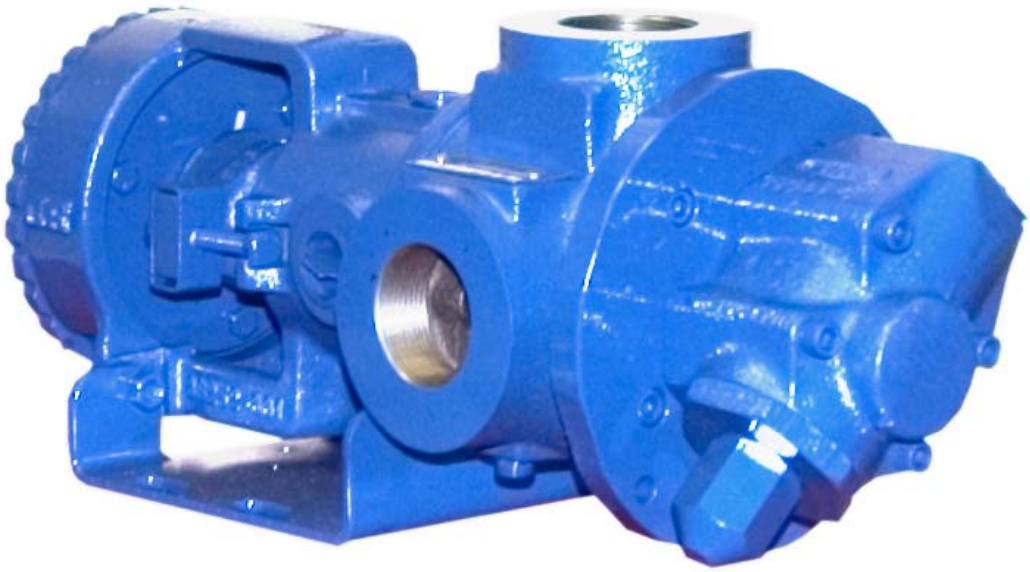
GORMAN-RUPP
ROTARY GEAR PUMPS

# GHS SERIES FLEXIBLE SEAL HEAVY DUTY STANDARD STAINLESS STEEL ROTARY GEAR PUMP

This heavy duty series with internal "wetted" parts of 316 Stainless Steel is ideal for handling corrosive applications. Superior rotor shaft support and an integral maintenance-free radial/thrust bearing, reduce deflection and wear.

Due to the "galling" nature of stainless, extra internal clearance is necessary. A capacity correction table for liquids less than 750 SSU is available in Section 500.



**SHOWN W/INTERCHANGE FOOT BRACKET**

The GHS stainless series is designed for applications in the operating ranges noted below. These units are available with head and backhead jackets for temperature control, silicon carbide bushings for wear resistance, and numerous shaft seal options described on the following pages.

## FEATURES

*200 PSI CAPABILITY*

*BALL BEARING THRUST CONTROL*

*ROTOR END CLEARANCE EXTERNALLY ADJUSTABLE*

*EXCEPTIONAL SEAL VERSATILITY WITH INTERNAL SEAL VENT*

*COMPUTER PROFILED GEARING FOR QUIET OPERATION*

*MULTIPLE PORT POSITIONS*

*FLEXIBLE SEAL DESIGN ALLOWS FOR A VARIETY OF INDUSTRY STANDARD SEALS OR PACKING*

## OPERATING RANGE

| | | |
|---|---|---|
| CAPACITY | (GPM): | (3 TO 295) |
| | [LPM] : | [11 TO 1116] |
| PRESSURE | (PSI) : | [0 TO 200) |
| | [BAR] : | [0 TO 14] |
| VISCOSITY | (SSU) : | (28 TO 2,000,000) |
| | [cSt] : | [1 TO 440,000] |
| TEMPERATURE | (F) : | (-30° TO 675°) |
| | [C] : | [-34° TO 358°] |

## APPLICATIONS

USE WITH ANY CLEAN LIQUID COMPATIBLE WITH 316 STAINLESS STEEL

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



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# Standard Construction

| EXTERIOR | BACKHD | ROTOR & IDLER | HOUSING PORTS | BUSHING | IDLER PIN | SHAFT | SHAFT SEALING | | ROTATION | INTERNAL RELIEF VALVE | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MECH. SEAL ● | PACKING ■ | | MATERIAL | SETTING |
| 316 STAIN. STEEL | CAST IRON | 316 STAIN. STEEL | GHC 180° FLG.<br>GHS 90° NPT | CARBON GRAPHITE | COATED 316 SST | STAIN. STEEL | CARBON, SiC, TEFLON ENC. | CARBON FIBER | C.W. | 316 STAINLESS STEEL | 75 PSI [5 BAR] |

# Standard Models

| G | H | C | | 1 | DC | 9 | – | B |
|---|---|---|---|---|---|---|---|---|
| G | H | S | | 1 | DC | 9 | – | B |
| GEAR | DUTY | DESIGN | | PORT SIZE | HYD. SIZE | SEAL | | STYLE |

| MODEL NUMBER | | NOM. CAPACITY - SPEED | | | | MAXIMUM | | | | SHIPPING DATA | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MAXIMUM | | ALTERNATIVE | | DIFF. PRESSURE - PSI [BAR] | | | TEMP. | | |
| | | 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] | Wt. LBS [KG] | Vol. CU. FT. |
| GHC | GHS | | | | | | | | | | |
| **GHC 1 DC9-B** ① ● ⊦ | **GHS 1 DC9-B** ① ●<br>**GHS 1 DC10-B** ① ■ | 9 [28] | 1750 [1460] | 6 [19] | 1150 [960] | 75 [5] | 100 [7] | 200 [14] | GHC ● 350 [177]<br>GHS ● 400 [204]<br>■ 500 [260] | 32 [14,5] | 2.9 |
| **GHC 1 DE9-B** ① ● ⊦ | **GHS 1 DE9-B** ① ●<br>**GHS 1 DE10-B** ① ■ | 11 [35] | | 7 [22] | | | | | | 32 [14,5] | 2.9 |
| **GHC 1-1/2 GC9-B** ● ⊦ | **GHS 1-1/2 GC9-B** ●<br>**GHS 1-1/2 GC10-B** ■ | 16 [50] | | 10 [32] | | | | | | 63 [28,6] | 2.9 |
| | GHS 2 GC9-B ●<br>GHS 2 GC10-B ■ | | | | | | | | | 63 [28,6] | 2.9 |
| **GHC 1-1/2 GF9-B** ● ⊦ | **GHS 1-1/2 GF9-B** ●<br>**GHS 1-1/2 GF10-B** ■ | 23 [73] | | 15 [47] | | | | | | 63 [28,6] | 2.9 |
| | GHS 2 GF9-B ●<br>GHS 2 GF10-B ■ | | | | | | | | | 63 [28,6] | 2.9 |
| **GHC 1-1/2 GH9-B** ● ⊦ | **GHS 1-1/2 GH9-B** ●<br>**GHS 1-1/2 GH10-B** ■ | 31 [98] | | 20 [63] | | | | | | 63 [28,6] | 2.9 |
| | GHS 2 GH9-B ●<br>GHS 2 GH10-B ■ | | | | | | | | | 63 [28,6] | 2.9 |
| **GHC 1-1/2 GJ9-B** ● ⊦ | GHS 1-1/2 GJ9-B ●<br>GHS 1-1/2 GJ10-B ■ | 38 [120] | | 25 [79] | | | | | | 63 [28,6] | 2.9 |
| | **GHS 2 GJ9-B** ●<br>**GHS 2 GJ10-B** ■ | | | | | | | | | 63 [28,6] | 2.9 |
| | **GHS 2 JG9-B** ●<br>**GHS 2 JG10-B** ■ | 40 [126] | 1150 [960] | 30 [95] | 870 [725] | | | | | 161 [73,2] | 5.3 |
| **GHC 3 JG9-B** ● ⊦ | GHS 3 JG9-B ●<br>GHS 3 JG10-B ■ | | | | | | | | | 161 [73,2] | 5.3 |
| | GHS 2 JJ9-B ●<br>GHS 2 JJ10-B ■ | 56 [177] | | 42 [133] | | | | | | 161 [73,2] | 5.3 |
| **GHC 3 JJ9-B** ● ⊦ | **GHS 3 JJ9-B** ●<br>**GHS 3 JJ10-B** ■ | | | | | | | | | 161 [73,2] | 5.3 |

STANDARD MODELS CONTINUED

① 3450 [2875] RPM PERMISSIBLE TO 1,000 SSU [220 cSt.] AND 100 PSI [7 BAR]

● MECHANICAL SEAL

■ PACKING/LIP SEAL

⊦ PORTS ARE COMPATIBLE WITH 150# ANSI FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL [DIN] FLANGES OR TAPPED [BSP] PORTS ARE AVAILABLE FOR EXPORT MARKET.

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GHC 1 DC9-B, GHS 1 DC9-B**



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# Standard Models (Continued)

| MODEL NUMBER | | NOM. CAPACITY – SPEED | | | | MAXIMUM | | | | SHIPPING DATA | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MAXIMUM | | ALTERNATIVE | | DIFF. PRESSURE – PSI [BAR] | | | TEMP. | | |
| GHC | GHS | 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] | Wt. LBS [KG] | Vol. CU. FT. |
| | GHS 2 JL9-B ● <br> GHS 2 JL10-B ■ | 77 [243] | 1150 [960] | 58 [133] | 870 [725] | 75 [5] | 100 [7] | 200 [14] | GHC ● 400 [204] <br> GHS ● 400 [204] ■ 500 [260] | 161 [73,2] | 5.3 |
| **GHC 3 JL9-B ● ⊦** | **GHS 3 JL9-B ●** <br> **GHS 3 JL10-B ■** | | | | | | | | | 161 [73,2] | 5.3 |
| | GHS 2 JP9-B ● <br> GHS 2 JP10-B ■ | 107 [338] | | 81 [256] | | | | | | 161 [73,2] | 5.3 |
| **GHC 3 JP9-B ● ⊦** | **GHS 3 JP9-B ●** <br> **GHS 3 JP10-B ■** | | | | | | | | | 161 [73,2] | 5.3 |
| | GHS 2 NK9-B ● <br> GHS 2 NK10-B ■ | 99 [375] | 960 [960] | 60 [189] | 580 [480] | | | | | 180 [81,8] | 5.3 |
| | GHS 2-1/2 NK9-B ● <br> GHS 2-1/2 NK10-B ■ | | | | | | | | | 180 [81,8] | 5.3 |
| | **GHS 3 NK9-B ●** <br> **GHS 3 NK10-B ■** | | | | | | | | | 180 [81,8] | 5.3 |
| | GHS 2 NM9-B ● <br> GHS 2 NM10-B ■ | 132 [500] | | 80 [252] | | | | | | 180 [81,8] | 5.3 |
| | GHS 2-1/2 NM9-B ● <br> GHS 2-1/2 NM10-B ■ | | | | | | | | | 180 [81,8] | 5.3 |
| | **GHS 3 NM9-B ●** <br> **GHS 3 NM10-B ■** | | | | | | | | | 180 [81,8] | 5.3 |
| | GHS 2-1/2 NP9-B ● <br> GHS 2-1/2 NP10-B ■ | 165 [624] | | 99 [312] | | | | | | 180 [81,8] | 5.3 |
| | **GHS 3 NP9-B ●** <br> **GHS 3 NP10-B ■** | | | | | | | | | 180 [81,8] | 5.3 |
| | GHS 2 RM9-B ● <br> GHS 2 RM10-B ■ | 172 [542] | 720 [600] | 115 [362] | 480 [400] | | | | | 357 [162] | 10.7 |
| | GHS 2-1/2 RM9-B ● ⊦ <br> GHS 2-1/2 RM10-B ■ ⊦ | | | | | | | | | 357 [162] | 10.7 |
| | **GHS 3 RM9-B ● ⊦** <br> **GHS 3 RM10-B ■ ⊦** | | | | | | | | | 357 [162] | 10.7 |
| | GHS 4 RM9-B ● ⊦ <br> GHS 4 RM10-B ■ ⊦ | | | | | | | | | 357 [162] | 10.7 |
| | **GHS 3 RP9-B ● ⊦** <br> **GHS 3 RP10-B ■ ⊦** | 215 [678] | | 143 [451] | | | | | | 357 [162] | 10.7 |
| | GHS 4 RP9-B ● ⊦ <br> GHS 4 RP10-B ■ ⊦ | | | | | | | | | 357 [162] | 10.7 |

STANDARD MODELS CONTINUED

● MECHANICAL SEAL
■ PACKING/LIP SEAL

⊦ PORTS ARE COMPATIBLE WITH 150# ANSI FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL [DIN] FLANGES OR TAPPED [BSP] PORTS ARE AVAILABLE FOR EXPORT MARKET.

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GHC 1 DC9-B, GHS 1 DC9-B**



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# Standard Models (Continued)

| MODEL NUMBER | | NOM. CAPACITY - SPEED | | | | MAXIMUM | | | | SHIPPING DATA | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MAXIMUM | | ALTERNATIVE | | DIFF. PRESSURE - PSI [BAR] | | | TEMP. | Wt. | Vol. |
| GHC | GHS | 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. |
| | GHS 3 RR9-B ● ⊩<br>GHS 3 RR10-B ■ ⊩ | 255 [804] | 720 [600] | 170 [536] | 480 [400] | 75 [5] | 100 [7] | 200 [14] | GHS<br>● 400 [204]<br>■ 500 [260] | 357 [162] | 10.7 |
| | **GHS 4 RR9-B ● ⊩<br>GHS 4 RR10-B ■ ⊩** | | | | | | | | | 357 [162] | 10.7 |
| | **GHS 4 RS9-B ● ⊩<br>GHS 4 RS10-B ■ ⊩** | 295 [930] | | 196 [618] | | | | | | 357 [162] | 10.7 |

⊩ PORTS ARE COMPATIBLE WITH 150# ANSI STAINLESS STEEL FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE.OPTIONAL [DIN] FLANGES OR TAPPED [BSP] PORTS AVAILABLE FOR EXPORT MARKET.

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN BOLDFACE. EXAMPLE: **GHC 1 DC9—B, GHS 1 DC9—B**

**APPLICATION RECOMMENDATIONS**:

| APPLICATION | OPTIONS REQUIRED (Select One From Each Row) | OPERATING LIMITATIONS |
|---|---|---|
| GHS ONLY<br>HIGH TEMPERATURE | 25U, 25V, OR 25W<br>35J — 35M (AS REQ'D)<br>40R, 70K<br>61H OR 65Q | TEMPERATURE: 675°F MAX.<br>PRESSURE: 200 PSI MAX. |
| GHS ONLY<br>JACKETED | 40K, 40W, 41U, 41W | LIMIT JACKET PRESSURE TO 150 PSI |

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


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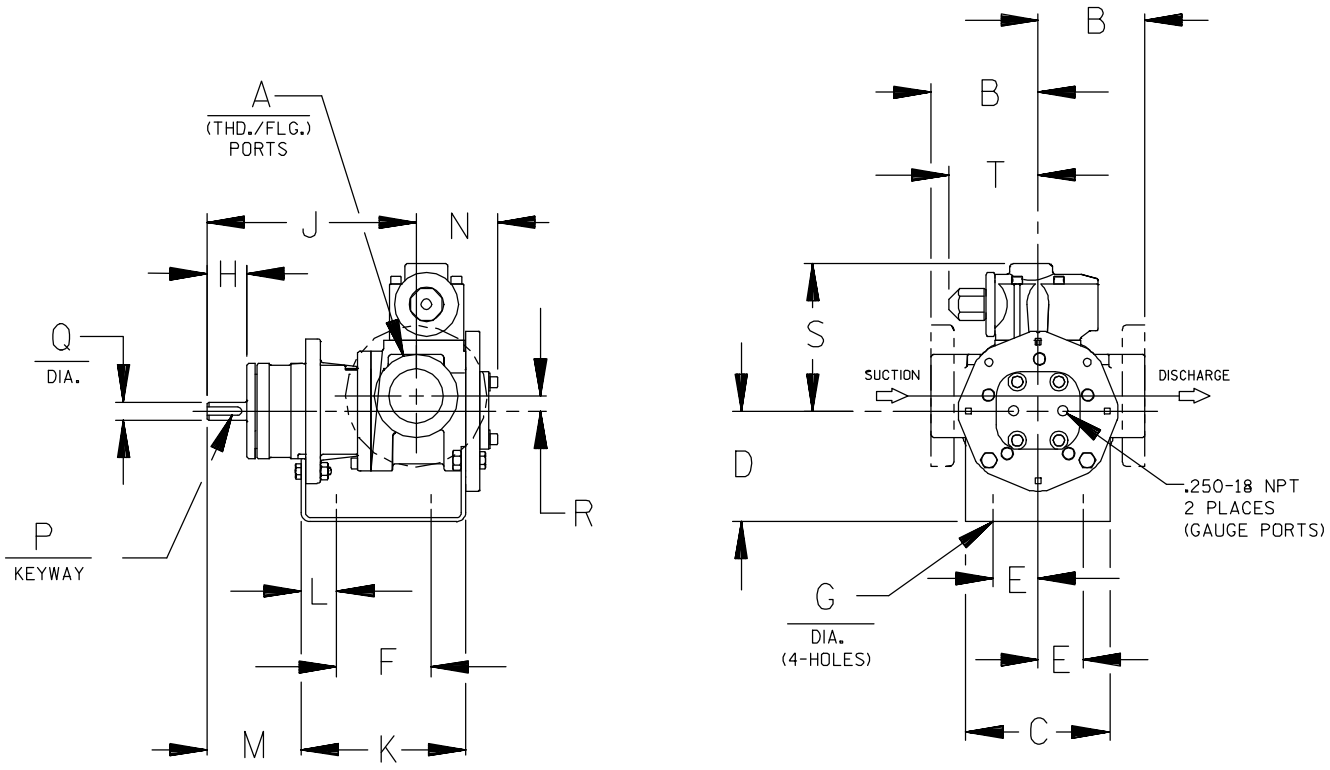
# Dimensions – GHC






CAD FILE NO.: 16458B

| MODEL NUMBERS | PUMP DIMENSIONS - INCHES [MILLIMETERS] | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T |
| GHC D | 1" | 2.50 [64] †<br>4.00 ✳ [102] ⊢ | 4.00 [102] | 3.50 ✳ [89]<br>4.50 [114]<br>5.25 [133] | 1.62 [41] | 3.12 [79] | .41 [10] | 1.16 [30] | 6.19 [157] | 5.04 [128] | .76 [19] | 2.62 [66] | 2.74 [70] | .12 [3] × .75 [19] | .50 [13] | .62 [16] | 5.19 [132] | 3.58 [91] |
| GHC G | 1-1/2" | 3.50 [89] †<br>4.00 ✳ [102] ⊢ | 5.88 [149] | 3.50 ✳ [89]<br>4.50 [114]<br>5.25 [133]<br>6.25 [159] | 1.62 [41] | 4.00 [102] | .41 [10] | 1.62 [41] | 8.50 [216] | 6.71 [170] | 1.06 [27] | 3.82 [97] | 3.35 [85] | .19 [5] × 1.25 [32] | .75 [19] | .62 [16] | 6.00 [152] | 3.62 [92] |
| GHC J | 3" | 4.50 [114] †<br>✳ 6.00 [152] ⊢ | 6.88 [175] | 4.50 [114]<br>5.25 ✳ [133]<br>6.25 [159]<br>7.00 [178]<br>8.00 [203] | 2.88 [73] | 4.25 [108] | .44 [11] | 2.50 [64] | 12.12 [308] | 9.75 [248] | 1.75 [44] | 5.50 [140] | 4.66 [118] | .25 [6] × 2.00 [51] | 1.00 [25] | 1.12 [28] | 9.06 [230] | 6.75 [171] |

✳ STANDARD DIMENSION

⊢ PORTS ARE COMPATIBLE WITH 125# OR 250# ANSI CAST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

† 90° HOUSING



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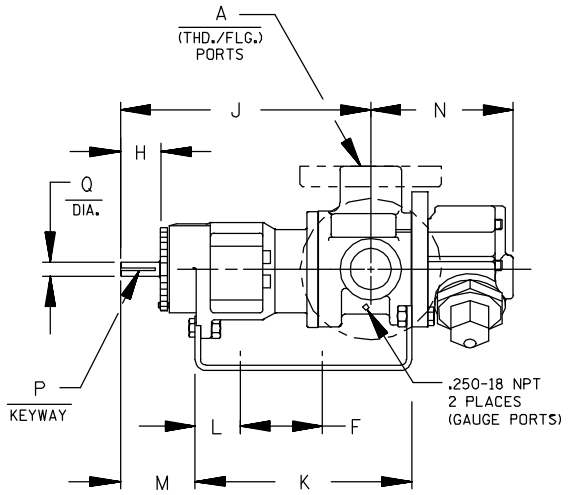
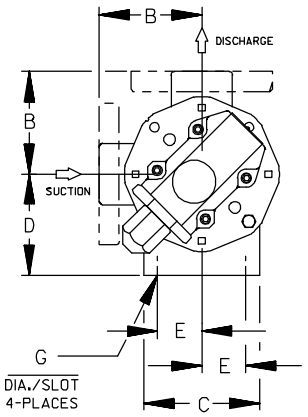
# Dimensions – GHS

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| MODEL NUMBERS | PUMP DIMENSIONS - INCHES [MILLIMETERS] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q |
| GHS D | 1" | 2.50 [64] ✳<br>4.00 [102] ⊢ † | 4.00 [102] | 3.50 [89] ✳<br>4.50 [114]<br>5.25 [133] | 1.62 [41] | 5.50 [140] | .41 [10] | 1.16 [30] | 8.43 [214] | 7.54 [192] | 1.09 [28] | 2.29 [58] | 4.98 [127] | .12 [3] × .75 [19] | .50 [13] |
| GHS G | 1-1/2"<br>2" | 3.50 [89] ✳<br>4.00 [102] ⊢ † | 4.88 [124] | 3.50 [89] ✳<br>4.50 [114]<br>5.25 [133]<br>6.25 [159] | 1.62 [41] | 8.00 [203] | .41 [10] | 1.62 [41] | 12.06 [306] | 10.72 [272] | 1.52 [39] | 3.35 [85] | 5.70 [145] | .19 [5] × 1.25 [32] | .75 [19] |
| GHS J | 2"<br>3" | 4.50 [114] ✳<br>6.00 [152] ⊢ † | 6.88 [175] | 5.25 [133] ✳<br>6.25 [159]<br>7.00 [178]<br>8.00 [203] | 2.88 [73] | 10.00 [254] | .44 [11] | 2.50 [64] | 15.68 [398] | 14.31 [363] | 2.77 [70] | 4.48 [114] | 8.50 [216] | .25 [6] × 2.00 [51] | 1.00 [25] |
| GHS N | 2"<br>3" | 5.12 [130] | 8.00 [203] | 4.50 [114]<br>5.25 [133] ✳<br>6.25 [159]<br>7.00 [178]<br>8.00 [203] | 2.88 [73] | 10.00 [254] | .44 [11] | 2.58 [66] | 16.37 [416] ✳ | 15.14 [385] | 2.69 [68] | 4.56 [116] | 8.72 [221] ✳ | .25 [6] × 2.00 [51] | 1.12 [32] |
| GHS R | 2"<br>2-1/2"<br>3"<br>4" | 6.50 [165]<br>7.19 [183] ⊢ | 10.50 [267] | 7.00 [178] | 3.75 [95] | 13.75 [349] | .52 [13] | 2.25 [57] | 17.87 [454] | 17.36 [441] | 1.86 [47] | 4.70 [119] | 11.31 [287] | .38 [10] × 1.88 [48] | 1.44 [37] |

✳ STANDARD DIMENSION

⊢ PORTS ARE COMPATIBLE WITH 150# OR 300# ANSI STAINLESS STEEL FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

† 180° HOUSING



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# GHC/GHS

## FOR GHC DRIVE OPTIONS

## AND DIMENSIONS

## SEE SECTION 540

## FOR GHS DRIVE OPTIONS

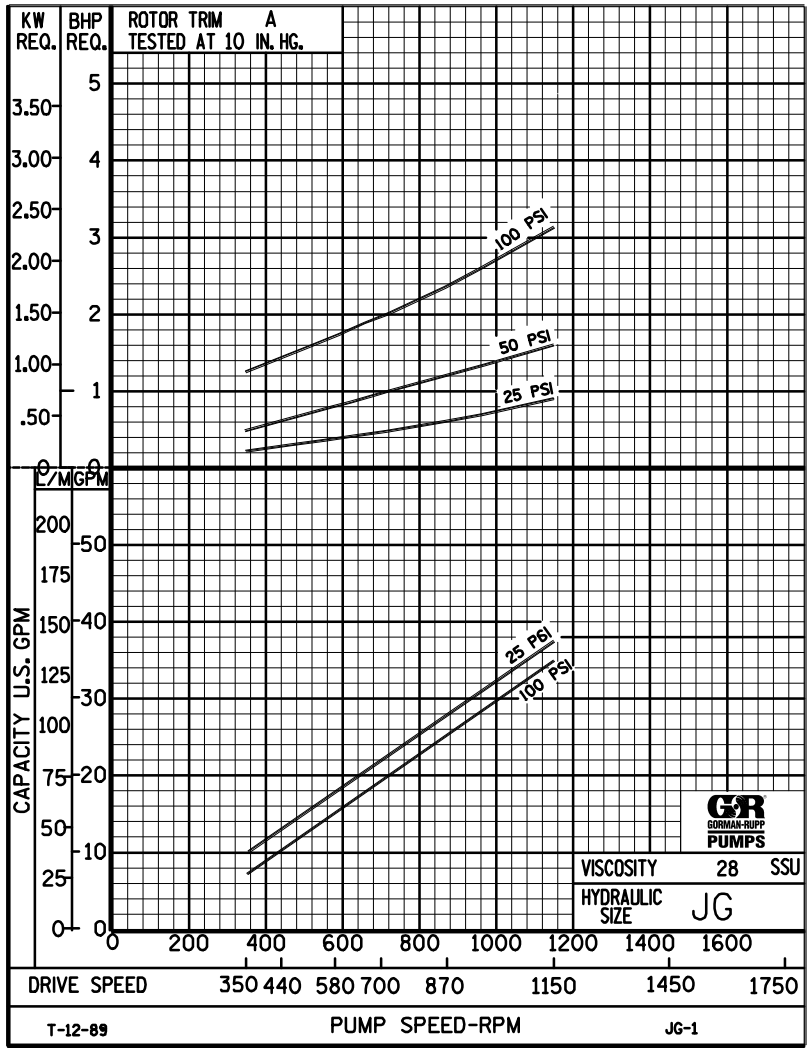
## AND DIMENSIONS

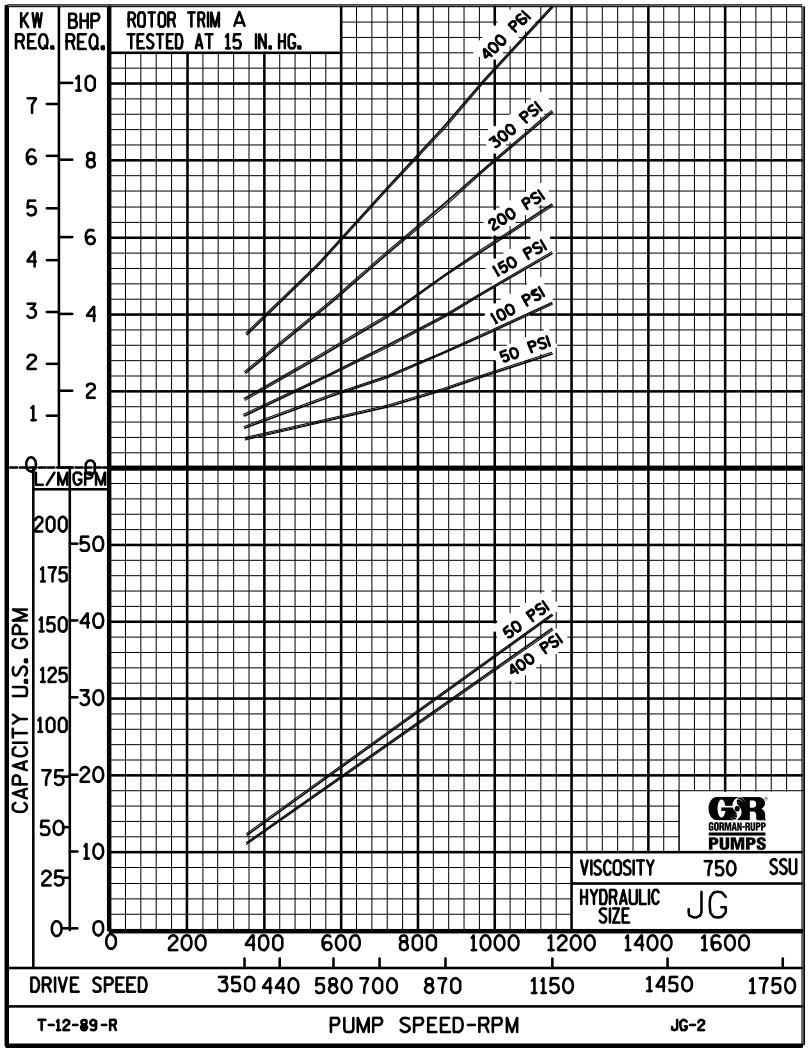
## SEE SECTION 545

# PERFORMANCE CURVES

## SPEED VS. CAPACITY/HORSEPOWER

JG Hydraulic Size



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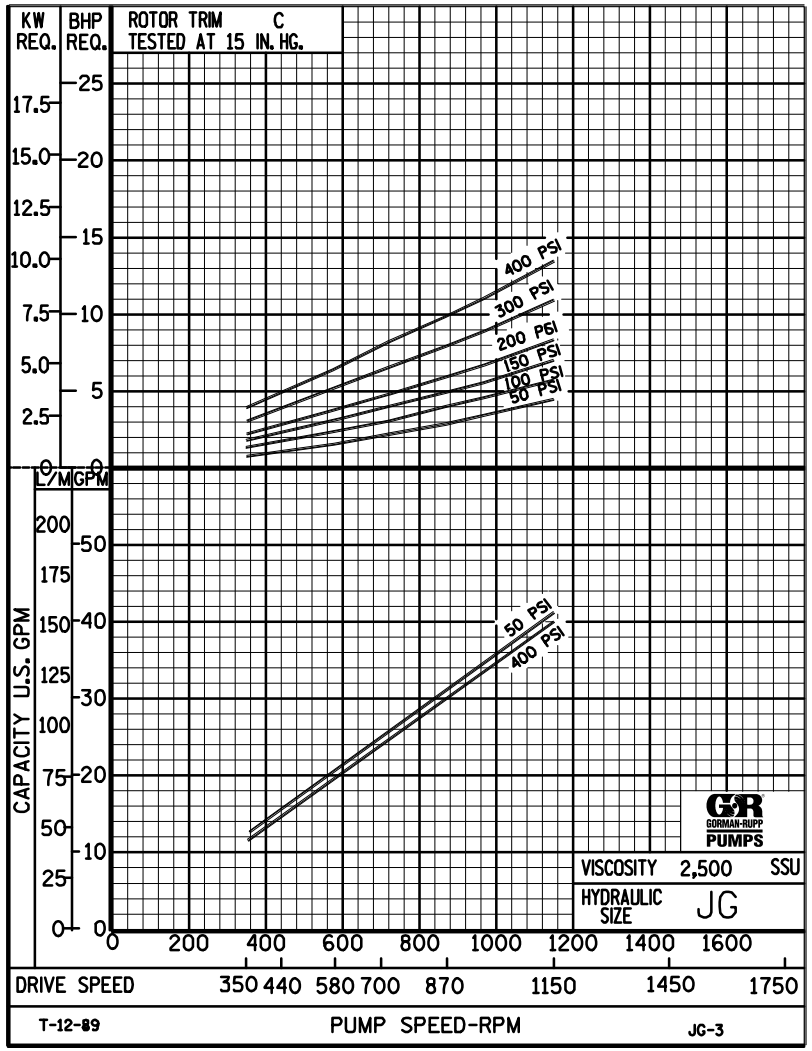
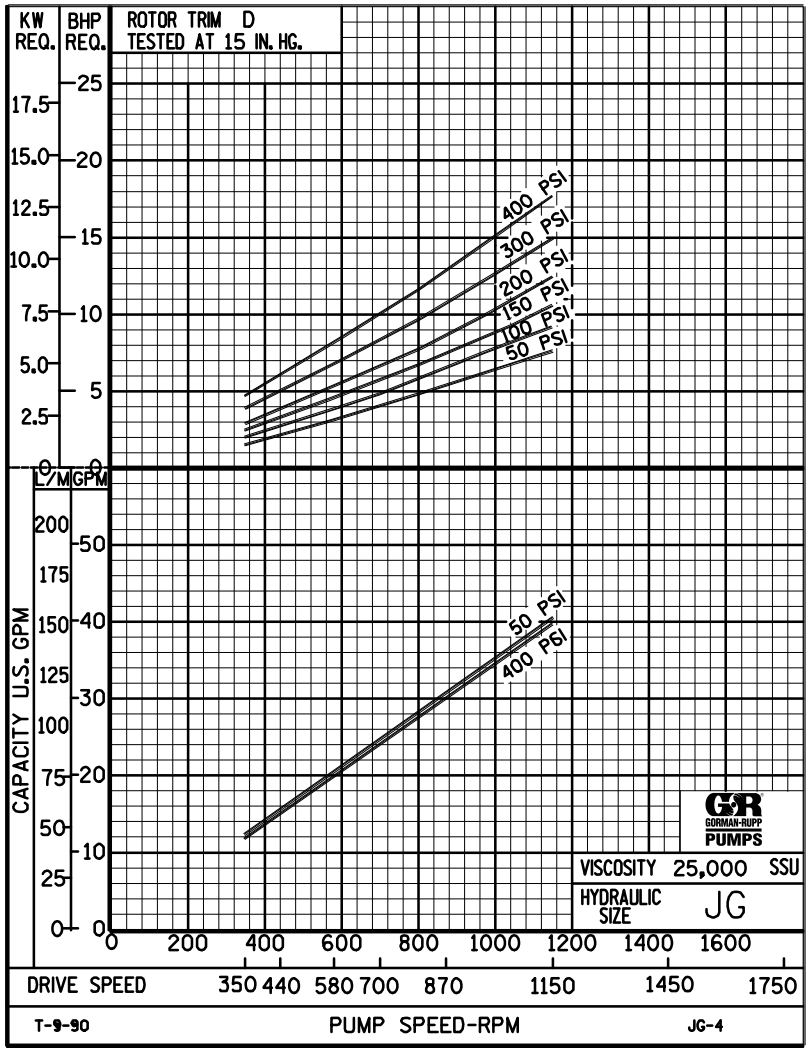
# PERFORMANCE CURVES

## SPEED VS. CAPACITY/HORSEPOWER

JG Hydraulic Size



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GORMAN-RUPP
ROTARY GEAR PUMPS

# JG

## PUMP HYDRAULIC SIZE CHART

40 GPM
1150 RPM

| NOMINAL CAP. GPM | NOMINAL SPEED RPM | ROTOR TRIM | VISCOSITY (SSU) | N.I.P.R. (PSIA) | FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe) PIPE DIAMETER 1½" | 2" | 2½" | 3" | 4" | FULL BYPASS RELIEF VALVE PRESSURE (PSI) CRACKING PRESS. (PSI) LOW PRES R/V 50 | 75 | 100 | HI PRES R/V 150 | 200 | CAPACITY (GPM) / H.P. REQUIRED DIFFERENTIAL PRESSURE (PSI) 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | HEAVY DUTY | | | | | | | |
| 40 | 1150 | STD | 28 | 3.9 | .01 | .01 | .01 | .01 | .01 | 59 | 84 | 116 | | | 37 | 36 | 35 | 35 | | | | |
| | | | 32 | | .04 | .01 | .01 | .01 | .01 | | | | | | .91 | 1.6 | 2.4 | 3.1 | | | | |
| | | | 38 | 3.9 | .05 | .02 | .01 | .01 | .01 | 59 | 84 | 116 | 160 | | 38 | 37 | 37 | 36 | 35 | | | |
| | | | 50 | | .06 | .02 | .01 | .01 | .01 | | | | | | 1.1 | 1.8 | 2.4 | 3.2 | 4.8 | | | |
| | | | 70 | 3.9 | .07 | .02 | .01 | .01 | .01 | 59 | 84 | 116 | 160 | 212 | 39 | 38 | 38 | 37 | 37 | 36 | | |
| | | | 100 | | .08 | .03 | .01 | .01 | .01 | | | | | | 1.4 | 2.0 | 2.6 | 3.3 | 4.8 | 6.2 | | |
| | | | 150 | 3.9 | .09 | .03 | .01 | .01 | .01 | 60 | 85 | 118 | 160 | 212 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 36 |
| | | | 200 | | .10 | .03 | .01 | .01 | .01 | | | | | | 1.8 | 2.3 | 2.8 | 3.5 | 5.4 | 6.7 | 8.7 | 12 |
| | | | 300 | 3.9 | .10 | .04 | .02 | .01 | .01 | 60 | 87 | 118 | 160 | 212 | 40 | 40 | 40 | 39 | 39 | 39 | 38 | 37 |
| | | | 500 | | .18 | .06 | .03 | .01 | .01 | | | | | | 2.3 | 2.8 | 3.4 | 3.9 | 5.5 | 6.7 | 9.1 | 12 |
| | | | 750 | 3.9 | .26 | .10 | .05 | .02 | .01 | 60 | 87 | 118 | 160 | 212 | 41 | 41 | 40 | 40 | 40 | 40 | 39 | 39 |
| | | | 1,000 | | .35 | .13 | .06 | .03 | .01 | | | | | | 2.6 | 3.0 | 3.6 | 4.3 | 5.6 | 6.9 | 9.3 | 12 |
| | | | 2,000 | 3.9 | .70 | .26 | .13 | .05 | .02 | 62 | 89 | 120 | 162 | 214 | 41 | 41.1 | 41 | 41 | 40 | 40 | 40 | 40 |
| | | "C" | 3,500 | | 1.23 | .45 | .22 | .09 | .03 | | | | | | 3.9 | 4.5 | 5.1 | 5.7 | 7.0 | 8.4 | 11 | 14 |
| | | | 5,000 | 3.9 | 1.75 | .65 | .32 | .13 | .05 | 64 | 91 | 122 | 162 | 214 | 41 | 41 | 41 | 41 | 40 | 40 | 40 | 40 |
| | | | 7,500 | | 2.63 | .97 | .48 | .20 | .07 | | | | | | 4.4 | 5.7 | 6.2 | 7.0 | 8.3 | 9.6 | 12 | 15 |
| | | | 10,000 | 3.9 | 3.50 | 1.29 | .63 | .27 | .09 | 66 | 93 | 125 | 162 | 216 | 41 | 41 | 41 | 40 | 40 | 40 | 40 | 40 |
| | | | 15,000 | | 5.25 | 1.93 | .95 | .40 | .14 | | | | | | 5.8 | 7.0 | 7.4 | 8.3 | 9.6 | 11 | 14 | 14 |
| | | | 20,000 | 4.0 | 7.00 | 2.58 | 1.27 | .53 | .18 | 68 | 95 | 128 | 162 | 216 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 39 |
| | | "D" | 25,000 | | 8.75 | 3.22 | 1.58 | .67 | .23 | | | | | | 7.2 | 7.8 | 8.5 | 9.2 | 11 | 12 | 15 | 18 |
| | | | 50,000 | 5.3 | 17.5 | 6.44 | 3.17 | 1.33 | .45 | 72 | 99 | 132 | 166 | 220 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 39 |
| | | | 75,000 | | – | – | – | – | – | | | | | | 11 | 12 | 12 | 13 | 15 | 17 | 20 | 24 |
| | | | 100,000 | | | | | | | | | | | | | | | | | | | |
| | | | 150,000 | | | | | | | | | | | | | | | | | | | |
| | | | 200,000 | | | | | | | | | | | | | | | | | | | |
| | | | 250,000 | | | | | | | | | | | | | | | | | | | |

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

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GORMAN-RUPP
ROTARY GEAR PUMPS

# JG

## PUMP HYDRAULIC SIZE CHART

30 GPM
870 RPM

| NOMINAL | | ROTOR TRIM | VISCOSITY | N.I.P.R. | FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe) | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | | |
| CAP. GPM | SPEED RPM | | (SSU) | (PSIA) | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 |
| | | | | | | | | | | LOW PRES R/V | | | HI PRES R/V | | MEDIUM DUTY AND HEAVY DUTY | | | | | HEAVY DUTY ONLY | | |
| | | | | | 1½" | 2" | 2½" | 3" | 4" | 50 | 75 | 100 | 150 | 200 | | | | | | | | |
| 30 | 870 | STD | 28 | 2.5 | .01 | .01 | .01 | .01 | .01 | 55 | 81 | 112 | | | 27 | 27 | 26 | 25 | | | | |
| | | | 32 | | .02 | .01 | .01 | .01 | .01 | | | | | | .63 | 1.2 | 1.7 | 2.4 | | | | |
| | | | 38 | 2.5 | .03 | .01 | .01 | .01 | .01 | 55 | 81 | 112 | 158 | | 28 | 28 | 27 | 27 | 26 | | | |
| | | | 50 | | .04 | .01 | .01 | .01 | .01 | | | | | | .69 | 1.3 | 2.0 | 2.6 | 3.6 | | | |
| | | | 70 | 2.5 | .04 | .01 | .01 | .01 | .01 | 55 | 82 | 112 | 158 | 210 | 29 | 29 | 28 | 28 | 27 | 27 | | |
| | | | 100 | | .05 | .02 | .01 | .01 | .01 | | | | | | .75 | 1.4 | 2.2 | 2.7 | 3.7 | 4.8 | | |
| | | | 150 | 2.5 | .05 | .02 | .01 | .01 | .01 | 55 | 82 | 112 | 158 | 210 | 30 | 30 | 29 | 29 | 28 | 28 | 28 | 26 |
| | | | 200 | | .05 | .02 | .01 | .01 | .01 | | | | | | .84 | 1.5 | 2.4 | 2.8 | 3.8 | 4.9 | 6.8 | 8.8 |
| | | | 300 | 2.5 | .08 | .03 | .02 | .01 | .01 | 56 | 83 | 112 | 158 | 210 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 28 |
| | | | 500 | | .13 | .05 | .03 | .01 | .01 | | | | | | 1.2 | 1.8 | 2.5 | 3.0 | 3.9 | 5.0 | 6.9 | 8.8 |
| | | | 750 | 2.5 | .20 | .07 | .04 | .02 | .01 | 56 | 83 | 112 | 158 | 210 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 29 |
| | | | 1,000 | | .26 | .10 | .05 | .02 | .01 | | | | | | 1.7 | 2.1 | 2.5 | 3.0 | 4.0 | 5.0 | 6.9 | 8.9 |
| | | | 2,000 | 2.6 | .53 | .19 | .10 | .04 | .01 | 58 | 85 | 114 | 158 | 210 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 30 |
| | | "C" | 3,500 | | .92 | .34 | .17 | .07 | .02 | | | | | | 2.5 | 2.9 | 3.4 | 4.0 | 4.9 | 6.0 | 8.0 | 9.8 |
| | | | 5,000 | 2.7 | 1.31 | .48 | .24 | .10 | .04 | 60 | 87 | 116 | 159 | 211 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 30 |
| | | | 7,500 | | 1.97 | .73 | .36 | .15 | .05 | | | | | | 3.2 | 4.0 | 4.7 | 5.1 | 6.0 | 7.0 | 9.1 | 11 |
| | | | 10,000 | 2.8 | 2.63 | .97 | .48 | .20 | .07 | 62 | 89 | 119 | 160 | 212 | 31 | 31 | 30 | 30 | 30 | 30 | 30 | 30 |
| | | | 15,000 | | 3.93 | 1.45 | .71 | .30 | .10 | | | | | | 4.0 | 4.8 | 5.6 | 6.0 | 6.8 | 7.9 | 10 | 12 |
| | | | 20,000 | 2.9 | 5.25 | 1.93 | .95 | .40 | .14 | 65 | 92 | 122 | 160 | 212 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 29 |
| | | "D" | 25,000 | | 6.56 | 2.42 | 1.19 | .50 | .17 | | | | | | 5.0 | 5.4 | 5.9 | 6.3 | 7.4 | 8.5 | 11 | 13 |
| | | | 50,000 | 4.1 | 13.1 | 4.83 | 2.37 | 1.00 | .34 | 68 | 95 | 125 | 163 | 215 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 29 |
| | | | 75,000 | | 19.7 | 7.25 | 3.56 | 1.49 | .50 | | | | | | 7.6 | 8.2 | 8.5 | 9.2 | 11 | 11 | 13 | 16 |
| | | | 100,000 | 5.6 | 26.3 | 9.66 | 4.75 | 1.99 | .67 | 72 | 99 | 129 | 167 | 219 | 31 | 30 | 30.5 | 30 | 30 | 30 | 30 | 29 |
| | | | 150,000 | | – | – | – | – | – | | | | | | 9.4 | 10 | 11 | 12 | 14 | 14 | 15 | 18 |
| | | | 200,000 | | | | | | | | | | | | | | | | | | | |
| | | | 250,000 | | | | | | | | | | | | | | | | | | | |

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

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GORMAN-RUPP
ROTARY GEAR PUMPS

# JG

## PUMP HYDRAULIC SIZE CHART

20 GPM
580 RPM

| NOMINAL | | ROTOR TRIM | VISCOSITY | N.I.P.R. | FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe) | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | |
| CAP. GPM | SPEED RPM | | (SSU) | (PSIA) | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 |
| | | | | | | | | | | LOW PRES R/V | | | HI PRES R/V | | MEDIUM DUTY AND HEAVY DUTY | | | | | HEAVY DUTY ONLY | | |
| | | | | | 1½" | 2" | 2½" | 3" | 4" | 50 | 75 | 100 | 150 | 200 | | | | | | | | |
| 20 | 580 | STD | 28 | 1.5 | .01 | .01 | .01 | .01 | .01 | 54 | 80 | 110 | | | 18 | 17 | 16 | 16 | | | | |
| | | | 32 | | .01 | .01 | .01 | .01 | .01 | | | | | | .41 | .82 | 1.2 | 1.6 | | | | |
| | | | 38 | 1.5 | .02 | .01 | .01 | .01 | .01 | 54 | 80 | 110 | 157 | | 18 | 18 | 17 | 17 | 16 | | | |
| | | | 50 | | .02 | .01 | .01 | .01 | .01 | | | | | | .44 | .89 | 1.2 | 1.7 | 2.4 | | | |
| | | | 70 | 1.5 | .02 | .01 | .01 | .01 | .01 | 54 | 80 | 110 | 157 | 208 | 19 | 18 | 18 | 18 | 17 | 17 | | |
| | | | 100 | | .02 | .01 | .01 | .01 | .01 | | | | | | .50 | .98 | 1.3 | 1.7 | 2.5 | 3.1 | | |
| | | | 150 | 1.5 | .03 | .01 | .01 | .01 | .01 | 55 | 81 | 110 | 157 | 208 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 17 |
| | | | 200 | | .04 | .01 | .01 | .01 | .01 | | | | | | .58 | 1.1 | 1.4 | 1.8 | 2.5 | 3.2 | 4.4 | 5.9 |
| | | | 300 | 1.5 | .05 | .02 | .01 | .01 | .01 | 55 | 81 | 110 | 157 | 208 | 20 | 20 | 19 | 19 | 19 | 19 | 18 | 18 |
| | | | 500 | | .09 | .03 | .02 | .01 | .01 | | | | | | .65 | 1.2 | 1.6 | 1.9 | 2.5 | 3.2 | 4.5 | 5.9 |
| | | | 750 | 1.5 | .13 | .05 | .03 | .01 | .01 | 55 | 81 | 110 | 157 | 208 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 |
| | | | 1,000 | | .18 | .07 | .03 | .01 | .01 | | | | | | .83 | 1.4 | 1.7 | 2.1 | 2.7 | 3.3 | 4.6 | 6.0 |
| | | | 2,000 | 1.7 | .35 | .13 | .06 | .02 | .01 | 56 | 82 | 111 | 158 | 209 | 20 | 20 | 20 | 20 | 20 | 20 | 19 | 19 |
| | | "C" | 3,500 | | .61 | .23 | .11 | .05 | .02 | | | | | | 1.5 | 1.9 | 2.3 | 2.7 | 3.4 | 4.1 | 5.4 | 6.8 |
| | | | 5,000 | 1.8 | .88 | .32 | .16 | .07 | .02 | 57 | 83 | 112 | 159 | 210 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 19 |
| | | | 7,500 | | 1.31 | .48 | .24 | .10 | .04 | | | | | | 1.9 | 2.3 | 2.7 | 3.1 | 3.8 | 4.5 | 5.9 | 7.2 |
| | | | 10,000 | 2.0 | 1.75 | .65 | .32 | .13 | .05 | 58 | 85 | 113 | 160 | 211 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | | 15,000 | | 2.63 | .97 | .48 | .20 | .07 | | | | | | 2.4 | 2.8 | 3.2 | 3.6 | 4.3 | 5.0 | 6.4 | 6.7 |
| | | | 20,000 | 2.1 | 3.50 | 1.29 | .63 | .27 | .09 | 60 | 87 | 114 | 160 | 211 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | "D" | 25,000 | | 4.38 | 1.61 | .79 | .33 | .11 | | | | | | 2.8 | 3.1 | 3.5 | 3.9 | 4.6 | 5.3 | 6.8 | 8.2 |
| | | | 50,000 | 3.3 | 8.75 | 3.22 | 1.58 | .67 | .23 | 62 | 89 | 116 | 162 | 213 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | | 75,000 | | 13.1 | 4.83 | 2.37 | 1.00 | .34 | | | | | | 4.2 | 4.7 | 5.1 | 5.6 | 6.7 | 7.2 | 8.5 | 10 |
| | | | 100,000 | 4.7 | 17.5 | 6.44 | 3.17 | 1.33 | .45 | 65 | 92 | 119 | 165 | 216 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | | 150,000 | | 26.3 | 9.66 | 4.75 | 1.99 | .67 | | | | | | 5.3 | 5.9 | 6.4 | 7.0 | 8.3 | 8.6 | 9.9 | 12 |
| | | | 200,000 | 8.6 | 35.0 | 12.9 | 6.33 | 2.65 | .90 | 68 | 95 | 122 | 168 | 219 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | | 250,000 | | – | – | – | – | – | | | | | | 6.3 | 7.0 | 7.4 | 8.2 | 9.8 | 9.9 | 11 | 13 |

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

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GORMAN-RUPP
ROTARY GEAR PUMPS

# JG

## PUMP HYDRAULIC SIZE CHART

12 GPM
350 RPM

| NOMINAL | | ROTOR TRIM | VISCOSITY | N.I.P.R. | FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe) | | | | | FULL BYPASS RELIEF VALVE PRESSURE (PSI) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | |
| CAP. GPM | SPEED RPM | | (SSU) | (PSIA) | PIPE DIAMETER | | | | | CRACKING PRESS. (PSI) | | | | | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 |
| | | | | | | | | | | LOW PRES R/V | | | HI PRES R/V | | MEDIUM DUTY AND HEAVY DUTY | | | | | HEAVY DUTY ONLY | | |
| | | | | | 1½" | 2" | 2½" | 3" | 4" | 50 | 75 | 100 | 150 | 200 | | | | | | | | |
| 12 | 350 | STD | 28 | 1.1 | .01 | .01 | .01 | .01 | .01 | 53 | 79 | 105 | | | 11 | 10 | 10 | 9.5 | | | | |
| | | | 32 | | .01 | .01 | .01 | .01 | .01 | | | | | | .26 | .52 | .73 | .98 | | | | |
| | | | 38 | 1.1 | .01 | .01 | .01 | .01 | .01 | 53 | 79 | 105 | 154 | | 11 | 10 | 10 | 10 | 9.5 | | | |
| | | | 50 | | .01 | .01 | .01 | .01 | .01 | | | | | | .29 | .55 | .78 | .99 | 1.5 | | | |
| | | | 70 | 1.1 | .01 | .01 | .01 | .01 | .01 | 53 | 79 | 105 | 154 | 204 | 11 | 11 | 11 | 11 | 10 | 10 | | |
| | | | 100 | | .01 | .01 | .01 | .01 | .01 | | | | | | .32 | .58 | .80 | 1.0 | 1.5 | 1.9 | | |
| | | | 150 | 1.1 | .02 | .01 | .01 | .01 | .01 | 54 | 80 | 106 | 155 | 205 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 10 |
| | | | 200 | | .02 | .01 | .01 | .01 | .01 | | | | | | .37 | .62 | .84 | 1.1 | 1.6 | 1.9 | 2.7 | 3.5 |
| | | | 300 | 1.1 | .03 | .01 | .01 | .01 | .01 | 54 | 80 | 106 | 155 | 205 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 |
| | | | 500 | | .05 | .02 | .01 | .01 | .01 | | | | | | .43 | .69 | .93 | 1.1 | 1.6 | 2.0 | 2.8 | 3.6 |
| | | | 750 | 1.1 | .08 | .03 | .02 | .01 | .01 | 54 | 80 | 106 | 155 | 205 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 |
| | | | 1,000 | | .11 | .04 | .02 | .01 | .01 | | | | | | .59 | .80 | 1.0 | 1.2 | 1.7 | 2.1 | 2.9 | 3.7 |
| | | | 2,000 | 1.3 | .21 | .08 | .04 | .02 | .01 | 54 | 80 | 106 | 155 | 205 | 12. | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| | | "C" | 3,500 | | .37 | .14 | .07 | .03 | .01 | | | | | | .82 | 1.1 | 1.3 | 1.6 | 2.0 | 2.4 | 3.2 | 4.0 |
| | | | 5,000 | 1.5 | .53 | .19 | .10 | .04 | .01 | 55 | 80 | 106 | 155 | 205 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| | | | 7,500 | | .79 | .29 | .14 | .06 | .02 | | | | | | .96 | 1.2 | 1.4 | 1.7 | 2.2 | 2.6 | 3.4 | 4.3 |
| | | | 10,000 | 1.7 | 1.05 | .39 | .19 | .08 | .03 | 56 | 81 | 107 | 156 | 206 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | | | 15,000 | | 1.58 | .58 | .29 | .12 | .04 | | | | | | 1.1 | 1.4 | 1.6 | 1.9 | 2.4 | 2.8 | 3.7 | 4.6 |
| | | | 20,000 | 1.8 | 2.10 | .77 | .38 | .16 | .06 | 56 | 82 | 108 | 156 | 206 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | | "D" | 25,000 | | 2.63 | .97 | .48 | .20 | .08 | | | | | | 1.3 | 1.5 | 1.8 | 2.5 | 2.9 | 3.0 | 3.9 | 4.7 |
| | | | 50,000 | 3.0 | 5.25 | 1.93 | .95 | .40 | .14 | 58 | 84 | 110 | 158 | 208 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| | | | 75,000 | | 7.88 | 2.90 | 1.43 | .60 | .20 | | | | | | 2.0 | 2.3 | 2.6 | 2.9 | 3.4 | 4.0 | 4.8 | 5.9 |
| | | | 100,000 | 4.5 | 10.5 | 3.87 | 1.90 | .80 | .27 | 60 | 86 | 112 | 160 | 210 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| | | | 150,000 | | 15.8 | 5.80 | 2.85 | 1.20 | .40 | | | | | | 2.5 | 2.9 | 3.2 | 3.7 | 4.0 | 4.8 | 5.6 | 6.7 |
| | | | 200,000 | 7.0 | 21.0 | 7.73 | 3.80 | 1.59 | .54 | 62 | 88 | 114 | 162 | 212 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 |
| | | | 250,000 | | 26.3 | 9.66 | 4.75 | 1.99 | .67 | | | | | | 3.0 | 3.5 | 3.8 | 4.3 | 4.6 | 5.5 | 6.3 | 7.4 |

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

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# JG

**5 GPM**
**150 RPM**

| NOMINAL | | VISCOSITY | | N.I.P.R | FRICTION PIPE LOSS (PSI/FT) (Schedule 40 Steel Pipe) | | | | | CAPACITY (GPM) / H.P. REQUIRED | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PIPE DIAMETER | | | | | MEDIUM-DUTY & HEAVY-DUTY | | | | HEAVY-DUTY ONLY | | | |
| | | | | | | | | | | DIFFERENTIAL PRESSURE (PSI) | | | | | | | |
| GPM | RPM | ROTOR TRIM | (SSU) | (PSIa) | 2" | 2½" | 3" | 4" | 5" | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 |
| 5 | 150 | STD | | | | | | | | | | | | | | | |
| | | "D" | 200,000 | 2.9 | 3.2 | 1.6 | 0.66 | 0.2 | 0.1 | 5.4 | 5.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 |
| | | | 399,999 | | 6.45 | 3.2 | 1.3 | 0.45 | 0.2 | 1.4 | 1.5 | 1.6 | 1.7 | 2.0 | 2.2 | 2.4 | 2.7 |
| | | | 400,000 | 3.3 | | | | | | 5.4 | 5.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 |
| | | | 599,999 | | 9.7 | 4.8 | 2 | 0.7 | 0.3 | 1.5 | 1.6 | 1.7 | 1.8 | 2.1 | 2.3 | 2.6 | 2.9 |
| | | | 600,000 | 4 | | | | | | 5.4 | 5.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 |
| | | | 799,999 | | 12.9 | 6.3 | 2.7 | 0.9 | 0.36 | 1.7 | 1.8 | 1.9 | 2.0 | 2.3 | 2.5 | 2.8 | 3.1 |
| | | | 800,000 | 4.4 | | | | | | 5.4 | 5.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 |
| | | | 1M | | 16.1 | 7.9 | 3.3 | 1.1 | 0.45 | 1.9 | 2.0 | 2.1 | 2.2 | 2.5 | 2.7 | 3.0 | 3.3 |

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

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