

**GMC SERIES
 MEDIUM DUTY COMPACT
 ROTARY GEAR PUMP**



The GMC series is designed for applications in the operating ranges noted below. Direct connecting to other pieces of equipment provides an extremely compact system design.

The six sizes of Gorman-Rupp close coupled pumps connect to standard NEMA "C" flanges. Rotor shaft bores accept standard motor shafts; 5/8" standard, 7/8", 1-1/8" and 1-3/8" are optional. Metric coupling also available.

At synchronous speeds, extra drive equipment, including couplings or outboard bearings, is not required.

For continuous service, or for handling viscous liquids, see the heavy duty GHS section.

FEATURES

- 200 PSI CAPABILITY
- COMPACT-NEMA C MOUNTING - NO DRIVE COUPLING OR GUARD
- ACCURATE ALIGNMENT
- INEXPENSIVE PUMP/DRIVE UNIT
- THRUST CONTROLLED PUMP ELEMENTS
- LONG LIFE - QUIET OPERATION
- MULTIPLE PORT POSITIONING

OPERATING RANGE

| | | |
|-------------|---------|-----------------|
| CAPACITY | (GPM) : | (3 TO 38) |
| | [LPM] : | [11 TO 144] |
| PRESSURE | (PSI) : | (0 TO 200) |
| | [BAR] : | [0 TO 14] |
| VISCOSITY | (SSU) : | (28 TO 250,000) |
| | [cSt] : | [1 TO 55,000] |
| TEMPERATURE | (F) : | (-60° TO 300°) |
| | [C] : | [-51° TO 149°] |

APPLICATIONS

USE WITH ANY CLEAN LIQUID
 COMPATIBLE WITH CAST IRON

- ★ BOOSTER SERVICE
- ★ CIRCULATING
- ★ FILTERING
- ★ LUBRICATING
- ★ TRANSFERRING

| EXTER- IOR | ROTOR & IDLER | HOUSING PORTS | BUSHINGS | IDLER PIN | SHAFT | SHAFT SEALING | | ROTATION | INTERNAL RELIEF VALVE | |
|---------------|--------------------------|------------------|----------|-------------------|-------|-----------------|--------------|----------|--------------------------|-------------------|
| | | | | | | MECH. SEAL ● | LIPSEAL ■ | | MATERIAL | SETTING |
| CAST IRON | HIGH STRENGTH IRON | 180° TAPPED | BRONZE | HARDENED STEEL | STEEL | VITON | BUNA-N | C.W. | DUCTILE IRON | 75 PSI [5 BAR] |

Standard Models

G M C 1 DC 3 - B
 | | | | | | | |
 GEAR DUTY DESIGN PORT-SIZE HYDRAULIC SEAL STYLE
 SIZE SIZE

| MODEL NUMBER | NOM. CAPACITY - SPEED | | | | MAXIMUM | | | | SHIPPING DATA | | | | | | |
|--|-----------------------|-------------------------|--------------|-------------------------|-----------------------------------|------------------------------|---------------------------------------|-------------------|------------------|------------|--------------|-----|--|--------------|--------------|
| | MAXIMUM | | ALTERNATIVE | | DIFFERENTIAL PRESSURE - PSI [BAR] | | | TEMP. | Weight | Volume | | | | | |
| | GPM [LPM] | RPM 60 Hz [50 HZ] | GPM [LPM] | RPM 60 Hz [50 HZ] | BELOW 38 SSU [4 cSt] | 38 TO 100 SSU [21 cSt] | 100 TO 250,000 SSU [55,000 cSt] | °F [°C] | LBS [KG] | CU. FT. | | | | | |
| GMC 1DC 3-B ● GMC 1DC 4-B ■ | 9 [28] | | 6 [19] | | | | | ● 300 [149] | 20 [9,0] | 0.6 | | | | | |
| GMC 1DE 3-B ● GMC 1DE 4-B ■ | 11 [35] | | 7 [22] | | | | | | 20 [9,0] | 0.6 | | | | | |
| GMC 1-1/2GC 3-B ● GMC 1-1/2GC 4-B ■ | 16 [50] | | 10 [32] | | | | | | 32 [14,5] | 0.6 | | | | | |
| GMC 2GC 3-B ● GMC 2GC 4-B ■ | | | | | | | | | 32 [14,5] | 0.6 | | | | | |
| GMC 1-1/2GF 3-B ● GMC 1-1/2GF 4-B ■ | 23 [73] | 1750 [1460] | 15 [47] | 1150 [960] | 100 [7] | 150 [10] | 200 [14] | | 32 [14,5] | 0.6 | | | | | |
| GMC 2GF 3-B ● GMC 2GF 4-B ■ | | | | | | | | | | | 32 [14,5] | 0.6 | | | |
| GMC 1-1/2GH 3-B ● GMC 1-1/2GH 4-B ■ | 31 [98] | | | | | | | | 20 [63] | | | | | 32 [14,5] | 0.6 |
| GMC 2GH 3-B ● GMC 2GH 4-B ■ | | | | | | | | | | | | | | 32 [14,5] | 0.6 |
| GMC 1-1/2GJ 3-B ● GMC 1-1/2GJ 4-B ■ | 38 [120] | | | | | | | | 25 [79] | | | | | 32 [14,5] | 0.6 |
| GMC 2GJ 3-B ● GMC 2GJ 4-B ■ | | | | | | | | | | | | | | | 32 [14,5] |

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. Example: **GMC 2GJ 3-B**

NOTE: PROPER PUMP APPLICATION REQUIRES CONSIDERATION OF ADDITIONAL FACTORS. PLEASE REVIEW APPLICATION GUIDE IN SECTION 500 OR CONSULT THE FACTORY.

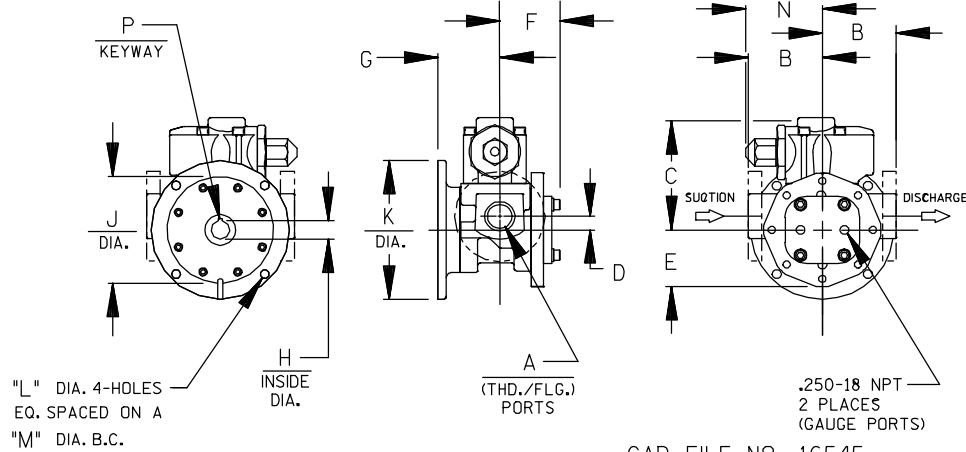
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 GORMAN-RUPP OF CANADA LIMITED • ST. THOMAS, ONTARIO, CANADA

Basic Pump Dimensions

* STANDARD DIMENSION

† 90° HOUSING

MOTOR FRAMES 56C, 143TC, 145TC, 182C, 184C



CAD FILE NO.: 16545

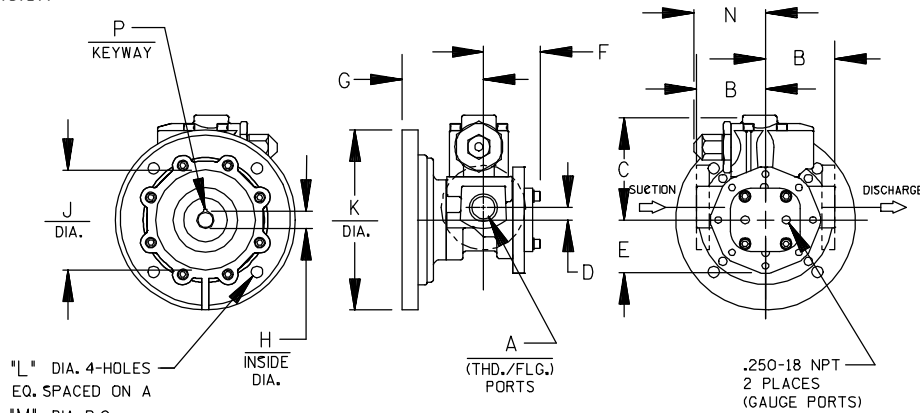
| PUMP MODEL | PUMP DIMENSIONS - INCHES [MM] | | | | | | | PUMP MOUNTING DIMENSIONS | | | | | | |
|------------|-------------------------------|----------------|---------------|-------------|--------------|--------------|--------------|--------------------------|---------------|---------------|-------------|---------------|--------------|---------------------------|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | P |
| GMC D | 1" | 2.50 † [64] | 5.19 [132] | .62 [16] | 2.67 [68] | 2.73 [69] | 2.79 [71] | .62 [16] * | 4.50 [114] | 6.50 [165] | .41 [10] | 5.88 [149] | 3.58 [91] | .19 [5] x 1.66 [42] |
| | | 2.75 * [70] | | | | | | | | | | | | |
| GMC G | 1-1/2" | 3.50 † [89] | 6.00 [152] | .62 [16] | 3.25 [82] | 3.34 [85] | 2.86 [73] | .62 [16] * | 4.50 [114] | 6.50 [165] | .41 [10] | 5.88 [149] | 3.62 [92] | .19 [5] x 1.69 [43] |
| | | 3.75 * [95] | | | | | | | | | | | | |

OPTIONAL (WITH ADAPTOR PLATE)

MOTOR FRAMES 182TC, 184TC, 213C, 213TC, 215C, 215TC, 254C, AE90, AE100, AE112

* STANDARD DIMENSION

† 90° HOUSING



CAD FILE NO.: 16579

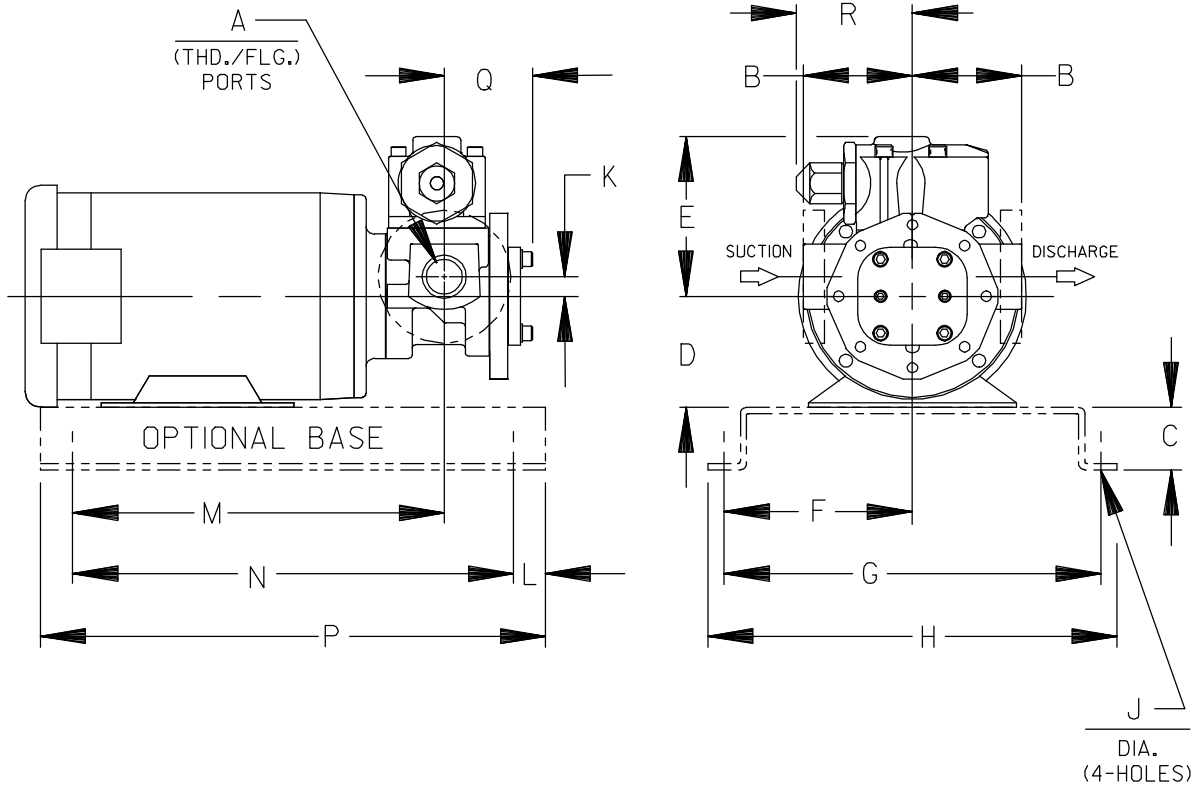
| PUMP MODEL | PUMP DIMENSIONS - INCHES [MM] | | | | | | | PUMP MOUNTING DIMENSIONS | | | | | | | |
|-------------------|-------------------------------|--------|------------------|---------------|-------------|--------------|--------------|--------------------------|---------------|----------------|----------------|--------------|----------------|----------------|--------------------------|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | P | |
| GMC D [METRIC] | AE90 AE110/112 | 1" | [64] † [70] * | [132] | [16] | [68] | [69] | [117] | [24] [28] | [130] [180] | [200] [250] | [12] [15] | [165] [215] | [91] | [8] x [46] [8] x [56] |
| | | 1-1/2" | 3.50 † [89] | | | | | | 6.00 [152] | .62 [16] | 3.25 [82] | 3.34 [85] | 4.02 [117] | 1.12 * [28] | 8.50 [216] |
| GMC G [METRIC] | AE90 AE110/112 | 2" | 3.75 * [95] | 6.00 [152] | .62 [16] | 3.25 [82] | 3.34 [85] | 2.86 [73] | | | | | | [24] [28] | [130] [180] |
| | | 1-1/2" | 3.50 † [89] | | | | | | 6.00 [152] | .62 [16] | 3.25 [82] | 3.34 [85] | 4.02 [117] | 1.12 * [28] | 8.50 [216] |

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DIRECT CLOSE COUPLED C-FLANGE DRIVE OPTION DIMENSIONS



CAD FILE NO: 16503

| PUMP MODEL | PUMP DIMENSIONS | | | | | | | | | | | | | | | | | | | |
|------------|-----------------|-------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|-------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|---------------|----------------|
| | A | MOTOR FRAME | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | | | |
| GMC D | 1" | 56C | 2.50 † [64] | 2.00 [51] | 3.50* [89] | 5.19 [132] | 6.25 [159] | 12.50 [318] | 14.50 [368] | .56 [14] | .63 [16] | 2.00 [51] | 11.11 [282] | 12.75 [324] | 16.75 [425] | 2.74 [70] | 3.58 [91] | | | |
| | | 143TC/145TC | 4.50 [114] | | 11.42 [290] | | | | | | | | | | | | | | | |
| | | 1820/184C | 2.75* [70] | | 11.92 [303] | | | | | | | | | | | | | | | |
| GMC G | 1-1/2" | 56C | 3.50 † [89] | 2.00 [51] | 3.50 [89] | 6.00 [152] | 6.25 [159] | 12.50 [318] | 14.50 [368] | .56 [14] | .63 [16] | 2.00 [51] | 11.18 [284] | 12.75 [324] | 16.75 [425] | 3.34 [85] | 3.62 [92] | | | |
| | | 143TC/145TC | | | 4.50 [114] | | | | | | | | 11.49 [292] | | | | | | | |
| | 2" | 182C/184C | 3.75* [95] | 4.50 [114] | 5.25 [133] | 12.00 [305] | 12.49 [317] | 12.86 [327] | .56 [14] | .63 [16] | 2.00 [51] | 12.00 [305] | 12.49 [317] | 12.86 [327] | 12.75 [324] | 16.75 [425] | 3.34 [85] | 3.62 [92] | | |
| | | 182TC/184TC | | | | | | | | | | | | | | | | | 4.50 [114] | 12.00 [305] |
| | | 213TC/215TC | | | | | | | | | | | | | | | | | 5.25 [133] | 12.86 [327] |

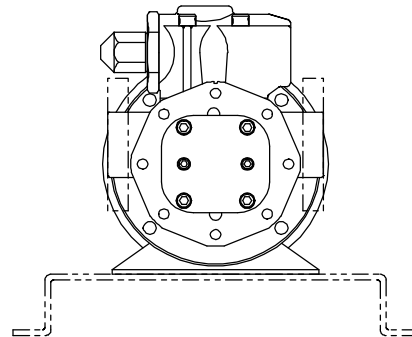
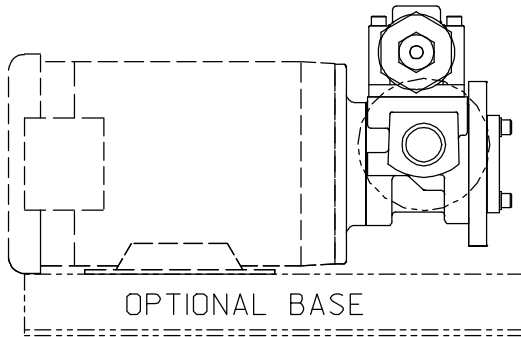
* STANDARD DIMENSION

† 90° HOUSING



1 PHASE DIRECT CLOSE COUPLED C-FLANGE DRIVE OPTIONS

(Drive Assembly Number Is For Motor Only)



16503.S01

| PUMP MODEL NUMBER | 1 PHASE | | FRAME | 115/230 VOLTS DRIVE ASSY NO. | | |
|-------------------|---------|------|-----------|------------------------------|-----------|-----------------|
| | RPM | HP | | OPEN | TEFC | EXPLOSION PROOF |
| GMC D/G | 1750 | .75 | 56C | 91111-540 | 91121-540 | 91131-540 |
| | | 1.00 | 56C | 91111-542 | 91121-542 | 91131-542 |
| | | 1.50 | 56C | 91111-546 | 91121-546 | 91131-546 |
| | | 1.50 | 184C (a) | | | 91131-547 |
| | | 2.00 | 145TC (a) | 91111-550 | | 91131-550 |
| | | 2.00 | 184C (a) | | 91121-550 | |
| | 1140 | .75 | 56C | 91111-580 | 91121-580 | 91131-580 |

(a) REQUIRES OPTION 50A OR 50J

NOTE: CONSULT FACTORY FOR:

- | | |
|-----------------------------------|---|
| 1. HORSEPOWERS & FRAMES NOT SHOWN | 5. 50 HERTZ 380 VOLT MOTORS |
| 2. DRIP PAN BASES | 6. FOR OPTIONAL BASE SEE PRICE PAGES |
| 3. 115-208/230 VOLT MOTORS | 7. COUNTER-CLOCKWISE ROTATION FOR SINGLE PHASE MOTORS |
| 4. 208-230/460 VOLT MOTORS | |



3 PHASE DIRECT CLOSE COUPLED C-FLANGE DRIVE OPTIONS

(Drive Assembly Number Is For Motor Only)

| PUMP MODEL NUMBER | 3 PHASE | | FRAME | 230/460 VOLTS DRIVE ASSY NO. | | |
|-------------------|---------|-------|-----------|------------------------------|-----------|-----------------|
| | RPM | HP | | OPEN | TEFC | EXPLOSION PROOF |
| GMC D/G | 1750 | .75 | 56C | 91141-540 | 91151-540 | 91161-540 |
| | | 1.00 | 143TC (a) | 91141-542 | | |
| | | 1.00 | 56C | | 91151-542 | 91161-542 |
| | | 1.50 | 145TC (a) | 91141-546 | | |
| | | 1.50 | 56C | | 91151-546 | 91161-546 |
| | | 2.00 | 145TC (a) | 91141-550 | 91151-550 | |
| | | 2.00 | 56C | | | 91161-550 |
| | | 3.00 | 145TC (a) | 91141-554 | | |
| | | 3.00 | 56C | | 91151-554 | |
| GMC G | 1750 | 5.00 | 184C (a) | 91141-558 | 91151-558 | |
| | | 3.00 | 182TC (b) | | | 91161-554 |
| | | 5.00 | 184TC (b) | | | 91161-558 |
| | | 7.50 | 213TC (c) | 91141-572 | 91151-572 | 91161-572 |
| GMC D/G | 1150 | 10.00 | 215TC (c) | 91141-576 | 91151-576 | 91161-576 |
| | | .75 | 56C | 91141-580 | 91151-580 | 91161-580 |
| | | 1.00 | 56C | 91141-582 | 91151-582 | 91161-582 |
| | | 1.00 | 56C | 91141-586 | | |
| | | 1.50 | 145TC (a) | | 91151-586 | 91161-586 |
| | | 1.50 | 182C (a) | | | 91161-588 |
| GMC G | 1150 | 2.00 | 184C (a) | | 91151-590 | 91161-590 |
| | | 2.00 | 184TC (b) | 91141-700 | 91141-700 | |
| | | 3.00 | 213TC (c) | 91141-704 | 91151-704 | 91161-704 |
| GMC D | 850 | 5.00 | 215TC (c) | 91141-708 | 91151-708 | 91161-708 |
| | | .75 | 184C (a) | | 91151-720 | |
| GMC G | 850 | 1.00 | 182TC (b) | 91141-730 | 91151-730 | |
| | | 1.50 | 184TC (b) | 91141-734 | 91151-734 | |
| | | 2.00 | 213TC (c) | 91141-738 | 91151-738 | |
| | | 3.00 | 215TC (c) | 91141-742 | 91151-742 | |

- (a) REQUIRES OPTION 50A OR 50J
 (b) REQUIRES OPTION 70A AND 50B OR 50K
 (c) REQUIRES OPTION 70A AND 50C OR 50L

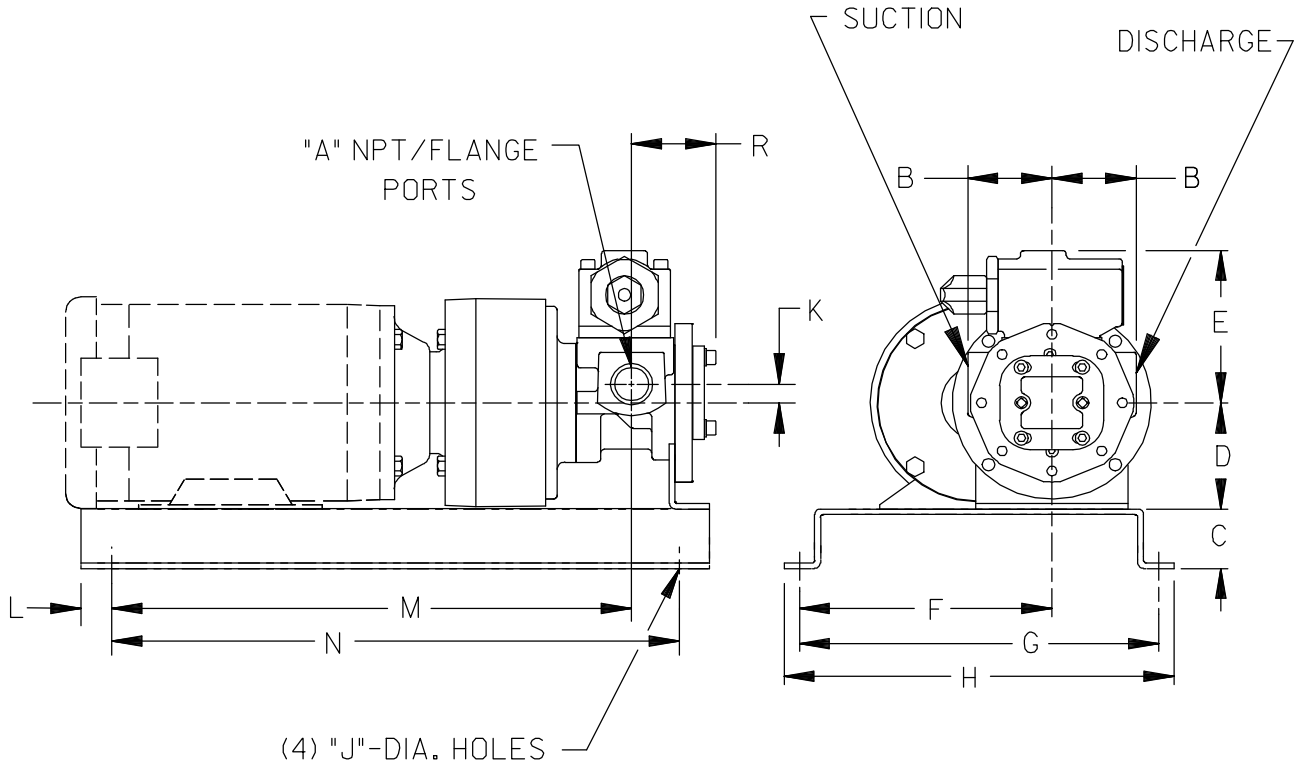
NOTE: CONSULT FACTORY FOR:

- HORSEPOWERS & FRAMES NOT SHOWN
- DRIP PAN BASES
- 115-208/230 VOLT MOTORS
- 208-230/460 VOLT MOTORS
- 50 HERTZ 380 VOLT MOTORS
- FOR OPTIONAL BASE SEE PRICE PAGES
- COUNTER-CLOCKWISE ROTATION FOR SINGLE PHASE MOTORS



GRR REDUCER CLOSE COUPLED C-FLANGE DRIVE OPTION DIMENSIONS

(Drive Assembly Number Includes Gear Reducer and Base, But **NOT** the Motor)



CAD FILE NO.: 16390B

| PUMP MODEL | UNIT DIMENSIONS | | | | | | | | | | | | | | |
|------------|-----------------|-------------|----------------|--------------|---------------|---------------|---------------|----------------|----------------|-------------|-------------|--------------|----------------|----------------|--------------|
| | "A" | MOTOR FRAME | B | C | D | E | F | G | H | J | K | L | M | N | R |
| GMC D | 1" | 56C | 2.50 † [70] | 2.00 [51] | 3.50 [89] | 5.19 [132] | 6.50 [165] | 13.00 [330] | 15.00 [381] | .56 [14] | .63 [16] | 3.00 [76] | 14.22 [361] | 25.50 [648] | 2.66 [68] |
| | | 143TC/145TC | 2.75* [70] | | 4.50 [114] | | | | | | | | | | |
| GMC G | 1 1/2" | 56C | 3.50 † [89] | 2.00 [51] | 3.50 [89] | 6.00 [152] | 6.50 [165] | 13.00 [330] | 15.00 [381] | .56 [14] | .63 [16] | 3.00 [76] | 14.16 [360] | 25.50 [648] | 3.27 [83] |
| | | 143TC/145TC | 3.75* [95] | | 4.50 [114] | | | | | | | | | | |
| | | 184C | | | | | | | | | | | | | |

* STANDARD DIMENSION

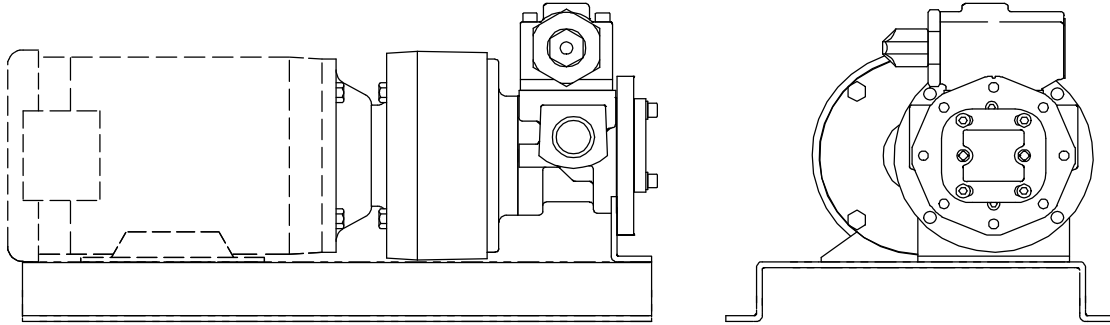
† 90° HOUSING



GMC

GRR REDUCER CLOSE COUPLED C-FLANGE DRIVE OPTIONS

(Drive Assembly Number Includes Gear Reducer and Base, But **NOT** the Motor)



| PUMP MODEL NUMBER | RPM @ 1750 | RPM @ 1150 | REDUCER ① | | FRAME | DRIVE ASSY NO. | |
|-------------------|------------|------------|---------------|---------------|-------|----------------|-----------|
| | | | MAX HP @ 1750 | MAX HP @ 1150 | | | |
| GMC D ② | 875 | 575 | 2.00:1 | 5.65 | 3.73 | 56C | 90153-510 |
| | | | | 11.70 | 7.72 | 143TC/145TC | 90153-519 |
| | | | | 11.70 | 7.72 | 182C/184C | 90153-522 |
| | 580 | 383 | 3.00:1 | 3.76 | 2.48 | 56C | 90123-533 |
| | | | | 8.10 | 5.35 | 143TC/145TC | 90153-536 |
| | | | | 8.10 | 5.35 | 182C/184C | 90153-542 |
| | 440 | 288 | 4.00:1 | 2.82 | 1.86 | 56C | 90153-550 |
| | | | | 5.90 | 3.89 | 143TC/145TC | 90153-553 |
| | | | | 5.90 | 3.89 | 182C/184C | 90153-559 |
| | 350 | 238 | 5.00:1 | 2.26 | 1.49 | 56C | 90153-570 |
| | | | | 5.20 | 3.43 | 143TC/145TC | 90153-573 |
| | | | | 5.20 | 3.43 | 182C/184C | 90153-579 |
| GMC G ② | 875 | 575 | 2.00:1 | 5.65 | 3.73 | 56C | 90153-610 |
| | | | | 11.70 | 7.72 | 143TC/145TC | 90153-613 |
| | | | | 11.70 | 7.72 | 182C/184C | 90153-629 |
| | 580 | 383 | 3.00:1 | 3.76 | 2.48 | 56C | 90153-630 |
| | | | | 8.10 | 5.35 | 143TC/145TC | 90153-633 |
| | | | | 8.10 | 5.35 | 182C/184C | 90123-642 |
| | 440 | 288 | 4.00:1 | 2.82 | 1.86 | 56C | 90153-660 |
| | | | | 5.90 | 3.89 | 143TC/145TC | 90153-663 |
| | | | | 5.90 | 3.89 | 182C/184C | 90153-672 |
| | 350 | 238 | 5.00:1 | 2.26 | 1.49 | 56C | 90153-690 |
| | | | | 5.20 | 3.43 | 143TC/145TC | 90153-693 |
| | | | | 5.20 | 3.43 | 182C/184C | 90153-702 |

① Listed reducer horsepower rated for Standard Service (8-10 hrs/day). For Light Service (3-5 hrs/day) multiply maximum rated horsepower by 1.1. For Heavy Service (16-24 hrs/day) multiply maximum rated horsepower by 0.9.

② Use adds/deletes for large diameter head and coverplate kit if required.

NOTES:
CONSULT FACTORY FOR:
HORSEPOWERS AND FRAMES NOT SHOWN.
DRIP PAN BASES.



PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

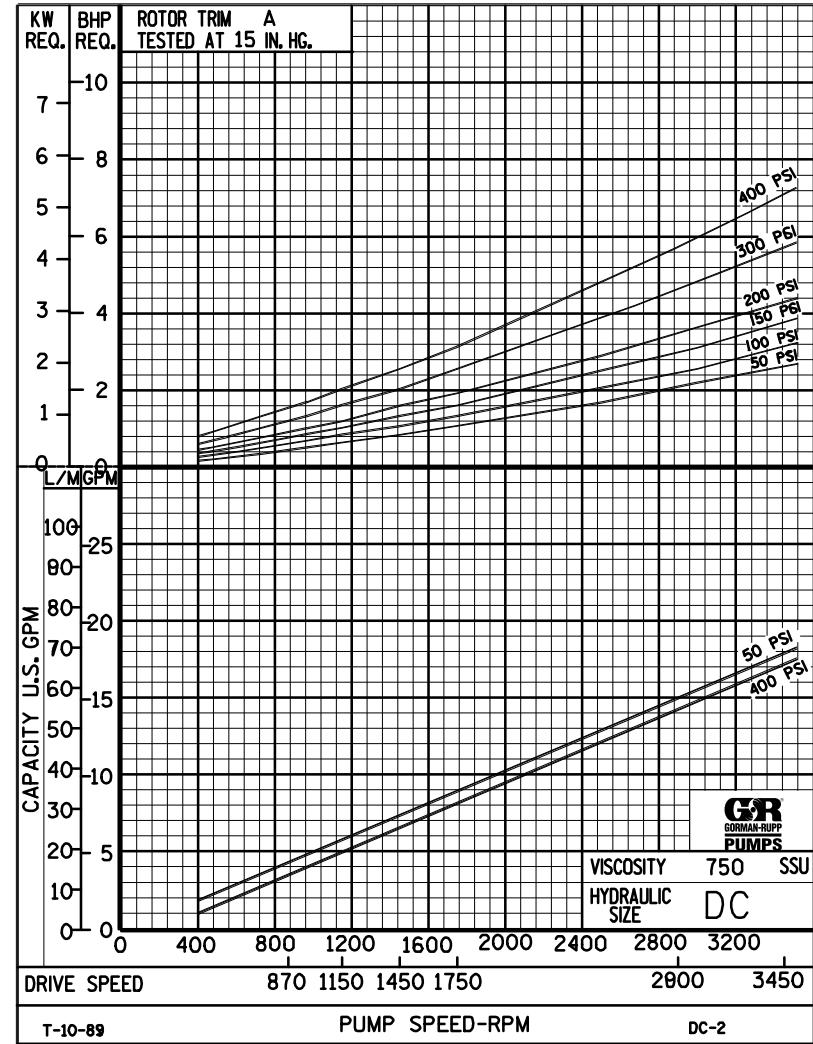
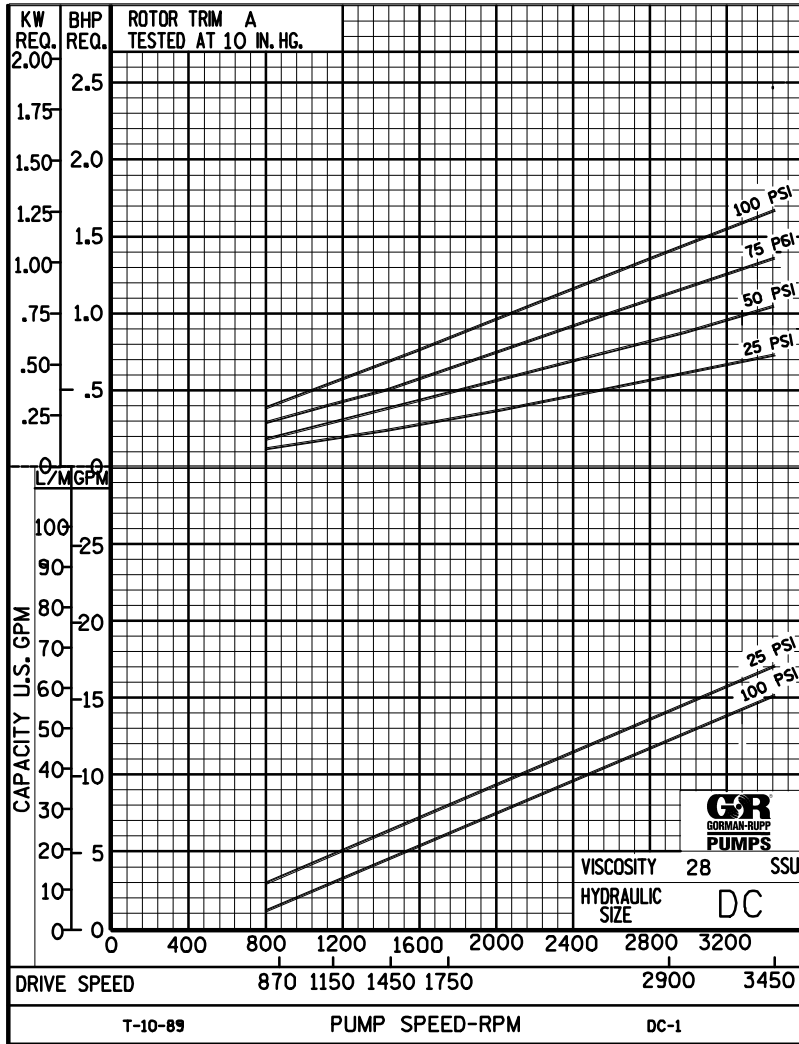
DC

Hydraulic Size

SEC. 500

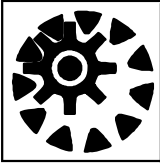
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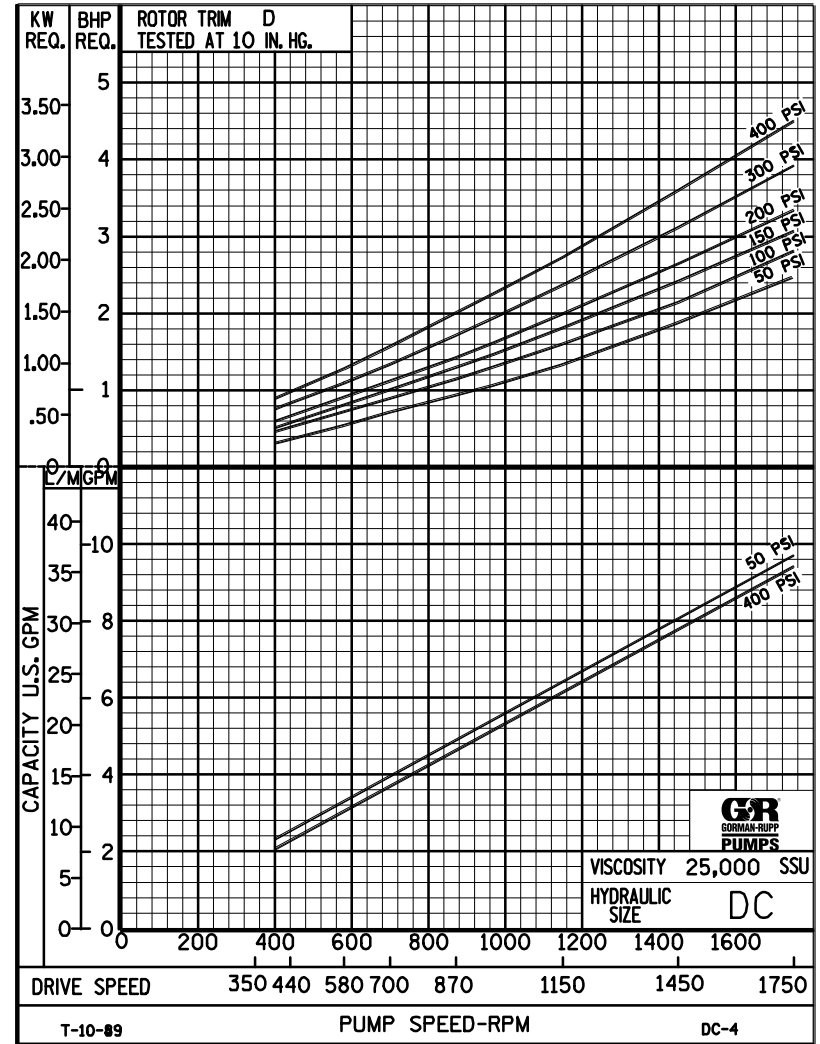
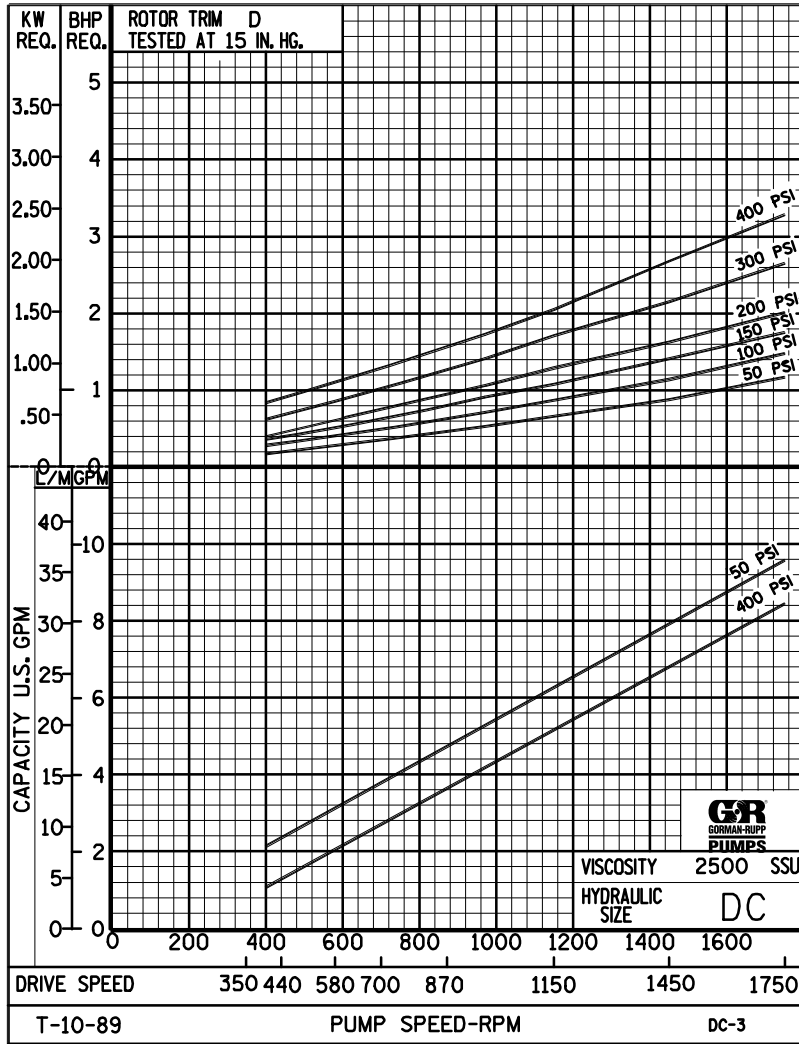
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PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

DC Hydraulic Size



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DC

PUMP HYDRAULIC SIZE CHART

SEC. 500

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**18 GPM
3450 RPM**

| NOMINAL | | ROTOR TRIM | VISCOSITY (SSU) | N.I.P.R. (PSIA) | FRICTION PIPE LOSS (PSI/FT) <small>(Based on Sch 40 Steel Pipe)</small> | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | | | | | | | |
|----------|-----------|------------|-----------------|-----------------|--|-----|--------|--------|-----|---|-----|-----|-------------|-----|--------------------------------|------|------|------|-----------------|------|------|------|------|------|--|--|--|--|
| CAP. GPM | SPEED RPM | | | | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | | | | | | | |
| | | | | | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | LOW PRES R/V | | | HI PRES R/V | | MEDIUM DUTY AND HEAVY DUTY | | | | HEAVY DUTY ONLY | | | | | | | | | |
| 18 | 3450 | STD | 28 | 9.8 | .01 | .01 | .01 | .01 | .01 | 70 | 95 | 123 | | | | 17.0 | 16.0 | 15.0 | 15.0 | | | | | | | | | |
| | | | 32 | | .23 | .08 | .02 | .01 | .01 | | | | | | | .73 | 1.1 | 1.4 | 1.7 | | | | | | | | | |
| | | | 38 | 9.8 | .30 | .10 | .03 | .01 | .01 | 70 | 95 | 125 | 174 | | | | 17.0 | 16.0 | 16.0 | 15.0 | 15.0 | | | | | | | |
| | | | 50 | | .36 | .12 | .03 | .02 | .01 | | | | | | | | .93 | 1.2 | 1.6 | 1.8 | 2.5 | | | | | | | |
| | | | 70 | 9.8 | .40 | .13 | .04 | .02 | .01 | 70 | 96 | 127 | 175 | 229 | | | 17.0 | 17.0 | 17.0 | 16.0 | 16.0 | 16.0 | | | | | | |
| | | | 100 | | .49 | .16 | .04 | .02 | .01 | | | | | | | | 1.2 | 1.5 | 1.8 | 2.1 | 2.7 | 3.3 | | | | | | |
| | | | 150 | 9.8 | .52 | .17 | .04 | .02 | .01 | 70 | 97 | 130 | 176 | 230 | | | 18.0 | 17.0 | 17.0 | 17.0 | 17.0 | 16.0 | 16.0 | 15.0 | | | | |
| | | | 200 | | .58 | .22 | .08 | .04 | .02 | | | | | | | | 1.5 | 1.8 | 2.1 | 2.3 | 3.0 | 3.5 | 4.7 | 5.8 | | | | |
| | | | 300 | 9.8 | .70 | .27 | .09 | .05 | .02 | 71 | 99 | 133 | 177 | 232 | | | 18.0 | 18.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 16.0 | | | | |
| | | | 500 | | 1.15 | .44 | .15 | .08 | .03 | | | | | | | | 2.1 | 2.3 | 2.6 | 2.8 | 3.5 | 4.0 | 5.3 | 6.5 | | | | |
| | | 750 | 9.8 | 1.72 | .66 | .22 | .12 | .05 | 72 | 101 | 136 | 179 | 234 | | | 18.0 | 18.0 | 18.0 | 18.0 | 17.0 | 17.0 | 17.0 | 17.0 | | | | | |
| | | 1,000 | | 2.30 | .88 | .29 | .16 | .06 | | | | | | | | 2.5 | 2.6 | 2.9 | 3.1 | 3.8 | 4.3 | 5.5 | 6.8 | | | | | |
| | | 2,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3,500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7,500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 15,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 20,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 25,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(NOTE) For speeds not shown on the pump hydraulic charts, consult factory.



DC

PUMP HYDRAULIC SIZE CHART

SEC. 500

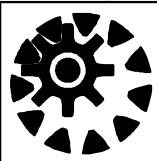
Page 25

January 2010

**9 GPM
1750 RPM**

| NOMINAL | | ROTOR TRIM | VISCOSITY (SSU) | N.I.P.R. (PSIA) | FRICTION PIPE LOSS (PSI/FT) <small>(Based on Sch 40 Steel Pipe)</small> | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | | | | |
|----------|-----------|------------|-----------------|-----------------|--|------|--------|--------|-----|---|-----|-------------|-----|-----|--------------------------------|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|--|
| CAP. GPM | SPEED RPM | | | | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | | | | |
| | | | | | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | LOW PRES R/V | | HI PRES R/V | | | MEDIUM DUTY AND HEAVY DUTY | | | | HEAVY DUTY ONLY | | | | | | |
| | | | | | | 50 | 75 | 100 | 150 | 200 | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | | | | | | | |
| 9 | 1750 | STD | 28 | 2.8 | .01 | .01 | .01 | .01 | .01 | 58 | 84 | 112 | | | 8.0 | 7.5 | 7.0 | 6.5 | | | | | | | |
| | | | 32 | | .07 | .02 | .01 | .01 | .01 | | | | | | .41 | .57 | .70 | .85 | | | | | | | |
| | | | 38 | 2.8 | .09 | .03 | .01 | .01 | .01 | 58 | 85 | 112 | 163 | | | 8.0 | 7.5 | 7.0 | 7.0 | 6.0 | | | | | |
| | | | 50 | | .11 | .04 | .01 | .01 | .01 | | | | | | | .57 | .64 | .82 | .94 | 1.4 | | | | | |
| | | | 70 | 2.8 | .12 | .04 | .01 | .01 | .01 | 58 | 85 | 112 | 163 | 214 | | | 8.5 | 8.0 | 7.5 | 7.5 | .70 | 6.0 | | | |
| | | | 100 | | .13 | .05 | .02 | .01 | .01 | | | | | | | | .74 | .83 | .93 | 1.0 | 1.4 | 1.8 | | | |
| | | | 150 | 2.8 | .14 | .06 | .02 | .01 | .01 | 59 | 86 | 113 | 164 | 215 | | | 9.0 | 8.5 | 8.5 | 8.0 | 8.0 | 7.5 | 7.0 | 6.5 | |
| | | | 200 | | .29 | .11 | .04 | .02 | .01 | | | | | | | | .87 | .96 | 1.1 | 1.2 | 1.5 | 1.8 | 2.5 | 3.1 | |
| | | | 300 | 2.8 | .35 | .13 | .05 | .03 | .01 | 59 | 86 | 113 | 164 | 215 | | | 9.0 | 9.0 | 9.0 | 8.5 | 8.5 | 8.5 | 8.0 | 7.5 | |
| | | | 500 | | .58 | .22 | .07 | .04 | .02 | | | | | | | | .92 | 1.0 | 1.2 | 1.3 | 1.6 | 1.9 | 2.5 | 3.2 | |
| | | 750 | 2.8 | .86 | .33 | .11 | .06 | .02 | 59 | 87 | 113 | 164 | 215 | | | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 8.5 | 8.5 | 8.0 | | |
| | | 1,000 | | 1.15 | .44 | .15 | .08 | .03 | | | | | | | | .97 | 1.1 | 1.2 | 1.4 | 1.7 | 1.9 | 2.6 | 3.2 | | |
| | | 2,000 | 4.2 | 2.30 | .88 | .29 | .16 | .06 | 61 | 87 | 113 | 164 | 215 | | | 9.5 | 9.5 | 9.5 | 9.5 | 9.0 | 9.0 | 9.0 | 8.5 | | |
| | | 3,500 | | 4.02 | 1.53 | .51 | .28 | .10 | | | | | | | | 1.1 | 1.2 | 1.4 | 1.5 | 1.8 | 2.1 | 2.7 | 3.3 | | |
| | | 5,000 | 5.1 | 5.74 | 2.19 | .73 | .40 | .15 | 63 | 88 | 114 | 165 | 216 | | | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.0 | 9.0 | 9.0 | | |
| | | 7,500 | | 8.61 | 3.28 | 1.09 | .59 | .22 | | | | | | | | 1.5 | 1.7 | 1.8 | 2.0 | 2.2 | 2.5 | 3.1 | 3.7 | | |
| | | 10,000 | 6.0 | 11.5 | 4.37 | 1.46 | .79 | .29 | 65 | 90 | 116 | 167 | 217 | | | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.0 | 9.0 | | |
| | | 15,000 | | 17.2 | 6.56 | 2.19 | 1.18 | .44 | | | | | | | | 2.0 | 2.1 | 2.3 | 2.4 | 2.7 | 2.9 | 3.6 | 4.2 | | |
| | | 20,000 | 6.9 | 23.0 | 8.74 | 2.92 | 1.58 | .58 | 67 | 92 | 118 | 168 | 218 | | | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | | |
| | | 25,000 | | 28.7 | 10.9 | 3.65 | 1.97 | .73 | | | | | | | | 2.4 | 2.5 | 2.7 | 2.8 | 3.1 | 3.3 | 3.9 | 4.5 | | |
| 50,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250,000 | | | | | | | | | | | | | | | | | | | | | | | | | |

(NOTE) For speeds not shown on the pump hydraulic charts, consult factory.



DC

PUMP HYDRAULIC SIZE CHART

SEC. 500

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**6 GPM
1150 RPM**

| NOMINAL | | ROTOR TRIM | VISCOSITY (SSU) | N.I.P.R. (PSIA) | FRICTION PIPE LOSS (PSI/FT) <small>(Based on Sch 40 Steel Pipe)</small> | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | | | | | | | | | | |
|-------------|--------------|---------------|------------------------|------------------------|---|------|--------|--------|-----|--|-----|-----|-------------|-----|----------------------------------|-----|-----|-----|-----------------------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|
| CAP. GPM | SPEED RPM | | | | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | | | | | | | | | | |
| | | | | | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | LOW PRES R/V | | | HI PRES R/V | | MEDIUM DUTY AND HEAVY DUTY | | | | HEAVY DUTY ONLY | | | | | | | | | | | | |
| 6 | 1150 | STD | 28 | 1.7 | .02 | .01 | .01 | .01 | .01 | 54 | 79 | 105 | | | 4.5 | 4.0 | 3.5 | 3.0 | | | | | | | | | | | | | |
| | | | 32 | | .03 | .01 | .01 | .01 | .01 | | | | | | | .18 | .30 | .43 | .57 | | | | | | | | | | | | |
| | | | 38 | 1.7 | .04 | .01 | .01 | .01 | .01 | 54 | 79 | 106 | 157 | | | 5.0 | 4.5 | 4.0 | 3.5 | 3.0 | | | | | | | | | | | |
| | | | 50 | | .05 | .02 | .01 | .01 | .01 | | | | | | | .27 | .39 | .52 | .65 | .92 | | | | | | | | | | | |
| | | | 70 | 1.7 | .06 | .02 | .01 | .01 | .01 | 54 | 79 | 106 | 157 | 208 | | 5.5 | 5.0 | 4.5 | 4.0 | 4.0 | 3.5 | | | | | | | | | | |
| | | | 100 | | .07 | .03 | .01 | .01 | .01 | | | | | | | .37 | .48 | .60 | .72 | .94 | 1.1 | | | | | | | | | | |
| | | | 150 | 1.7 | .09 | .04 | .01 | .01 | .01 | 55 | 80 | 107 | 158 | 208 | | 5.5 | 5.5 | 5.0 | 5.0 | 4.5 | 4.5 | 4.0 | 3.5 | | | | | | | | |
| | | | 200 | | .19 | .07 | .02 | .01 | .01 | | | | | | | .46 | .56 | .67 | .79 | .96 | 1.1 | 1.6 | 2.0 | | | | | | | | |
| | | | 300 | 1.7 | .23 | .09 | .03 | .02 | .01 | 55 | 81 | 108 | 159 | 209 | | 6.0 | 6.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.0 | 4.5 | | | | | | | | |
| | | | 500 | | .38 | .15 | .05 | .03 | .01 | | | | | | | .50 | .60 | .71 | .83 | .99 | 1.2 | 1.6 | 2.0 | | | | | | | | |
| | | | 750 | 1.7 | .57 | .22 | .07 | .04 | .01 | 55 | 81 | 108 | 159 | 209 | | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | 5.5 | 5.0 | | | | | | | | |
| | | | 1,000 | | .77 | .29 | .10 | .05 | .02 | | | | | | | .53 | .63 | .74 | .85 | 1.0 | 1.2 | 1.6 | 2.0 | | | | | | | | |
| | | 2,000 | 2.7 | 1.53 | .58 | .19 | .11 | .04 | 57 | 82 | 108 | 159 | 209 | | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | | | | | | | | | |
| | | 3,500 | | 2.68 | 1.02 | .34 | .18 | .07 | | | | | | | .58 | .68 | .79 | .90 | 1.1 | 1.3 | 1.7 | 2.1 | | | | | | | | | |
| | | 5,000 | 3.4 | 3.83 | 1.46 | .49 | .26 | .10 | 58 | 83 | 109 | 160 | 210 | | 6.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | | | | | | | | | |
| | | 7,500 | | 5.74 | 2.19 | .73 | .39 | .15 | | | | | | | .81 | .92 | 1.0 | 1.1 | 1.4 | 1.6 | 1.9 | 2.3 | | | | | | | | | |
| | | 10,000 | 4.1 | 7.65 | 2.91 | .97 | .53 | .19 | 60 | 85 | 111 | 161 | 211 | | 6.5 | 6.5 | 6.5 | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | | | | | | | | | |
| | | 15,000 | | 11.5 | 4.37 | 1.46 | .79 | .29 | | | | | | | 1.1 | 1.2 | 1.3 | 1.4 | 1.6 | 1.8 | 2.2 | 2.5 | | | | | | | | | |
| | | 20,000 | 4.7 | 15.3 | 5.83 | 1.95 | 1.05 | .39 | 61 | 86 | 112 | 162 | 212 | | 6.5 | 6.5 | 6.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | | | | | | | | | |
| | | 25,000 | | 19.1 | 7.28 | 2.43 | 1.31 | .48 | | | | | | | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0 | 2.4 | 2.7 | | | | | | | | | |
| | | 50,000 | 7.0 | 38.3 | 14.6 | 4.86 | 2.63 | .97 | 64 | 89 | 115 | 165 | 215 | | 6.5 | 6.5 | 6.5 | 6.5 | 6.0 | 6.0 | 6.0 | 6.0 | | | | | | | | | |
| | | 75,000 | | - | - | - | - | - | | | | | | | 1.9 | 2.0 | 2.0 | 2.1 | 2.3 | 2.5 | 2.9 | 3.2 | | | | | | | | | |
| | | 100,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 150,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(NOTE) For speeds not shown on the pump hydraulic charts, consult factory.



DC

PUMP HYDRAULIC SIZE CHART

SEC. 500

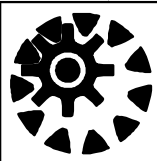
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January 2010

**4.5 GPM
870 RPM**

| NOMINAL | | ROTOR TRIM | VISCOSITY (SSU) | N.I.P.R. (PSIA) | FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe) | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | | | | |
|----------|-----------|------------|-----------------|-----------------|---|------|--------|--------|-----|---|-----|-------------|-----|-----|--------------------------------|-----|-----|-----|-----------------|-----|-----|-----|-----|--|--|
| CAP. GPM | SPEED RPM | | | | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | | | | |
| | | | | | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | LOW PRES R/V | | HI PRES R/V | | | MEDIUM DUTY AND HEAVY DUTY | | | | HEAVY DUTY ONLY | | | | | | |
| 4.5 | 870 | STD | 28 | 1.3 | .01 | .01 | .01 | .01 | .01 | 53 | 78 | 104 | | | | 3.5 | 2.5 | 2.0 | 1.5 | | | | | | |
| | | | 32 | | .03 | .01 | .01 | .01 | .01 | | | | | | | .15 | .22 | .31 | .42 | | | | | | |
| | | | 38 | 1.3 | .04 | .01 | .01 | .01 | .01 | 53 | 78 | 104 | 155 | | | 3.5 | 3.0 | 3.0 | 2.5 | 2.0 | | | | | |
| | | | 50 | | .05 | .02 | .01 | .01 | .01 | | | | | | | .20 | .28 | .37 | .48 | .69 | | | | | |
| | | | 70 | 1.3 | .05 | .02 | .01 | .01 | .01 | 54 | 79 | 105 | 156 | 206 | | 4.0 | 3.5 | 3.5 | 3.0 | 3.0 | 2.5 | | | | |
| | | | 100 | | .07 | .03 | .01 | .01 | .01 | | | | | | | .24 | .32 | .41 | .52 | .71 | .91 | | | | |
| | | | 150 | 1.3 | .09 | .03 | .01 | .01 | .01 | 54 | 79 | 106 | 157 | 207 | | 4.0 | 4.0 | 4.0 | 3.5 | 3.5 | 3.0 | 2.5 | 2.0 | | |
| | | | 200 | | .18 | .07 | .02 | .01 | .01 | | | | | | | .30 | .38 | .46 | .56 | .73 | .91 | 1.1 | 1.5 | | |
| | | | 300 | 1.3 | .21 | .08 | .03 | .01 | .01 | 54 | 80 | 107 | 157 | 207 | | 4.5 | 4.0 | 4.0 | 4.0 | 3.5 | 3.5 | 3.0 | 3.0 | | |
| | | | 500 | | .35 | .14 | .05 | .02 | .01 | | | | | | | .32 | .41 | .50 | .60 | .75 | .92 | 1.2 | 1.5 | | |
| | | 750 | 1.3 | .53 | .20 | .07 | .04 | .01 | 54 | 81 | 108 | 158 | 208 | | 4.5 | 4.5 | 4.5 | 4.0 | 4.0 | 4.0 | 3.5 | 3.5 | | | |
| | | 1,000 | | .70 | .27 | .09 | .05 | .02 | | | | | | | .38 | .45 | .53 | .61 | .77 | .93 | 1.2 | 1.5 | | | |
| | | 2,000 | 2.1 | 1.41 | .54 | .18 | .10 | .04 | 55 | 81 | 108 | 158 | 208 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.0 | 3.5 | | | |
| | | 3,500 | | 2.46 | .94 | .31 | .17 | .06 | | | | | | | .46 | .53 | .58 | .65 | .80 | .96 | 1.3 | 1.6 | | | |
| | | 5,000 | 2.7 | 3.51 | 1.34 | .45 | .24 | .09 | 56 | 82 | 108 | 158 | 208 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.0 | 4.0 | | | |
| | | 7,500 | | 5.26 | 2.00 | .67 | .36 | .13 | | | | | | | .56 | .63 | .68 | .75 | .88 | 1.1 | 1.4 | 1.7 | | | |
| | | 10,000 | 3.3 | 7.02 | 2.67 | .89 | .48 | .18 | 57 | 83 | 109 | 159 | 209 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.0 | | | |
| | | 15,000 | | 10.5 | 4.01 | 1.34 | .72 | .27 | | | | | | | .76 | .82 | .88 | .95 | 1.1 | 1.3 | 1.6 | 1.8 | | | |
| | | 20,000 | 3.8 | 14.0 | 5.34 | 1.78 | .96 | .36 | 58 | 83 | 109 | 159 | 209 | | 5.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| | | 25,000 | | 17.5 | 6.68 | 2.23 | 1.20 | .44 | | | | | | | .90 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.8 | 2.0 | | | |
| 50,000 | 5.8 | 35.0 | 13.4 | 4.46 | 2.41 | .89 | 61 | 86 | 112 | 162 | 212 | | 5.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | |
| 75,000 | | - | - | - | - | - | | | | | | | 1.4 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0 | 2.2 | 2.5 | | | | | |
| 100,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200,000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250,000 | | | | | | | | | | | | | | | | | | | | | | | | | |

(NOTE) For speeds not shown on the pump hydraulic charts, consult factory.



DC

PUMP HYDRAULIC SIZE CHART

SEC. 500

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3 GPM
580 RPM

| NOMINAL | | ROTOR TRIM | VISCOSITY (SSU) | N.I.P.R. (PSIA) | FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe) | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | | | | | |
|----------|-----------|------------|-----------------|-----------------|---|-----|--------|--------|-----|---|-----|-------------|-----|-----|--------------------------------|-----|-----|-----|-----------------|-----|-----|-----|-----|--|--|--|
| CAP. GPM | SPEED RPM | | | | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | | | | | |
| | | | | | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | LOW PRES R/V | | HI PRES R/V | | | MEDIUM DUTY AND HEAVY DUTY | | | | HEAVY DUTY ONLY | | | | | | | |
| | | | | | | | 50 | 75 | 100 | 150 | 200 | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | | | | | | | |
| 3 | 580 | STD | 28 | 1.0 | .01 | .01 | .01 | .01 | .01 | 53 | 78 | 104 | | | | 2.0 | 1.5 | 1.5 | 1.0 | | | | | | | |
| | | | 32 | 1.0 | .01 | .01 | .01 | .01 | .01 | | | | | | | .05 | .10 | .19 | .27 | | | | | | | |
| | | | 38 | 1.0 | .01 | .01 | .01 | .01 | .01 | 53 | 78 | 104 | 154 | | | 2.5 | 2.0 | 1.5 | 1.5 | 1.0 | | | | | | |
| | | | 50 | 1.0 | .02 | .01 | .01 | .01 | .01 | | | | | | | .06 | .11 | .20 | .29 | .43 | | | | | | |
| | | | 70 | 1.0 | .02 | .01 | .01 | .01 | .01 | 53 | 78 | 104 | 154 | 204 | | 2.5 | 2.0 | 2.0 | 1.5 | 1.5 | 1.5 | | | | | |
| | | | 100 | 1.0 | .04 | .02 | .01 | .01 | .01 | | | | | | | .06 | .12 | .22 | .32 | .45 | .53 | | | | | |
| | | | 150 | 1.0 | .05 | .02 | .01 | .01 | .01 | | | | | | | 2.5 | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 | | | |
| | | | 200 | 1.0 | .09 | .04 | .01 | .01 | .01 | 53 | 78 | 104 | 155 | 205 | | .07 | .14 | .25 | .35 | .47 | .57 | .85 | 1.1 | | | |
| | | | 300 | 1.0 | .12 | .05 | .02 | .01 | .01 | | | | | | | 3.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 | 2.0 | | | |
| | | 500 | 1.0 | .19 | .07 | .03 | .01 | .01 | 53 | 79 | 104 | 155 | 205 | | .09 | .18 | .28 | .38 | .49 | .59 | .87 | 1.1 | | | | |
| | | 750 | 1.0 | .29 | .11 | .04 | .02 | .01 | | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 | 2.5 | 2.0 | | | | |
| | | 1,000 | 1.0 | .38 | .15 | .05 | .03 | .01 | 53 | 79 | 104 | 155 | 205 | | .12 | .21 | .30 | .39 | .51 | .61 | .89 | 1.1 | | | | |
| | | 2,000 | 1.8 | .77 | .29 | .10 | .05 | .02 | 54 | 79 | 105 | 155 | 205 | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 | | | | |
| | | 3,500 | 1.8 | 1.34 | .51 | .17 | .09 | .04 | | | | | | | .19 | .30 | .37 | .43 | .53 | .64 | .91 | 1.2 | | | | |
| | | 5,000 | 2.3 | 1.91 | .73 | .24 | .13 | .05 | 54 | 80 | 105 | 156 | 206 | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.5 | | | | |
| | | 7,500 | 2.3 | 2.87 | 1.09 | .37 | .20 | .07 | | | | | | | .29 | .39 | .45 | .52 | .62 | .73 | .93 | 1.2 | | | | |
| | | 10,000 | 2.8 | 3.83 | 1.46 | .49 | .26 | .10 | | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | | |
| | | 15,000 | 2.8 | 5.74 | 2.19 | .73 | .40 | .15 | 55 | 80 | 106 | 156 | 206 | | .41 | .50 | .56 | .62 | .72 | .82 | .99 | 1.2 | | | | |
| 20,000 | 3.3 | 7.65 | 2.91 | .97 | .53 | .19 | | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | | | | |
| 25,000 | 3.3 | 9.57 | 3.64 | 1.22 | .66 | .24 | 56 | 81 | 106 | 156 | 206 | | .51 | .59 | .65 | .71 | .82 | .93 | 1.1 | 1.3 | | | | | | |
| 50,000 | 5.6 | 19.1 | 7.28 | 2.43 | 1.31 | .48 | | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | | | | |
| 75,000 | 5.6 | 28.7 | 10.9 | 3.65 | 1.97 | .73 | 56 | 81 | 106 | 156 | 206 | | .79 | .87 | .92 | .97 | 1.1 | 1.2 | 1.4 | 1.7 | | | | | | |
| 100,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250,000 | | | | | | | | | | | | | | | | | | | | | | | | | | |

(NOTE) For speeds not shown on the pump hydraulic charts, consult factory.