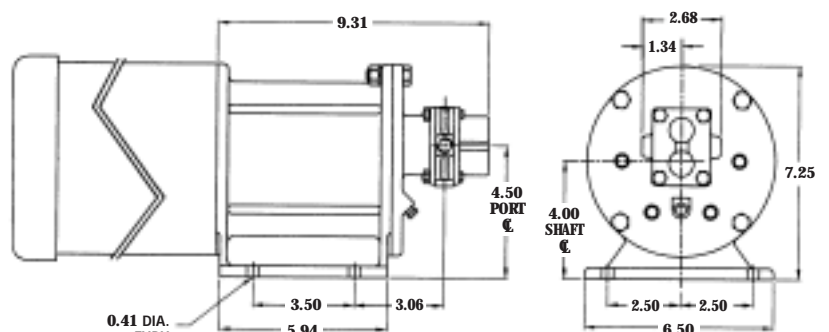
### SEAL CONFIGURATIONS

DIMENSION	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	6.94	6.94
L	5.44	5.44
N	1.12	1.19 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

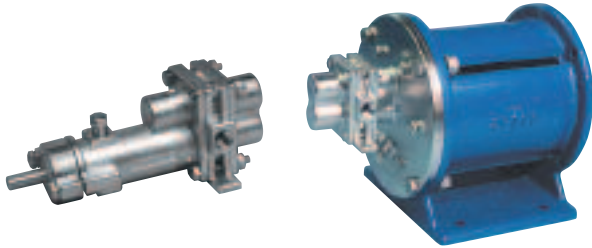
### H1F-MC & H1F Sealed, Close-Coupled



# H3F SEALED H3F-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

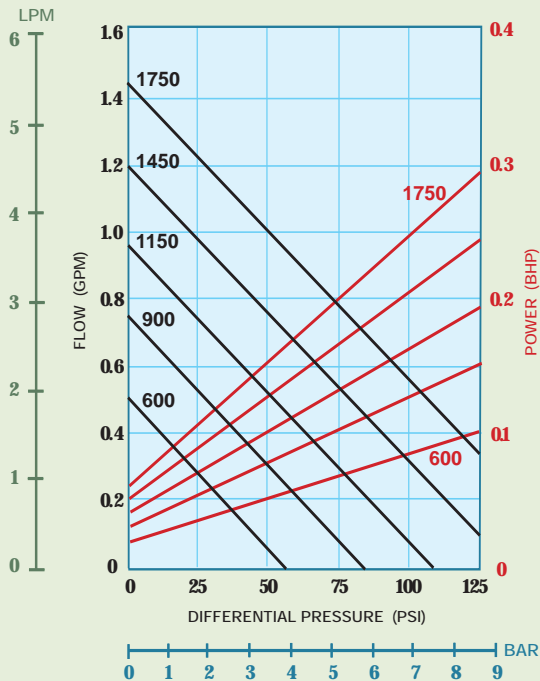


Sealed,  
Long-Coupled

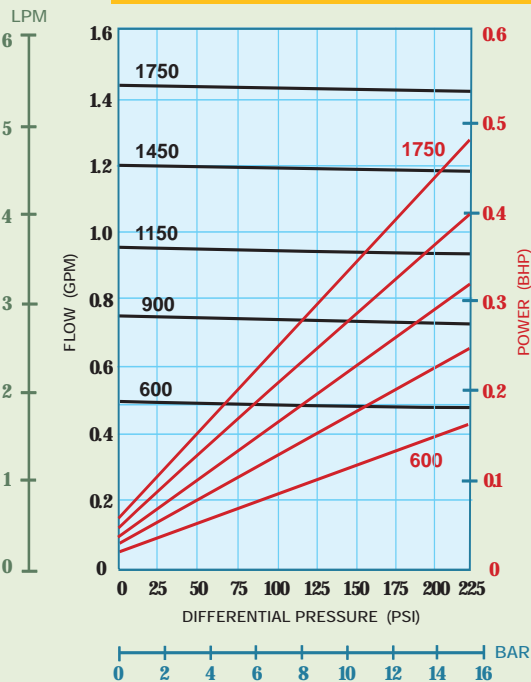
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

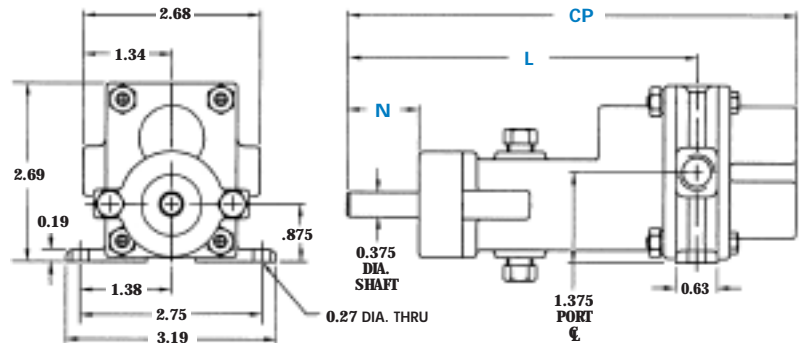


PORT SIZE	1/4" NPT/BSPT or 1/2" FLG
MAX FLOW	1.4 GPM; 5.3 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	300 PSI; 20.7 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40°C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1750 RPM	2 FT; 0.6 M
LIFT (DRY)	1.5 FT; 0.45 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	2.5 LBS; 1.1 KGS
SEALED, Close-Coupled	23 LBS; 10 KGS
MAG-DRIVE, Close-Coupled	31 LBS; 14 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H3F Sealed, Long-Coupled



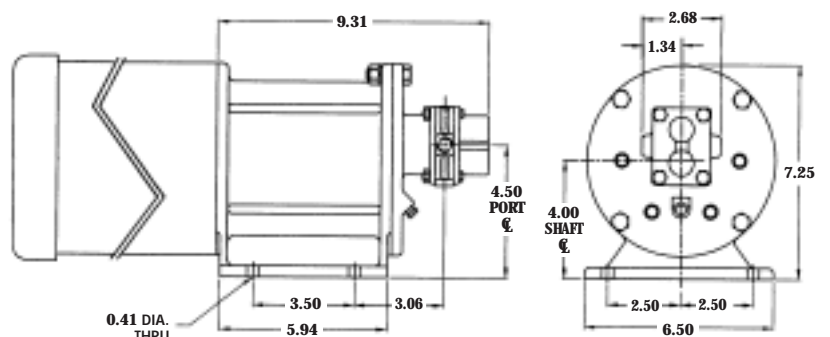
### SEAL CONFIGURATIONS

DIMENSION	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP(1)	6.94	6.94
L	5.44	5.44
N	1.12	1.19(2)

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

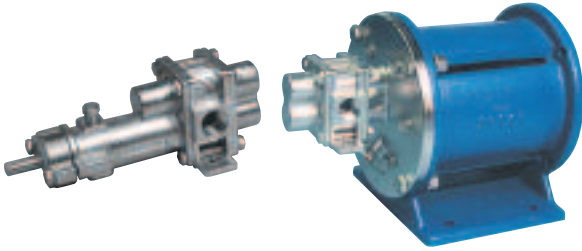
### H3F-MC & H3F Sealed, Close-Coupled



# H5R SEALED H5R-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

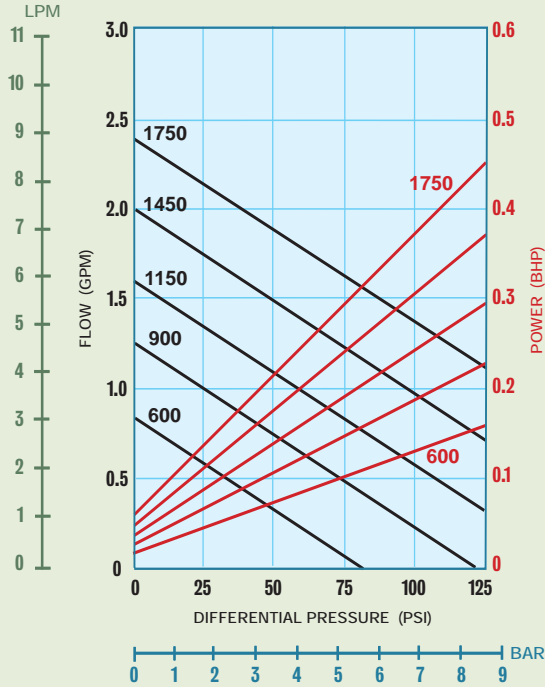


Sealed,  
Long-Coupled

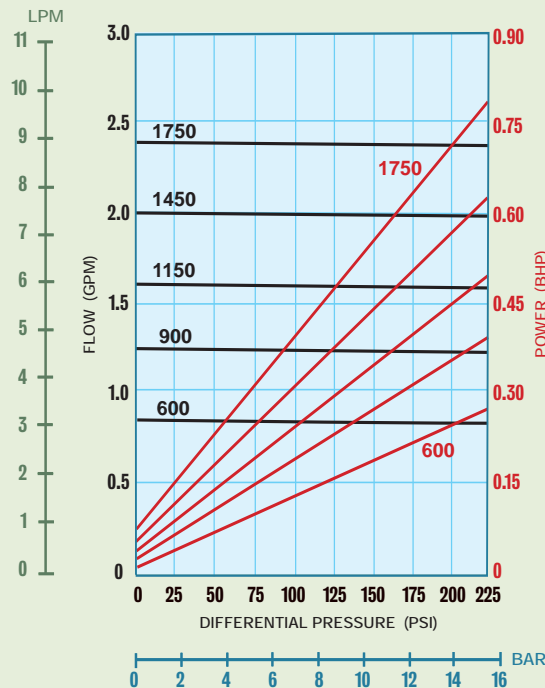
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

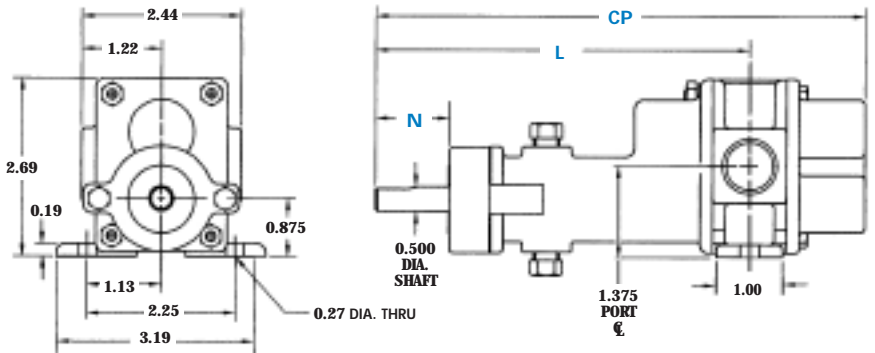


PORT SIZE	1/2" NPT/BSPT/FLG
MAX FLOW	2.4 GPM; 9.1 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	300 PSI; 20.7 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40°C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1750 RPM	2 FT; 0.6 M
LIFT (DRY)	2 FT; 0.6 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	3.5 LBS; 1.6 KGS
SEALED, Close-Coupled	24 LBS; 11 KGS
MAG-DRIVE, Close-Coupled	32 LBS; 15 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H5R Sealed, Long-Coupled



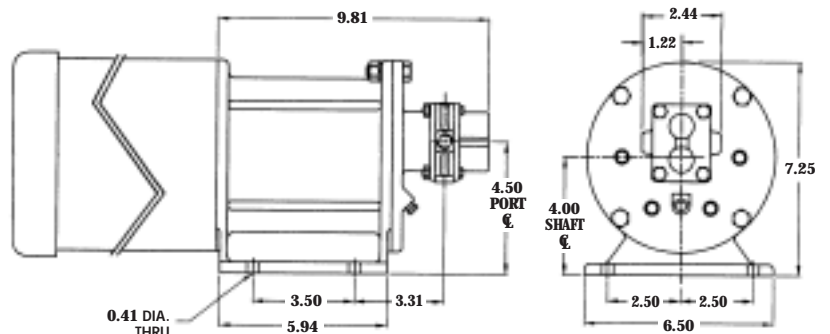
### SEAL CONFIGURATIONS

DIMENSION	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	7.42	7.42
L	5.67	5.67
N	1.12	1.13 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

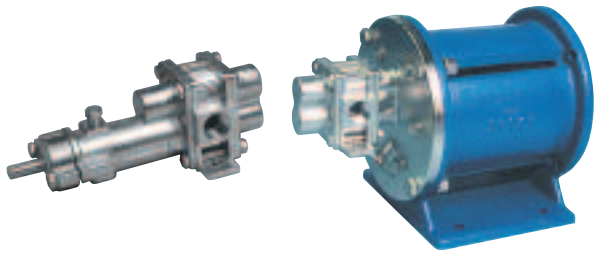
### H5R-MC & H5R Sealed, Close-Coupled



# H5F SEALED H5F-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

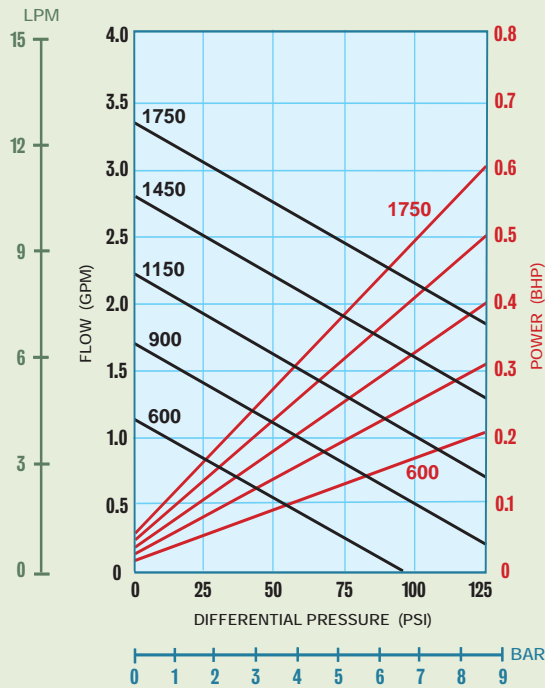


Sealed,  
Long-Coupled

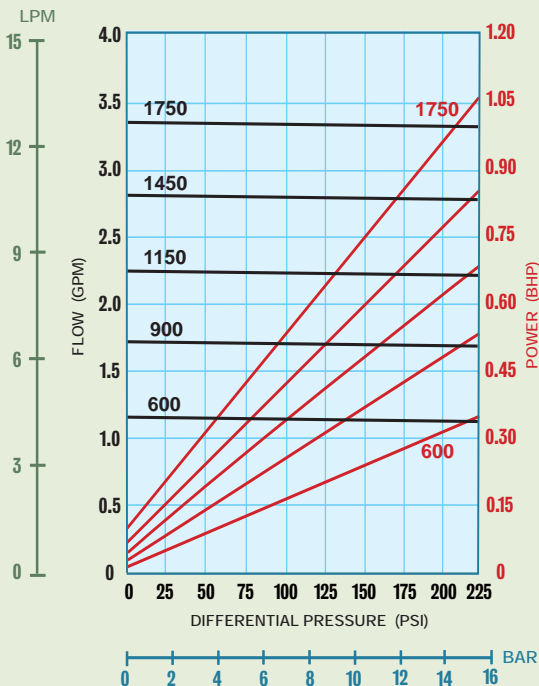
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

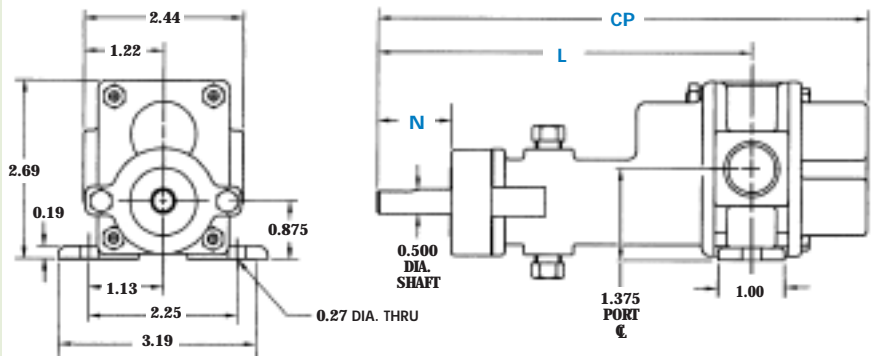


<b>PORT SIZE</b>	1/2" NPT/BSPT/FLG
<b>MAX FLOW</b>	3.4 GPM; 13 LPM
<b>MAX DIFFERENTIAL PRESSURE</b>	225 PSI; 15.5 BAR
<b>MAX DISCHARGE PRESSURE</b>	300 PSI; 20.7 BAR
<b>MAX TEMPERATURE</b>	500°F; 260°C
<b>MIN TEMPERATURE</b>	-40°F; -40°C
<b>MAX VISCOSITY</b>	100,000* CPS
<b>NPSHR @ 1750 RPM</b>	2 FT; 0.6 M
<b>LIFT (DRY)</b>	4 FT; 1.2 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	3.5 LBS; 1.6 KGS
SEALED, Close-Coupled	24 LBS; 11 KGS
MAG-DRIVE, Close-Coupled	32 LBS; 15 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H5F Sealed, Long-Coupled



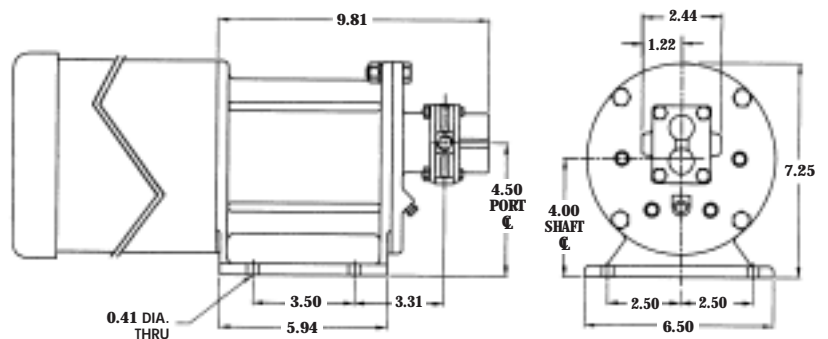
### SEAL CONFIGURATIONS

DIMENSION	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	7.42	7.42
L	5.67	5.67
N	1.12	1.13 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

### H5F-MC & H5F Sealed, Close-Coupled

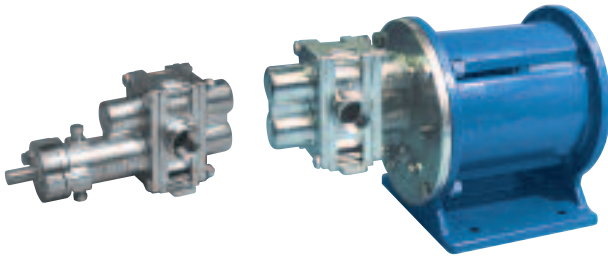




# H7N SEALED H7N-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

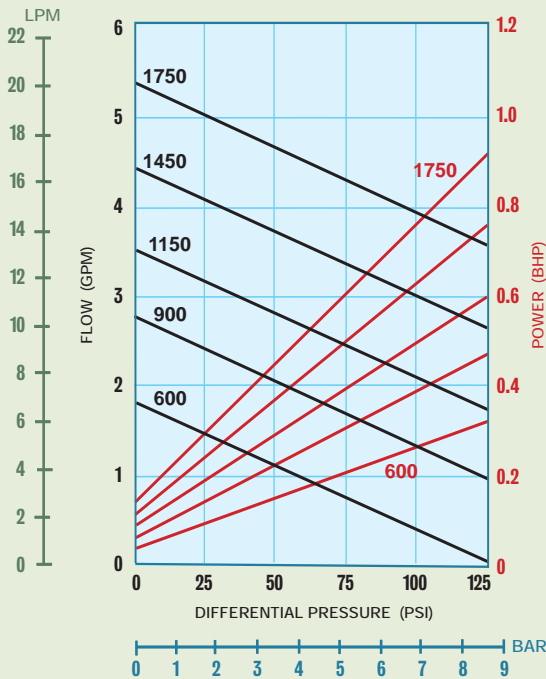


Sealed,  
Long-Coupled

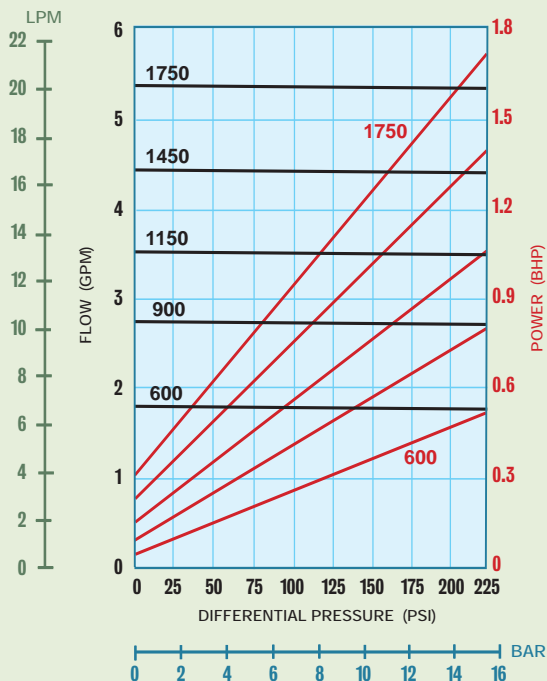
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



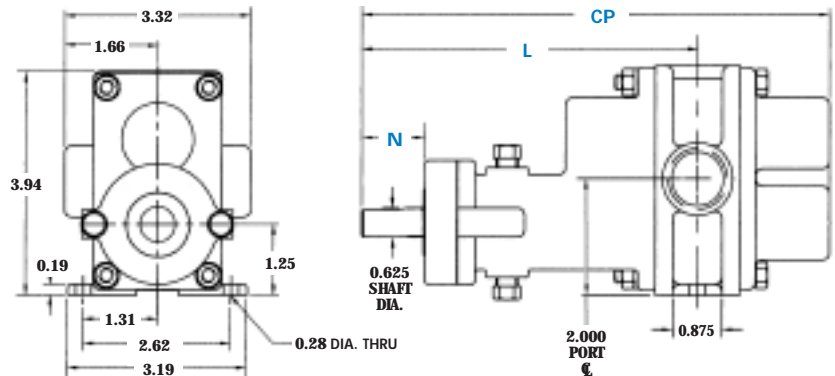
### 100 CPS Fluid (Oil)



PORT SIZE	3/4" NPT/BSPT/FLG
MAX FLOW	5.4 GPM; 20 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	225 PSI; 15.5 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40°C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1750 RPM	5.2 FT; 1.6 M
LIFT (DRY)	6 FT; 1.8 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	6.5 LBS; 3 KGS
SEALED, Close-Coupled	29 LBS; 13 KGS
MAG-DRIVE, Close-Coupled	36 LBS; 16 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

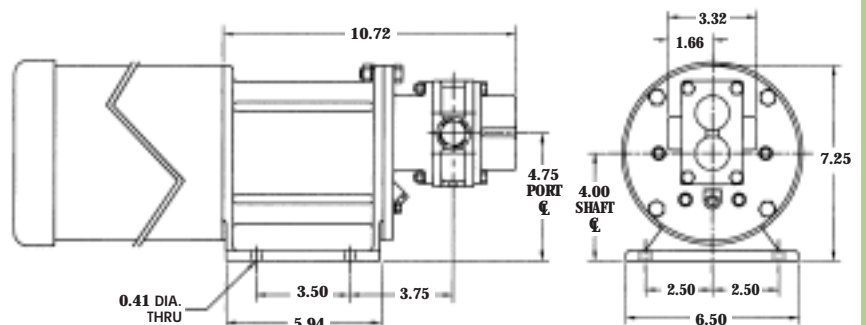


### H7N Sealed, Long-Coupled

DIMENSION	SEAL CONFIGURATIONS	
	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	8.20	8.20
L	5.98	5.98
N	1.23	1.25 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

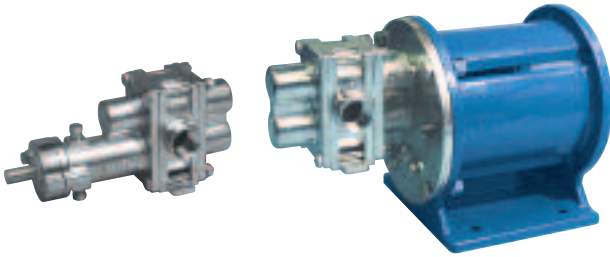


### H7N-MC & H7N Sealed, Close-Coupled

# H7R SEALED H7R-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

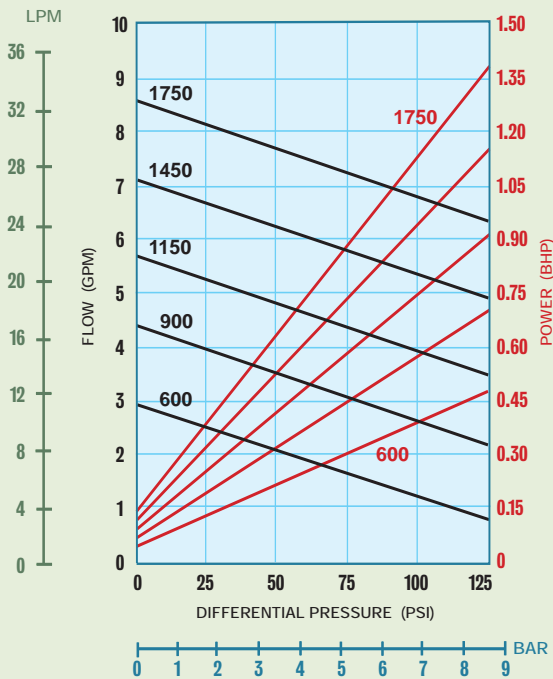


Sealed,  
Long-Coupled

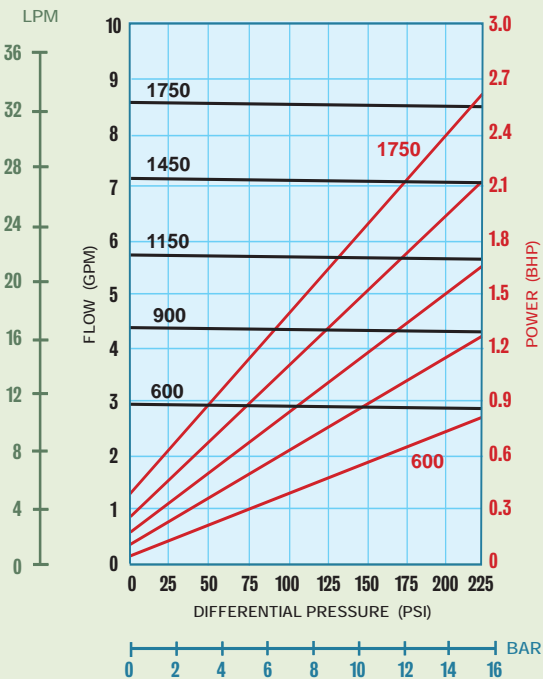
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

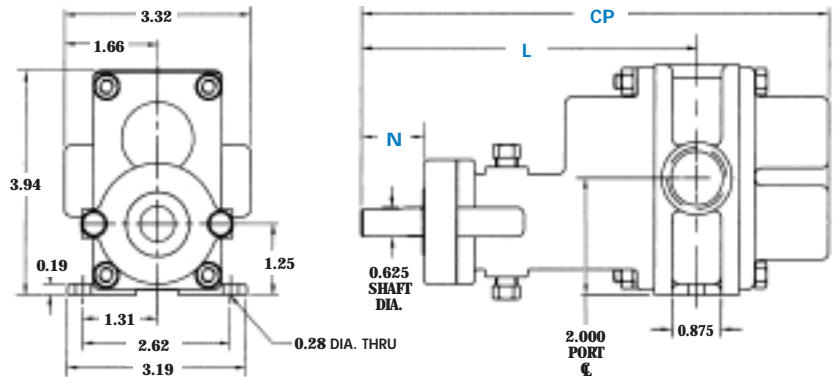


<b>PORT SIZE</b>	3/4" NPT/BSPT/FLG
<b>MAX FLOW</b>	8.6 GPM; 33 LPM
<b>MAX DIFFERENTIAL PRESSURE</b>	225 PSI; 15.5 BAR
<b>MAX DISCHARGE PRESSURE</b>	225 PSI; 15.5 BAR
<b>MAX TEMPERATURE</b>	500°F; 260°C
<b>MIN TEMPERATURE</b>	-40°F; -40°C
<b>MAX VISCOSITY</b>	100,000* CPS
<b>NPSHR @ 1750 RPM</b>	5.2 FT; 1.6 M
<b>LIFT (DRY)</b>	6 FT; 1.8 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	6.5 LBS; 3 KGS
SEALED, Close-Coupled	29 LBS; 13 KGS
MAG-DRIVE, Close-Coupled	36 LBS; 16 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H7R Sealed, Long-Coupled



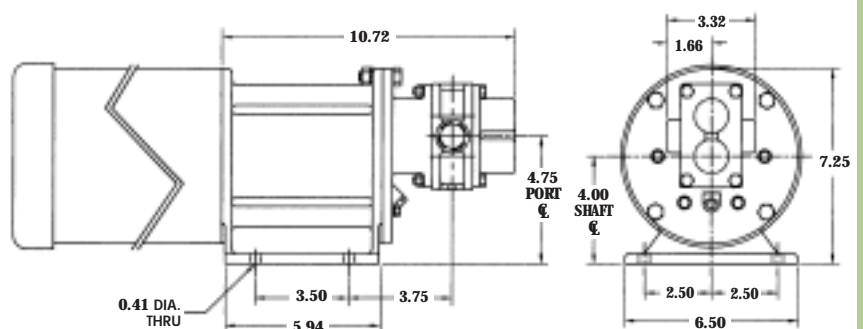
### SEAL CONFIGURATIONS

DIMENSION	SEAL CONFIGURATIONS	
	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	8.20	8.20
L	5.98	5.98
N	1.23	1.25 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

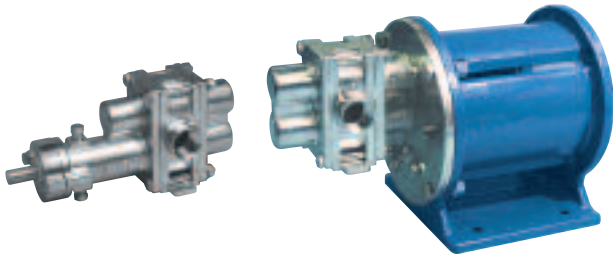
### H7R-MC & H7R Sealed, Close-Coupled



# H7F SEALED H7F-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

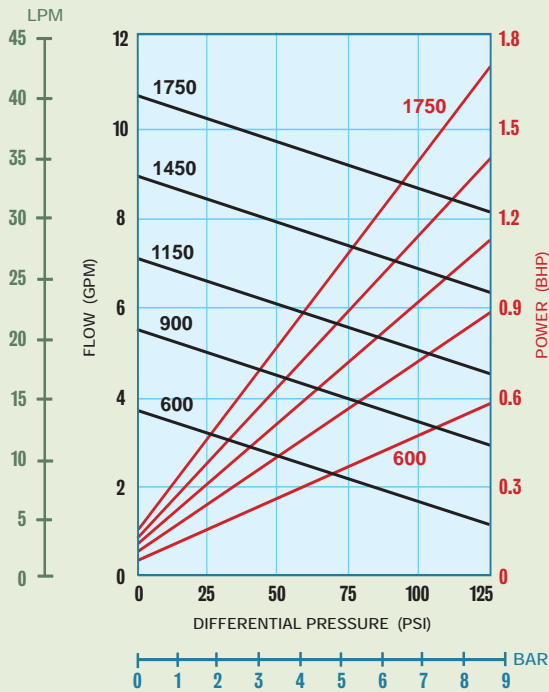


Sealed,  
Long-Coupled

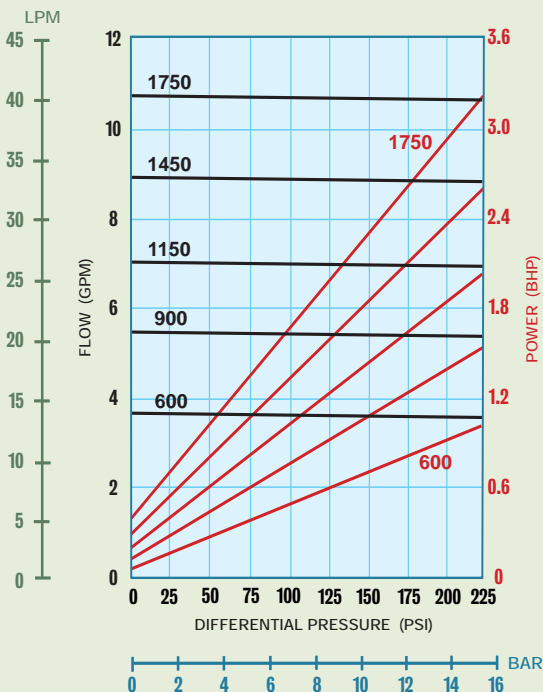
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

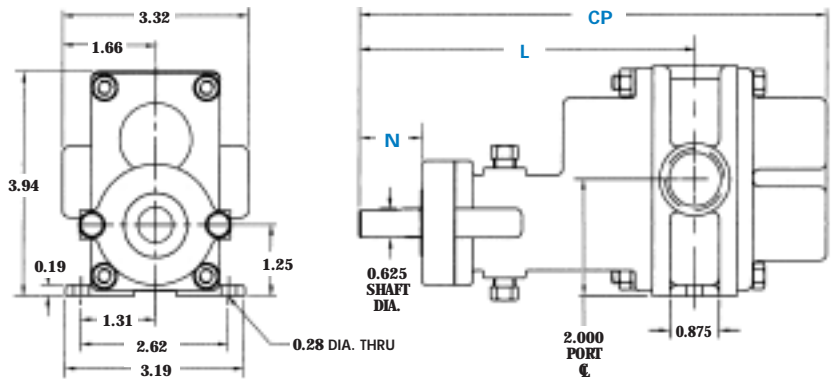


<b>PORT SIZE</b>	<b>3/4" NPT/BSPT/FLG</b>
<b>MAX FLOW</b>	<b>10.7 GPM; 40.5 LPM</b>
<b>MAX DIFFERENTIAL PRESSURE</b>	<b>225 PSI; 15.5 BAR</b>
<b>MAX DISCHARGE PRESSURE</b>	<b>225 PSI; 15.5 BAR</b>
<b>MAX TEMPERATURE</b>	<b>500°F; 260°C</b>
<b>MIN TEMPERATURE</b>	<b>-40°F; -40°C</b>
<b>MAX VISCOSITY</b>	<b>100,000* CPS</b>
<b>NPSHR @ 1750 RPM</b>	<b>5.2 FT; 1.6 M</b>
<b>LIFT (DRY)</b>	<b>7 FT; 2.1 M</b>
<b>WEIGHT (without motor)</b>	
<b>SEALED, Long-Coupled</b>	<b>6.5 LBS; 3 KGS</b>
<b>SEALED, Close-Coupled</b>	<b>29 LBS; 13 KGS</b>
<b>MAG-DRIVE, Close-Coupled</b>	<b>36 LBS; 16 KGS</b>

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H7F Sealed, Long-Coupled



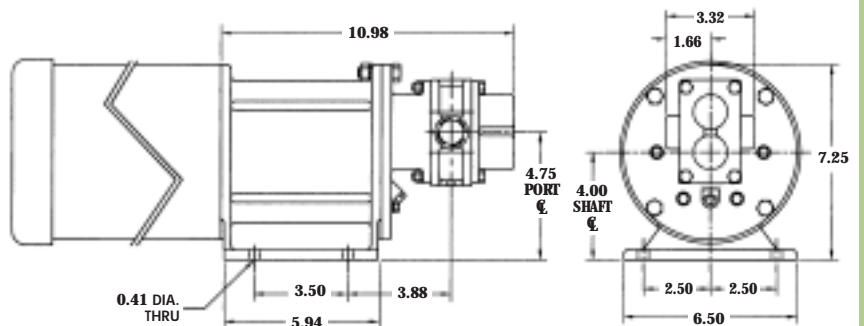
### SEAL CONFIGURATIONS

DIMENSION	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	8.32	8.32
L	5.98	5.98
N	1.11	1.13 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

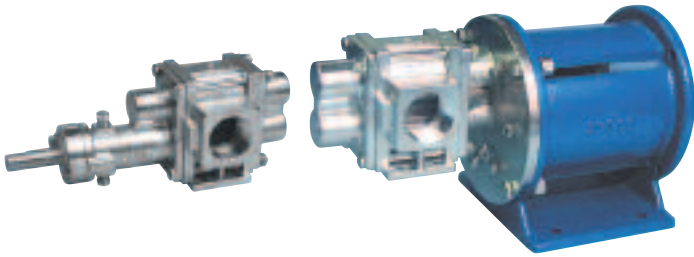
### H7F-MC & H7F Sealed, Close-Coupled



# H9R SEALED H9R-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

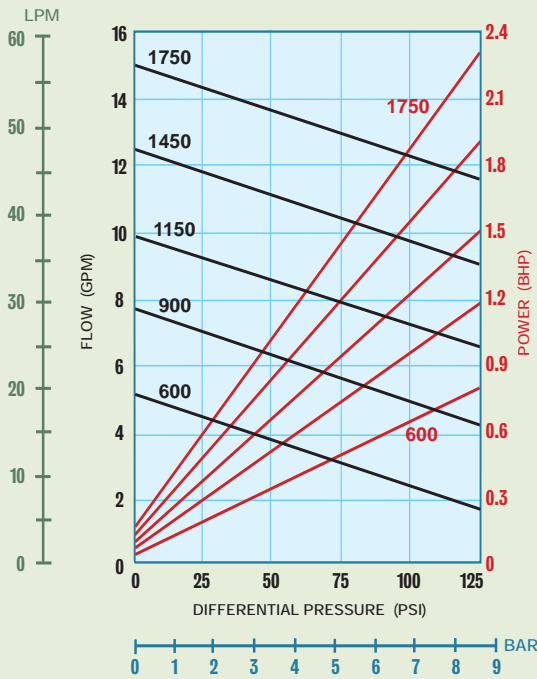


Sealed,  
Long-Coupled

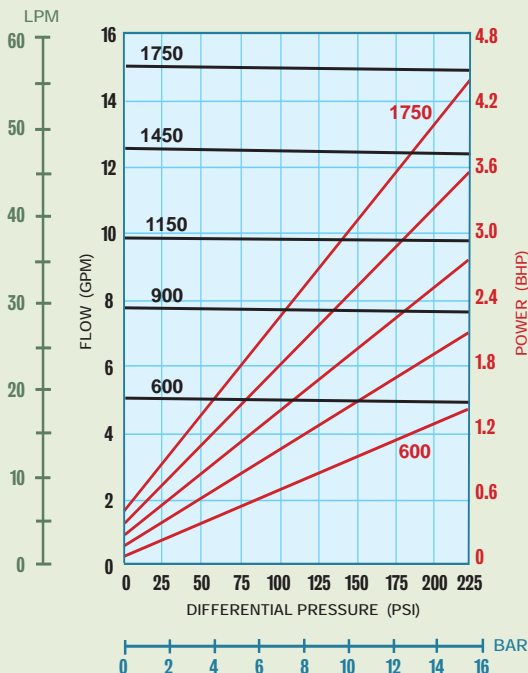
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

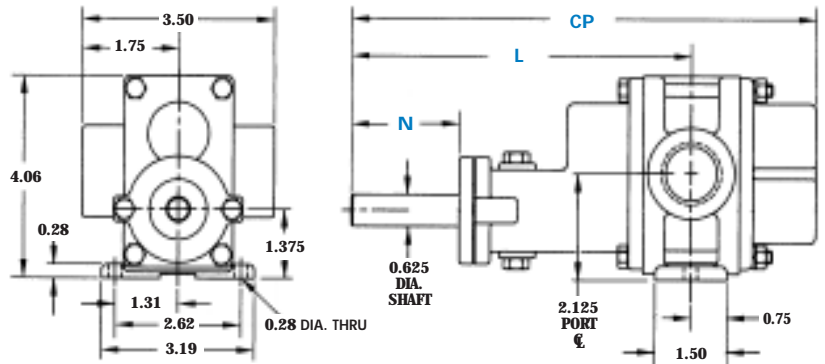


PORT SIZE	1" NPT/BSPT/FLG
MAX FLOW	15 GPM; 57 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	225 PSI; 15.5 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40°C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1750 RPM	4 FT; 1.2 M
LIFT (DRY)	6 FT; 1.8 M
WEIGHT (without motor)	
SEALED, Long-Coupled	8 LBS; 3.6 KGS
SEALED, Close-Coupled	34 LBS; 15 KGS
MAG-DRIVE, Close-Coupled	38 LBS; 17 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H9R Sealed, Long-Coupled



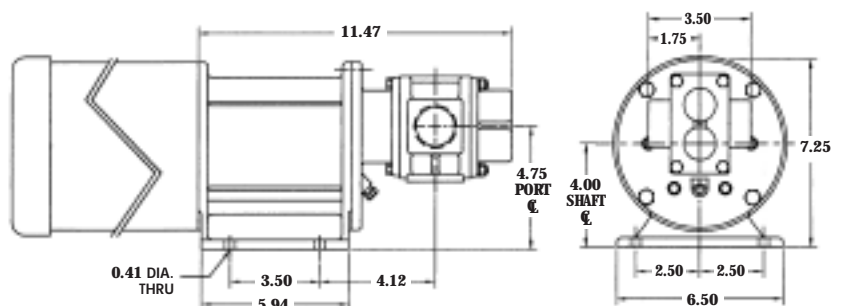
### SEAL CONFIGURATIONS

DIMENSION	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	9.68	9.68
L	7.08	7.08
N	2.00	2.00 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

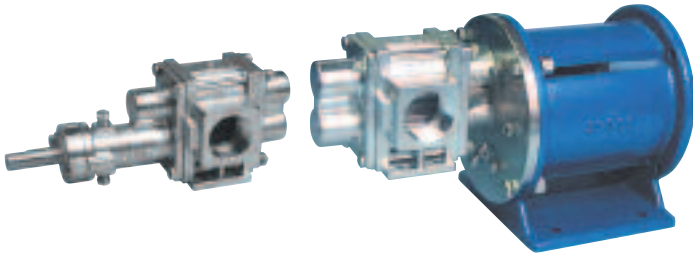
### H9R-MC & H9R Sealed, Close-Coupled



# H9F SEALED H9F-MC MAG-DRIVE



H - SERIES  
GEAR PUMP

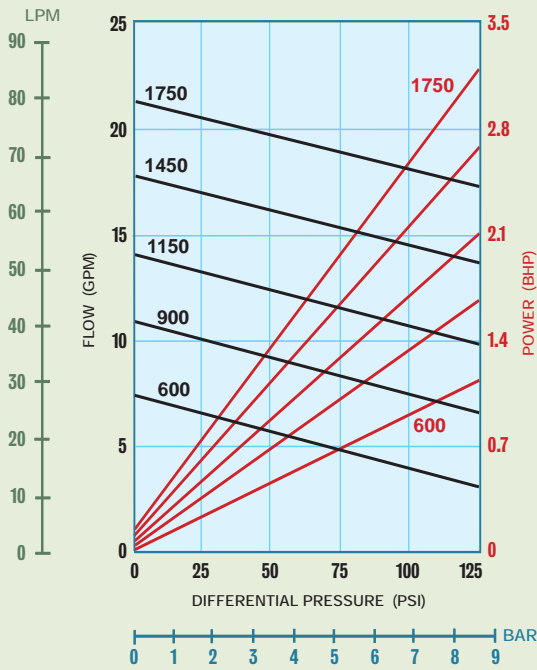


Sealed,  
Long-Coupled

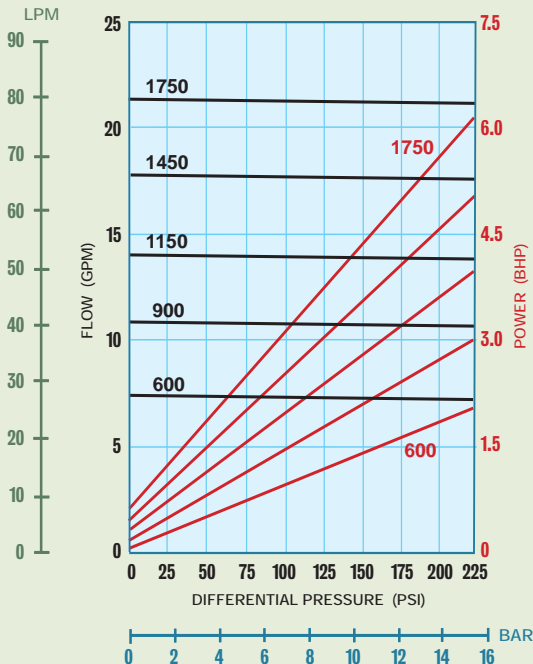
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

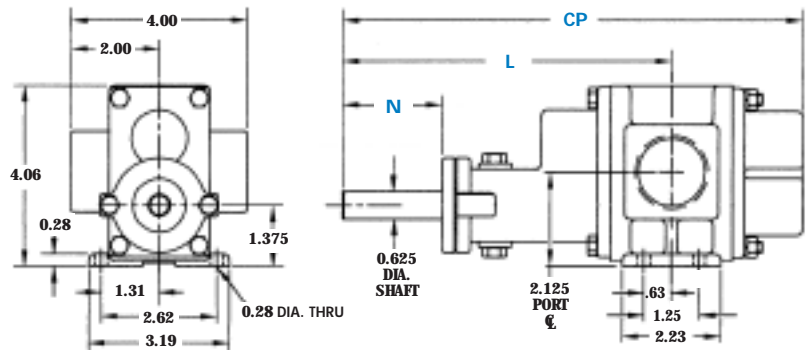


PORT SIZE	1 1/4" NPT/BSPT/FLG
MAX FLOW	21.5 GPM; 81.4 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	225 PSI; 15.5 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40°C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1750 RPM	3 FT; 0.9 M
LIFT (DRY)	14 FT; 4.2 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	10 LBS; 4.5 KGS
SEALED, Close-Coupled	36 LBS; 16 KGS
MAG-DRIVE, Close-Coupled	40 LBS; 18 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H9F Sealed, Long-Coupled



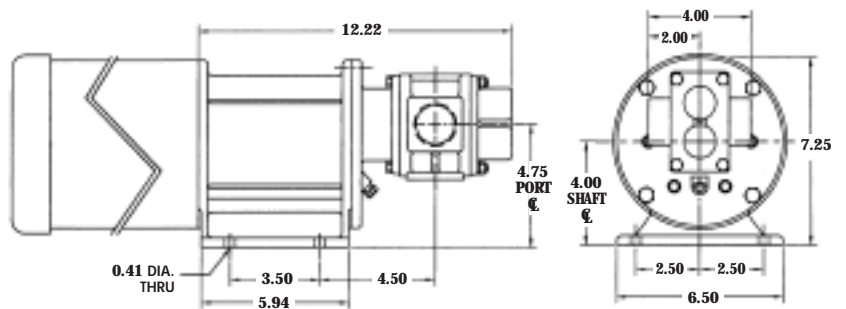
### SEAL CONFIGURATIONS

DIMENSION	SEAL CONFIGURATIONS	
	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP <sup>(1)</sup>	10.44	10.44
L	7.47	7.47
N	2.00	2.00 <sup>(2)</sup>

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

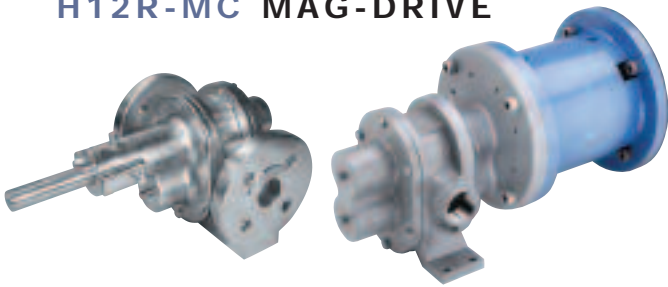
### H9F-MC & H9F Sealed, Close-Coupled



# H12R SEALED H12R-MC MAG-DRIVE



H-SERIES  
GEAR PUMP

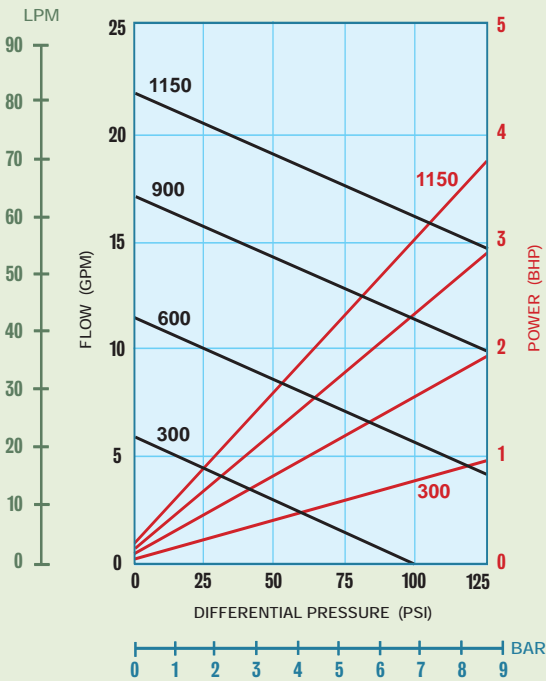


Sealed,  
Long-Coupled

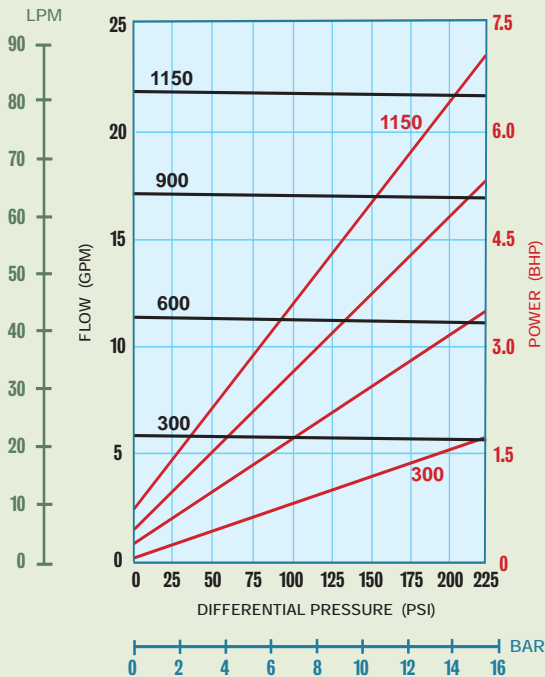
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

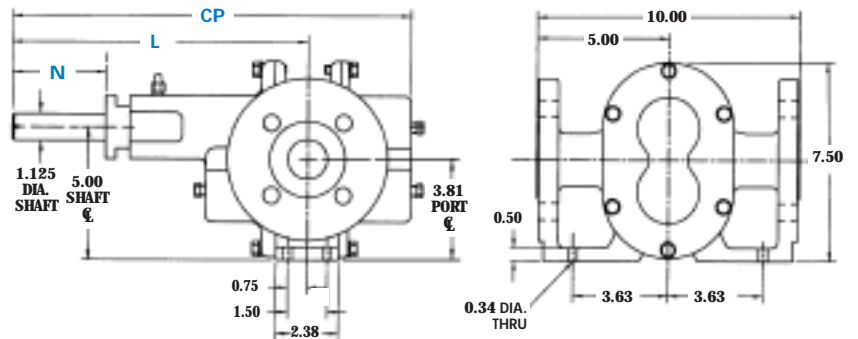


PORT SIZE	1 1/2" FLG or 1 1/4" NPT/BSPT
MAX FLOW	22 GPM; 83 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	270 PSI; 18.6 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40°C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1150 RPM	5 FT; 1.5 M
LIFT (DRY)	15 FT; 4.5 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	52 LBS; 24 KGS
SEALED, Close-Coupled	77 LBS; 35 KGS
MAG-DRIVE, Close-Coupled	95 LBS; 43 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H12R Sealed, Long-Coupled

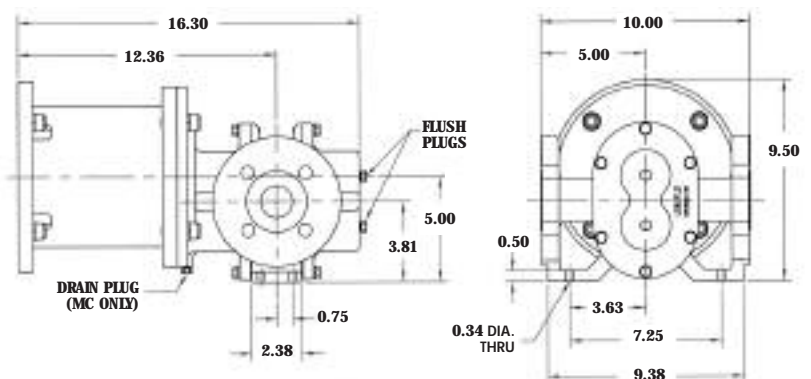


DIMENSION	SEAL CONFIGURATIONS	
	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP(1)	13.69	13.69
L	9.75	9.75
N	2.56	2.28 (2)

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

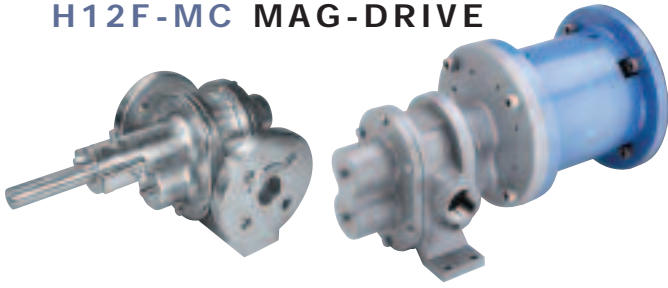
### H12R-MC & H12R Sealed, Close-Coupled



# H12F SEALED H12F-MC MAG-DRIVE



H-SERIES  
GEAR PUMP

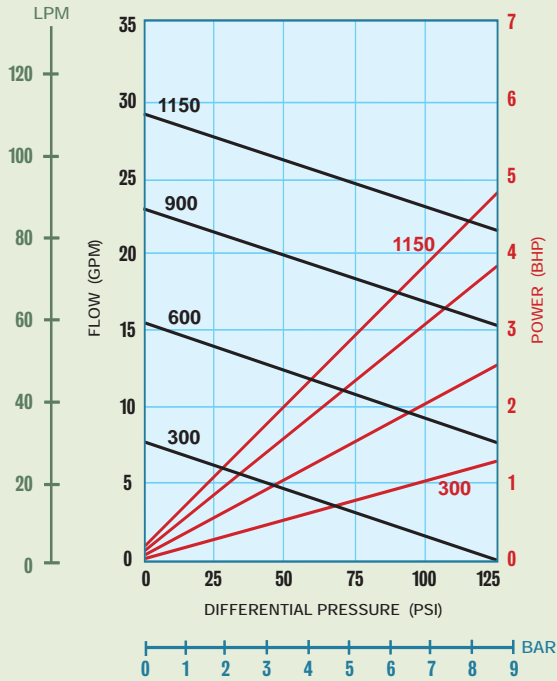


Sealed,  
Long-Coupled

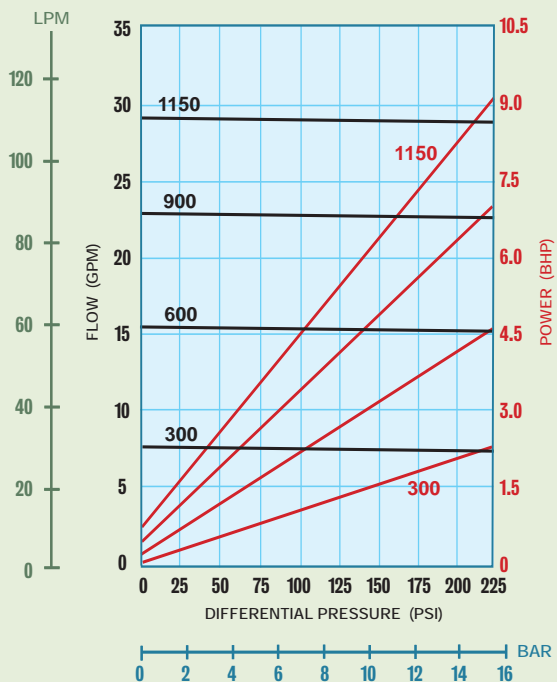
Sealed or Mag-Drive,  
Close-Coupled

## PERFORMANCE CURVES

### 1 CPS Fluid (Water)



### 100 CPS Fluid (Oil)

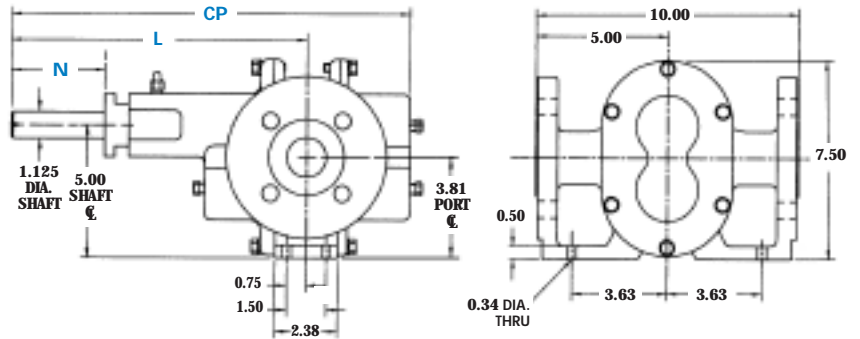


PORT SIZE	1 1/2" FLG or 1 1/4" NPT/BSPT
MAX FLOW	29 GPM; 110 LPM
MAX DIFFERENTIAL PRESSURE	225 PSI; 15.5 BAR
MAX DISCHARGE PRESSURE	270 PSI; 18.6 BAR
MAX TEMPERATURE	500°F; 260°C
MIN TEMPERATURE	-40°F; -40° C
MAX VISCOSITY	100,000* CPS
NPSHR @ 1150 RPM	5 FT; 1.5 M
LIFT (DRY)	17 FT; 5.2 M
<b>WEIGHT (without motor)</b>	
SEALED, Long-Coupled	52 LBS; 24 KGS
SEALED, Close-Coupled	77 LBS; 35 KGS
MAG-DRIVE, Close-Coupled	95 LBS; 43 KGS

\* Higher viscosities possible. Contact factory.

### Dimensional Data (inches)

### H12F Sealed, Long-Coupled



DIMENSION	SEAL CONFIGURATIONS	
	SINGLE & DOUBLE MECHANICAL SEALS	PACKING
CP(1)	13.69	13.69
L	9.75	9.75
N	2.56	2.28 (2)

NOTES: (1) Add .31 inches for Bearing Flush Plugs.  
(2) Minimum dimension.

### Dimensional Data (inches)

### H12F-MC & H12F Sealed, Close-Coupled

