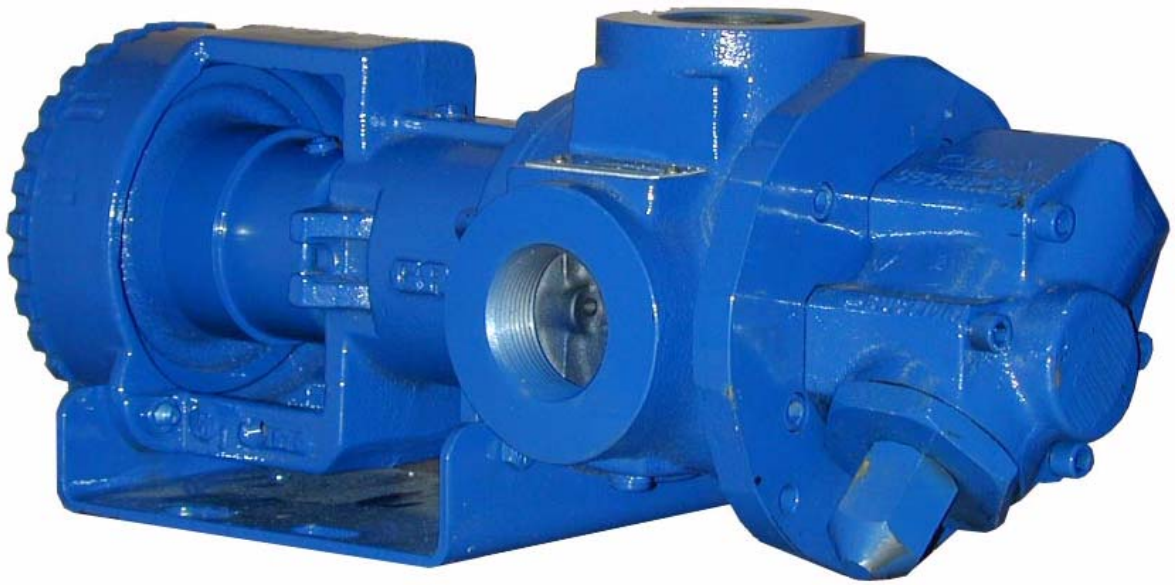
GORMAN-RUPP
ROTARY GEAR PUMPS

GHS SERIES
HEAVY DUTY STANDARD; D, G, J, N & R HYD SIZE
ROTARY GEAR PUMP



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

This heavy duty series provides superior rotor shaft support and an integral, maintenance-free radial/thrust bearing for reduced deflection and wear.

FEATURES

400 PSI CAPABILITY

BALL BEARING THRUST CONTROL

ROTOR END CLEARANCE EXTERNALLY ADJUSTABLE

OPTIMIZED LOAD SUPPORT AND HIGH STRENGTH SHAFT

HIGH STRENGTH, COMPUTER PROFILED GEARING FOR QUIET OPERATION

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

INTERNAL SEAL VENT

DEEP END FEED DESIGN

OPERATING RANGE

CAPACITY	(GPM) :	(3 TO 295)
	[LPM] :	[11 TO 1116]
PRESSURE	(PSI) :	[0 TO 300)
	[BAR] :	[0 TO 20.7]
VISCOSITY	(SSU) :	(28 TO 2,000,000)
	[cSt] :	[1 TO 440,000]
TEMPERATURE	(F) :	(-60° TO 675°)
	[C] :	[-51° TO 358°]

APPLICATIONS

USE WITH ANY CLEAN LIQUID COMPATIBLE WITH CAST IRON

- ★ BOOSTER SERVICE
- ★ CIRCULATING
- ★ FILTERING
- ★ LUBRICATING
- ★ TRANSFERRING
- ★ LOW PRESSURE FLUID POWER
- ★ METERING

SUPERSEDES ALL PREVIOUS ISSUES
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Standard Construction

EXTERIOR	ROTOR & IDLER	HOUSING PORTS	BUSHINGS	IDLER PIN	SHAFT	SHAFT SEALING		ROTATION	INTERNAL RELIEF VALVE	
						MECH. SEAL ●	PACKING ■		MATERIAL	SETTING
CAST IRON	HIGH STRENGTH IRON	90° TAPPED 125# FLG	BRONZE	HARDENED STEEL	STEEL	VITON	CARBON FIBER	C.W.	DUCTILE IRON	75 PSI [5 BAR]

Standard Models

G H S 1 DC 3 – B

GEAR | DUTY | DESIGN | PORT SIZE | HYDRAULIC SIZE | SEAL | STYLE

MODEL NUMBER	NOM. CAPACITY - SPEED				MAXIMUM				SHIPPING DATA	
	MAXIMUM		ALTERNATIVE		DIFFERENTIAL PRESSURE-PSI [BAR]			TEMP.		
	GPM [LPM]	RPM 60 Hz [50 HZ]	GPM [LPM]	RPM ② 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]	Weight LBS [KG]	Volume CU. FT.
GHS 1DC 3-B ● ① **GHS 1DC 4-B** ■	9 [28]	1750 [1460]	6 [19]	1150 [960]	100 [7]	150 [10]	300 [20.7]	● 400 [204]	30 [13,6]	2.9
GHS 1DE 3-B ● ① **GHS 1DE 4-B** ■	11 [35]		7 [22]						30 [13,6]	2.9
GHS 1-1/2 GC 3-B ● **GHS 1-1/2 GC 4-B** ■	16 [50]		10 [32]						54 [24,5]	2.9
GHS 2 GC 3-B ● GHS 2 GC 4-B ■									54 [24,5]	2.9
GHS 1-1/2 GF 3-B ● **GHS 1-1/2 GF 4-B** ■	23 [73]		15 [47]						54 [24,5]	2.9
GHS 2 GF 3-B ● GHS 2 GF 4-B ■									54 [24,5]	2.9
GHS 1-1/2 GH 3-B ● **GHS 1-1/2 GH 4-B** ■	31 [98]		20 [63]						54 [24,5]	2.9
GHS 2 GH 3-B ● GHS 2 GH 4-B ■									54 [24,5]	2.9
GHS 1-1/2 GJ 3-B ● ③ GHS 1-1/2 GJ 4-B ■	38 [120]		25 [79]				200 [14]	■ 500 [260]	54 [24,5]	2.9
GHS 2 GJ 3-B ● ③ **GHS 2 GJ 4-B** ■									54 [24,5]	2.9
GHS 2 JG 3-B ● **GHS 2 JG 4-B** ■	40 [126]	1150 [960]	30 [95]	870 [725]					125 [57]	5.3
GHS 2-1/2 JG 3-B ● GHS 2-1/2 JG 4-B ■							300 [20.7]		125 [57]	5.3
GHS 3 JG 3-B ● GHS 3 JG 4-B ■									125 [57]	5.3

STANDARD MODELS CONT.

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GHS 2JG 3-B**

● MECHANICAL SEAL
■ LIPSEAL/PACKING

① 3450 [2875] RPM PERMISSIBLE TO 1,000 SSU [220 Cts.] AND 100 PSI [7 BAR]
② MAXIMUM SPEED FOR AMMONIA MODELS.
③ PUMP LIMITED TO 200 PSI MAXIMUM PRESSURE.

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Standard Models Cont'd

MODEL NUMBER	NOM. CAPACITY - SPEED				MAXIMUM				SHIPPING DATA	
	MAXIMUM		ALTERNATIVE		DIFFERENTIAL PRESSURE-PSI [BAR]			TEMP.		
	GPM [LPM]	RPM 60 Hz [50 HZ]	GPM [LPM]	RPM (1) 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]	Weight LBS [KG]	Volume CU. FT.
GHS 2 JJ 3-B ● / GHS 2 JJ 4-B ■	56 [177]	1150 [960]	42 [133]	870 [725]	100 [7]	150 [10]	300 (3) [20.7]	● 400 [204]	125 [57]	5.3
GHS 2-1/2 JJ 3-B ● / GHS 2-1/2 JJ 4-B ■									125 [57]	5.3
GHS 3 JJ 3-B ● / GHS 3 JJ 4-B ■									125 [57]	5.3
GHS 2 JL 3-B ● / GHS 2 JL 4-B ■	77 [243]		58 [183]						125 [57]	5.3
GHS 2-1/2 JL 3-B ● / GHS 2-1/2 JL 4-B ■									125 [57]	5.3
GHS 3 JL 3-B ● / GHS 3 JL 4-B ■									125 [57]	5.3
GHS 2 JP 3-B ● / GHS 2 JP 4-B ■ (2)	107 [338]		81 [256]				200 [14]		125 [57]	5.3
GHS 2-1/2 JP 3-B ● / GHS 2-1/2 JP 4-B ■ (2)									125 [57]	5.3
GHS 3 JP 3-B ● / GHS 3 JP 4-B ■ (2)									125 [57]	5.3
GHS 1-1/2 NK 3-B ● / GHS 1-1/2 NK 4-B ■	99 [375]		60 [189]				300 (3) [20.7]	■ 500 [260]	167 [75,7]	5.3
GHS 2 NK 3-B ● / GHS 2 NK 4-B ■									167 [75,7]	5.3
GHS 2-1/2 NK 3-B ● / GHS 2-1/2 NK 4-B ■									167 [75,7]	5.3
GHS 3 NK 3-B ● / GHS 3 NK 4-B ■									167 [75,7]	5.3
GHS 2 NM 3-B ● / GHS 2 NM 4-B ■	132 [500]	960 [960]	80 [252]	580 [480]					167 [75,7]	5.3
GHS 2-1/2 NM 3-B ● / GHS 2-1/2 NM 4-B ■									167 [75,7]	5.3
GHS 3 NM 3-B ● / GHS 3 NM 4-B ■									167 [75,7]	5.3
GHS 2 NP 3-B ● / GHS 2 NP 4-B ■ (2)	165 [624]		99 [312]				200 [14]		167 [75,7]	5.3
GHS 2-1/2 NP 3-B ● / GHS 2-1/2 NP 4-B ■ (2)									167 [75,7]	5.3
GHS 3 NP 3-B ● / GHS 3 NP 4-B ■ (2)									167 [75,7]	5.3

STANDARD MODELS CONT.

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GHS 2JG 3-B**

(1) MAXIMUM SPEED FOR AMMONIA MODELS.

(2) PUMP LIMITED TO 200 PSI MAXIMUM PRESSURE.

(3) FOR 200-300 PSI OPERATION, HOUSING BUSHING IS RECOMMENDED. CONSULT BUSHING LIMITATION TABLE OR CONSULT FACTORY.

● MECHANICAL SEAL
■ LIPSEAL/PACKING

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Standard Models Cont'd

MODEL NUMBER	NOM. CAPACITY – SPEED				MAXIMUM				SHIPPING DATA	
	MAXIMUM		ALTERNATIVE		DIFFERENTIAL PRESSURE – PSI [BAR]			TEMP.		
	GPM [LPM]	RPM 60 Hz [50 HZ]	GPM [LPM]	RPM (1) 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]	Weight LBS [KG]	Volume CU. FT.
GHS 2 RM 3-B ● GHS 2 RM 4-B ■	172 [542]	720 [600]	115 [362]	480 [400]	100 [7]	150 [10]	300 [20.7]	● 400 [204]	301 [136]	10.7
GHS 2-1/2 RM 3-B ● ⊩ GHS 2-1/2 RM 4-B ■ ⊩									301 [136]	10.7
GHS 3 RM 3-B ● ⊩ **GHS 3 RM 4-B ■ ⊩**									301 [136]	10.7
GHS 4 RM 3-B ● ⊩ GHS 4 RM 4-B ■ ⊩									301 [136]	10.7
GHS 2-1/2 RP 3-B ● ⊩ GHS 2-1/2 RP 4-B ■ ⊩	215 [678]		143 [451]						301 [136]	10.7
GHS 3 RP 3-B ● ⊩ **GHS 3 RP 4-B ■ ⊩**									301 [136]	10.7
GHS 4 RP 3-B ● ⊩ GHS 4 RP 4-B ■ ⊩								■ 500 [260]	301 [106]	10.7
GHS 2-1/2 RR 3-B ● ⊩ GHS 2-1/2 RR 4-B ■ ⊩	255 [804]		170 [536]						301 [136]	10.7
GHS 3 RR 3-B ● ⊩ GHS 3 RR 4-B ■ ⊩									301 [136]	10.7
GHS 4 RR 3-B ● ⊩ **GHS 4 RR 4-B ■ ⊩**									301 [136]	10.7
GHS 3 RS 3-B ● ⊩ (2) GHS 3 RS 4-B ■ ⊩ (2)	295 [930]		196 [618]				200 [14]		301 [136]	10.7
GHS 4 RS 3-B ● ⊩ (2) **GHS 4 RS 4-B ■ ⊩ (2)**									301 [136]	10.7

(1) MAXIMUM SPEED FOR AMMONIA MODELS.

(2) PUMP LIMITED TO 200 PSI MAXIMUM PRESSURE

● MECHANICAL SEAL

■ LIPSEAL/PACKING

⊩ PORTS ARE COMPATIBLE WITH 125# ANSI CAST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL [DIN] FLANGES OR TAPPED [BSP] PORTS AVAILABLE FOR EXPORT MARKET.

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APPLICATION RECOMMENDATIONS:		
APPLICATION	**OPTIONS REQUIRED (Select One From Each Row)**	**OPERATING LIMITATIONS**
HIGH TEMPERATURE	25U, 25V, OR 25W 35J – 35M (AS REQ'D) 40M, 40W 61H, OR 65Q 70F OR 70K	TEMPERATURE: 675°F MAX. PRESSURE: 200 PSI MAX.
AMMONIA	25G OR 25H 40N 60K 70E 90A	PRESSURE: 200 PSI MAX. 2/3 RATED SPEED 4 FEET NPSHr
LP GAS	25G OR 25H 40F OR 40N 70D OR 70E	PRESSURE: 200 PSI MAX. 3 FEET NPSHr
ASPHALT	25U, 25V OR 25W 35J–35M (AS REQ'D) 40G, 40M, 40W 41R, 41W 65S 70B, 70K 71K	TEMPERATURE: 500°F MAX.
JACKETED	40G, 40J, 40K, 40W, 41U, 41W 70B, 70G, 70K 71K, 71M	LIMIT JACKET PRESSURE TO 150 PSIG

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

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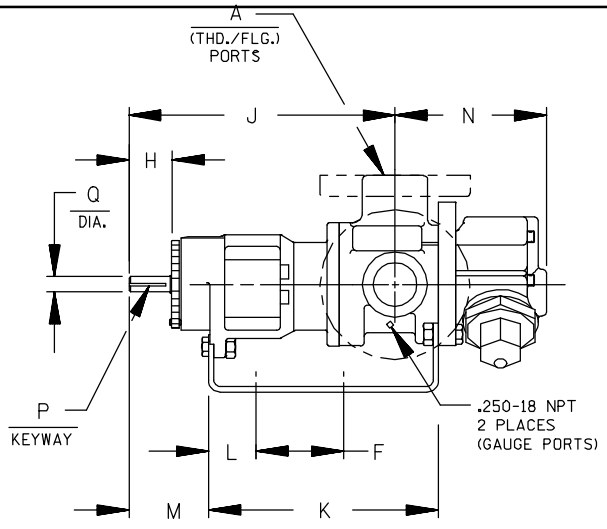
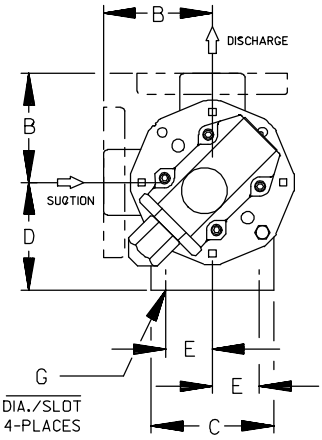
Basic Dimensions





CAD FILE NO.: 16669

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] ✳ 2.75 [70] † 3.19 [81] ⊢ 4.00 [102] ⊢†	4.00 [102]	3.50 [89] ✳ 4.50 [114] 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 GHA G	1-1/2"	3.50 [89] ✳ 3.75 [95] †	4.88 [124]	3.50 [89] ✳ 4.50 [114] 5.25 [133]	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]
	2"	4.00 [102] ⊢		6.25 [159]											
GHS J GHA 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] × 2.00 [51]	1.00 [25]
	2-1/2"	5.00 [127] † 6.00 [152] ⊢		6.25 [159] 7.00 [178]											
	3"	6.31 [160] ⊢		8.00 [203]											
GHS N GHA N	1-1/2"	5.12 [130] ✳	8.00 [203]	4.50 [114]	2.88 [73]	10.00 [254]	.44 [11]	2.58 [66]	17.45 [443]	15.14 [385]	2.69 [68]	4.56 [116]	7.59 [193]	.25 [6] × 2.00 [51]	1.12 [32]
	2"	5.25 [133] ⊢		5.25 [133] ✳ 6.25 [159]					16.37 [416] ✳						
	2-1/2"			7.00 [178]											
	3"	7.19 [183] ⊢		8.00 [203]									8.72 [221] ✳		
GHS R GHA 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] × 1.88 [48]	1.44 [37]
	2-1/2"														
	3"	7.19 [183] ⊢													
	4"														

⊢ 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.

✳ STANDARD DIMENSION † 180° HOUSING

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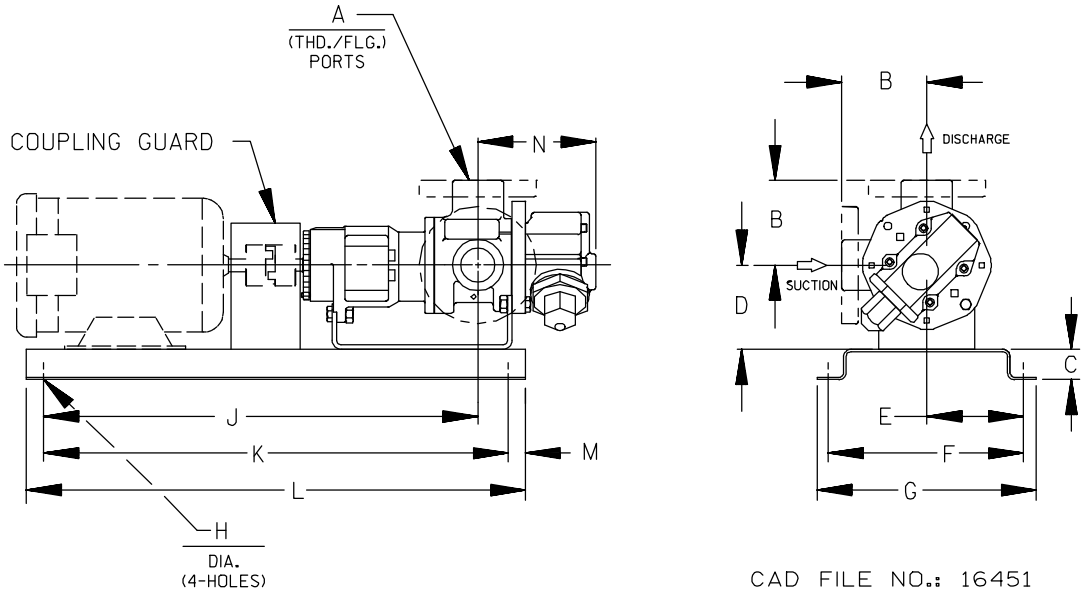
GHS & GHA

DIRECT FLEX DRIVE OPTION DIMENSIONS



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PUMP MODEL	PUMP DIMENSIONS - INCHES[MILLIMETERS]														
	A	MOTOR FRAME	B	C	D	E	F	G	H	J	K	L	M	N
GHS D	1"	56/56H	2.50 [64] ✳	2.00 [51]	3.50 [89] ✳	4.44 [113]	8.88 [226]	10.14 [258]	.56 [14]	20.29 [515]	19.25 [489]	25.25 [641]	3.00 [76]	4.97 [126]
		143T/145T	2.75 † [70]	4.00 [102]	4.50 [114]	7.75 [197]	15.50 [394]	17.50 [445]		26.66 [677]	23.50 [597]	33.50 [851]	5.00 [127]	
		182T/184T	3.19 ⊢ [81]		5.25 [133]									
		213T/215T	4.00 † ⊢ [82]											
GHS G GHA G	1- ½"	56/56H	3.50 ✳ [89]	2.00 [51]	3.50 [89] ✳	4.44 [113]	8.88 [226]	10.14 [258]	.56 [14]	19.93 [506]	19.25 [489]	25.25 [641]	3.00 [76]	5.70 [145]
		143T/145T		4.00 [102]	4.50 [114]	7.75 [197]	15.50 [394]	17.50 [445]		26.30 [668]	23.50 [597]	33.50 [851]	5.00 [127]	
		182T/184T	3.75 † [95]		5.25 [133]									
	2"	213T/215T			6.25 [159]									
		254T/256T	4.00 ⊢ [102]											
GHS J GHA J	2"	182T/184T	4.50 ✳ [114]	4.00 [102]	4.50 [114]	9.50 [241]	19.00 [483]	21.00 [533]	.69 [18]	36.28 [922]	35.50 [902]	45.50 [1156]	5.00 [127]	8.49 [216]
		213T/215T			5.25 [133] ✳									
	2- ½"	254T/256T	5.00 † [127]		6.25 [159]									
		284T/286T	6.00 † ⊢ [152]		7.00 [178]									
	3"	324T/326T	6.31 ⊢ [160]		8.00 [203]									
GHS N GHA N	1- ½"	182T/184T	5.12 ✳ [130]	4.00 [102]	4.50 [114]	9.50 [241]	19.00 [483]	21.00 [533]	.89 [18]	36.87 [936]	35.50 [902]	45.50 [1156]	5.00 [127]	8.70 [221]
	2"	213T/215T			5.25 [133] ✳									
		254T/256T	5.25 ⊢ [133]		6.25 [159]									
	2- ½"	284T/286T			7.00 [178]									
	3"	324T/326T	7.19 ⊢ [183]		8.00 [203]					37.98 [965]				7.59 [193]

✳ 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.

† 180° HOUSING

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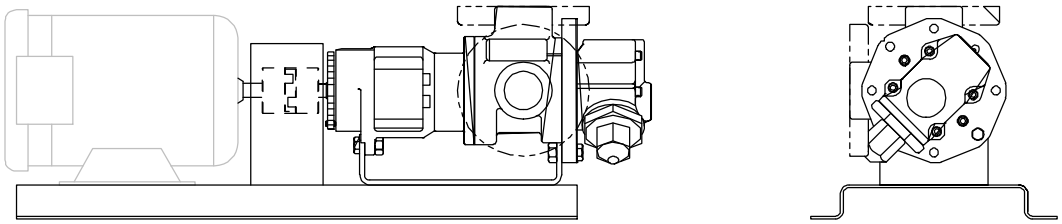
GHS & GHA

DIRECT FLEX DRIVE OPTIONS

(Drive Assembly Number Includes Base, Coupling & Guard, But **NOT** the Motor)



PUMP MODEL NUMBER	RPM	FRAME	MTG. FT. OPTION REQ.	DRIVE ASSY NO.
GHS GHA D	3450 1750 1150 850	56/56H	STD	90451–086
		143T/145T	STD	90451–018
		182T/184T	80F	90451–058
		213T/215T	80J	90451–062
GHS GHA G	1750 1150 850	56/56H	STD	90451–160
		143T/145T	STD	90451–162
		182T/184T	80F	90451–168
		213T/215T	80J	90451–176
		254T	80P	90451–180
GHS GHA J	1150 850	182T/184T	80F	90451–260
		213T/215T	STD	90451–264
		254T/256T	80P	90451–272
		284T/286T	80S	90451–280
		324T/326T	80V	90451–288
GHS GHA N	850	254T/256T	80P	90451–390
		284T/286T	80S	90451–398
		324T/326T	80V	90451–406

NOTE: CONSULT FACTORY FOR;

1. **HORSEPOWERS & FRAMES NOT SHOWN**
2. **DRIP PAN BASES**

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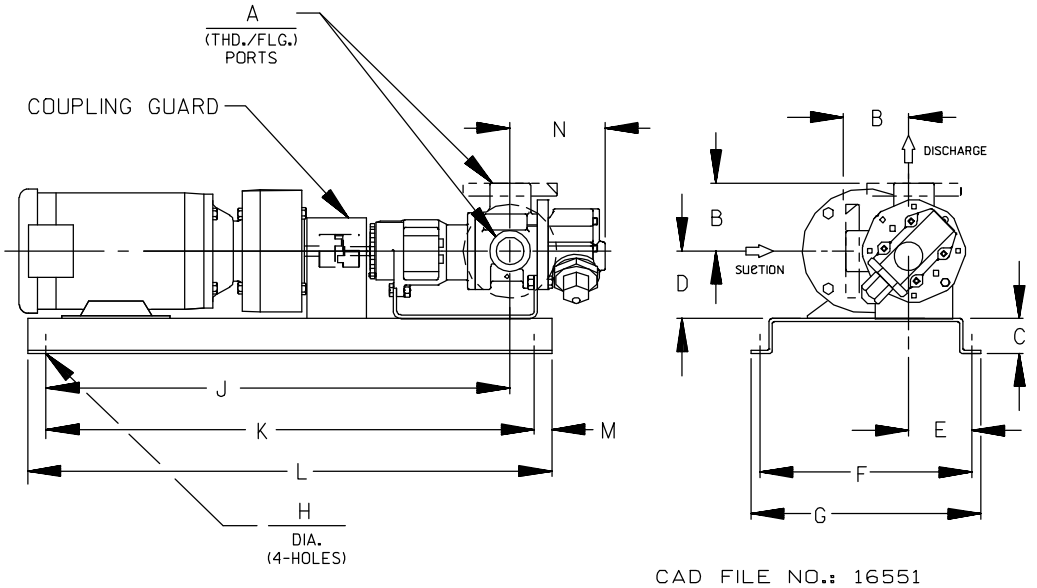
GHS & GHA

GRR REDUCER C-FLANGE FLEX DRIVE OPTION DIMENSIONS
(56C – 215TC Frame Size Range)



CAD FILE NO.: 16551

PUMP MODEL	PUMP DIMENSIONS - INCHES[MILLIMETERS]													
	A	MOTOR FRAME	B	C	D	E	F	G	H	J	K	L	M	N
GHS D	1"	56C	2.50✳ [64]	2.00 [51]	3.50✳ [89]	4.41 [112]	13.00 [330]	15.00 [381]	.56 [14]	26.58 [675]	25.50 [648]	31.50 [800]	3.00 [76]	4.98 [126]
		143TC/145TC	2.75 † [70]											
		184C	3.19 ⊢ [81]											
		182TC/184TC	4.00† ⊢ [82]		4.50 [114]	5.50 [140]	14.62 [372]	16.62 [422]		37.08 [942]	37.25 [946]	43.25 [1098]		
GHS G GHA G	1- ½"	56C	3.50✳ [89]	2.00 [51]	3.50✳ [89]	4.41 [112]	13.00 [330]	15.00 [381]	.56 [14]	26.22 [667]	25.50 [648]	31.50 [800]	3.00 [76]	5.72 [145]
		143TC/145TC	3.75 † [95]		4.50 [114]									
		184C												
	2"	182TC/184TC	4.00 ⊢ [102]			5.50 [140]	14.62 [372]	16.62 [422]		36.72 [934]	37.25 [946]	43.25 [1098]		
		213TC/215TC			5.25 [133]									
GHS J GHA J	2"	182TC/184TC	4.50✳ [114]	2.00 [51]	4.50 [114]	5.50 [140]	14.62 [372]	16.62 [422]	.56 [14]	35.96 [913]	37.25 [946]	43.25 [1098]	3.00 [76]	8.50 [216]
	2- ½"	182TC/184TC	5.00† [127]											
		213TC/215TC	6.00† ⊢ [152]		5.25✳ [133]									
	3"		6.31 ⊢ [160]											
GHS N GHA N	1- ½"	182TC/184TC	5.12✳ [130]	2.00 [51]	4.50 [114]	5.50 [140]	14.62 [372]	16.62 [422]	.56 [14]	38.88 [931]	37.25 [946]	43.25 [1098]	3.00 [76]	8.71 [221]
	2"		5.25 ⊢ [133]											
	2- ½"	213TC/215TC	7.19 ⊢ [183]		5.25✳ [133]					36.97 [939]				
	3"													

✳ 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.

† 180° HOUSING

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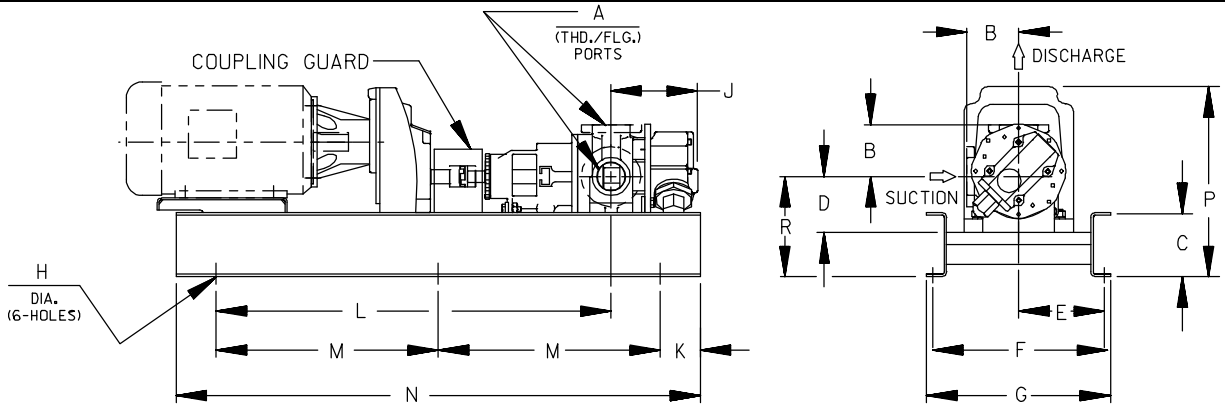
GHS & GHA

GRR REDUCER C-FLANGE FLEX DRIVE OPTION DIMENSIONS
(213TC – 326TC Frame Size Range)



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PUMP MODEL	MOUNTING DIMENSIONS															
	A	MOTOR FRAME	B	C	D	E	F	G	H	J	K	L	M	N	P	R
GHS J	2"	213TC/215TC	4.50 ✳ [114]	6.00 [152]	6.25 [159]	10.12 [257]	20.25 [514]	22.50 [572]	.69 [18]	7.59 [193] ✳	5.00 [127]	41.58 [1056]	23.00 [584]	56.00 [1422]	18.14 [461]	10.58 [269]
		254TC/256TC	5.00 † [127]													
GHA J	2 1/2"	254TC/256TC	6.00 ⊢ [152] †							8.70 [221]		47.00 [1194]	25.75 [654]	61.50 [1562]	20.91 [531]	10.66 [271]
	3"	284TC/286TC	6.31 ⊢ [160]													
GHS N	1 1/2"	213TC/215TC	5.12 ✳ [130]	6.00 [152]	6.25 [159]	10.12 [257]	20.25 [514]	22.50 [572]	.69 [18]	7.59 [193] ✳	5.00 [127]	41.32 [1051]	23.00 [584]	56.00 [1422]	15.75 [400]	18.14 [461]
	2"	254TC/256TC	5.25 ⊢ [130]													
GHA N	2 1/2"	254TC/256TC	7.19 ⊢ [183]							8.70 [221]		47.69 [1211]	25.75 [654]	61.50 [1562]		20.91 [531]
	3"	284TC/286TC														
GHS R	2"	182TC/184TC	6.50 [165]	8.00 [203]	7.00 [178]	10.38 [264]	20.75 [527]	23.00 [584]	.69 [18]	11.31 [287]	5.00 [127]	38.95 [989]	22.62 [575]	55.25 [11403]	19.86 [504]	12.66 [322]
		213TC/215TC														
	2 1/2"	213TC/215TC										44.25 [1124]	25.28 [642]	60.56 [1538]	20.26 [515]	12.39 [315]
		254TC/256TC	7.19 ⊢ [183]													
		254TC/256TC										49.20 [1250]	27.75 [705]	65.50 [1664]	23.58 [585]	12.50 [318]
		284TC/286TC														
GHA R	3"	284TC/286TC	6.50 [165]	7.00 [178]	7.00 [178]	11.38 [289]	22.75 [578]	25.00 [635]	.69 [18]	11.31 [287]	5.00 [127]	53.01 [1346]	29.75 [756]	69.50 [1756]	25.94 [659]	12.50 [318]
		324TC/326TC				10.38 [264]	22.75 [578]	25.00 [635]				57.95 [1472]	32.12 [816]	74.25 [1886]	28.44 [667]	13.50 [343]
	4"	284TC/286TC	7.19 ⊢ [183]											74.25 [1886]	26.44 [667]	13.50 [343]

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.

† 180° HOUSING

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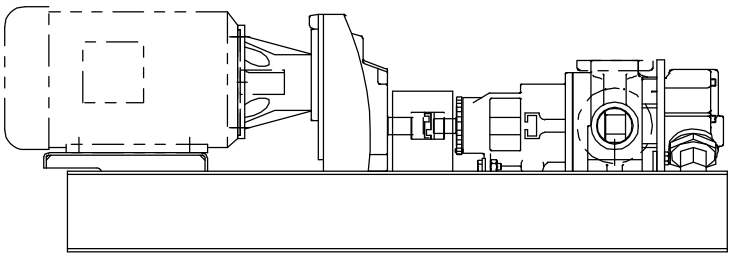
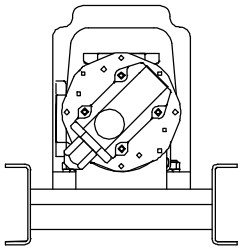
GHS & GHA

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

(Drive Assy Number Includes Base, Coupling, Guard & Gear Reducer, But **NOT** the Motor)





PUMP MODEL NUMBER	PUMP RPM @1750	PUMP RPM @1150	REDUCER ① RATIO	REDUCER ① MAX.HP	FRAME	MTG. FT. OPTION	DRIVE ASSY NO.
GHS GHA D	875	575	2.00:1	5.65	56C	STD	90453–510
				11.70	143TC/145TC	STD	90453–516
				11.70	182C/184C	80F	90453–519
				13.01	182TC/184TC	80F	90453–526
	580	383	3.00:1	3.76	56C	STD	90453–530
				8.10	143TC/145TC	STD	90453–533
				8.10	182C/184C	80F	90453–539
				10.62	182TC/184TC	80F	90453–546
	440	288	4.00:1	2.82	56C	STD	90453–550
				5.90	143TC/145TC	STD	90453–553
				5.90	182C/184C	80F	90453–562
				7.24	182TC/184TC	80F	90453–566
	350	230	5.00:1	2.26	56C	STD	90453–570
				5.20	143TC145TC	STD	90453–573
				5.20	182C/184C	80F	90453–582
				5.98	182TC/184TC	80F	90453–586
GHS GHA G	875	575	2.00:1	5.65	56C	STD	90453–610
				11.70	143TC/145TC	STD	90453–613
				11.70	182C/184C	80F	90453–622
				13.01	182TC/184TC	80F	90453–626
	580	383	3.00:1	3.76	56C	STD	90453–630
				8.10	143TC/145TC	STD	90453–633
				8.10	182C/184C	80F	90453–642
				10.62	182TC/184TC	80F	90453–646
				10.62	213TC/215TC	80J	90453–648
	440	288	4.00:1	2.82	56C	STD	90453–660
				5.90	143TC/145TC	STD	90453–663
				5.90	182C/184C	80F	90453–672
				7.24	182TC/184TC	80F	90453–676
				7.24	213TC	80J	90453–677
	350	230	5.00:1	2.26	56C	STD	90453–690
				5.20	143TC/145TC	STD	90453–693
				5.20	182C/184C	80F	90453–702
				5.98	182TC/184TC	80F	90453–706
				5.98	213TC	80J	90453–708

(CONT'D)

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 Based on 1750 RPM input.

NOTE: CONSULT FACTORY FOR;

1. **HORSEPOWERS & FRAMES NOT SHOWN**
2. **DRIP PAN BASES**

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GHS & GHA

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

(Drive Assy Number Includes Base, Coupling, Guard & Gear Reducer, But **NOT** the Motor)

PUMP MODEL NUMBER	PUMP RPM @1750	PUMP RPM @1150	REDUCER ① RATIO	REDUCER ① MAX.HP	FRAME	MTG. FT. OPTION	DRIVE ASSY NO.
GHS GHA J	875	575	2.00:1	13.01	182TC/184TC	80F	90453–722
				13.01	213TC/215TC	STD	90453–726
				36.29	254TC/256TC	80P	90453–728
				36.29	284TC/286TC	80P	90453–732
	580	383	3.00:1	10.62	182TC/184TC	80F	90453–737
				10.62	213TC/215TC	80J	90453–741
	555	365	3.15:1	25.76	254TC/256TC	80P	90453–743
				42.96	284TC/286TC	80P	90453–746
	440	288	4.00:1	7.24	182TC/184TC	80F	90453–752
				7.24	213TC	80J	90453–754
	350	230	5.00:1	5.98	182TC/184TC	80F	90453–769
				5.98	213TC	STD	90453–769
				16.01	215TC	80P	90453–774
				30.49	254TC/256TC	80J	90453–778
	278	183	6.30:1	5.94	182TC/184TC		90453–850
				13.36	213TC/215TC	80F	90453–852
				23.43	254TC/256TC		90453–853
	219	144	8.00:1	9.47	182TC/184TC	80F	90453–856
				18.48	213TC/215TC	80F	90453–857
				18.48	254TC/256TC		90453–858
GHS GHA N	875	575	2.00:1	13.01	184TC	80F	90453–795
				13.01	213TC/215TC	STD	90453–799
				36.29	254TC/256TC	80P	90453–801
				36.29	284TC/286TC	80P	90453–805
	580	383	3.00:1	8.10	143T/145T	STD	90453–806
				10.62	182TC/184TC	80F	90453–810
				10.62	213TC/215TC	STD	90453–812
	555	365	3.15:1	25.76	254TC/256TC	80P	90453–817
				42.96	284TC/286TC	80P	90453–821
	440	288	4.00:1	7.24	184TC	80F	90453–825
				7.24	213TC	STD	90453–827
	350	230	5.00:1	5.98	182TC/184TC	80F	90453–840
				5.98	213TC	STD	90453–842
				16.01	215TC	STD	90453–845
				30.49	254TC/256TC	STD	90453–847
	278	183	6.30:1	5.94	182TC/184TC		90453–950
				13.36	213TC/215TC	80F	90453–952
				23.43	254TC/256TC		90453–953
	219	144	8.00:1	9.47	182TC/184TC	80F	90453–956
				18.48	213TC/215TC	80F	90453–957
				18.48	254TC/256TC		90453–958

(CONT'D)

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 Based on 1750 RPM input.

NOTE: CONSULT FACTORY FOR;

1. **HORSEPOWERS & FRAMES NOT SHOWN**
2. **DRIP PAN BASES**

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GHS & GHA

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

(Drive Assy Number Includes Base, Coupling, Guard & Gear Reducer, But **NOT** the Motor)

PUMP MODEL NUMBER	PUMP RPM @1750	PUMP RPM @1150	REDUCER ① RATIO	REDUCER ① MAX.HP	FRAME	MTG. FT. OPTION	DRIVE ASSY NO.
GHS GHA R	700	460	2.50:1	13.96	213TC/215TC	STD	90453–861
				30.62	254TC/256TC	STD	90453–864
				30.62	284TC/286TC	STD	90453–869
	634	417	2.76:1	46.17	324TC/326TC	STD	90453–874
				75.00	364TC	STD	90453–878
	555	365	3.15:1	10.10	213TC/215TC	STD	90453–884
				25.76	254TC/256TC	STD	90453–886
				42.96	284TC/286TC	STD	90453–893
	530	348	3.38:1	66.20	324TC/326TC	STD	90453–898
	438	288	4.00:1	9.42	184TC	STD	90453–901
				20.00	213TC/215TC	STD	90453–904
				38.16	254TC/256TC	STD	90453–911
				38.16	284TC/286TC	STD	90453–916
	420	278	4.13:1	54.4	324TC/326TC	STD	90453–918
	350	230	5.00:1	6.10	184TC	STD	90453–921
				16.01	213TC/215TC	STD	90453–926
				30.49	254TC/256TC	STD	90453–929
				30.49	284TC/286TC	STD	90453–933
	278	184	6.30:1	5.94	184TC	STD	90453–940
				13.36	213TC/215TC	STD	90453–941
				23.43	254TC/256TC	STD	90453–942
	219	145	8.00:1	9.47	184TC	STD	90453–944
				18.48	213TC/215TC	STD	90453–946
				18.48	254TC	STD	90453–947

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 Based on 1750 RPM input.

NOTE: CONSULT FACTORY FOR;

1. HORSEPOWERS & FRAMES NOT SHOWN
2. DRIP PAN BASES

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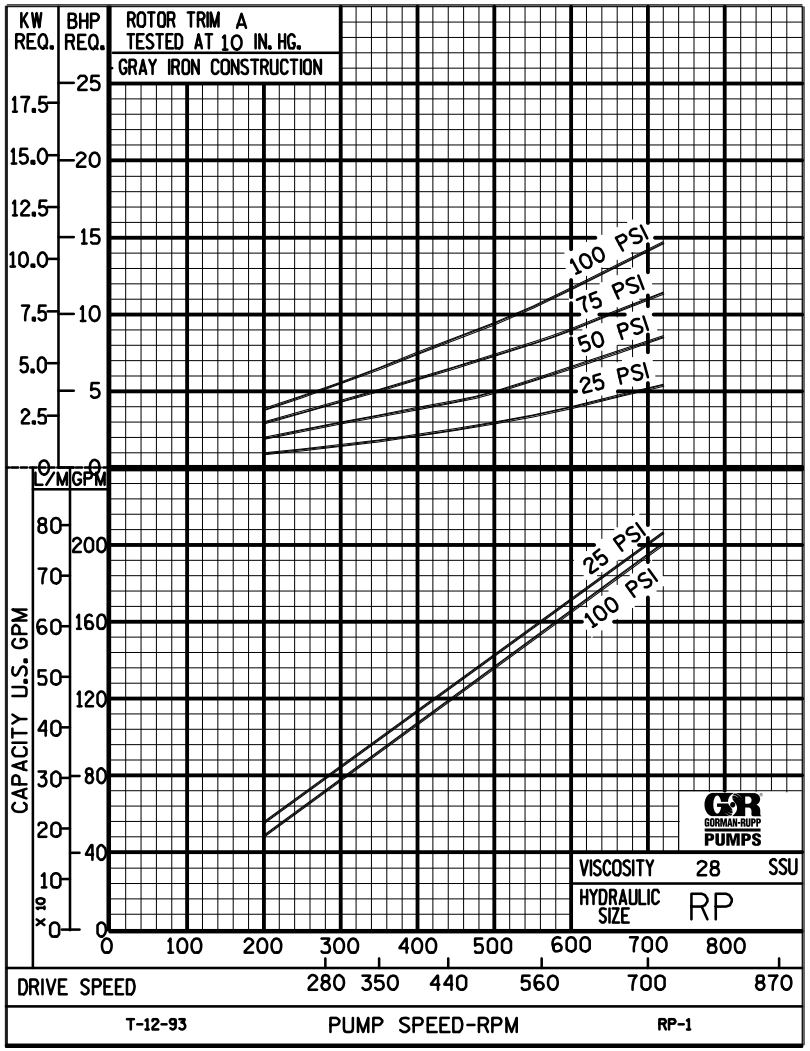
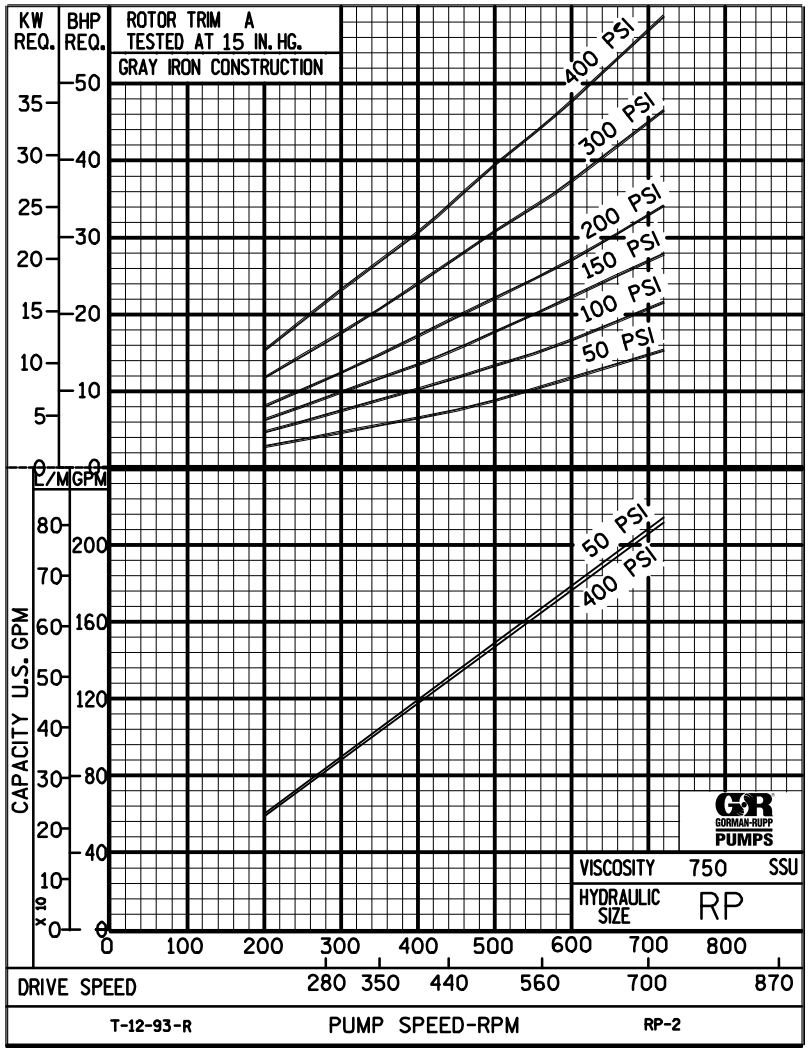
ROTARY GEAR PUMPS

PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

RP Hydraulic Size





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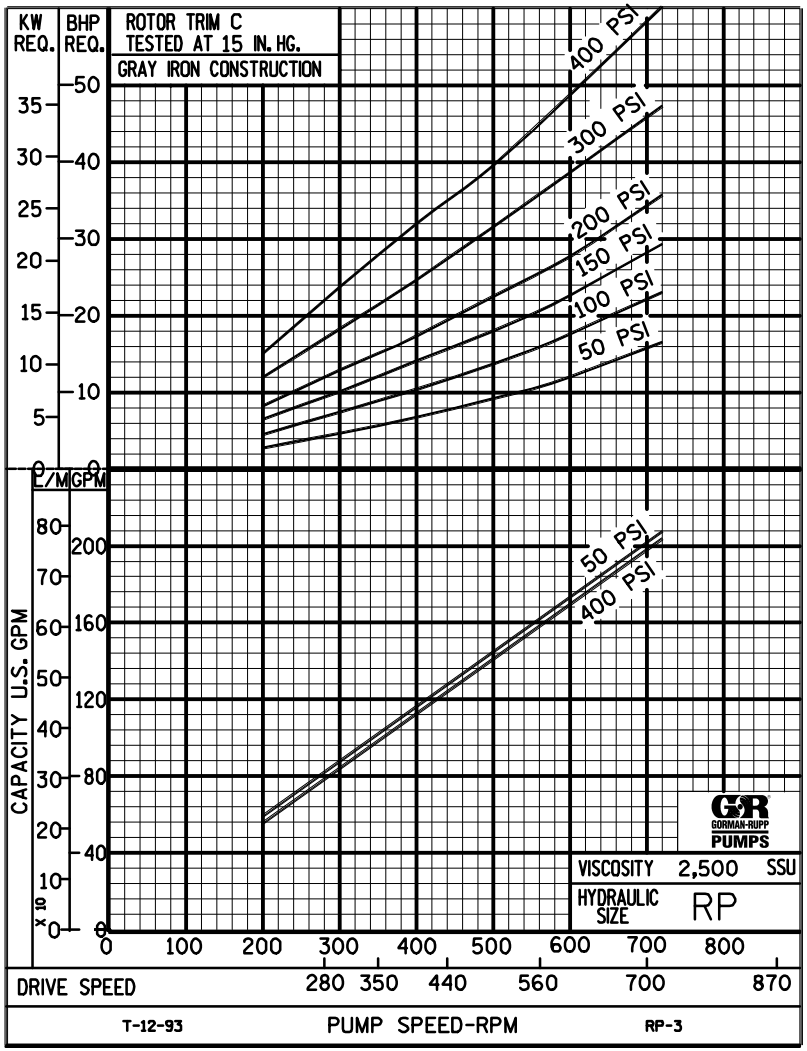
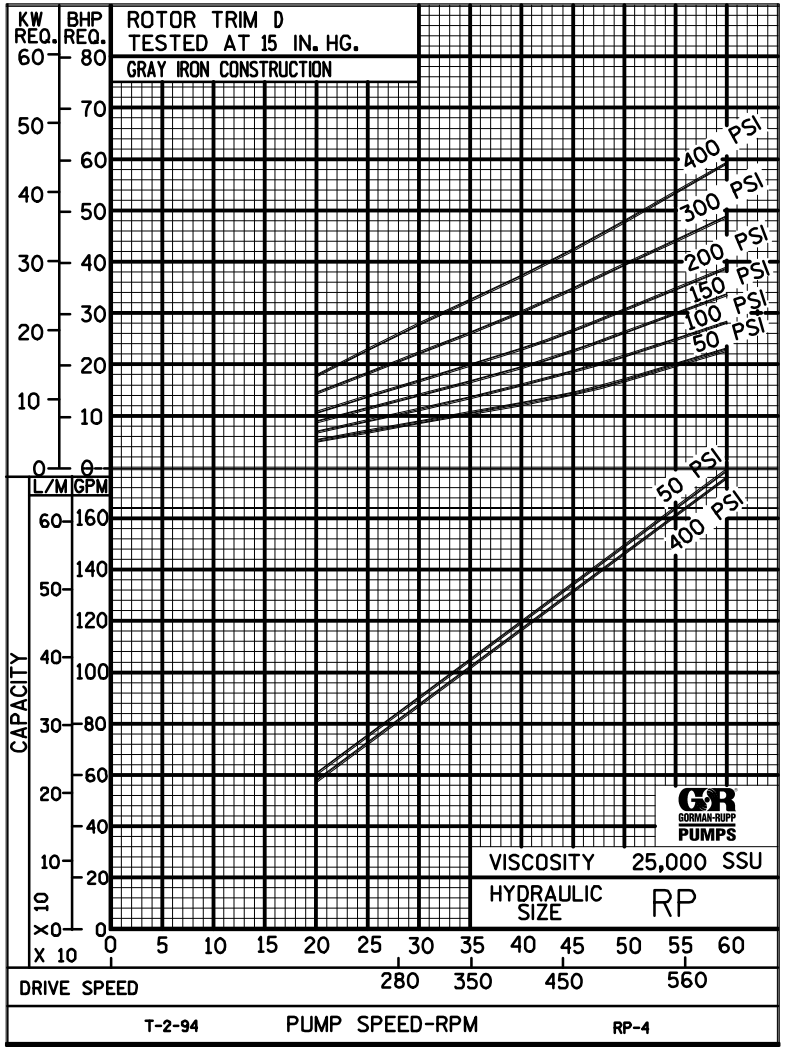
PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

RP Hydraulic Size





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RP

PUMP HYDRAULIC SIZE CHART

215 GPM
720 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									
					2"	$2\frac{1}{2}$"	3"	4"	6"	50	75	100	150	200	HEAVY DUTY							
215	720	STD	28	4.0	.31	.13	.04	.01	–	62	87	123	185		206	204	202	200				
			32		.33	.13	.04	.01	–						5.9	8.1	12	15				
			38	4.0	.35	.14	.05	.01	–	64	90	126	187		208	206	204	202	196			
			50		.38	.16	.05	.01	–						7.3	9.3	13	16	23			
			70	4.0	.42	.18	.06	.02	–	69	95	130	192	251	210	208	208	206	202	198		
			100		.46	.20	.07	.02	–						9.3	12	15	18	25	30		
			150	4.0	51	.22	.08	.02	–	74	99	134	196	258	212	212	210	210	208	204	202	200
			200		.55	.24	.08	.02	–						11	13	17	20	26	32	45	58
			300	4.0	.61	.27	.10	.03	–	80	105	140	202	267	214	212	212	212	210	208	206	206
			500		.72	.31	.11	.02	–						12	15	18	21	28	34	46	59
			750	4.0	.51	.25	.10	.04	.01	84	110	144	206	274	214	214	214	214	214	212	212	212
			1,000		.68	.33	.14	.05	.01						13	16	19	22	29	35	47	60
			2,000	4.3	1.35	.66	.28	.09	.02	92	118	151	213	287	208	208	208	206	206	206	206	204
		"C"	3,500		2.37	1.16	.49	.16	.03						15	17	20	24	30	36	48	61
			5,000	4.7	3.38	1.66	.70	.24	.05	97	123	156	218	294	208	208	208	208	206	206	206	204
			7,500		5.08	2.49	1.05	.35	.07						16	19	22	25	32	39	50	63
			10,000	5.2	6.77	3.32	1.39	.47	.09	102	127	160	222	301	210	208	208	208	208	208	206	206
			15,000		10.2	4.99	2.09	.71	.14						18	20	24	28	34	41	53	66
			20,000																			
		"D"	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.

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GORMAN-RUPP
ROTARY GEAR PUMPS

RP

PUMP HYDRAULIC SIZE CHART

190 GPM
640 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 2"	2 1/2"	3"	4"	6"	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
															MEDIUM DUTY AND HEAVY DUTY					HEAVY DUTY ONLY		
190	640	STD	28	3.2	.24	.10	.03	.01	–	60	85	122	180		184	181	179	177				
			32		.26	.10	.04	.01	–						4.9	7.3	10	13				
			38	3.2	.27	.11	.04	.01	–	63	88	124	183		185	182	180	179	174			
			50		.30	.13	.04	.01	–						6.2	8.9	12	15	19			
			70	3.2	.33	.14	.05	.01	–	67	92	128	187	248	187	185	183	178	176			
			100		.37	.16	.06	.02	–						7.9	10	13	16	21	28		
			150	3.2	41	.17	.06	.02	–	71	97	132	191	253	189	187	186	185	183	181	179	176
			200		.44	.19	.07	.02	–						8.9	12	15	18	22	29	39	50
			300	3.2	.49	.21	.08	.02	–	77	102	136	196	260	190	189	188	188	187	185	184	183
			500		.58	.25	.06	.02	–						10	13	16	19	24	30	40	50
			750	3.2	45	.22	.09	.03	.01	81	107	140	200	266	191	191	190	190	189	188	188	187
			1,000		.60	.29	.12	.04	.01						11	13	16	19	24	30	41	51
			2,000	3.5	1.19	.59	.25	.08	.02	88	114	146	207	276	186	185	185	184	183	183	182	180
		“C”	3,500		2.09	1.03	.43	.15	.03						12	14	18	20	26	31	42	54
			5,000	3.9	2.98	1.46	.61	.21	.04	93	119	150	211	281	187	186	185	185	184	184	184	181
			7,500		4.47	2.20	.92	.31	.06						13	16	19	22	28	33	43	57
			10,000	4.4	5.96	2.93	1.23	.41	.08	97	123	154	215	287	187	186	186	185	185	185	185	182
			15,000		8.94	4.39	1.84	.62	.12						15	18	21	24	30	35	46	60
			20,000	5.1	11.9	5.86	2.46	.83	.16	100	126	158	218	292	187	187	186	186	186	186	186	183
		“D”	25,000		14.9	7.32	3.07	1.04	.20						17	20	23	27	32	37	48	63
			50,000																			
			75,000																			
			100,000																			
			150,000																			
			200,000																			
			250,000																			

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

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ROTARY GEAR PUMPS

RP

PUMP HYDRAULIC SIZE CHART

155 GPM
520 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 2"	2 1/2"	3"	4"	6"	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
															MEDIUM DUTY AND HEAVY DUTY					HEAVY DUTY ONLY		
155	520	STD	28	2.3	16	.07	.02	.01	–	57	84	120	178		148	145	143	141				
			32		.17	.07	.02	.01	–						3.3	5.3	7.9	10				
			38	2.3	.19	.08	.03	.01	–	60	86	122	180		149	147	145	143	138			
			50		.20	.09	.03	.01	–						4.6	6.7	9.1	11	16			
			70	2.3	.23	.10	.03	.01	–	63	89	124	183	242	151	149	147	146	143	140		
			100		.25	.11	.04	.01	–						5.9	7.9	10	12	17	22		
			150	2.3	.28	.12	.04	.01	–	66	93	127	186	246	153	152	150	150	148	146	144	141
			200		.31	.13	.05	.01	–						6.7	8.8	11	13	18	22	31	40
			300	2.3	.35	.15	.05	.01	–	72	98	131	190	251	154	153	153	152	151	150	149	148
			500		.41	.12	.05	.02	–						7.6	9.8	12	14	18	23	32	41
			750	2.3	36	.18	.07	.03	–	75	101	134	193	254	155	155	154	154	153	153	152	152
			1,000		.48	.24	.10	.03	.01						7.8	10	12	14	19	23	33	41
			2,000	2.9	.97	.47	.20	.07	.01	82	110	139	199	260	152	151	151	150	149	149	148	146
		“C”	3,500		1.69	.83	.35	.12	.02						8.6	11	13	16	20	24	34	42
			5,000	3.3	2.42	1.19	.50	.17	.03	86	112	142	202	264	153	152	152	151	151	150	149	148
			7,500		3.63	1.78	.75	.25	.05						11	13	14	18	23	27	36	44
			10,000	3.8	4.83	2.37	1.00	.34	.07	89	115	145	205	268	154	153	153	152	152	151	151	149
			15,000		7.25	3.56	1.49	.50	.10						14	16	19	20	25	29	38	47
			20,000	4.3	9.67	4.75	1.99	.67	.13	93	118	148	207	272	155	154	154	153	153	152	152	151
		“D”	25,000		12.1	5.94	2.49	.84	.16						16	18	21	23	28	32	41	49
			50,000	6.1	24.2	11.9	4.98	1.68	.33	98	124	151	212	276	155	154	154	153	153	152	152	151
			75,000		36.3	17.8	7.47	2.52	.49						22	24	27	30	34	39	48	57
			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

RP

PUMP HYDRAULIC SIZE CHART

105 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		
					2"	$2^1/_2$"	3"	4"	6"	50	75	100	150	200								
105	350	STD	28	1.5	.07	.03	.01	–	–	55	82	118	175		98	95	93	92				
			32		.08	.03	.01	–	–						1.5	4.1	4.9	6.9				
			38	1.5	.09	.04	.01	–	–	57	83	119	176		99	97	95	94	90			
			50		.10	.04	.01	–	–						2.2	4.3	5.9	7.4	11			
			70	1.5	.11	.05	.02	–	–	59	86	121	177	230	101	99	98	97	95	94		
			100		.13	.05	.02	.01	–						2.9	4.9	6.8	8.3	11	15		
			150	1.5	14	.06	.02	.01	–	63	89	123	179	233	103	102	101	100	99	98	97	95
			200		.15	.07	.02	–	–						3.5	5.3	7.2	8.8	12	15	20	27
			300	1.5	.18	.05	.02	.01	–	67	93	125	181	235	104	103	103	102	102	100	100	99
			500		.16	.08	.03	.01	–						3.8	5.6	7.4	8.9	12	15	21	27
			750	1.6	.24	.12	.05	.02	–	70	95	127	183	237	105	105	104	104	103	102	102	101
			1,000		.32	.16	.07	.02	–						3.9	5.7	7.5	9.1	12	15	21	28
			2,000	2.0	.64	.32	.13	.04	.01	75	100	130	185	241	103	103	102	102	101	100	99	98
		"C"	3,500		1.13	.55	.23	.08	.02						4.1	6.2	7.9	9.8	13	16	22	29
			5,000	2.4	1.61	.79	.33	.11	.02	78	104	132	187	243	104	103	103	103	102	101	100	100
			7,500		2.42	1.19	.50	.17	.03						5.2	7.9	8.9	11	14	17	24	30
			10,000	2.8	3.22	1.58	.66	.22	.04	81	106	134	189	245	104	104	104	103	103	102	101	100
			15,000		4.83	2.37	1.00	.34	.07						6.4	9.2	10	12	15	19	25	31
			20,000	3.3	6.45	3.17	1.33	.45	.09	83	108	136	190	247	105	105	104	104	104	103	103	102
		"D"	25,000		8.06	3.96	1.66	.56	.11						7.5	10	11	13	16	20	26	32
			50,000	5.0	16.1	7.92	3.32	1.12	.22	89	113	137	192	250	105	105	104	104	104	103	103	102
			75,000		24.2	11.9	4.98	1.68	.33						11	13	14	16	20	23	29	35
			100,000	6.9	32.2	15.8	6.64	2.24	.43	92	115	140	194	252	105	105	104	104	104	103	103	102
			150,000		48.4	23.8	9.96	3.36	.65						15	16	18	19	22	26	32	37
			200,000	8.7	64.5	31.7	13.3	4.48	.87	94	117	142	195	253	105	105	104	104	104	103	103	102
			250,000		80.6	39.6	16.6	5.60	1.09						19	21	22	24	24	28	34	40

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

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ROTARY GEAR PUMPS

RP

30 GPM
100 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)	2½"	3"	4"	5"	6"	25	50	75	100	150	200	300	400
30	100	STD															
		"D"	200,000	2.7	9.5	4	1.3	0.55	0.3	30	30	30	30	29	29	29	29
			399,999		19	8	2.7	1.1	0.5	3.9	4.5	5.0	5.6	6.6	7.6	8.6	9.6
			400,000	3						30	30	30	30	29	29	29	29
			599,999		NR	12	4	1.6	0.8	4.2	4.8	5.3	5.9	6.8	7.8	8.8	9.8
			600,000	3.7						30	30	30	30	29	29	29	29
			799,999		NR	16	5.4	2.2	1	4.4	5.1	5.6	6.2	7.2	8.1	9.1	10
			800,000	4						30	30	30	30	29	29	29	29
			1M		NR	20	6.7	2.7	1.3	4.6	5.4	5.9	6.5	7.6	8.4	9.4	11

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