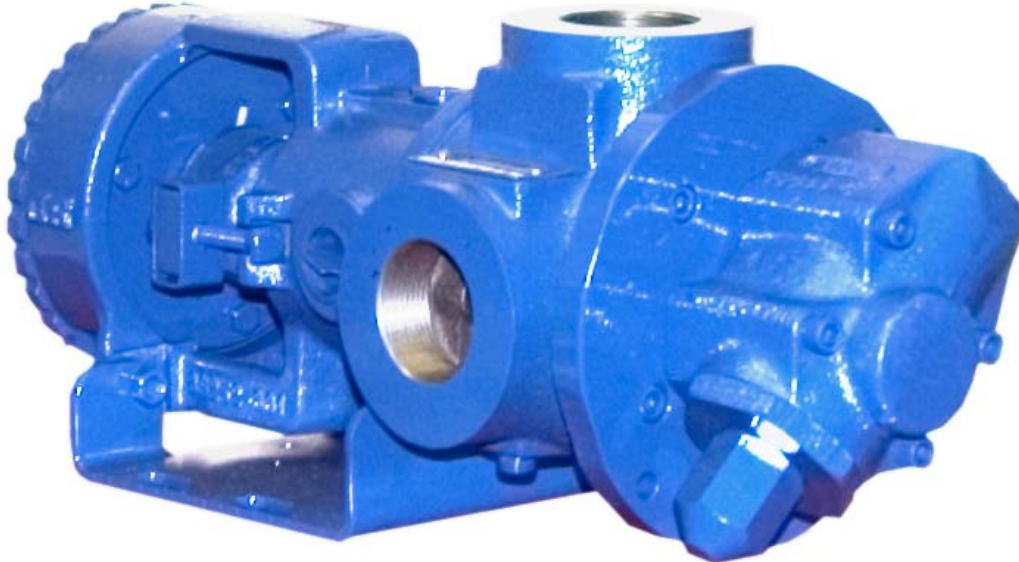




**GHS SERIES  
 FLEXIBLE SEAL  
 HEAVY DUTY STANDARD  
 STAINLESS STEEL ROTARY  
 GEAR PUMP**

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 <sup>W</sup>/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

EXTERIOR	BACKHD	ROTOR & IDLER	HOUSING PORTS	BUSHING	IDLER PIN	SHAFT	SHAFT SEALING		ROTA-TION	INTERNAL RELIEF VALVE	
							MECH. SEAL	PACKING		MATERIAL	SETTING
316 STAIN. STEEL	CAST IRON	316 STAIN. STEEL	GHC 180° FLG. 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]

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

## Standard Models

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

**THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO**

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

# Standard Models (Continued)

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

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**

**THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO**  
 GORMAN-RUPP OF CANADA LIMITED • ST. THOMAS, ONTARIO, CANADA

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

▸ 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 HIGH TEMPERATURE	25U, 25V, OR 25W 35J – 35M (AS REQ'D) 40R, 70K 61H OR 65Q	TEMPERATURE: 675 °F MAX. PRESSURE: 200 PSI MAX.
GHS ONLY 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.



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] †	4.00 [102]	3.50* [89]	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]	.50 [13]	.62 [16]	5.19 [132]	3.58 [91]
		4.00* [102] †		5.25 [133]										.75 [19]				
GHC G	1-1/2"	3.50 [89] †	5.88 [149]	3.50* [89]	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]	.75 [19]	.62 [16]	6.00 [152]	3.62 [92]
		4.00* [102] †		4.50 [114]										5.25 [133]				
GHC J	3"	4.50 [114] †	6.88 [175]	4.50 [114]	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]	1.00 [25]	1.12 [28]	9.06 [230]	6.75 [171]
		6.00* [152] †		5.25* [133]										6.25 [159]				

\* 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



CAD FILE NO.: 16669G

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]	4.00 [102]	3.50* [89]	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] x .75 [19]	.50 [13]	
		4.00 † [102]		5.25 [133]												
GHS G	1-1/2"  2"	3.50* [89]	4.88 [124]	3.50* [89]	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] x 1.25 [32]	.75 [19]	
		4.00 † [102]		5.25 [133]												6.25 [159]
GHS J	2"  3"	4.50* [114]	6.88 [175]	5.25* [133]	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] x 2.00 [51]	1.00 [25]	
		6.00 † [152]		6.25 [159]												7.00 [178]
GHS N	2"  3"	5.12 [130]	8.00 [203]	4.50 [114]	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] x 2.00 [51]	1.12 [28]	
				5.25* [133]												6.25 [159]
GHS R	2"	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] x 1.88 [48]	1.44 [37]	
	2-1/2"															6.50 [165]
	3"															7.19 † [183]
	4"															7.19 † [183]

\* STANDARD DIMENSION

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

† 180° HOUSING

# **GHC/GHS**

**FOR GHC DRIVE OPTIONS**

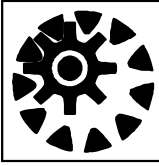
**AND DIMENSIONS**

**SEE SECTION 540**

**FOR GHS DRIVE OPTIONS**

**AND DIMENSIONS**

**SEE SECTION 545**



# PERFORMANCE CURVES

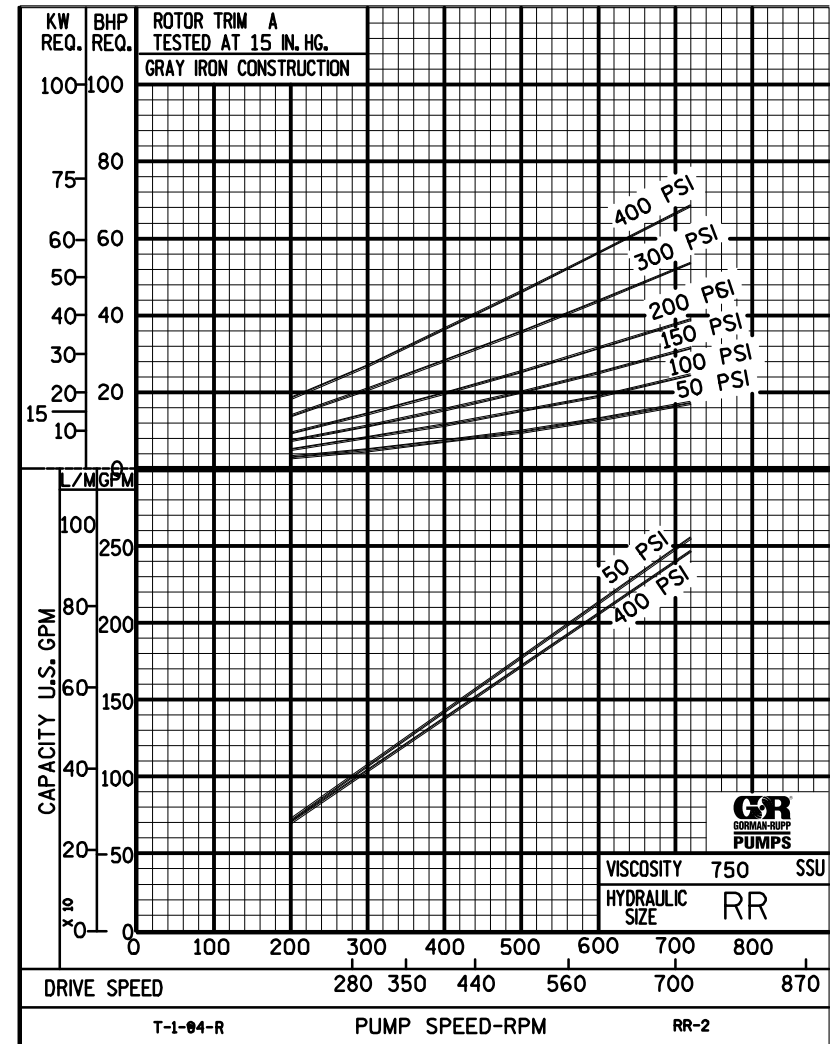
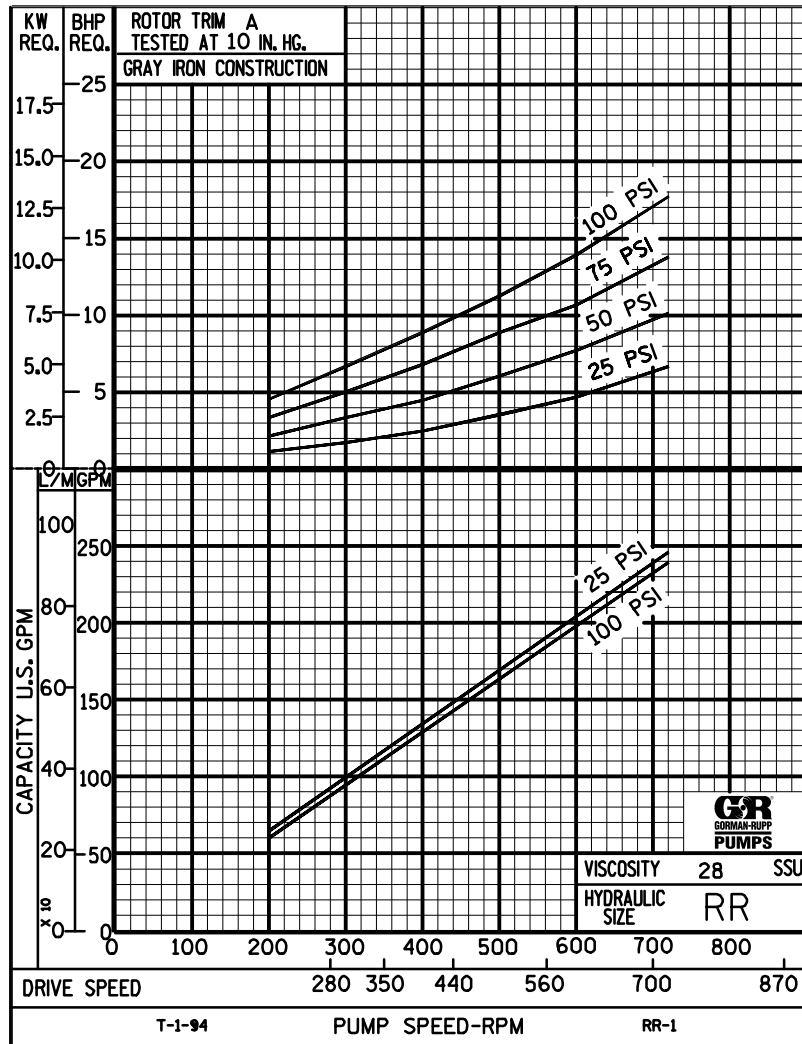
## SPEED VS. CAPACITY/HORSEPOWER

SEC. 500

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RR Hydraulic Size

January 2010



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# PERFORMANCE CURVES

## SPEED VS. CAPACITY/HORSEPOWER

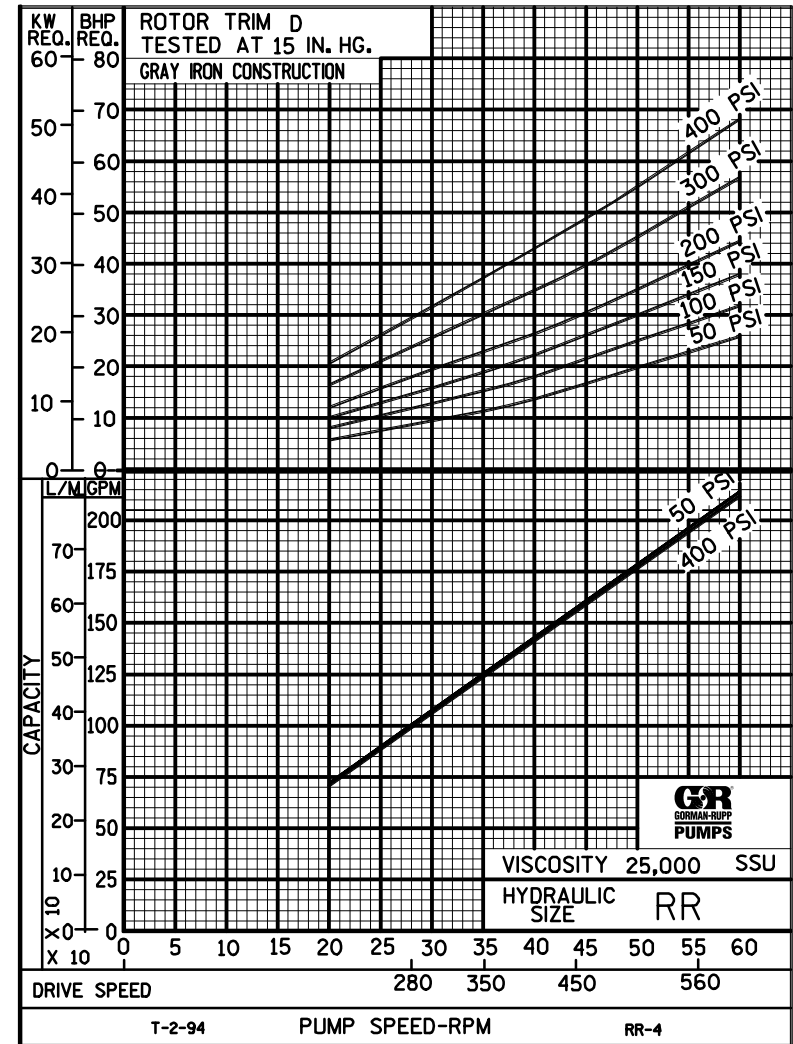
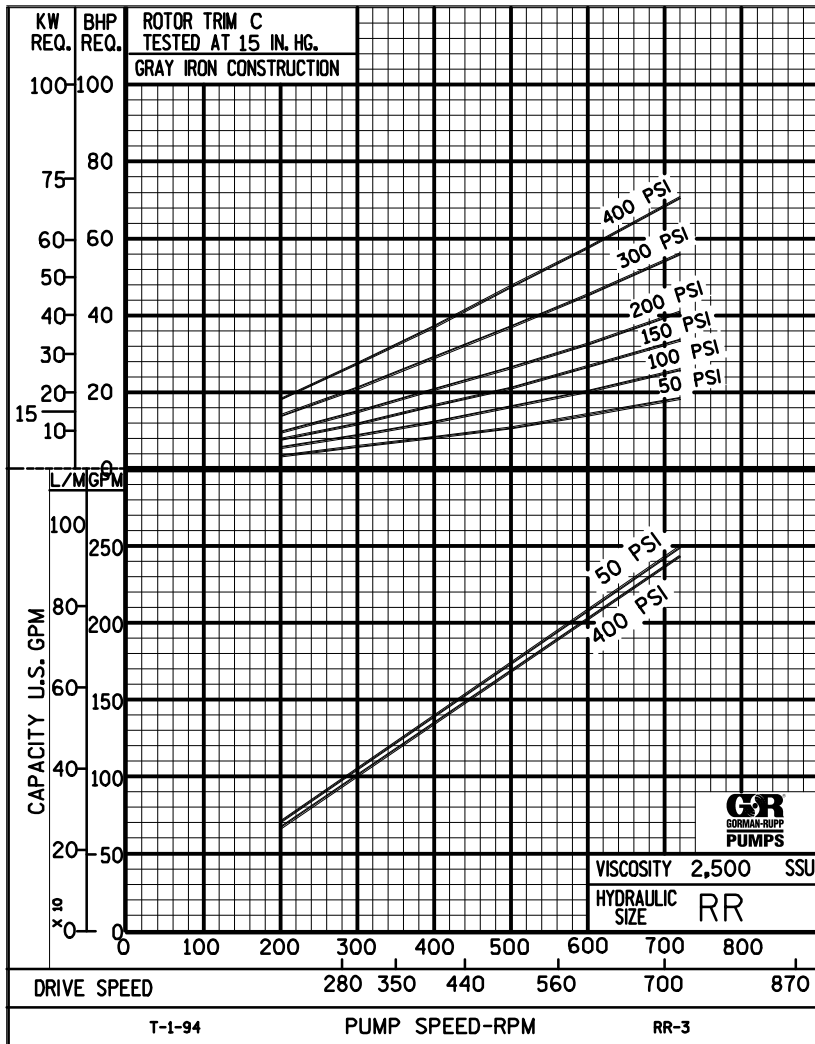
# RR

Hydraulic Size

SEC. 500

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# RR

## PUMP HYDRAULIC SIZE CHART

SEC. 500

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228 GPM  
640 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)									
					2"	2 1/2"	3"	4"	6"	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					
228	640	STD	28	3.7	.37	.15	.05	.01	-	64	88	125	187		218	216	214	212						
			32		.39	.16	.05	.01	-						5.9	8.6	12	15						
			38	3.7	.41	.17	.06	.02	-	67	91	128	190		220	216	216	214	212					
			50		.45	.19	.06	.02	-						6.9	10	13	17	23					
			70	3.7	.49	.21	.07	.02	-	72	96	132	194	254	222	220	218	218	216	212				
			100		.54	.23	.08	.02	-						8.8	11	15	19	24	31				
			150	3.7	.60	.26	.09	.02	-	77	101	137	199	261	224	224	222	222	220	216	212	206		
			200		.64	.28	.10	.03	-						10	13	16	20	25	33	45	58		
			300	3.7	.72	.31	.11	.03	-	83	107	143	204	271	226	226	224	224	222	220	218	214		
			500		.83	.36	.13	.03	-						11	14	17	21	27	34	47	60		
		750	3.8	.95	.27	.11	.04	.01	87	112	147	209	279	228	228	226	226	224	224	222	220			
		1,000		.74	.36	.15	.05	.01						12	15	18	21	28	35	48	61			
		2,000	4.3	1.48	.73	.31	.10	.02	95	121	155	216	293	224	222	222	222	220	220	218	216			
		3,500		2.59	1.27	.53	.18	.04						14	17	21	23	30	36	50	63			
		5,000	4.7	3.71	1.82	.76	.26	.05	101	126	160	221	301	224	224	224	224	222	220	220	216			
		7,500		5.56	2.73	1.15	.39	.08						15	19	24	26	33	36	51	65			
		10,000	5.3	7.41	3.64	1.53	.52	.10	105	131	165	225	309	224	222	222	222	222	220	220	218			
		15,000		11.1	5.46	2.29	.77	.15						17	21	26	29	35	41	55	68			
		20,000	6.2	14.8	7.28	3.05	1.03	.20	108	135	169	228	315	224	224	222	222	222	222	220	220			
		25,000		18.5	9.10	3.82	1.29	.25						19	23	28	32	37	43	57	71			
50,000																								
75,000																								
100,000																								
150,000																								
200,000																								
250,000																								

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



# RR

## PUMP HYDRAULIC SIZE CHART

SEC. 500

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**185 GPM  
520 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)							
					2"	2 1/2"	3"	4"	6"	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			
185	520	STD	28	2.6	.24	.10	.03	.01	-	59	85	122	179		177	173	172	171				
			32		.26	.10	.04	.01	-						3.9	6.5	9.4	12				
			38	2.6	.27	.11	.04	.01	-	62	88	124	182		178	174	174	173	169			
			50		.30	.13	.04	.01	-						4.9	7.3	11	14	18			
			70	2.6	.33	.14	.05	.01	-	66	91	127	186	247	181	178	177	176	173	170		
			100		.37	.16	.06	.02	-						6.1	8.6	12	15	20	24		
			150	2.6	.41	.17	.06	.02	-	70	96	131	190	252	183	181	180	179	177	175	171	166
			200		.44	.19	.07	.02	-						6.9	9.2	13	17	21	25	35	46
			300	2.6	.49	.21	.08	.02	-	76	101	135	195	259	185	183	182	182	180	178	177	173
			500		.58	.25	.06	.02	-						7.8	10	14	18	22	26	37	48
		750	2.7	.45	.22	.09	.03	.01	80	106	139	199	264	186	185	184	184	182	180	179	177	
		1,000		.60	.29	.12	.04	.01						7.9	11	14	18	22	27	38	49	
		2,000	3.5	1.19	.59	.25	.08	.02	87	113	145	206	274	182	181	181	181	180	179	177	175	
		3,500		2.09	1.03	.43	.15	.03						10	12	16	18	23	29	40	50	
		5,000	4.1	2.98	1.46	.61	.21	.04	92	118	149	210	280	183	183	182	182	182	180	179	177	
		7,500		4.47	2.20	.92	.31	.06						13	15	18	20	26	31	42	52	
		10,000	4.7	5.96	2.93	1.23	.41	.08	96	122	153	214	285	185	184	184	183	183	182	181	179	
		15,000		8.94	4.39	1.84	.62	.12						16	19	22	24	29	35	45	55	
		20,000	5.2	11.9	5.86	2.46	.83	.16	99	125	156	217	289	186	186	185	185	185	184	184	181	
		25,000		14.9	7.32	3.07	1.04	.20						19	21	24	26	32	37	48	58	
50,000	7.2	29.8	14.7	6.14	2.07	.40	106	132	161	223	297	186	186	185	185	185	184	184	181			
75,000		44.8	22.0	9.21	3.11	.60						26	29	31	34	39	45	56	66			
100,000																						
150,000																						
200,000																						
250,000																						

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

