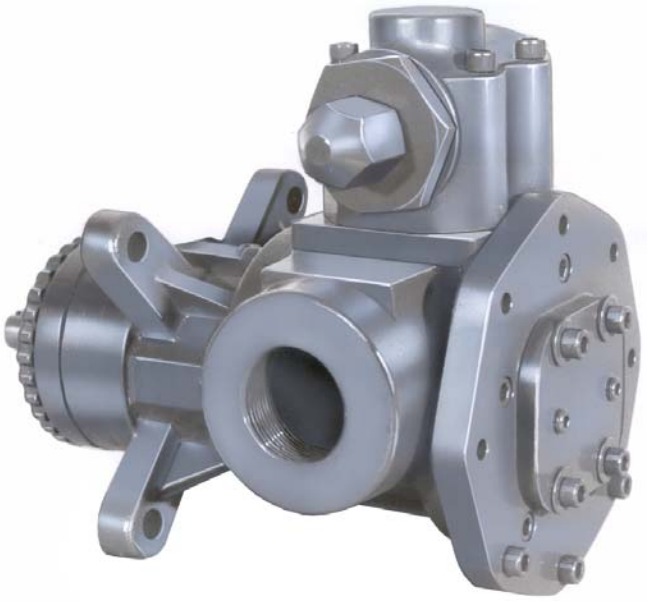
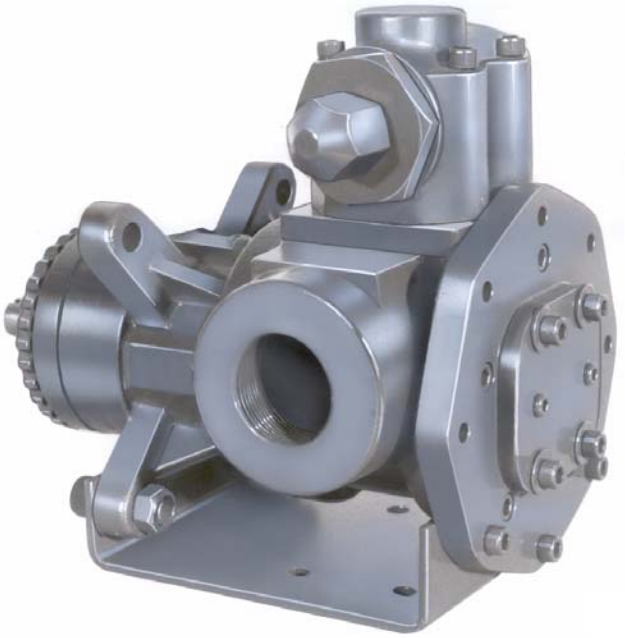
GORMAN-RUPP
ROTARY GEAR PUMPS

GHC SERIES
HEAVY DUTY COMPACT
ROTARY GEAR PUMP



SHOWN AS FLANGE MOUNT



SHOWN WITH FOOT BRACKET

The GHC iron series is designed for applications in the operating ranges noted below. These units are available with head 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.

These units may be foot mounted or, by using a motor adaptor, direct connected to NEMA "C" flange motors.

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

FEATURES

300 PSI CAPABILITY

BALL BEARING THRUST CONTROL

ROTOR END CLEARANCE EXTERNALLY ADJUSTABLE

HIGH STRENGTH, COMPUTER PROFILED GEARING FOR QUIET OPERATION

C-FLANGE MOTOR ADAPTATION

MULTIPLE PORT POSITIONS

OPERATING RANGE

CAPACITY	(GPM):	(3 TO 107)
	[LPM]:	[11 TO 405]
PRESSURE	(PSI) :	[0 TO 300)
	[BAR] :	[0 TO 21]
VISCOSITY	(SSU):	(28 TO 250,000)
	[cSt] :	[1 TO 55,000]
TEMPERATURE	(F) :	(-60° TO 350°)
	[C] :	[-51° TO 177°]

APPLICATIONS

USE WITH ANY CLEAN LIQUID COMPATIBLE WITH CAST IRON

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

SUPERSEDES ALL PREVIOUS ISSUES
©2010 The Gorman-Rupp Company

Standard Construction

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

Standard Models

G H C 1 DC 3 – B

G — GEAR; H — DUTY; C — DESIGN; 1 — PORT SIZE; DC — HYDRAULIC SIZE; 3 — SEAL; B — 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 ③ 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.
GHC 1DC 3-B ● ① / GHC 1DC 4-B ■	9 [28]	1750 [1460]	6 [19]	1150 [960]	100 [7]	150 [10]	300 [21]	● 350 [177] / ■ 225 [107]	29 [13,2]	0.6
GHC 1DE 3-B ● ① / GHC 1DE 4-B ■	11 [35]		7 [22]						30 [13,6]	0.6
GHC 1-1/2 GC 3-B ● / GHC 1-1/2 GC 4-B ■	16 [50]		10 [32]						58 [26,4]	2.9
GHC 2 GC 3-B ● / GHC 2 GC 4-B ■									58 [26,4]	2.9
GHC 1-1/2 GF 3-B ● / GHC 1-1/2 GF 4-B ■	23 [73]		15 [47]						58 [26,4]	2.9
GHC 2 GF 3-B ● / GHC 2 GF 4-B ■									58 [26,4]	2.9
GHC 1-1/2 GH 3-B ● / GHC 1-1/2 GH 4-B ■	31 [98]		20 [63]						58 [26,4]	2.9
GHC 2 GH 3-B ● / GHC 2 GH 4-B ■									58 [26,4]	2.9
GHC 1-1/2 GJ 3-B ● ② / GHC 1-1/2 GJ 4-B ■	38 [120]		25 [79]				200 [14]		58 [26,4]	2.9
GHC 2 GJ 3-B ● ② / GHC 2 GJ 4-B ■									58 [26,4]	2.9
GHC 2 JG 3-B ● / GHC 2 JG 4-B ■	40 [126]	1150 [960]	30 [95]	870 [725]			300 [21]		128 [58,2]	5.3
GHC 2-1/2 JG 3-B ● / GHC 2-1/2 JG 4-B ■									128 [58,2]	5.3
GHC 3 JG 3-B ● / GHC 3 JG 4-B ■									128 [58,2]	5.3

STANDARD MODELS CONTINUED

● MECHANICAL SEAL ■ LIPSEAL

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GHC 1 DC 3-B**

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

② PUMP LIMITED TO 200 PSI MAXIMUM PRESSURE.

③ MAXIMUM SPEED FOR AMMONIA MODELS.

©2010 The Gorman-Rupp Company

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 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.
GHC 2 JJ 3-B ● GHC 2 JJ 4-B ■	56 [177]	1150 [960]	42 [133]	870 [725]	100 [7]	150 [10]	300 [21]	● 350 [177]	132 [60]	5.3
GHC 2-1/2 JJ 3-B ● GHC 2-1/2 JJ 4-B ■									132 [60]	5.3
GHC 3 JJ 3-B ● GHC 3 JJ 4-B ■									132 [60]	5.3
GHC 2 JL 3-B ● GHC 2 JL 4-B ■	77 [243]		58 [183]						132 [60]	5.3
GHC 2-1/2 JL 3-B ● GHC 2-1/2 JL 4-B ■									132 [60]	5.3
GHC 3 JL 3-B ● GHC 3 JL 4-B ■								■ 225 [107]	132 [60]	5.3
GHC 2 JP 3-B ● ① GHC 2 JP 4-B ■	107 [338]		81 [256]				200 [14]		132 [60]	5.3
GHC 2-1/2 JP 3-B ● ① GHC 2-1/2 JP 4-B ■									132 [60]	5.3
GHC 3 JP 3-B ● ① GHC 3 JP 4-B ■									132 [60]	5.3

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GHC 1 DC 3-B**

① PUMP LIMITED TO 200 PSI MAXIMUM PRESSURE.

② MAXIMUM SPEED FOR AMMONIA MODELS.

SUPERSEDES ALL PREVIOUS ISSUES
©2010 The Gorman-Rupp Company

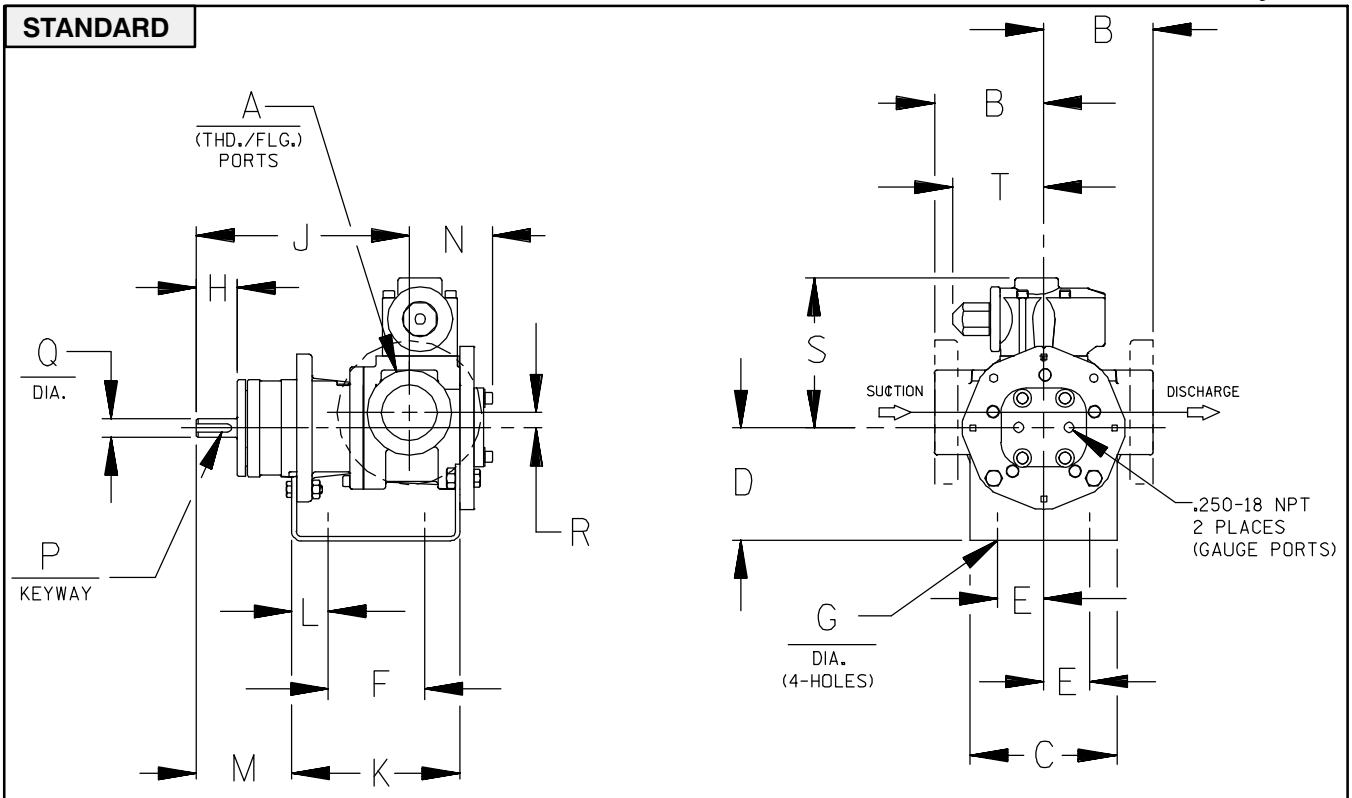
APPLICATION RECOMMENDATIONS:		
APPLICATION	**OPTIONS REQUIRED (Select One from Each Row)**	**OPERATING LIMITATIONS**
AMMONIA	25G, 25H, 25R, 25S, 25T 40N 60K 70E 90A	PRESSURE: 200 PSI MAX. 2/3 RATED SPEED. 4 FEET NPSHr
LP GAS	25G OR 25H 40F OR 40N 70D OR 70E	PRESSURE: 200 PSI MAX. 3 FEET NPSHr

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

SUPERSEDES ALL PREVIOUS ISSUES
©2010 The Gorman-Rupp Company

Basic Pump Dimensions

STANDARD



CAD FILE NO.: 16458

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] † 2.75 [70] ✳ 3.19 [81] † 4.00 [102] ⊢	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] × .75 [19]	.50 [13]	.62 [16]	5.19 [132]	3.58 [91]
GHC G	1-1/2"	3.50 [89] † 3.75 [95] ✳	5.88 [149]	3.50 ✳ [89] 4.50 [114] 5.25 [133]	1.62 [41]	4.00 [102]	.41 [10]	1.62	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]
	2"	4.00 [102] ⊢		6.25 [159]														
GHC J	2"	4.50 [114] †	6.88 [175]	4.50 [114] 5.25 [133] ✳	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]
	2-1/2"	5.00 ✳ [127] † 6.00 [152] ⊢		6.25 [159] 7.00 [178]														
	3"	6.31 [160] † ⊢		8.00 [203]														

✳ STANDARD DIMENSION

† 90° HOUSING

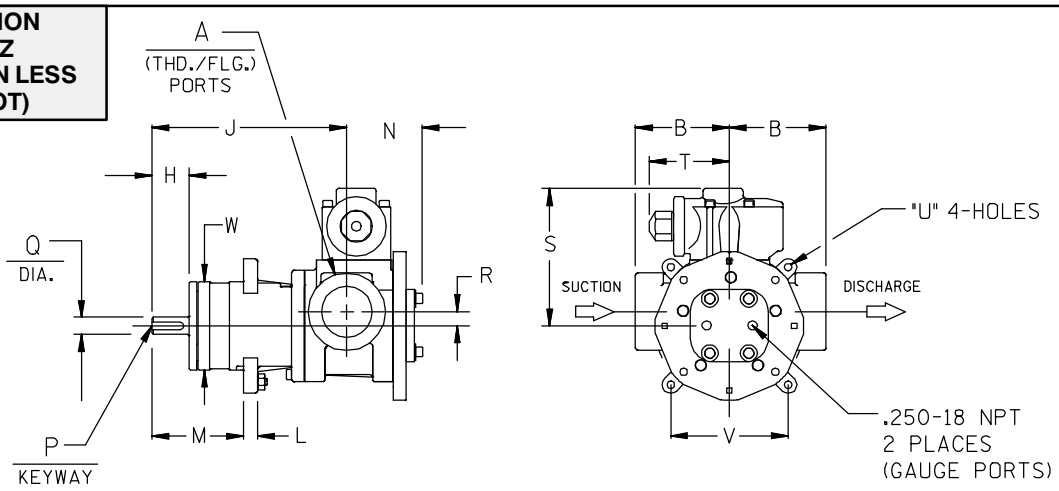
⊢ PORTS ARE COMPATIBLE WITH 125# OR 250# ANSI CAST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

Continued –

SUPERSEDES ALL PREVIOUS ISSUES
©2010 The Gorman-Rupp Company

Basic Pump Dimensions

OPTION 80Z (SHOWN LESS FOOT)



CAD FILE NO.: 16458C

MODEL NUMBERS	PUMP DIMENSIONS - INCHES [MILLIMETERS]														
	A	B	H	J	L	M	N	P	Q	R	S	T	U	V	W
GHC D	1"	2.50 [64] † 2.75 [70] ✳ 3.19 [81] ⊢ 4.00 [102] ⊢	1.16 [30]	6.19 [157]	.44 [11]	2.80 [71]	2.74 [70]	.12 [3] × .75 [19]	.50 [13]	.62 [16]	5.19 [132]	3.58 [91]	.41 [10]	3.00 [76]	2.85 [72]
GHC G	1-1/2"	3.50 [89] †	1.62 [41]	8.50 [216]	.62 [16]	4.00 [102]	3.35 [85]	.19 [5] × 1.25 [32]	.75 [19]	.62 [16]	6.00 [152]	3.62 [92]	.53 [13]	4.75 [121]	3.85 [98]
	2"	3.75 [95] ✳ 4.00 [102] ⊢													
GHC J	2"	4.50 [114] †	2.50 [64]	12.12 [308]	.62 [16]	5.75 [146]	4.66 [118]	.25 [6] × 2.00 [51]	1.00 [25]	1.12 [28]	9.06 [230]	6.75 [171]	.53 [13]	4.75 [121]	4.85 [123]
	2-1/2"	5.00 [127] ✳ 6.00 [152] ⊢													
	3"	6.31 [160] ⊢ †													

✳ STANDARD DIMENSION

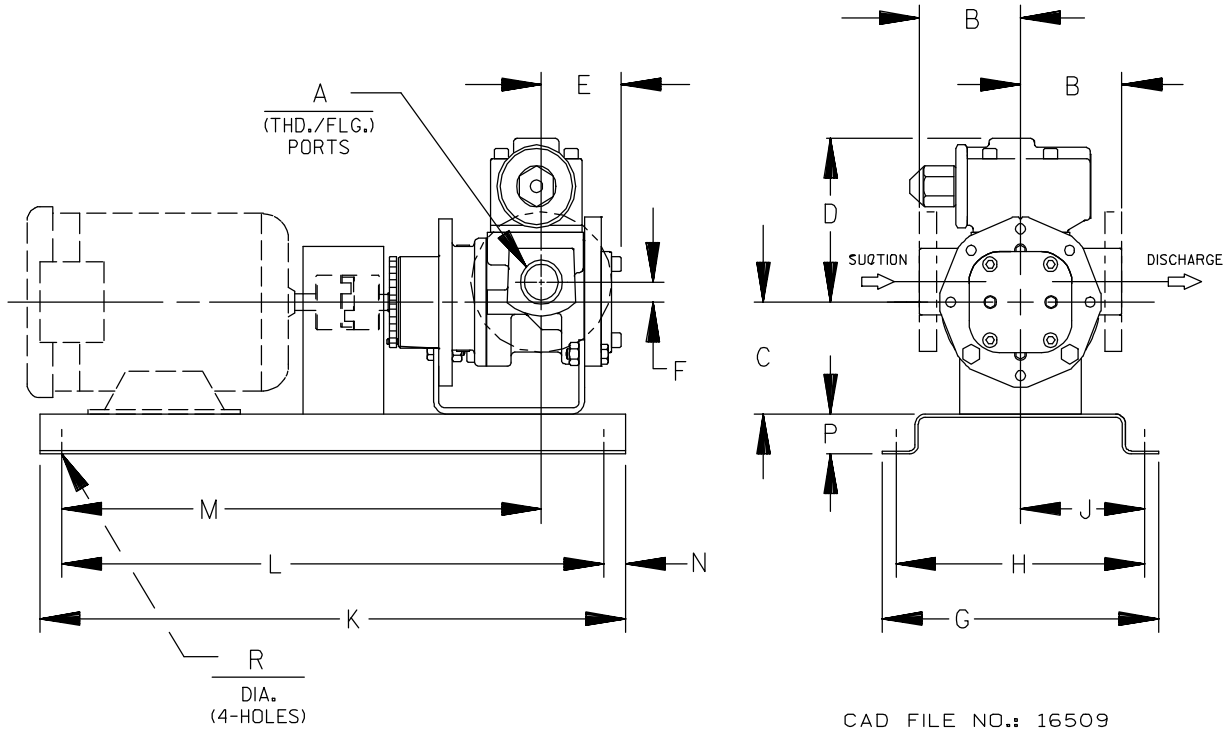
⊢ PORTS ARE COMPATIBLE WITH 125# OR 250# ANSI CAST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

† 90° HOUSING

SUPERSEDES ALL PREVIOUS ISSUES
©2010 The Gorman-Rupp Company

GHC

DIRECT FLEX DRIVE OPTION DIMENSIONS



CAD FILE NO.: 16509

PUMP MODEL	PUMP DIMENSIONS - INCHES[MILLIMETERS]															
	A	MOTOR FRAME	B	C	D	E	F	G	H	J	K	L	M	N	P	R
GHC D	1"	56/56 H	2.50 † [64]	3.50 ✳ [89]	5.19 [132]	2.73 [68]	.62 [16]	10.14 [258]	8.88 [226]	4.44 [113]	25.25 [641]	19.25 [489]	20.50 [521]	3.00 [76]	2.00 [51]	.50 [14]
		143T/145T	2.75 ✳ [70]													
		182T/184T	3.19 ⊢† [81]	4.50 [114]				17.50 [445]	15.50 [394]	7.75 [197]	33.50 [851]	23.50 [597]	26.87 [682]	5.00 [127]	4.00 [102]	
		213T/215T	4.00 ⊢ [82]	5.25 [133]												
GHC G	1- ½"	50/50H	3.50 † [89]	3.50 ✳ [89]	6.00 [152]	3.35 [85]	.62 [16]	10.14 [258]	8.88 [226]	4.44 [113]	25.25 [641]	19.25 [489]	20.38 [518]	3.00 [76]	2.00 [51]	.56 [14]
		182T/184T	3.75 ✳ [95]	4.50 [114]												
		213T/215T	4.00 ⊢ [102]	5.25 [133]						7.75 [197]	33.50 [851]	23.50 [597]	26.75 [679]	5.00 [127]	4.00 [102]	
	2"	254T/256T		6.25 [159]				17.50 [445]	15.50 [394]							
GHC J	2"	182T/184T	4.50 † [114]	4.50 [114]	9.06 [230]	4.66 [118]	1.12 [28]	21.00 [533]	19.00 [483]	9.50 [241]	45.50 [1156]	35.50 [902]	38.38 [975]	5.00 [127]	4.00 [102]	.69 [18]
		213T/215T	5.00 ✳ [127]	5.25 [133] ✳												
	2- ½"	254T/256T		6.25 [159]												
		284T/286T	6.00 ⊢ [152]	7.00 [178]												
	3"	324T/326T	6.31 ⊢ [160]†	8.00 [203]												

✳ STANDARD DIMENSION

† 90° HOUSING

⊢ 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.

NOTE: CONSULT FACTORY FOR;

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

REFERENCE: PUMP FOOT BRACKET OPTIONS

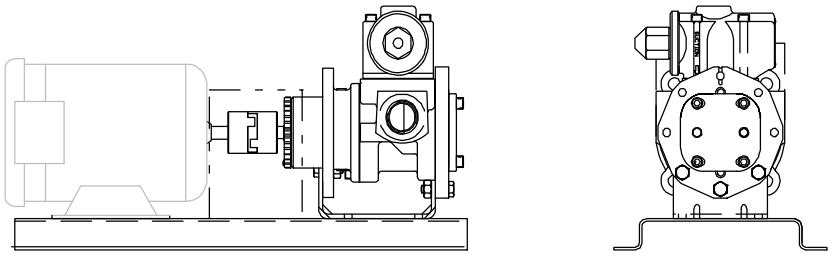
MOTOR FRAME	CENTER HEIGHT	PUMP OPTION
56, 143T, 145T	3.50"	80C (STD. "D/G")
182, 182T, 184, 184T	4.50"	80F
213, 213T, 215, 215T	5.25"	80J (STD. "J")
254T, 254U, 256T, 256U	6.25"	80P
284T, 284U, 286T, 286U	7.00"	80S

©2010 The Gorman-Rupp Company

GHC

DIRECT FLEX DRIVE OPTIONS

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



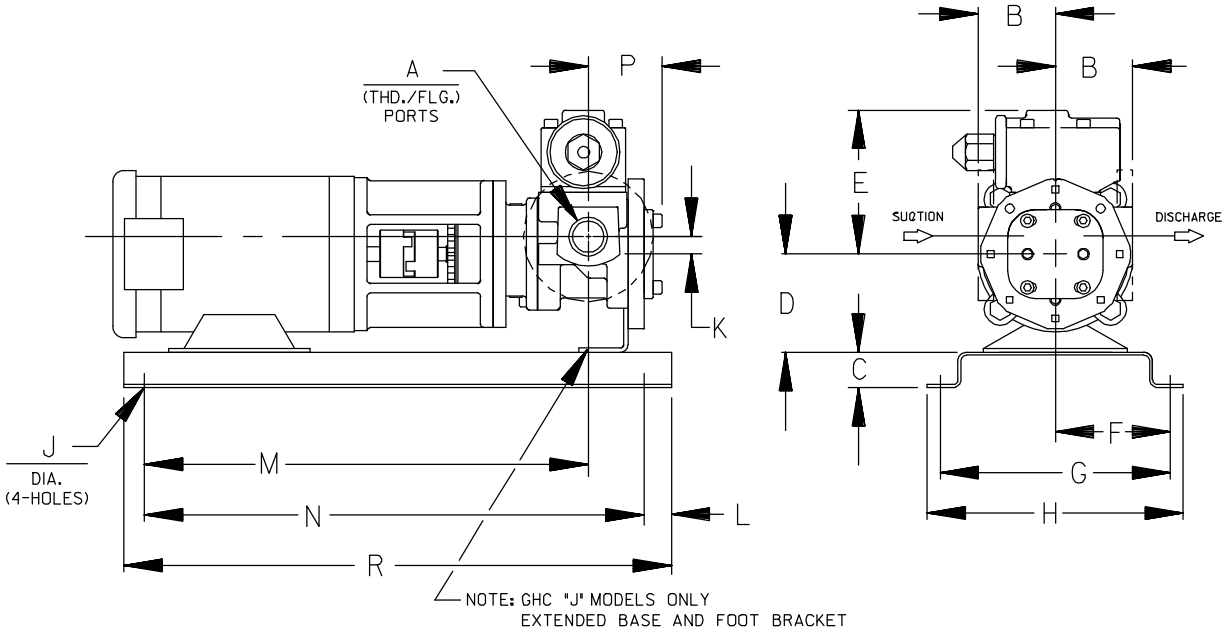
PUMP MODEL NUMBER	60 Hz RPM	50 Hz RPM	FRAME	MTG. FT. OPTION REQ.	DRIVE ASSY NO.
GHC D	3450 1750 1150 850	2900 1450 950 700	56/56H	STD	90351–086
			143T/145T	STD	90351–052
			184	80F	90351–089
			182T/184T	80F	90351–090
			213T/215T	80J	90351–094
GHC G	1750 1150 850	1450 950 700	56/56H	STD	90351–156
			143T/145T	STD	90351–162
			182T/184T	80F	90351–168
			213T/215T	80J	90351–206
			213T/215T	80J	90351–172
			254T	80P	90351–180
GHC J	1150 850	950 700	182T/184T	80F	90351–260
			213T/215T	STD	90351–268
			254T/256T	80P	90351–276
			284T/286T	80S	90351–280

NOTE: CONSULT FACTORY FOR;
HORSEPOWERS & FRAMES NOT SHOWN
DRIP PAN BASES

©2010 The Gorman-Rupp Company

GHC

DIRECT FLEX C-FLANGE DRIVE OPTION DIMENSIONS



CAD FILE NO.: 16652

PUMP MODEL	PUMP DIMENSIONS - INCHES[MILLIMETERS]															
	A	MOTOR FRAME	B	C	D	E	F	G	H	J	K	L	M	N	P	R
GHC D	1"	56C	2.50 † [64]	2.00 [51]	3.50 [89]	5.19 [132]	6.25 [159]	12.50 [318]	14.50 [368]	.56 [14]	.62 [16]	2.00 [51]	17.24 [438]	12.75 [324]	2.73 [69]	16.75 [425]
		143TC/145TC	2.75 ✳ [70]										17.55 [446]			
			3.12 ⊢ † [79]													
		182C/184C	4.00 ⊢ [82]		4.50 [114]								18.80 [478]			
GHC G	1- ½"	56C	3.50 † [89]	2.00 [51]	3.50 [89]	6.00 [152]	6.25 [159]	12.50 [318]	14.50 [368]	.56 [14]	.62 [16]	2.00 [51]	19.42 [493]	12.75 [324]	3.35 [85]	16.75 [425]
		143TC/145TC														
		182TC/184TC	3.75 ✳ [95]		4.50 [114]								19.73 [501]			
	2"	182C/184C														
		213TC/215TC	4.00 ⊢ [102]		5.25 [133]								21.86 [555]			
GHC J	2"	182TC/184TC	4.50 † [114]	4.00 [102]	4.50 [114]	9.06 [230]	9.50 [241]	19.00 [483]	21.00 [533]	.69 [18]	1.12 [28]	5.00 [127]	26.86 [682]	35.50 [902]	4.66 [118]	45.50 [1156]
	2- ½"	213TC/215TC	5.00 ✳ [127]		5.25 [133]								27.75 [705]			
			6.00 ⊢ [152]													
	3"	254TC/256TC	6.31 ⊢ † [160]		6.25 [159]								33.74 [857]			

✳ 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

NOTE: CONSULT FACTORY FOR;

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

REFERENCE: PUMP FOOT BRACKET OPTIONS

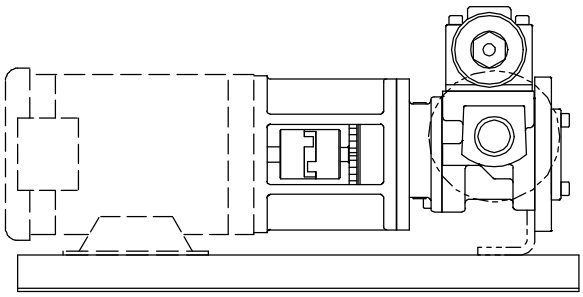
HYDRAULIC SIZE	MOTOR FRAME	PUMP OPTION
D	56C, 143TC, 145TC, 182C, 184C	80Y
G	56C, 143TC, 145TC, 182C, 184C	80Y
J	213TC, 215TC 254TC, 256TC	80X 80W

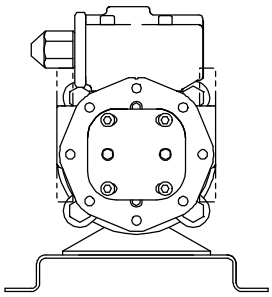
©2010 The Gorman-Rupp Company

GHC

DIRECT FLEX C-FLANGE DRIVE OPTIONS

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





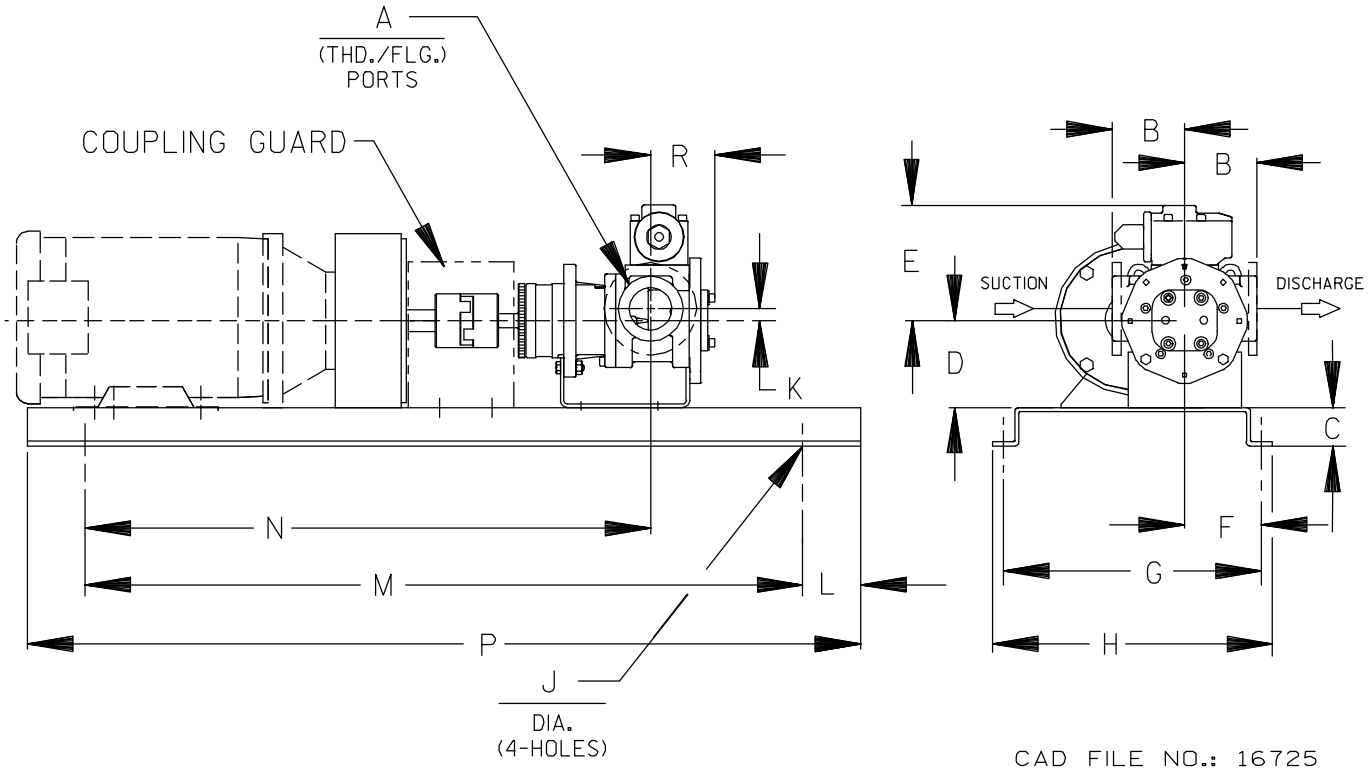
PUMP MODEL NUMBER	60Hz RPM	FRAME	MTG. FT. OPTION REQ.	DRIVE ASSY NO.
GHC D	3450 1750 1150 850	56C	80Y	90351–540
		143TC	80Y	90351–541
		145TC	80Y	90351–544
		184C	80Y	90351–590
GHC G	1750 1150 850	56C	80Y	90351–656
		143TC	80Y	90351–659
		145TC	80Y	90351–660
		184C	80Y	90351–668
		182TC	80X	90351–672
		184TC	80X	90351–674
GHC J	1150 850	213TC	80X	90351–764
		215TC	80X	90351–768
		254TC	80W	90351–772
		256TC	80W	90351–776
		184TC	80X	90351–814

NOTE: CONSULT FACTORY FOR;
HORSEPOWERS & FRAMES NOT SHOWN
DRIP PAN BASES

©2010 The Gorman-Rupp Company

GHC

GRR REDUCER C-FLANGE FLEX DRIVE OPTION DIMENSIONS



CAD FILE NO.: 16725

PUMP MODEL	PUMP DIMENSIONS - INCHES[MILLIMETERS]															
	A	MOTOR FRAME	B	C	D	E	F	G	H	J	K	L	M	N	P	R
GHC D	1"	56C	2.50 [64] †	2.00 [51]	3.50 [89] ✳	5.19 [1321]	4.41 [112]	13.00 [330]	15.00 [381]	.56 [14]	.62 [16]	3.00 [76]	25.50 [648]	20.35 [517]	31.50 [800]	2.66 [68]
		143TC/145TC	2.75 [70] ✳													
		182TC/184TC	3.19 [81] ⊢ †		4.50 [114]		5.50 [140]	14.63 [372]	16.63 [422]	.56 [14]	.62 [16]	3.00 [76]	37.25 [946]	27.05 [687]	43.25 [1099]	
		213TC/215TC	4.00 [82] ⊢													
GHC G	1- ½"	56C	3.50 [89] †	2.00 [51]	3.50 [89] ✳	6.00 [152]	4.41 [112]	13.00 [330]	15.00 [381]	.56 [14]	.62 [16]	3.00 [76]	25.50 [648]	22.66 [576]	31.50 [800]	3.27 [83]
		143TC/145TC														
		182TC/184TC	3.75 [95] ✳		4.50 [114]											
	2"	213TC/215TC	4.00 [102] ⊢		3.25 [83]		5.50 [140]	14.63 [372]	16.63 [422]	.56 [14]	.62 [16]	3.00 [76]	37.25 [946]	29.35 [735]	43.25 [1099]	
GHC J	2"	182TC/184TC	4.50 [114] †	2.00 [51]	4.50 [114]	9.06 [230]	5.50 [140]	14.63 [372]	16.63 [422]	.69 [18]	1.12 [28]	3.00 [76]	37.25 [946]	32.42 [823]	43.25 [1099]	4.56 [116]
	2- ½"		5.00 [127] ✳													
	3"	213TC/215TC	6.00 [152] ⊢		5.25 [133] ✳											
			6.31 [160] ⊢ †													

✳ 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.

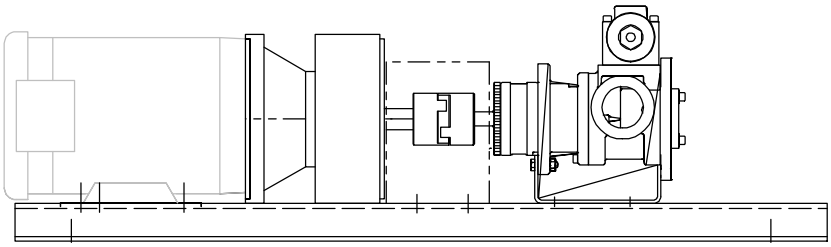
† 90° HOUSING

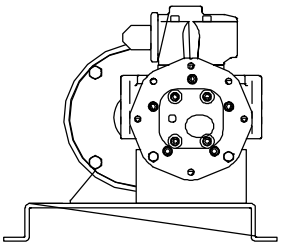
© 2010 The Gorman-Rupp Company

GHC

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

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





PUMP MODEL	RPM @ 1750	RPM @ 1150	REDUCER ① RATIO	REDUCER ① MAX HP @ 1750	REDUCER ① MAX HP @ 1150	FRAME	MTG.FT. OPTION REQ.	DRIVE ASSY NO.
GHC D	875	575	2.00:1	6.00	3.96	56C	STD	90353–510
				6.00	3.96	143TC/145TC	STD	90353–516
				6.00	3.96	182C/184C	80F	90353–519
				20.00	13.2	182TC/184TC	80F	90353–526
	580	383	3.00:1	4.21	2.78	56C	STD	90353–530
				8.10	5.35	143TC/145TC	STD	90353–536
				8.10	5.35	182C/184C	80F	90353–539
				12.98	8.57	182TC/184TC	80F	90353–546
	440	288	4.00:1	3.63	2.39	56C	STD	90353–550
				5.90	3.89	143TC/145TC	STD	90353–556
				5.90	3.89	182C/184C	80F	90353–564
				11.35	7.49	56C	STD	90353–568
	350	230	5.00:1	3.00	1.98	143TC/145TC	STD	90353–570
				3.00	1.98	182C/182C	80F	90353–573
				5.90	3.89	182TC/184TC	80F	90353–579
				10.07	6.65	182TC/184TC	80F	90353–586

(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.**

NOTE: CONSULT FACTORY FOR;
HORSEPOWERS & FRAMES NOT SHOWN
DRIP PAN BASES

©2010 The Gorman-Rupp Company

GHC

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

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

PUMP MODEL	RPM @ 1750	RPM @ 1150	REDUCER (1) RATIO	REDUCER (1) MAX HP @ 1750	REDUCER (1) MAX HP @ 1150	FRAME	MTG.FT. OPTION REQ.	DRIVE ASSY NO.
GHC G	875	575	2.00:1	5.65	3.73	56C	STD	90353–610
				11.70	7.72	143TC/145TC	STD	90353–619
				11.70	7.72	182C/184C	80F	90353–622
				13.01	8.59	182TC/184TC	80F	90353–625
				13.01	8.59	213TC/215TC	80J	90353–627
	580	383	3.00:1	3.76	2.48	56C	STD	90353–630
				8.10	5.35	143TC/145TC	STD	90353–633
				8.10	5.35	182C/184C	80F	90353–642
				10.62	7.01	182TC/184TC	80F	90353–646
				10.62	7.01	213TC/215TC	80J	90353–648
	440	288	4.00:1	2.82	1.86	56C	STD	90353–660
				5.90	3.89	143TC/145TC	STD	90353–663
				5.90	3.89	182C/184C	80F	90353–672
				7.24	4.78	182TC/184TC	80F	90353–675
				7.24	4.78	213TC	80J	90353–677
	350	230	5.00:1	2.26	1.49	56C	STD	90353–690
				5.20	3.43	143TC/145TC	STD	90353–699
				5.20	3.43	182C/184C	80F	90353–702
				5.98	3.95	182TC/184TC	80F	90353–706
				5.98	3.95	213TC	80J	90353–708
GHC J	875	575	2.00:1	13.01	8.59	182TC/184TC	80F	90353–720
				13.01	8.59	213TC/215TC	80J	90353–724
				36.29	23.95	254TC/256TC	80P	90353–728
				36.29	23.95	284TC/286TC	80P	90353–732
	580	383	3.00:1	10.62	7.01	182TC/184TC	80F	90353–735
				10.62	7.01	213TC/215TC	80J	90353–739
	555	365	3.15:1	25.76	17.00	254TC/256TC	80P	90353–743
				25.76	17.00	284TC	80P	90353–746
				42.96	28.35	286TC	80P	90353–747
	440	288	4.00:1	7.24	4.78	182TC/184TC	80F	90353–750
				7.24	4.78	213TC	80J	90353–754
	350	230	5.00:1	5.98	3.95	182TC/184TC	80F	90353–765
				5.98	3.95	213TC	80J	90353–769
				16.01	10.57	215TC	80P	90353–774
				16.01	10.57	254TC	80P	90353–778
				30.49	20.12	356TC	80P	90353–780

(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.**

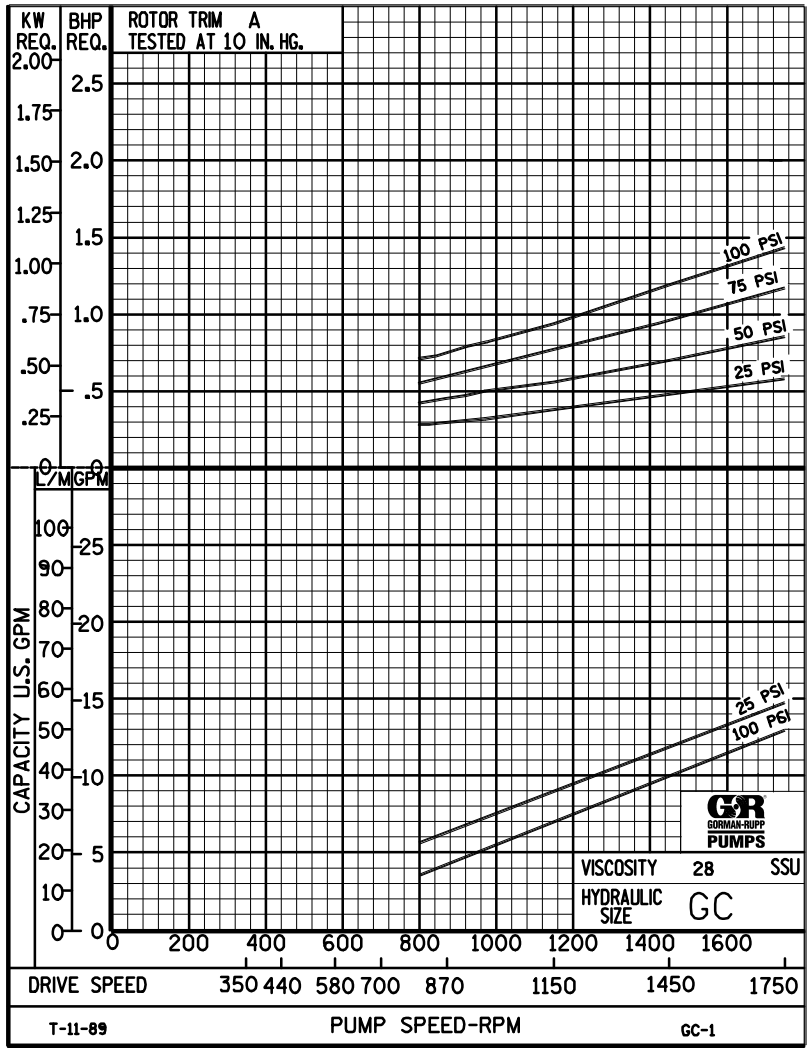
NOTE: CONSULT FACTORY FOR;
HORSEPOWERS & FRAMES NOT SHOWN
DRIP PAN BASES

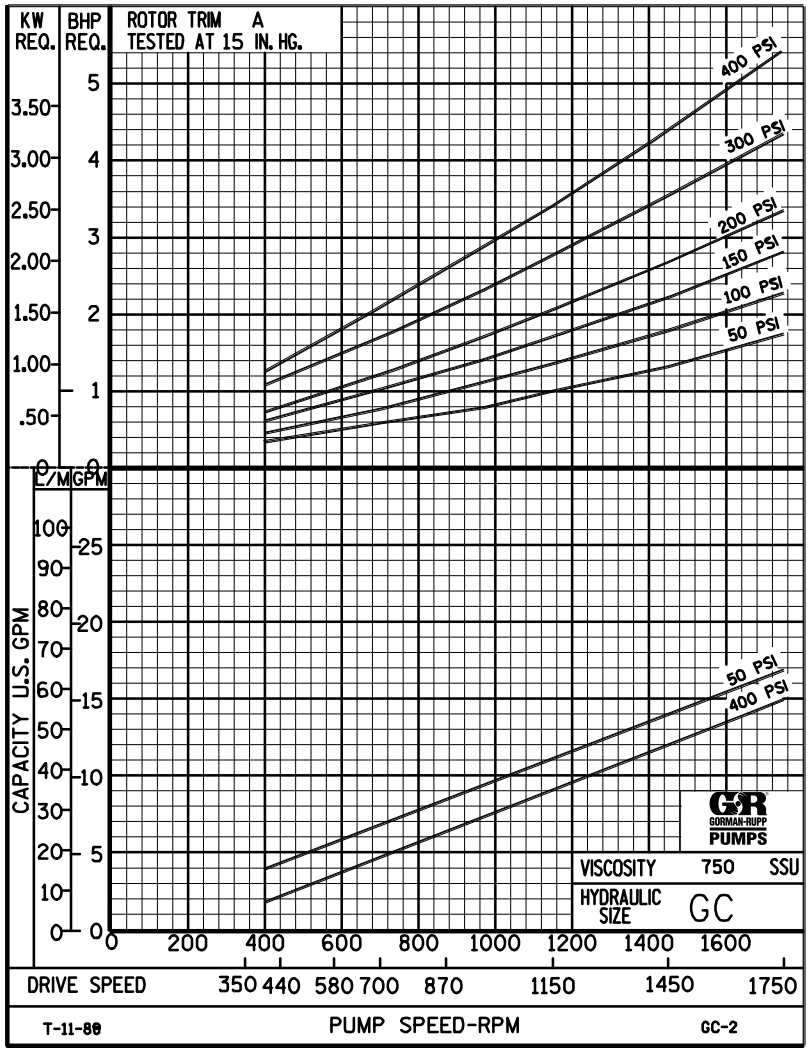
©2010 The Gorman-Rupp Company

PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

GC Hydraulic Size



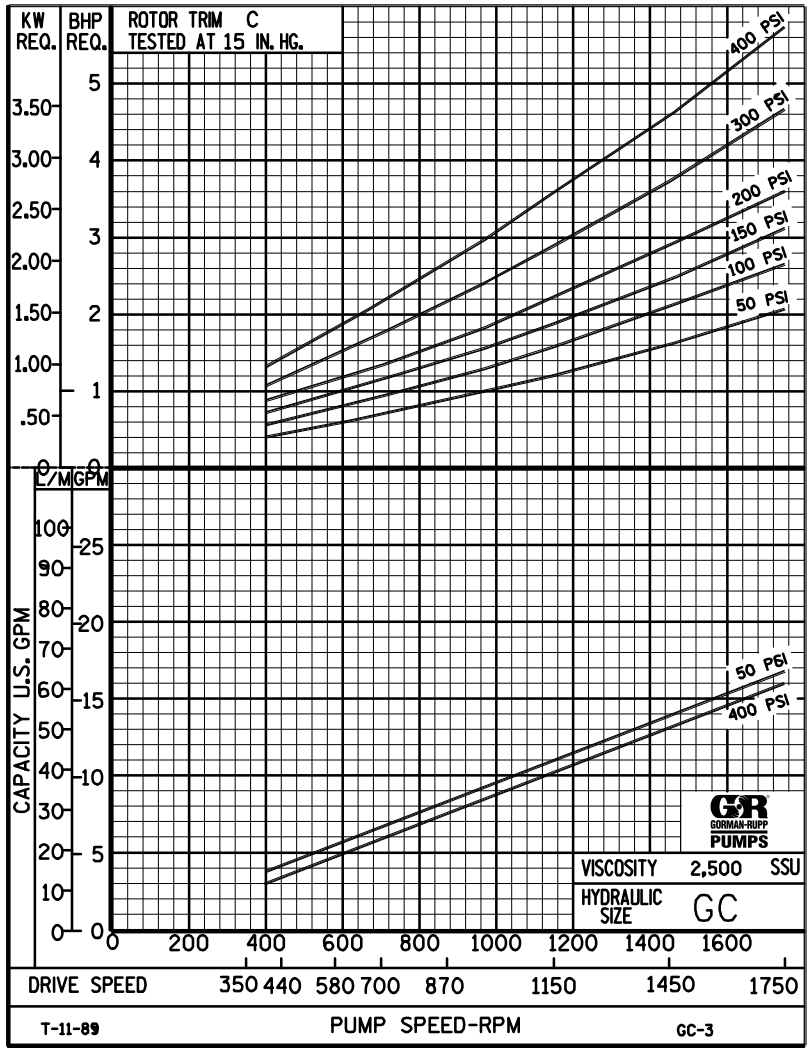


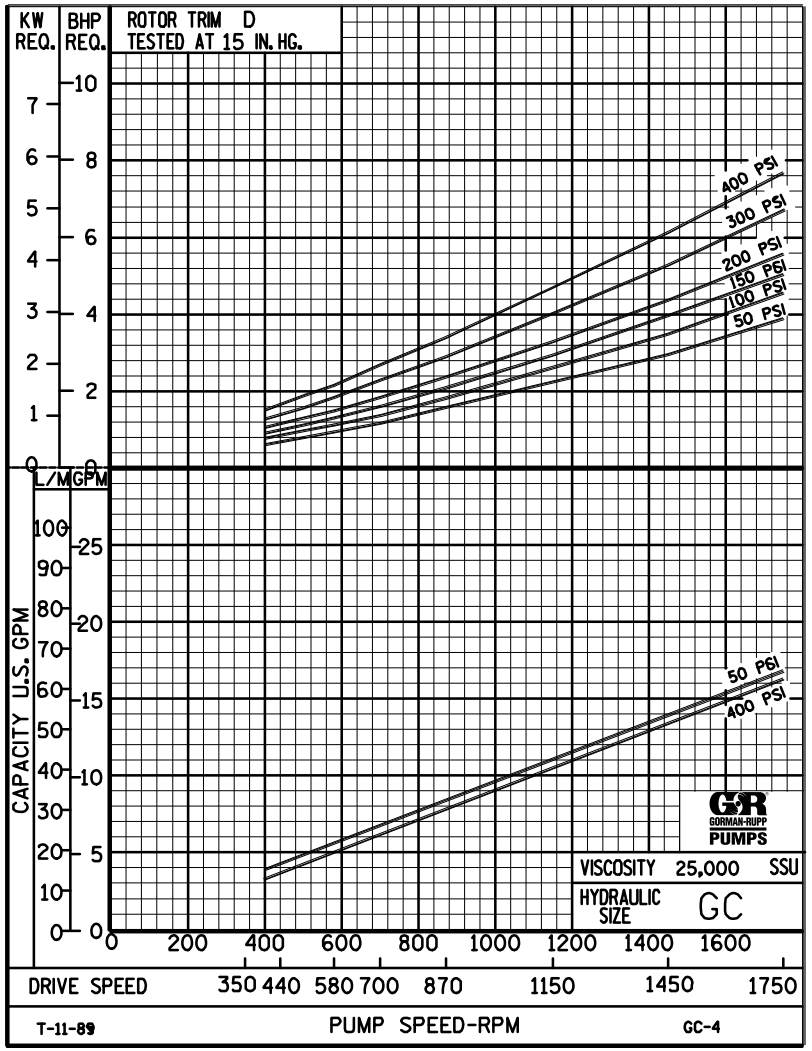
©2010 The Gorman-Rupp Company

PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

GC Hydraulic Size





©2010 The Gorman-Rupp Company

GORMAN-RUPP
ROTARY GEAR PUMPS

GC

PUMP HYDRAULIC SIZE CHART

16 GPM
1750 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 ¾"	1"	1¼"	1½"	2"	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		
16	1750	STD	28	3.6	.01	.01	.01	.01	.01	60	87	112			14.0	13.0	13.0	12.0				
			32		.19	.06	.02	.01	.01						.58	.85	1.2	1.4				
			38	3.6	.24	.08	.02	.01	.01	60	87	112	162		15.0	14.0	14.0	13.0	12.0			
			50		.30	.10	.03	.01	.01						.88	1.0	1.3	1.6	2.2			
			70	3.6	.35	.11	.03	.02	.01	61	88	114	164	216	16.0	15.0	15.0	14.0	14.0	13.0		
			100		.40	.13	.03	.02	.01						1.1	1.2	1.5	1.8	2.3	2.8		
			150	3.6	.45	.16	.04	.02	.01	61	88	114	164	218	16.0	16.0	16.0	15.0	15.0	14.0	14.0	12.0
			200		.50	.19	.06	.04	.01						1.2	1.4	1.7	2.0	2.5	3.1	4.1	5.2
			300	3.6	.62	.24	.08	.04	.02	61	88	116	166	220	16.0	16.0	16.0	16.0	15.0	15.0	15.0	13.0
			500		1.02	.39	.13	.07	.03						1.4	1.6	2.0	2.2	2.8	3.3	4.2	5.4
			750	3.6	1.53	.59	.20	.11	.04	61	88	116	166	223	17.0	17.0	16.0	16.0	16.0	16.0	15.0	15.0
			1,000		2.04	.78	.26	.14	.05						1.5	1.8	2.0	2.3	2.8	3.3	4.3	5.5
		"C"	2,000	4.5	4.08	1.56	.52	.28	.11	63	91	116	166	223	17.0	16.0	16.0	16.0	16.0	16.0	16.0	15.0
			3,500		7.14	2.72	.91	.49	.18						1.8	2.1	2.4	2.7	3.1	3.6	4.7	5.7
			5,000	5.0	10.2	3.89	1.30	.70	.26	66	93	118	168	225	17.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
			7,500		15.3	5.83	1.95	1.05	.39						2.2	2.6	3.0	3.2	3.7	4.1	5.2	6.2
			10,000	5.7	20.4	7.77	2.60	1.40	.52	69	95	120	170	225	17.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
			15,000		30.6	11.7	3.89	2.10	.78						2.8	3.2	3.5	3.8	4.3	4.8	5.9	6.9
			20,000	6.1	40.8	15.6	5.19	2.80	1.03	73	98	123	173	225	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
		"D"	25,000		51.0	19.4	6.49	3.50	1.29						3.4	3.9	4.2	4.6	5.0	5.6	6.6	7.7
			50,000																			
			75,000																			
			100,000																			
			150,000																			
			200,000																			
			250,000																			

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

©2010 The Gorman-Rupp Company

GORMAN-RUPP
ROTARY GEAR PUMPS

GC

PUMP HYDRAULIC SIZE CHART

10 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 ¾"	1"	1¼"	1½"	2"	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		
10	1150	STD	28	2.0	.01	.01	.01	.01	.01	56	81	106			9.0	8.0	7.0	6.0				
			32		.08	.03	.01	.01	.01						.38	.56	.77	.94				
			38	2.0	.11	.04	.01	.01	.01	56	81	106	157		9.5	8.5	8.5	7.5	6.0			
			50		.13	.04	.01	.01	.01						.43	.62	.82	.99	1.6			
			70	2.0	.14	.05	.02	.01	.01	56	81	107	158	209	10.0	9.5	9.5	9.0	8.0	7.5		
			100		.14	.05	.02	.01	.01						.54	.78	1.0	1.2	1.7	1.9		
			150	2.0	.17	.07	.03	.02	.01	57	82	108	158	211	10.0	10.0	10.0	10.0	9.5	8.5	7.5	6.0
			200		.30	.12	.04	.02	.01						.58	.82	1.0	1.2	1.7	2.0	2.7	3.4
			300	2.0	.39	.15	.05	.02	.01	57	82	109	159	212	11.0	10.0	10.0	10.0	10.0	10.0	9.0	7.5
			500		.64	.24	.08	.05	.02						.66	.95	1.2	1.4	1.8	2.0	2.8	3.5
			750	2.0	.96	.36	.12	.07	.03	57	82	111	161	214	11.0	11.0	11.0	11.0	10.0	10.0	9.5	9.0
			1,000		1.28	.49	.16	.09	.03						.73	1.0	1.2	1.4	1.8	2.1	2.9	3.5
		"C"	2,000	2.5	2.55	.97	.33	.18	.07	58	85	112	162	214	11.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0
			3,500		4.46	1.70	.57	.31	.12						.91	1.3	1.5	1.7	2.0	2.3	3.0	3.7
			5,000	2.9	6.38	2.43	.81	.44	.16	60	85	112	162	214	11.0	11.0	11.0	11.0	11.0	10.0	10.0	10.0
			7,500		9.57	3.64	1.22	.66	.24						1.1	1.5	1.8	1.9	2.4	2.6	3.3	3.9
			10,000	3.2	12.8	4.86	1.62	.88	.32	63	88	114	166	216	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0
			15,000		19.2	7.29	2.43	1.31	.49						1.3	1.9	2.1	2.2	2.7	2.9	3.6	4.3
			20,000	3.5	25.5	9.71	3.24	1.75	.65	66	91	116	168	218	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0
		"D"	25,000		31.9	12.2	4.05	2.19	.81						1.7	2.3	2.4	2.6	2.9	3.3	4.0	4.7
			50,000	5.4	63.8	24.3	8.11	4.38	1.61	69	94	122	172	224	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0
			75,000		95.7	36.4	12.2	6.56	2.42						2.6	3.6	3.8	4.0	4.5	5.2	6.0	6.8
			100,000																			
			150,000																			
			200,000																			
			250,000																			

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

©2010 The Gorman-Rupp Company

GORMAN-RUPP ROTARY GEAR PUMPS

GC

PUMP HYDRAULIC SIZE CHART

8 GPM
870 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 ¾"	1"	1¼"	1½"	2"	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		
8	870	STD	28	1.4	.01	.01	.01	.01	.01	56	81	106			6.5	5.5	4.5	4.0				
			32		.06	.02	.01	.01	.01						.28	.45	.61	.77				
			38	1.4	.07	.03	.01	.01	.01	56	81	106	157		7.0	6.5	6.0	5.5	4.5			
			50		.09	.03	.01	.01	.01						.39	.49	.65	.79	1.2			
			70	1.4	.10	.04	.01	.01	.01	56	81	107	158	209	7.5	7.5	7.0	6.5	6.0	5.5		
			100		.10	.04	.01	.01	.01						.42	.53	.71	.83	1.2	1.4		
			150	1.4	.15	.05	.02	.01	.01	57	82	108	158	211	8.0	8.0	7.5	7.5	7.5	7.0	6.0	4.5
			200		.24	.08	.03	.02	.01						.44	.55	.74	.90	1.2	1.5	2.0	2.6
			300	1.4	.31	.12	.04	.02	.01	57	82	109	159	212	8.5	8.0	8.0	8.0	7.5	7.0	6.5	5.5
			500		.51	.19	.07	.04	.01						.52	.64	.80	.97	1.3	1.5	2.1	2.6
			750	1.4	.77	.29	.10	.05	.02	57	82	111	161	214	8.5	8.5	8.0	8.0	8.0	8.0	7.0	6.5
			1,000		1.02	.39	.14	.07	.03						.62	.71	.86	1.0	1.3	1.5	2.1	2.6
		"C"	2,000	1.8	2.04	.78	.26	.14	.05	58	85	112	162	214	8.5	8.0	8.0	8.0	8.0	8.0	7.5	7.5
			3,500		3.57	1.36	.46	.25	.09						.76	.90	1.0	1.4	1.5	1.6	2.2	2.7
			5,000	2.1	5.01	1.94	.65	.35	.13	60	85	112	162	214	8.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5
			7,500		7.65	2.91	.97	.53	.19						.92	1.2	1.3	1.4	1.6	1.9	2.3	2.9
			10,000	2.4	10.2	3.88	1.30	.70	.26	63	88	114	166	216	8.5	8.0	8.0	8.0	8.0	8.0	8.0	7.5
			15,000		15.3	5.83	1.95	1.05	.39						1.1	1.4	1.5	1.6	1.8	2.1	2.6	3.2
			20,000	2.7	20.4	7.77	2.59	1.40	.52	66	91	116	168	218	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
		"D"	25,000		25.5	9.71	3.24	1.75	.65						1.2	1.6	1.7	1.8	2.1	2.3	2.9	3.4
			50,000	4.3	51.1	19.4	6.50	3.50	1.29	68	93	120	170	222	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
			75,000		76.5	29.1	9.73	5.25	1.93						1.8	2.5	2.6	2.7	3.0	3.3	3.8	4.3
			100,000	6.2	102	38.9	13.0	7.00	2.58	70	95	122	172	224	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
			150,000		153	58.0	19.5	10.5	3.87						2.3	3.1	3.3	3.4	3.6	3.9	4.4	5.0
			200,000																			
			250,000																			

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

©2010 The Gorman-Rupp Company

GORMAN-RUPP
ROTARY GEAR PUMPS

GC

PUMP HYDRAULIC SIZE CHART

5 GPM
580 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 ¾"	1"	1¼"	1½"	2"	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		
5	580	STD	28	1.0	.01	.01	.01	.01	.01	55	80	105			4.0	3.5	3.0	2.5				
			32		.03	.01	.01	.01	.01						.19	.29	.40	.50				
			38	1.0	.04	.01	.01	.01	.01	55	80	105	156		4.5	4.0	3.5	3.0	2.5			
			50		.05	.02	.01	.01	.01						.21	.32	.45	.52	.76			
			70	1.0	.06	.02	.01	.01	.01	55	80	106	157	208	5.0	4.5	4.0	4.0	3.5	3.5		
			100		.07	.03	.01	.01	.01						.25	.34	.46	.54	.78	.93		
			150	1.0	.09	.04	.01	.01	.01	56	81	107	157	210	5.0	5.0	4.5	4.5	4.5	4.0	3.5	3.0
			200		.17	.06	.02	.01	.01						.28	.36	.48	.59	.78	.95	1.3	1.3
			300	1.0	.22	.08	.03	.02	.01	56	81	108	158	211	5.5	5.0	5.0	5.0	4.5	4.5	4.0	3.5
			500		.35	.14	.05	.03	.01						.34	.42	.52	.63	.80	.97	1.3	1.6
			750	1.0	.53	.20	.07	.04	.02	56	81	110	160	213	5.5	5.5	5.5	5.5	5.0	5.0	4.5	4.0
			1,000		.70	.27	.09	.05	.02						.41	.46	.56	.65	.82	.99	1.4	1.7
		"C"	2,000	1.3	1.40	.54	.18	.10	.04	57	84	111	161	213	5.5	5.5	5.5	5.5	5.0	5.0	5.0	4.5
			3,500		2.46	.94	.31	.17	.06						.49	.59	.67	.77	.92	1.1	1.4	1.7
			5,000	1.6	3.51	1.34	.45	.24	.09	59	84	111	161	213	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0
			7,500		5.26	2.00	.67	.36	.13						.61	.75	.84	.93	1.1	1.2	1.5	1.9
			10,000	1.9	7.01	2.67	.89	.48	.18	62	87	113	165	215	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0
			15,000		10.5	4.00	1.34	.72	.27						.70	.89	.96	1.1	1.2	1.4	1.7	2.1
			20,000	2.1	14.1	5.34	1.78	.96	.36	65	90	115	167	217	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0
		"D"	25,000		17.6	6.68	2.23	1.20	.44						.75	.94	1.0	1.1	1.3	1.5	1.9	2.2
			50,000	3.6	35.0	13.4	4.46	2.41	.89	67	92	119	169	221	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0
			75,000		52.6	20.0	6.69	3.61	1.33						1.3	1.6	1.7	1.7	1.9	2.1	2.4	2.8
			100,000	5.4	70.2	26.7	8.92	4.81	1.77	69	94	121	171	223	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0
			150,000		105	40.1	13.4	7.22	2.66						1.6	2.1	2.1	2.2	2.4	2.5	2.8	3.2
			200,000	8.6	140	53.4	17.8	9.63	3.54	75	100	129	179	235	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0
			250,000		175	66.8	22.3	12.1	4.43						1.9	2.5	2.5	2.6	2.8	2.9	3.2	3.6

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

©2010 The Gorman-Rupp Company