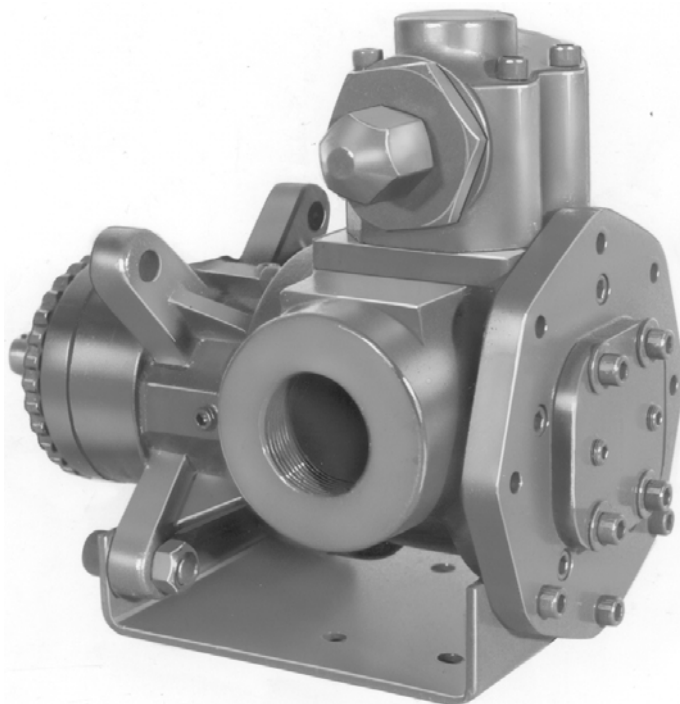


GHC SERIES HEAVY DUTY COMPACT STAINLESS STEEL ROTARY GEAR PUMP

SEC. 570

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January 2010

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/OPTIONAL THREADED PORTS

The GHC stainless series is designed for applications in the operating ranges noted on the model pages. These units are available with head jackets for temperature control, silicon carbide bushings for wear resistance, and numerous shaft seal options described on the following pages. These units may be foot mounted or, by using a motor adaptor, direct connected to NEMA “C” flange motors.

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

OPERATING RANGE

CAPACITY (GPM): (3 TO 107)
[LPM] : [11 TO 405]
PRESSURE (PSI) : [0 TO 200]
[BAR] : [0 TO 14]
VISCOSITY (SSU) : (28 TO 25,000)
[cSt] : [1 TO 5417]
TEMPERATURE (F) : (-30° TO 350°)
[C] : [-34° TO 177°]

APPLICATIONS

USE WITH ANY CLEAN LIQUID COMPATIBLE WITH 316 STAINLESS STEEL

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

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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]

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 1 DC9-B ① ●	GHS 1 DC9-B ① ● GHS 1 DC10-B ① ■	9 [28]	1750 [1460]	6 [19]	1150 [960]	75 [5]	100 [7]	200 [14]	GHC ● 350 [177] GHS ● 400 [204] ■ 500 [260]	32 [14,5]	2.9
GHC 1 DE9-B ① ●	GHS 1 DE9-B ① ● 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 ● GHS 1-1/2 GC10-B ■	16 [50]		10 [32]						63 [28,6]	2.9
	GHS 2 GC9-B ● GHS 2 GC10-B ■									63 [28,6]	2.9
GHC 1-1/2 GF9-B ●	GHS 1-1/2 GF9-B ● GHS 1-1/2 GF10-B ■	23 [73]		15 [47]						63 [28,6]	2.9
	GHS 2 GF9-B ● GHS 2 GF10-B ■									63 [28,6]	2.9
GHC 1-1/2 GH9-B ●	GHS 1-1/2 GH9-B ● GHS 1-1/2 GH10-B ■	31 [98]		20 [63]						63 [28,6]	2.9
	GHS 2 GH9-B ● GHS 2 GH10-B ■									63 [28,6]	2.9
GHC 1-1/2 GJ9-B ●	GHS 1-1/2 GJ9-B ● GHS 1-1/2 GJ10-B ■	38 [120]		25 [79]						63 [28,6]	2.9
	GHS 2 GJ9-B ● GHS 2 GJ10-B ■									63 [28,6]	2.9
	GHS 2 JG9-B ● 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 ● GHS 3 JG10-B ■		56 [177]							161 [73,2]	5.3
	GHS 2 JJ9-B ● GHS 2 JJ10-B ■			42 [133]						161 [73,2]	5.3
GHC 3 JJ9-B ●	GHS 3 JJ9-B ● 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)

GHC/GHS SST, SEC. 570: PAGE 14

January 2010

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											
	GHS 2 JL9-B ● GHS 2 JL10-B ■	77 [243]	1150 [960]	58 [133]	870 [725]	75 [5]	100 [7]	200 [14]		161 [73,2]	5.3	
GHC 3 JL9-B ●	GHS 3 JL9-B ● GHS 3 JL10-B ■									161 [73,2]	5.3	
	GHS 2 JP9-B ● GHS 2 JP10-B ■	107 [338]	81 [256]		161 [73,2]					5.3		
GHC 3 JP9-B ●	GHS 3 JP9-B ● GHS 3 JP10-B ■			161 [73,2]	5.3							
	GHS 2 NK9-B ● GHS 2 NK10-B ■	99 [375]	960 [960]	60 [189]	580 [480]				500 [260]	GHC ● 400 [204]	180 [81,8]	5.3
	GHS 2-1/2 NK9-B ● GHS 2-1/2 NK10-B ■										180 [81,8]	5.3
	GHS 3 NK9-B ● GHS 3 NK10-B ■									GHS ● 400 [204]	180 [81,8]	5.3
	GHS 2 NM9-B ● GHS 2 NM10-B ■	132 [500]		180 [81,8]	5.3							
	GHS 2-1/2 NM9-B ● GHS 2-1/2 NM10-B ■			180 [81,8]	5.3							
	GHS 3 NM9-B ● GHS 3 NM10-B ■			180 [81,8]	5.3							
	GHS 2-1/2 NP9-B ● GHS 2-1/2 NP10-B ■	165 [624]	99 [312]		180 [81,8]					5.3		
	GHS 3 NP9-B ● GHS 3 NP10-B ■				180 [81,8]					5.3		
	GHS 2 RM9-B ● GHS 2 RM10-B ■	172 [542]	115 [362]		357 [162]	10.7						
	GHS 2-1/2 RM9-B ● GHS 2-1/2 RM10-B ■				357 [162]	10.7						
	GHS 3 RM9-B ● GHS 3 RM10-B ■				357 [162]	10.7						
	GHS 4 RM9-B ● GHS 4 RM10-B ■				357 [162]	10.7						
	GHS 3 RP9-B ● GHS 3 RP10-B ■	215 [678]	720 [600]	143 [451]	480 [400]		357 [162]	10.7				
	GHS 4 RP9-B ● 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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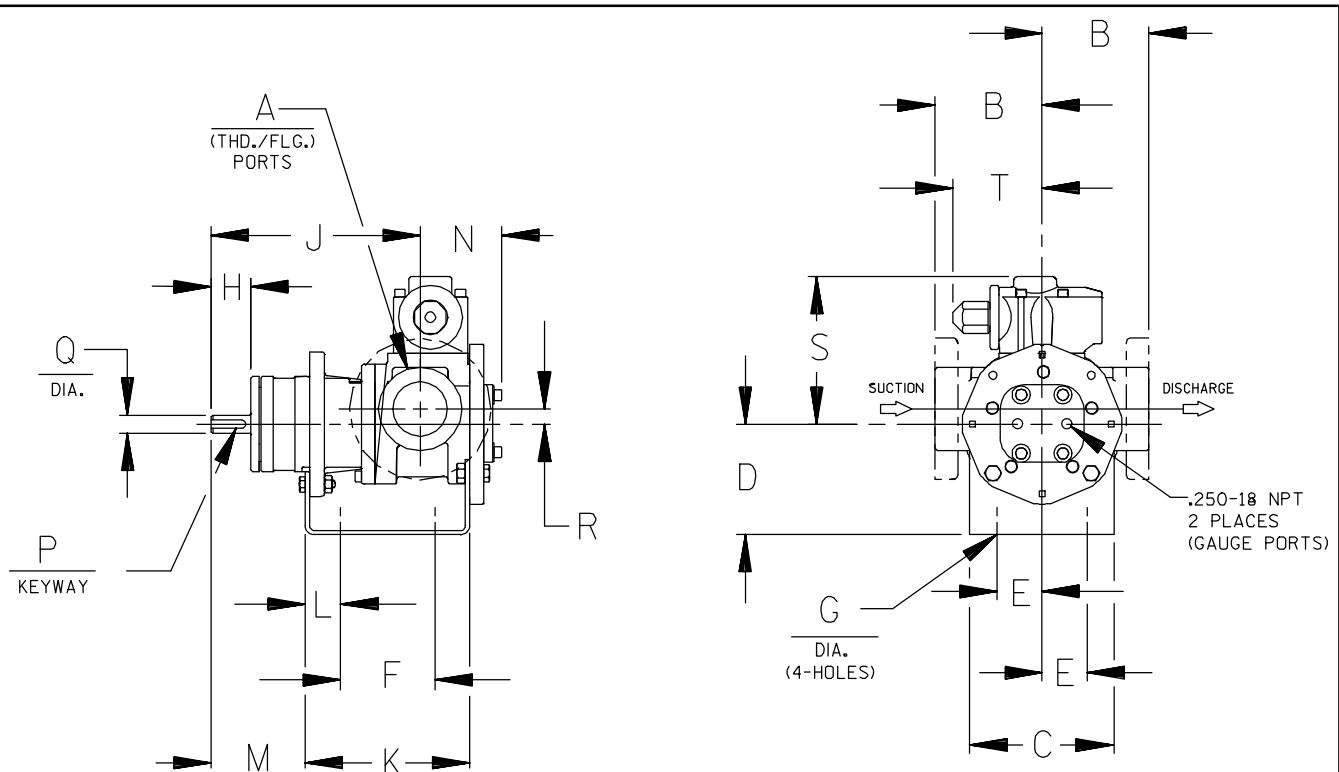
MODEL NUMBER		NOM. CAPACITY - SPEED				MAXIMUM				SHIPPING DATA	
		MAXIMUM		ALTERNATIVE		DIFF. PRESSURE - PSI [BAR]			TEMP.		
		GPM [LPM]	RPM 60 Hz [50 HZ]	GPM [LPM]	RPM 60 Hz [50 HZ]	BELOW 38 SSU [4 cSt]	38 TO 100 SSU [21 cSt]	100 TO 250,000 SSU [55,000 cSt]	°F [°C]	Wt. LBS [KG]	Vol. CU. FT.
GHC	GHS										
	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]	357 [162]	10.7
	GHS 4 RR9-B ● ▮ GHS 4 RR10-B ■ ▮								■ 500 [260]	357 [162]	10.7
	GHS 4 RS9-B ● ▮ 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 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] * 4.50 [114] 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] x .75 [19]	.50 [13]	.62 [16]	5.19 [132]	3.58 [91]
GHC G	1-1/2"	3.50 [89] †	5.88 [149]	3.50 [89] * 4.50 [114] 5.25 [133] 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] x 1.25 [32]	.75 [19]	.62 [16]	6.00 [152]	3.62 [92]
GHC J	3"	4.50 [114] †	6.88 [175]	4.50 [114] 5.25 [133] 6.25 [159] 7.00 [178] 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] x 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.

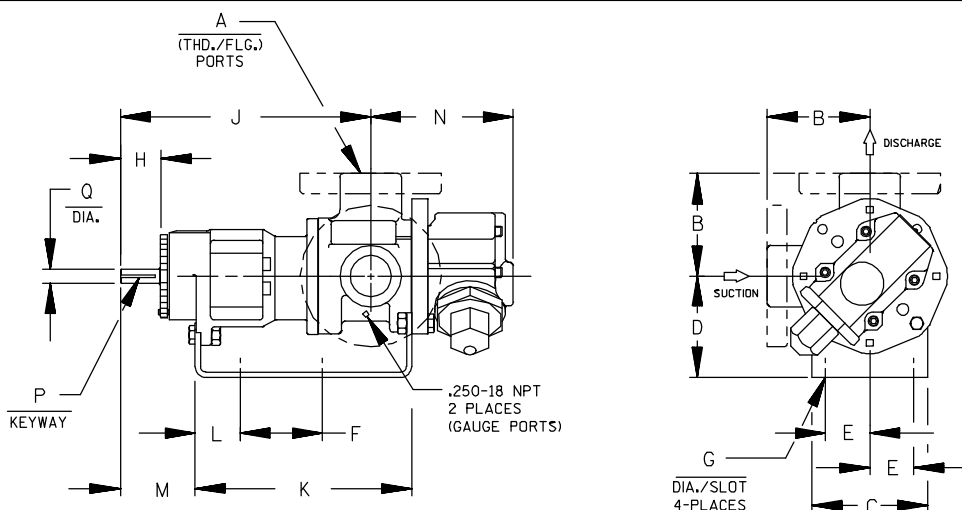
† 90° HOUSING

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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'	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]
	2"	4.00 [102] †		4.50 [114] 5.25 [133] 6.25 [159]											
GHS J	2"	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]
	3"	6.00 [152] †		6.25 [159] 7.00 [178] 8.00 [203]											
GHS N	2"	5.12 [130]	8.00 [203]	4.50 [114] 5.25 [133] *	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 [32]
	3"			7.00 [178] 8.00 [203]											
GHS R	2"	6.50 [165]	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'														
	3"	7.19 † [183]													
	4"														

* 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

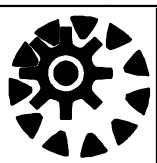
AND DIMENSIONS

SEE SECTION 540

FOR GHS DRIVE OPTIONS

AND DIMENSIONS

SEE SECTION 545



PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

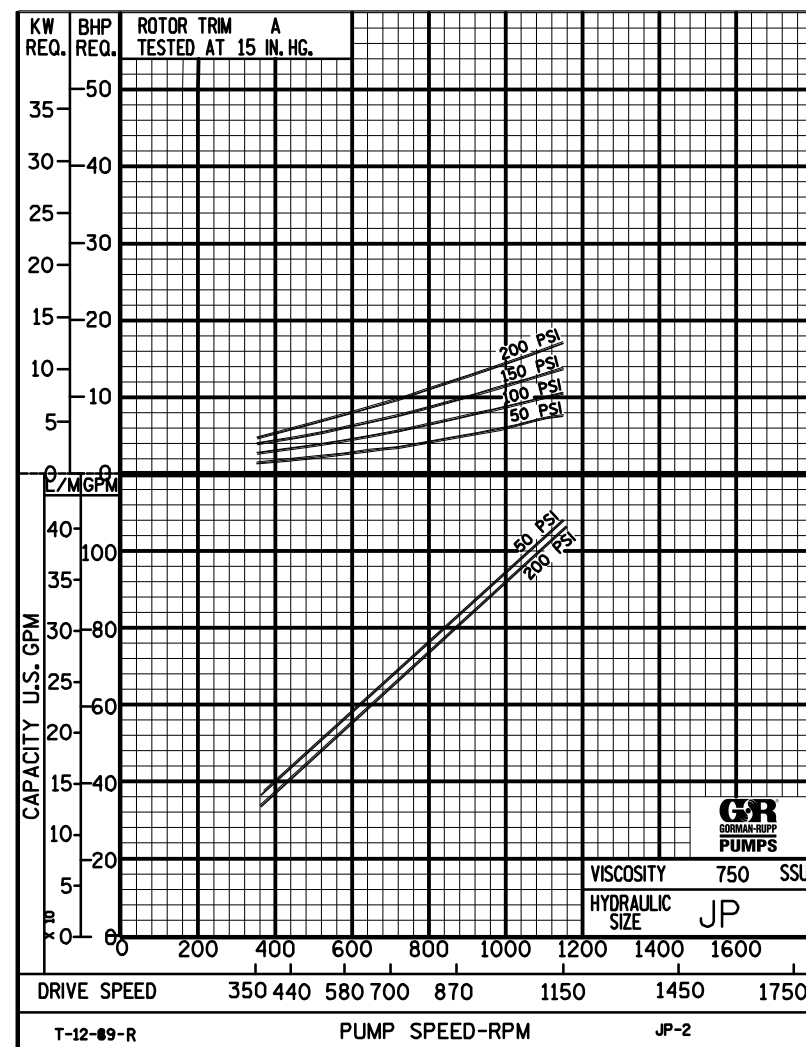
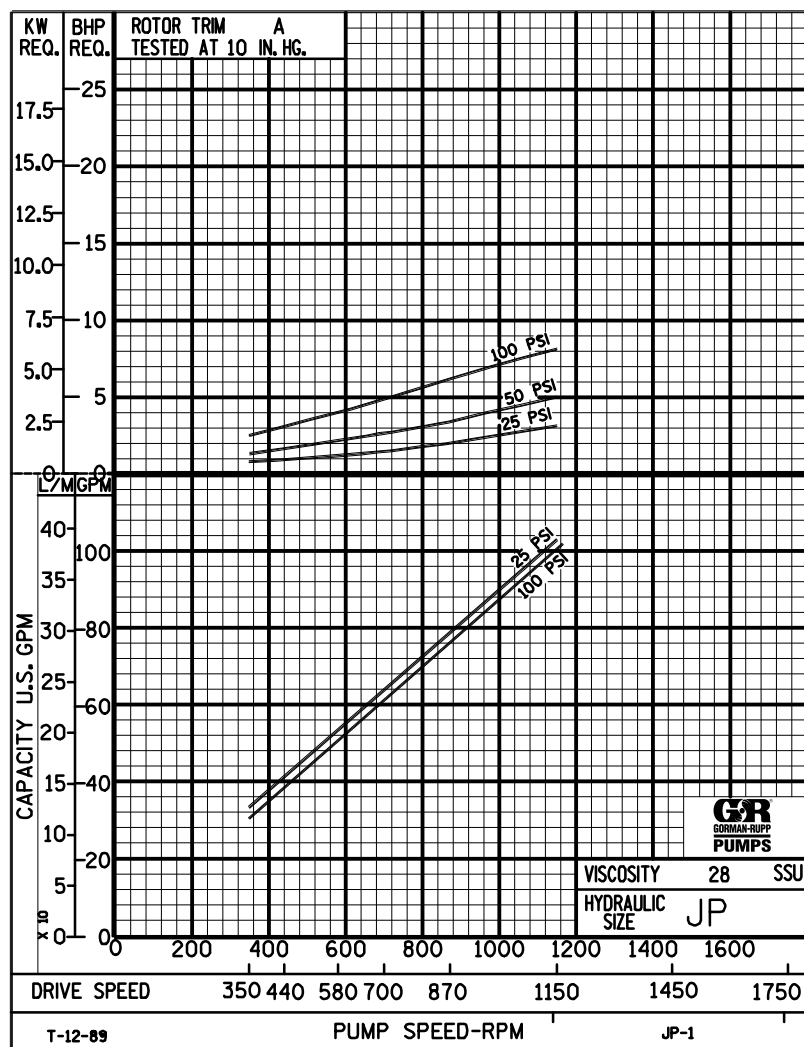
JP

Hydraulic
Size

SEC. 500

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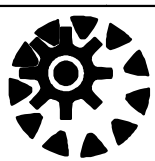
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PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

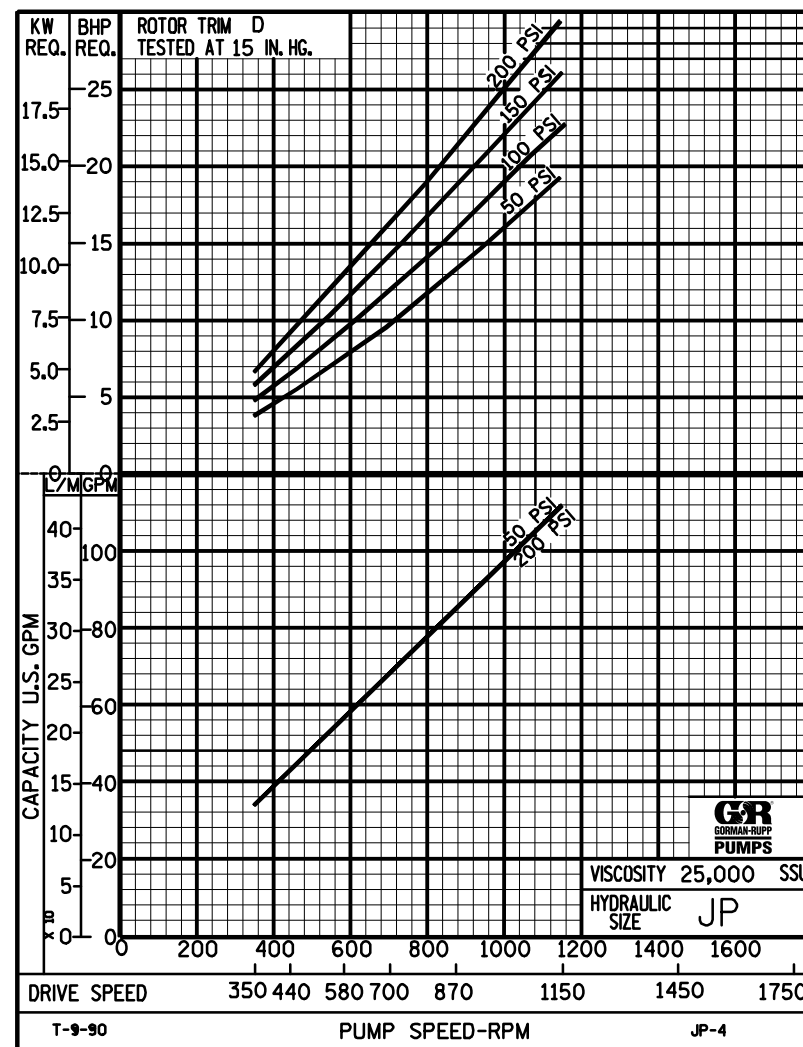
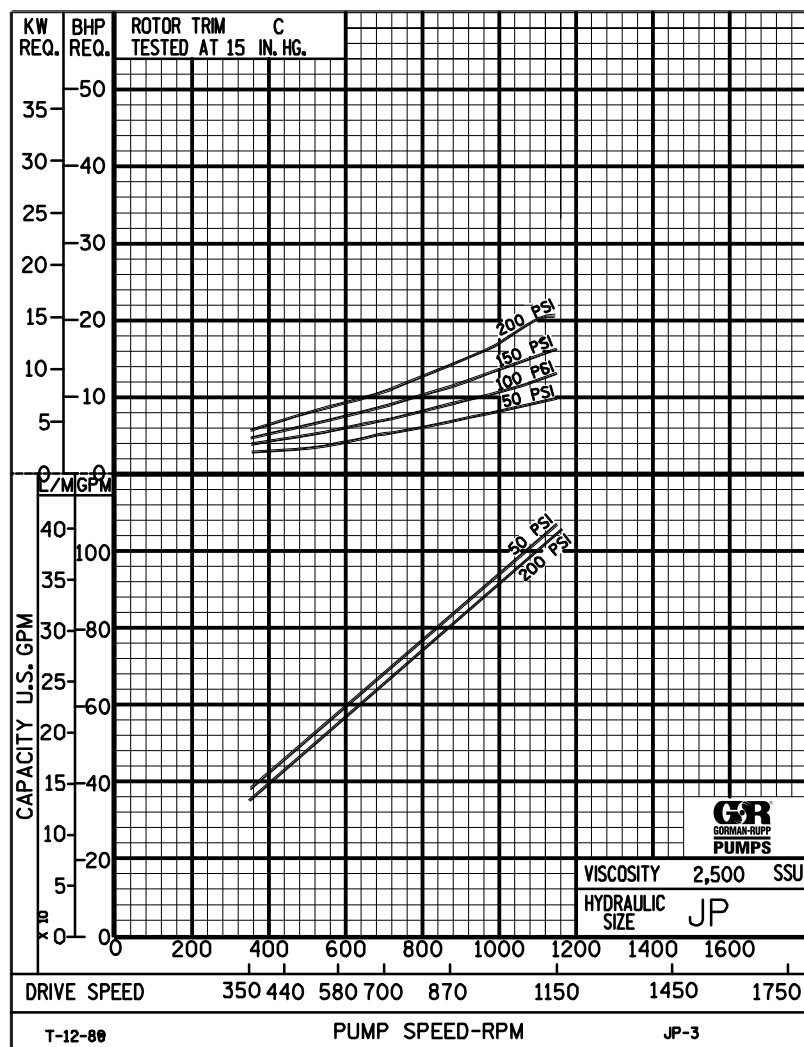
JP

Hydraulic
Size

SEC. 500

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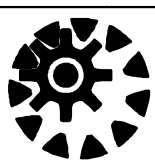
January 2010



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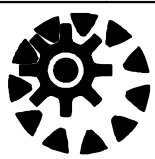
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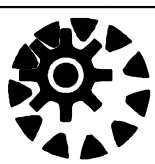
NOMINAL		ROTOR TRIM	VISCOSITY	N.I.P.R.	FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe)					FULL BYPASS RELIEF VALVE PRESSURE (PSI)					CAPACITY (GPM)				H.P. REQUIRED					
															DIFFERENTIAL PRESSURE (PSI)									
CAP. GPM	SPEED RPM		(SSU)	(PSIA)	PIPE DIAMETER					CRACKING PRESS. (PSI)					25	50	75	100	150	200	300	400		
										LOW PRES R/V			HI PRES R/V										HEAVY DUTY	
				1½"	2"	2½"	3"	4"	50	75	100	150	200											
107	1150	STD	28	4.8	.01	.01	.01	.01	.01	77	104	143			103	100	100	99						
			32		.23	.07	.03	.01	.01						3.2	5.0	6.3	8.1						
			38	4.8	.29	.09	.04	.02	.01	78	105	144	188		105	103	102	101	100					
			50		.34	.11	.05	.02	.01						3.5	5.5	6.8	8.6	12					
			70	4.8	.39	.12	.05	.02	.01	79	107	144	189	240	106	105	104	103	102	101				
			100		.44	.14	.06	.02	.01						3.8	6.0	7.4	9.1	13	16				
			150	4.8	.50	.15	.07	.03	.01	80	107	145	189	241	108	106	106	105	104	103				
			200		.54	.17	.07	.03	.01						4.1	6.5	8.0	9.6	13	16				
			300	4.8	.61	.19	.08	.03	.01	81	109	145	190	242	109	108	107	107	106	105				
			500		.64	.22	.09	.04	.01						4.4	7.1	8.5	10	14	17				
			750	4.8	.70	.26	.13	.06	.02	82	111	146	190	243	109	109	108	108	108	107				
			1,000		.94	.35	.17	.07	.03						4.7	7.6	9.1	11	14	17				
			2,000	5.7	1.87	.69	.34	.14	.05	86	118	153	196	252	109	109	109	108	108	108				
			3,500		3.28	1.21	.59	.25	.09						6.1	9.9	12	13	16	20				
		"C"	5,000	6.2	4.68	1.73	.85	.36	.12	90	123	156	200	256	110	110	109	109	109	109				
			7,500		7.02	2.59	1.27	.54	.18						9.9	13	15	16	20	23				
			10,000	6.8	9.36	3.45	1.70	.71	.24	96	129	160	204	260	110	110	110	109	109	109				
			15,000		14.1	5.17	2.54	1.07	.36						14	16	18	19	23	26				
			20,000	7.3	18.7	6.89	3.39	1.42	.48	102	135	164	208	264	111	110	110	110	109	109				
			25,000		23.4	8.62	4.23	1.78	.60						18	19	21	23	26	30				
		"D"	50,000																					
			75,000																					
			100,000																					
			150,000																					
			200,000																					
			250,000																					

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



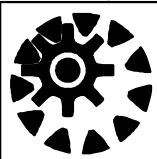
NOMINAL		ROTOR TRIM	VISCOSITY (SSU)	N.I.P.R. (PSIA)	FRICTION PIPE LOSS (PSI/FT) (Based on Sch 40 Steel Pipe)					FULL BYPASS RELIEF VALVE PRESSURE (PSI)					CAPACITY (GPM) / H.P. REQUIRED									
															DIFFERENTIAL PRESSURE (PSI)									
CAP. GPM	SPEED RPM				PIPE DIAMETER					CRACKING PRESS. (PSI)					25	50	75	100	150	200	300	400		
		1½"	2"	2½"	3"	4"	LOW PRES R/V	HI PRES R/V	MEDIUM DUTY AND HEAVY DUTY					HEAVY DUTY ONLY										
81	870	STD	28	3.0	.01	.01	.01	.01	.01	74	100	133			77	75	75	74						
			32		.14	.04	.02	.01	.01						2.2	3.4	4.7	6.0						
			38	3.0	.18	.06	.03	.01	.01	74	100	133	174		78	77	76	75	75					
			50		.21	.07	.03	.01	.01						2.3	3.7	5.0	6.2	7.5					
			70	3.0	.24	.08	.03	.01	.01	74	101	134	174	226	79	78	78	77	76	75				
			100		.27	.09	.04	.02	.01						2.5	4.0	5.2	6.5	8.0	10				
			150	3.0	.31	.10	.04	.02	.01	75	101	134	175	226	81	79	79	78	78	77				
			200		.34	.11	.05	.02	.01						2.6	4.3	5.5	6.8	8.6	11				
			300	3.0	.38	.12	.05	.02	.01	75	102	135	175	227	81	81	80	79	79	78				
			500		.44	.13	.07	.03	.01						2.8	4.5	5.8	7.0	9.2	12				
			750	3.0	.53	.20	.10	.04	.02	75	102	135	175	227	82	81	81	80	80.5	80				
			1,000		.71	.26	.13	.06	.02						3.0	4.8	6.0	7.3	9.7	12				
			2,000	3.7	1.42	.52	.26	.11	.04	76	104	137	177	229	82	82	81	81	81	81				
			3,500		2.48	.92	.45	.19	.07						4.2	6.8	7.9	9.0	12	14				
		“C”	5,000	4.2	3.55	1.31	.64	.27	.09	80	109	139	179	231	83	83	82	82	82	82				
			7,500		5.32	1.96	.96	.41	.14						6.8	9.0	10	11	14	16				
			10,000	4.6	7.09	2.61	1.28	.54	.18	84	114	143	183	235	84	84	83	83	83	82				
			15,000		10.7	3.92	1.92	.81	.27						9.3	11	12	14	16	19				
			20,000	5.0	14.2	5.22	2.57	1.08	.37	89	120	149	187	241	85	84	84	84	84	83				
			25,000		17.7	6.52	3.21	1.35	.46						12	13	14	16	18	21				
		“D”	50,000	7.6	35.5	13.1	6.41	2.69	.91	95	126	155	193	247	85	84	84	84	84	83				
			75,000		-	-	-	-	-						17	18	21	23	24	27				
			100,000																					
			150,000																					
			200,000																					
			250,000																					

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



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		
					1½"	2"	2½"	3"	4"	LOW PRES R/V			HI PRES R/V		MEDIUM DUTY AND HEAVY DUTY					HEAVY DUTY ONLY				
54	580	STD	28	1.9	.01	.01	.01	.01	.01	62	87	114			51	50	50	49						
			32		.07	.02	.01	.01	.01					1.5	2.3	3.1	4.0							
			38	1.9	.09	.03	.01	.01	.01	62	89	116	166		52	51	51	50	50					
			50		.10	.03	.02	.01	.01					1.6	2.5	3.3	4.2	5.0						
			70	1.9	.12	.04	.02	.01	.01	63	90	118	167	219	53	52	52	51	51	50				
			100		.14	.04	.02	.01	.01					1.7	2.7	3.5	4.4	5.4	6.9					
			150	1.9	.16	.05	.02	.01	.01	64	91	120	167	219	54	53	53	52	52	51				
			200		.17	.05	.02	.01	.01					1.8	2.9	3.7	4.5	5.8	7.3					
			300	1.9	.19	.06	.03	.01	.01	65	92	122	168	220	54	54	53	53	53	52				
			500		.24	.09	.05	.02	.01					1.9	3.0	3.9	4.7	6.2	7.8					
			750	1.9	.36	.13	.07	.03	.01	66	93	124	168	220	54	54	54	54	54	53				
			1,000		.47	.18	.09	.04	.01					2.0	3.2	4.0	4.9	6.5	8.2					
		2,000	2.6	.95	.35	.17	.07	.03	70	95	124	168	222	55	55	54	54	54	54					
		3,500		1.66	.61	.30	.13	.04					2.8	4.6	5.3	6.1	7.8	9.5						
		5,000	3.0	2.36	.87	.43	.18	.06	72	97	126	170	224	55	55	55	55	55	54					
		7,500		3.55	1.31	.64	.27	.09					4.6	6.0	6.8	7.6	9.3	11						
		10,000	3.5	4.73	1.74	.86	.36	.12	74	99	128	172	226	56	56	56	55	55	55					
		15,000		7.09	2.61	1.28	.54	.18					6.3	7.4	8.2	9.1	11	13						
		20,000	3.9	9.45	3.48	1.71	.72	.24	78	103	128	174	226	57	56	56	56	56	56					
		25,000		11.8	4.35	2.14	.90	.30					8.0	8.9	9.6	11	12	14						
		50,000	6.1	23.6	8.70	4.27	1.79	.61	82	107	132	178	230	57	56	56	56	56	56					
		75,000		35.5	13.1	6.41	2.69	.91					11	12	14	16	16	18						
		100,000																						
		150,000																						
		200,000																						
		250,000																						

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



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			
CAP. GPM	SPEED RPM		(SSU)	(PSIA)	PIPE DIAMETER					CRACKING PRESS. (PSI)					DIFFERENTIAL PRESSURE (PSI)							
										LOW PRES R/V		HI PRES R/V			25	50	75	100	150	200	300	400
															MEDIUM DUTY AND HEAVY DUTY					HEAVY DUTY ONLY		
32	350	STD	28	1.3	.01	.01	.01	.01	.01	56	82	113			31	30	30	29				
			32		.03	.01	.01	.01	.01					.89	1.4	1.9	2.4					
			38	1.3	.04	.01	.01	.01	.01	56	82	113	159		31	31	30	30	30			
			50		.04	.02	.01	.01	.01					.94	1.5	2.0	2.5	3.0				
			70	1.3	.05	.02	.01	.01	.01	56	83	113	159	211	32	31	31	31	30.7	30.4		
			100		.06	.02	.01	.01	.01					1.0	1.6	2.1	2.6	3.2	4.1			
			150	1.3	.06	.02	.01	.01	.01	56	83	113	159	211	32	32	31	31	31	31		
			200		.06	.02	.01	.01	.01					1.1	1.7	2.2	2.7	3.5	4.4			
			300	1.3	.09	.03	.02	.01	.01	57	84	113	159	211	32	32	32	32	32	31		
			500		.14	.05	.03	.01	.01					1.1	1.8	2.3	2.8	3.7	4.7			
			750	1.3	.21	.08	.04	.02	.01	57	84	113	159	211	32	32	32	32	32	32		
			1,000		.28	.11	.05	.02	.01					1.2	1.9	2.4	2.9	3.9	5.0			
		2,000	2.0	.56	.21	.10	.04	.02	59	86	115	159	211	33	33	32	32	32	32			
		3,500		.98	.36	.18	.08	.03					1.7	2.7	3.2	3.6	4.7	5.7				
		5,000	2.4	1.40	.52	.26	.11	.04	61	88	117	160	212	33	33	33	33	33	32			
		7,500		2.10	.78	.38	.16	.06					2.7	3.6	4.1	4.5	5.6	6.6				
		10,000	2.9	2.80	1.03	.51	.21	.07	63	90	120	161	213	33	33	33	33	33	33			
		15,000		4.20	1.55	.76	.32	.11					3.8	4.5	4.9	5.4	6.5	7.5				
		20,000	3.2	5.60	2.06	1.02	.43	.15	66	93	123	161	213	34	34	34	33	33	33			
		25,000		7.00	2.58	1.27	.53	.18					4.8	5.3	5.8	6.3	7.4	8.4				
		50,000	5.4	14.0	5.16	2.53	1.06	.36	69	96	126	164	216	34	34	34	33	33	33			
		75,000		21.0	7.73	3.80	1.60	.54					6.7	7.3	8.2	9.4	9.8	11				
		100,000	8.0	28.0	10.3	5.07	2.13	.72	73	100	130	168	220	34	34	34	33	33	33			
		150,000		42.0	15.5	7.60	3.19	1.08					8.1	8.8	10	11	12	13				
		200,000																				
		250,000																				

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



JP

15 GPM
150 RPM

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