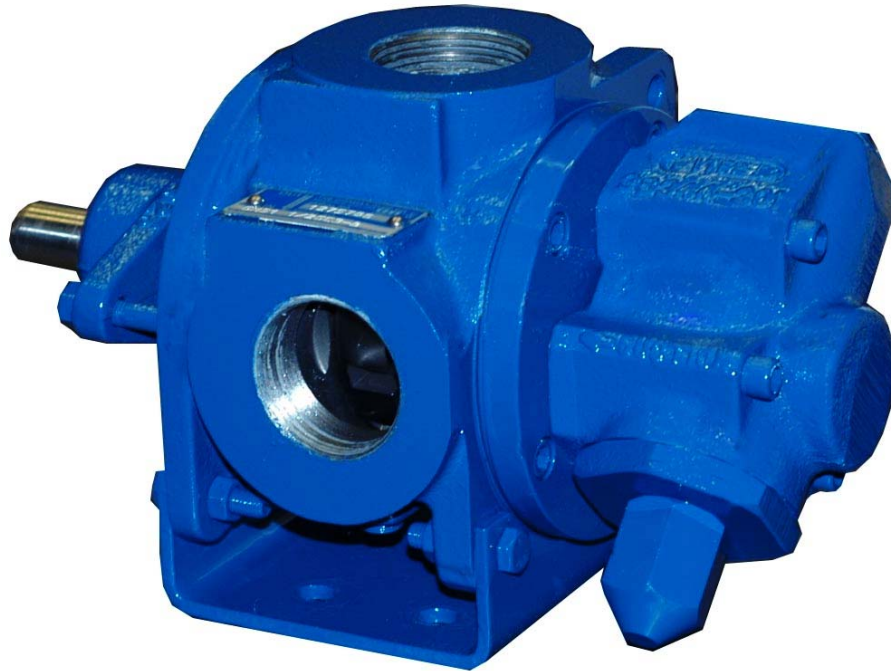


GMS SERIES
MEDIUM DUTY STANDARD;
D, G, J, N & R SIZE
ROTARY GEAR PUMP



The GMS series is designed for applications in the operating ranges noted below. These units are available with head and backhead jackets (R size only) for temperature control, carbon graphite bushings for low viscosity liquids, silicon carbide bushings for wear resistance, and carbide, positive drive or packing seals for viscous sealing.

For continuous service, or for handling more viscous liquids, see the heavy duty GHS section.

For belt driven applications, select an extended shaft option and consult factory for availability of drive assembly. A pedestal bearing is required for belt driven applications.

FEATURES

150 PSI CAPABILITY
SELF-CONTAINED, NO EXTERNAL BEARING REQUIRED (UNLESS BELT DRIVEN)
HIGH STRENGTH, COMPUTER PROFILED GEARING FOR QUIET OPERATION
THRUST CONTROLLED PUMP ELEMENTS
EXCEPTIONAL SEAL VERSATILITY

OPERATING RANGE

CAPACITY (GPM) : (3 TO 265)
 [LPM] : [11 TO 930]
 PRESSURE (PSI) : (0 TO 150)
 [BAR] : [0 TO 10.3]
 VISCOSITY (SSU) : (28 TO 250,000)
 [cSt] : [1 TO 55,000]
 TEMPERATURE (F) : (-60° TO 450°)
 [C] : [-51° TO 230°]

APPLICATIONS

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

EXT.	ROTOR & IDLER	HOUSING PORTS	BUSHINGS	IDLER PIN	SHAFT	SHAFT SEALING		ROT.	INTERNAL RELIEF VALVE	
						MECH. SEAL ●	PACKING ■		MATERIAL	SETTING
CAST IRON	HIGH STRENGTH IRON	90° TAPPED	BRONZE	HARDENED STEEL		FLUORO ^① CARBON, NI-RESIST	PTFE, ^② GRAPHITE	C.W.	DUCTILE IRON	75 PSI [5 BAR]

Standard Models

G M S 1 DC 3 - B
 GEAR DUTY DESIGN PORT SIZE HYDRAULIC SEAL STYLE

MODEL NUMBER	NOM. CAPACITY - SPEED				MAXIMUM				SHIPPING DATA	
	MAXIMUM		ALTERNATIVE		DIFFERENTIAL PRESSURE-PSI [BAR]			TEMP.	Weight	Volume
	GPM	RPM	GPM	RPM	BELOW	38 TO	100 TO	°F	LBS	CU. FT.
	[LPM]	60 Hz [50 Hz]	[LPM]	60 Hz [50 Hz]	38 SSU [4 cSt]	100 SSU [21 cSt]	250,000 SSU [55,000 cSt]	[°C]	[KG]	FT.
GMS 1DC 3-B ● GMS 1DC 4-B ■	9 [28]		6 [19]					● 400 [205] ■ 450 [230]	19 [8,6]	0.6
GMS 1DE 3-B ● GMS 1DE 4-B ■	11 [35]		7 [22]						19 [8,6]	0.6
GMS 1-1/2 GC 3-B ● GMS 1-1/2 GC 4-B ■	16 [50]		10 [32]						32 [14,5]	2.9
GMS 2 GC 3-B ● GMS 2 GC 4-B ■									32 [14,5]	2.9
GMS 1-1/2 GF 3-B ● GMS 1-1/2 GF 4-B ■	23 [73]	1750 [1460]	15 [47]	1150 [960]					32 [14,5]	2.9
GMS 2 GF 3-B ● GMS 2 GF 4-B ■					50 [3]	75 [5]	150 [10.3]		32 [14,5]	2.9
GMS 1-1/2 GH 3-B ● GMS 1-1/2 GH 4-B ■	31 [98]		20 [63]						32 [14,5]	2.9
GMS 2 GH 3-B ● GMS 2 GH 4-B ■									32 [14,5]	2.9
GMS 1-1/2 GJ 3-B ● GMS 1-1/2 GJ 4-B ■	38 [120]		25 [79]						32 [14,5]	2.9
GMS 2 GJ 3-B ● GMS 2 GJ 4-B ■									32 [14,5]	2.9
GMS 2 JG 3-B ● GMS 2 JG 4-B ■									83 [37,6]	2.9
GMS 2-1/2 JG 3-B ● GMS 2-1/2 JG 4-B ■	33 [126]	960 [960]	30 [95]	870 [725]					83 [37,6]	2.9
GMS 3 JG 3-B ● GMS 3 JG 4-B ■									83 [37,6]	2.9
STANDARD MODELS CONT.										

NOTE: RECOMMENDED PORT SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GMS 2GJ3-B**

● MECHANICAL SEAL

■ PACKING/LIPSEAL

① DUPONT VITON[®] OR EQUIVALENT

② DUPONT TEFLON[®] OR EQUIVALENT

THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

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

Standard Models Cont'd

MODEL NUMBER	NOM. CAPACITY - SPEED				MAXIMUM				SHIPPING DATA	
	MAXIMUM		ALTERNATIVE		DIFFERENTIAL PRESSURE-PSI [BAR]			TEMP.	Weight	Volume
	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]		
GMS 2 JJ 3-B ● GMS 2 JJ 4-B ■	47 [177]	960 [960]	42 [133]	870 [725]	50 [3]	75 [5]	150 [10.3]	● 400 [205]	83	2.9
GMS 2-1/2 JJ 3-B ● GMS 2-1/2 JJ 4-B ■									83 [37,6]	2.9
GMS 3 JJ 3-B ● GMS 3 JJ 4-B ■									83 [37,6]	2.9
GMS 2 JL 3-B ● GMS 2 JL 4-B ■	64 [243]	960 [960]	58 [183]	870 [725]	50 [3]	75 [5]	150 [10.3]	● 400 [205]	83	2.9
GMS 2-1/2 JL 3-B ● GMS 2-1/2 JL 4-B ■									83 [37,6]	2.9
GMS 3 JL 3-B ● GMS 3 JL 4-B ■									83 [37,6]	2.9
GMS 2 JP 3-B ● GMS 2 JP 4-B ■	89 [338]	960 [960]	81 [256]	870 [725]	50 [3]	75 [5]	150 [10.3]	● 400 [205]	83	2.9
GMS 2-1/2 JP 3-B ● GMS 2-1/2 JP 4-B ■									83 [37,6]	2.9
GMS 3 JP 3-B ● GMS 3 JP 4-B ■									83 [37,6]	2.9
GMS 1-1/2 NK 3-B ● GMS 1-1/2 NK 4-B ■	90 [283]	960 [960]	60 [189]	870 [725]	50 [3]	75 [5]	150 [10.3]	■ 450 [230]	109	2.9
GMS 2 NK 3-B ● GMS 2 NK 4-B ■									109 [49]	2.9
GMS 2-1/2 NK 3-B ● GMS 2-1/2 NK 4-B ■									109 [49]	2.9
GMS 3 NK 3-B ● GMS 3 NK 4-B ■	120 [378]	960 [960]	80 [252]	870 [725]	50 [3]	75 [5]	150 [10.3]	■ 450 [230]	109	2.9
GMS 2 NM 3-B ● GMS 2 NM 4-B ■									109 [49]	2.9
GMS 2-1/2 NM 3-B ● GMS 2-1/2 NM 4-B ■									109 [49]	2.9
GMS 3 NM 3-B ● GMS 3 NM 4-B ■	150 [473]	960 [960]	99 [312]	870 [725]	50 [3]	75 [5]	150 [10.3]	■ 450 [230]	109	2.9
GMS 2 NP 3-B ● GMS 2 NP 4-B ■									109 [49]	2.9
GMS 2-1/2 NP 3-B ● GMS 2-1/2 NP 4-B ■									109 [49]	2.9
GMS 3 NP 3-B ● GMS 3 NP 4-B ■									109	2.9

STANDARD MODELS CONT.

- MECHANICAL SEAL
- PACKING/LIPSEAL

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

THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO
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MODEL NUMBER	NOM. CAPACITY - SPEED				MAXIMUM				SHIPPING DATA							
	MAXIMUM		ALTERNATIVE		DIFFERENTIAL PRESSURE - PSI [BAR]			TEMP.	Weight LBS [KG]	Volume CU. FT.						
	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]								
GMS 2 RM 3-B ● GMS 2 RM 4-B ■	153 [542]	640 [600]	115 [362]	480 [400]				● 400 [205]	233 [106]	10.7						
GMS 2-1/2 RM 3-B ● † GMS 2-1/2 RM 4-B ■ †									233 [106]	10.7						
GMS 3 RM 3-B ● † GMS 3 RM 4-B ■ †									233 [106]	10.7						
GMS 4 RM 3-B ● † GMS 4 RM 4-B ■ †									233 [106]	10.7						
GMS 2-1/2 RP 3-B ● † GMS 2-1/2 RP 4-B ■ †									233 [106]	10.7						
GMS 3 RP 3-B ● † GMS 3 RP 4-B ■ †	190 [678]	640 [600]	143 [451]		50 [3]	75 [5]	150 [10.3]	● 400 [205]	233 [106]	10.7						
GMS 4 RP 3-B ● † GMS 4 RP 4-B ■ †	233 [106]								10.7							
GMS 2-1/2 RR 3-B ● † GMS 2-1/2 RR 4-B ■ †	228 [804]								170 [536]					■ 450 [230]	233 [106]	10.7
GMS 3 RR 3-B ● † GMS 3 RR 4-B ■ †															233 [106]	10.7
GMS 4 RR 3-B ● † GMS 4 RR 4-B ■ †															233 [106]	10.7
GMS 3 RS 3-B ● † GMS 3 RS 4-B ■ †	265 [930]	196 [618]						233 [106]	10.7							
GMS 4 RS 3-B ● † GMS 4 RS 4-B ■ †								233 [106]	10.7							

NOTE: RECOMMENDED SIZES ARE SHOWN IN **BOLDFACE**. EXAMPLE: **GMS 2GJ 3-B**

† 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.

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

Basic Pump Dimensions



CAD FILE NO.: 16530

MODEL NUMBERS	PUMP DIMENSIONS - INCHES [MILLIMETERS]															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	
GMS D	1"	2.50* [64]	4.00 [102]	3.50* [89]	1.62 [41]	1.62 [41]	.41 [10]	1.44 [36]	5.81 [148]	3.24 [82]	.89 [23]	3.99 [101]	4.97 [126]	.19 [5] x 1.00 [25]	.62 [16]	
		2.75† [70]		4.50 [114]												5.25 [133]
		3.19 [81]														
		4.00† [102]														
GMS G	1-1/2"	3.50* [89]	4.88 [124]	3.50* [89]	1.62 [41]	1.62 [41]	.41 [10]	1.64 [42]	5.96 [151]	3.85 [98]	.76 [19]	4.14 [105]	5.70 [145]	.19 [5] x 1.25 [32]	.75 [19]	
		3.75† [95]		4.50 [114]												5.25 [133]
	2"	4.00 [102]	6.25 [159]	6.25 [159]												
		4.00† [102]														
GMS J	2"	4.50* [114]	6.88 [175]	5.25* [133]	2.88 [73]	3.00 [76]	.44 [11]	2.50 [64]	9.91 [252]	5.71 [145]	1.18 [30]	7.31 [186]	8.50 [216]	.25 [6] x 2.00 [51]	1.00 [25]	
		5.00† [127]		6.25 [159]												7.00 [178]
	6.00† [152]	7.00 [178]		8.00 [203]												
	6.31† [160]	8.00 [203]														
GMS N	1-1/2"	5.12* [130]	8.00 [203]	4.50 [114]	2.88 [73]	4.25 [108]	.44 [11]	2.50 [64]	9.20 [234]	6.42 [163]	1.12 [28]	6.12 [155]	7.59 [193]	.25 [6] x 2.00 [51]	1.25 [32]	
				5.25* [133]												6.25 [159]
	7.19† [183]			7.00 [178]												8.00 [203]
				8.00 [203]												
GMS R	2"	8.50* [216]	10.25 [260]	7.00* [178]	3.75 [95]	5.75 [146]	.53 [13]	3.03 [77]	12.50 [318]	8.43 [214]	1.38 [35]	8.35 [212]	11.31 [287]	.38 [10] x 2.25 [57]	1.50 [38]	
				7.19† [183]												7.00* [178]

* STANDARD DIMENSION

† 180° HOUSING

‡ PORTS ARE COMPATIBLE WITH 125* OR 250* ANSICAST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSIPPIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

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



DIRECT FLEX DRIVE OPTION DIMENSIONS



CAD FILE NO.: 16567

PUMP MODEL	PUMP DIMENSIONS - INCHES[MILLIMETERS]														
	A	B	MOTOR FRAME	C	D	E	F	G	H	J	K	L	M	N	
GMS D	1"	2.50*	56 (H)	2.00	3.50*	4.44	8.88	10.14	.56	20.04	19.25	25.25	3.00	4.97	
		[64]	143T/145T	[51]	[89]	[113]	[228]	[258]		[509]	[489]	[841]	[78]		
		2.75 †	182T/184T	4.00	4.50	7.75	15.50	17.50		26.41	23.50	33.50	5.00		[126]
		[70]	213T/215T	[102]	[114]	[197]	[394]	[445]		[671]	[597]	[851]	[127]		
GMS G	1- 1/2"	3.50*	56 (H)	2.00	3.50*	4.44	8.88	10.14	.56	20.20	19.25	25.25	3.00	5.71	
		[89]	143T/145T	[51]	[89]	[113]	[228]	[258]		[513]	[489]	[841]	[76]		
	2"	3.75 †	182T/184T	4.00	4.50	7.75	15.50	17.50	26.57	23.50	33.50	5.00	[145]		
		[95]	213T/215T	[102]	[114]	[197]	[394]	[445]	[675]	[597]	[851]	[127]			
GMS J	2"	4.50*	182T/184T	4.00	4.50	9.50	19.00	21.00	.69	36.16	35.50	45.50	5.00	8.49	
		[114]	213T/215T		[114]										[241]
	2- 1/2"	5.00 †	254T/256T	5.25*	6.25	9.50	19.00	21.00	.69	35.44	35.50	45.50	5.00	7.59	
		[127]	284T/286T	[133]	[159]	[241]	[483]	[533]	[18]	[900]	[902]	[1158]	[127]	[193]	
GMS N	1- 1/2"	5.12*	182T/184T	4.00	4.50	9.50	19.00	21.00	.69	35.44	35.50	45.50	5.00	7.59	
			213T/215T		5.25*										6.25
	2"	254T/256T	4.00	6.25	9.50	19.00	21.00	.69	35.44	35.50	45.50	5.00	7.59		
2- 1/2"	7.19 †	[183]	284T/286T	4.00	7.00	9.50	19.00	21.00	.69	35.44	35.50	45.50	5.00	8.70	
			324T/326T		8.00										9.50

* STANDARD DIMENSION

† 180° HOUSING

┆ PORTS ARE COMPATIBLE WITH 125# OR 250# ANSICAST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSIPIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

DIRECT FLEX DRIVE OPTIONS

Drive Assembly Number Includes Base, Coupling & Guard, But **Not** the Motor



CAD FILE NO.: 16567

PUMP MODEL NUMBER	60 HZ. RPM	FRAME	MTG. FT. OPTION REQ.	DRIVE ASSY NO.
GMS D	1750 1150 850	56/56H	STD	90251-082
		143T/145T	STD	90251-084
		182T/184T	80F	90251-090
		213T/215T	80J	90251-094
GMS G	1750 1150 850	56/56H	STD	90251-160
		143T/145T	STD	90251-162
		184	80F	90221-156
		182T/184T	80F	90251-168
		213T/215T	80J	90251-176
		254T	80P	90251-180
GMS J	850	182T/184T	80F	90251-310
		213T/215T	STD	90251-318
		254T/256T	80P	90251-330
		284T/286T	80S	90251-338
GMS N	850	254T/256T	80P	90251-394
		284T/286T	80S	90251-402
		324T/326T	80V	90251-410

NOTE: CONSULT FACTORY FOR OPTIONS NOT SHOWN.



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



CAD FILE NO.: 16573

PUMP MODEL	PUMP DIMENSIONS																	
	A	B	MOTOR FRAME	C	D	E	F	G	H	J	K	L	M	N				
GMS D	1"	2.50 * [64]	56C	2.00 [51]	3.50 * [89]	6.50 [165]	13.00 [330]	15.00 [381]	.56 [14]	19.98 [507]	25.50 [648]	31.50 [800]	3.00 [76]	4.98 [126]				
		2.75 † [70]	184C			7.31 [186]	14.62 [371]	16.62 [422]		26.68 [678]	37.25 [946]	43.25 [1098]						
		3.19 † [61]	143TC/145TC															
		4.00 † [102]	182TC/184TC															
			213TC/215TC															
GMS G	1-1/2"	3.50 * [89]	56C	2.00 [51]	3.50 * [89]	6.50 [165]	13.00 [330]	15.00 [381]	.58 [14]	20.11 [511]	25.50 [648]	31.50 [800]	3.00 [76]	5.72 [145]				
		3.75 † [95]	184C			7.31 [186]	14.62 [371]	16.62 [422]		26.81 [681]	37.25 [946]	43.25 [1098]						
	4.00 † [102]	143TC/145TC																
	4.00 † [102]	182TC/184TC																
			213TC/215TC															
GMS J	2"	4.50 * [114]	182TC/184TC	2.00 [51]	4.50 [114]	7.31 [186]	14.62 [371]	16.62 [422]	.56 [14]	30.20 [767]	32.00 [813]	38.00 [965]	3.00 [76]	8.50 [216]				
	2-1/2"	5.00 † [127]																
		6.00 † [152]									213TC/215TC							
	3"	6.31 † [160]			5.25 * [133]													
GMS N	1-1/2"		182TC/184TC	2.00 [51]	4.50 [114]	7.31 [186]	14.62 [371]	16.62 [422]	.56 [14]	* 29.48 [749]			3.00 [76]	7.59 [193]				
	2"	5.12 * [130]																
	2-1/2"	7.19 † [183]								213TC/215TC								
3"					5.25 * [133]									8.72 [221] *				

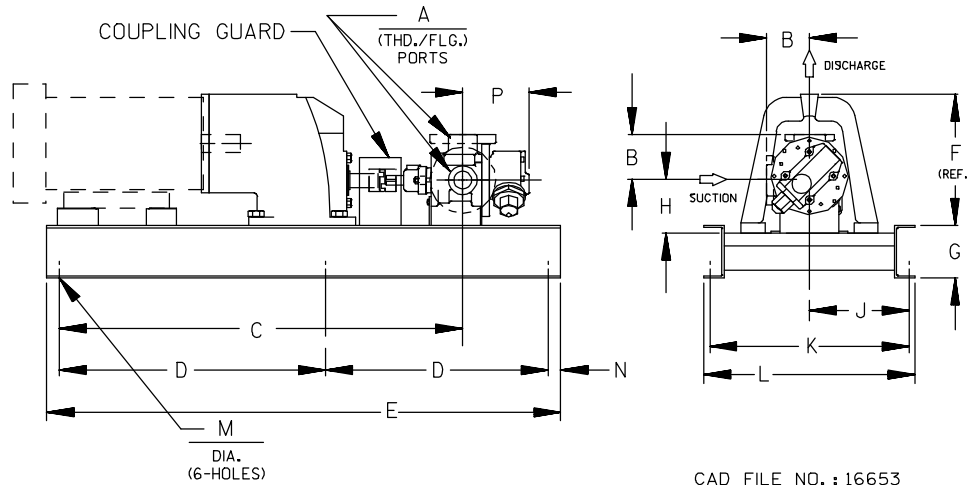
* STANDARD DIMENSION

† 180° HOUSING

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



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



CAD FILE NO. : 16653

PUMP MODEL	PUMP DIMENSIONS														
	A	B	MOTOR FRAME	C	D	E	F	G	H	J	K	L	M	N	P
GMS J	2"	4.50 * [114]	213TC/215TC	41.57 [1056]	23.00 [584]	56.00 [1422]	12.14 [308]								
	2 1/2"	5.00 † [127]	254TC/256TC	42.03 [1068]				8.00 [203]	6.25 [159]	10.12 [257]	20.25 [514]	22.50 [572]	.69 [18]	5.00 [127]	8.49 [216]
		6.00 † [152]	254TC/256TC	44.76 [1137]	24.12 [613]	58.25 [1480]									
	3"	6.31 † [160]	284TC/286TC	46.98 [1183]	25.75 [654]	61.50 [1562]	14.91 [378]								
GMS N	1 1/2"		213TC/215TC	41.98 [1066]											
	2"	5.12 * [130]	213TC/215TC	40.85 [1038]	23.00 [584]	56.00 [1422]	12.14 [308]								
				254TC/256TC	42.42 [1077]				8.00 [152]	6.25 [159]	10.12 [257]	20.25 [514]	22.50 [572]	.69 [18]	5.00 [127]
	2 1/2"	7.19 † [183]	254TC/256TC	41.31 [1049]	24.12 [613]	58.25 [1480]									8.70 [221]
3"		284TC/286TC	45.15 [1147]	25.75 [654]	61.50 [1562]	14.91 [379]								*	
GMS R	2"		184TC	38.50 [978]	22.62 [575]	55.25 [11403]	10.80 [274]								
	2 1/2"	6.50 * [165]	213TC/215TC												
				213TC/215TC	43.80 [1112]	25.28 [642]	60.56 [1538]	12.26 [311]	8.00 [203]	7.00 [178]	10.38 [264]	20.75 [527]	23.00 [584]	.69 [18]	5.00 [127]
	3"	7.19 † [183]	254TC/256TC												
4"		254TC/256TC	48.75 [1238]	27.75 [705]	65.50 [1664]	16.04 [407]									
		284TC/286TC													

* STANDARD DIMENSION

† 180° HOUSING

‡ PORTS ARE COMPATIBLE WITH 125* OR 250* ANSI/AST IRON FLANGES. ALL OTHER PORTS ARE TAPPED NPT FOR ANSI PIPE. OPTIONAL (DIN) FLANGES OR TAPPED (BSP) PORTS AVAILABLE FOR EXPORT MARKET.

CROSS REFERENCE OF MOTOR FRAMES TO GEARBOX RATIOS:

- Ⓐ 2:1, 3.15:1 (15 hp Only), 2.5:1
- Ⓑ 3.15:1 (20 hp Only), 4:1, 5:1
- Ⓒ 2.5:1, 4:1
- Ⓓ 3.15:1, 5:1

REFERENCE: PUMP FOOT BRACKET OPTIONS

MOTOR FRAME	CENTER HEIGHT	PUMP OPTION
213TC thru 286TC	6.25"	80P ("J" & "N" Size Only)
182TC thru 326TC	7.00"	STD ("R" Size Only)



GMS

SEC. 525

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January 2010

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

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



CAD FILE NO.: 16573

PUMP MODEL	RPM @ 1750	RPM @ 1150	REDUCER ①		FRAME	MTG.FT. OPTION REQ.	DRIVE ASSY NO.		
			MAX HP @ 1750	MAX HP @ 1150					
GMS D	875	575	2.00:1	5.65	3.73	56C	STD	90253-510	
				11.70	7.72	143TC/145TC	STD	90253-516	
				11.70	7.72	182C/184C	80F	90253-519	
				13.01	8.59	182TC/184TC	80F	90253-526	
	580	383	3.00:1	3.76	2.48	56C	STD	90253-530	
				8.10	5.35	143TC/145TC	STD	90253-533	
				8.10	5.35	182C/184C	80F	90253-539	
	440	288	4.00:1	10.62	7.01	182TC/184TC	80F	90253-546	
				2.82	1.86	56C	STD	90253-550	
				5.90	3.89	143TC/145TC	STD	90253-553	
	350	230	5.00:1	5.90	3.89	182C/184C	80F	90253-562	
				7.24	4.78	182TC/184TC	80F	90253-566	
				2.26	1.49	56C	STD	90253-570	
				5.20	3.43	143TC/145TC	STD	90253-573	
	GMS G	875	575	2.00:1	5.20	3.43	182C/182C	80F	90253-582
					5.98	3.95	182TC/184TC	80F	90253-586
5.65					3.73	56C	STD	90253-610	
11.70					7.72	143TC/145TC	STD	90253-616	
11.70					7.72	182C/184C	80F	90253-624	
580		383	3.00:1	13.01	8.59	182TC/184TC	80F	90253-626	
				13.01	8.59	213TC/213TC	80J	90253-628	
				3.76	2.48	56C	STD	90253-630	
				8.10	5.35	143TC/145TC	STD	90253-639	
440		288	4.00:1	8.10	5.35	182C/184C	80F	90223-639	
	10.62			7.01	182TC/184TC	80F	90253-646		
	10.62			7.01	213TC/215TC	80J	90253-648		
	2.82			1.86	56C	STD	90253-660		
350	230	5.00:1	5.90	3.89	143TC/145TC	STD	90253-663		
			5.90	3.89	182C/184C	80F	90253-672		
			7.24	4.78	182TC/184TC	80F	90253-675		
			7.24	4.78	213TC	80J	90253-677		
			2.26	1.49	56C	STD	90253-690		
350	230	5.00:1	5.20	3.43	143TC/145TC	STD	90253-693		
			5.20	3.43	182C/184C	80F	90253-702		
			5.89	3.95	182TC/184TC	80F	90253-705		
			5.89	3.95	213TC	80J	90253-707		

(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 OPTIONS NOT SHOWN.



GMS

GRR REDUCER C-FLANGE FLEX DRIVE OPTIONS

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

PUMP MODEL	RPM @ 1750	RPM @ 1150	REDUCER ^①		FRAME	MTG.FT. OPTION REQ.	DRIVE ASSY NO.	
			MAX HP @ 1750	MAX HP @ 1150				
GMS J	875	575	2.00:1	13.01	8.59	182TC/184TC	80F	90253-722
				13.01	8.59	213TC/215TC	STD	90253-724
				36.29	23.95	254TC/256TC	80P	90253-728
				36.29	23.95	284TC/286TC	80P	90253-732
	580	383	3.00:1	10.62	7.01	182TC/184TC	80F	90253-735
				10.62	7.01	213TC/215TC	80J	90253-741
	550	365	3.15:1	25.76	17.00	254TC/256TC	80P	90253-743
				25.76	17.00	284TC	80P	90253-746
				42.96	28.35	286TC	80P	90253-747
	440	288	4.00:1	7.24	4.78	182TC/184TC	80F	90253-750
				7.24	4.78	213TC	80J	90253-754
	350	230	5.00:1	5.98	3.95	182TC/184TC	80F	90253-767
				5.98	3.95	213TC	STD	90253-769
				16.01	10.57	215TC	80P	90253-774
				30.49	20.12	254TC/256TC	80J	90253-778
	GMS N	875	575	2.00:1	13.01	8.59	213TC/215TC	STD
36.29					23.95	254TC/256TC	80P	90253-801
36.29					23.95	284TC/286TC	80P	90253-805
580		383	3.00:1	10.62	7.01	213TC/215TC	STD	90253-814
				25.76	17.00	254TC/256TC	80P	90253-819
550		365	3.15:1	42.96	28.35	284TC/286TC	80P	90253-820
				7.24	4.78	213TC	STD	90253-827
350		230	5.00:1	5.98	3.95	213TC	STD	90253-842
				16.01	10.57	215TC	80P	90253-845
				30.49	20.12	254TC/256TC	80P	90253-847
GMS R	640	417	2.76:1	80.20	52.93	324TC	STD	90253-874
				80.20	52.93	364TC	STD	90253-878
	555	365	3.15:1	10.10	6.66	213TC/215TC	STD	90253-881
				25.76	17.00	254TC/256TC	STD	90253-886
				42.96	28.35	284TC/286TC	STD	90253-891
	520	340	3.38:1	66.20	43.69	324TC	STD	90253-896
				66.20	43.69	326TC	STD	90253-898
	440	288	4.00:1	9.42	6.22	184TC	STD	90253-901
				20.00	13.20	213TC/215TC	STD	90253-904
				38.16	25.18	254TC/256TC	STD	90253-909
				38.16	25.18	284TC	STD	90253-913
	420	278	4.13:1	40.40	26.40	286TC	STD	90253-916
				54.40	35.90	324TC	STD	90253-918
	350	230	5.00:1	6.10	4.03	184TC	STD	90253-921
				16.01	10.57	213TC/215TC	STD	90253-924
30.49				20.12	254TC/256TC	STD	90253-929	
30.49				20.12	284TC/286TC	STD	90253-933	

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 OPTIONS NOT SHOWN.

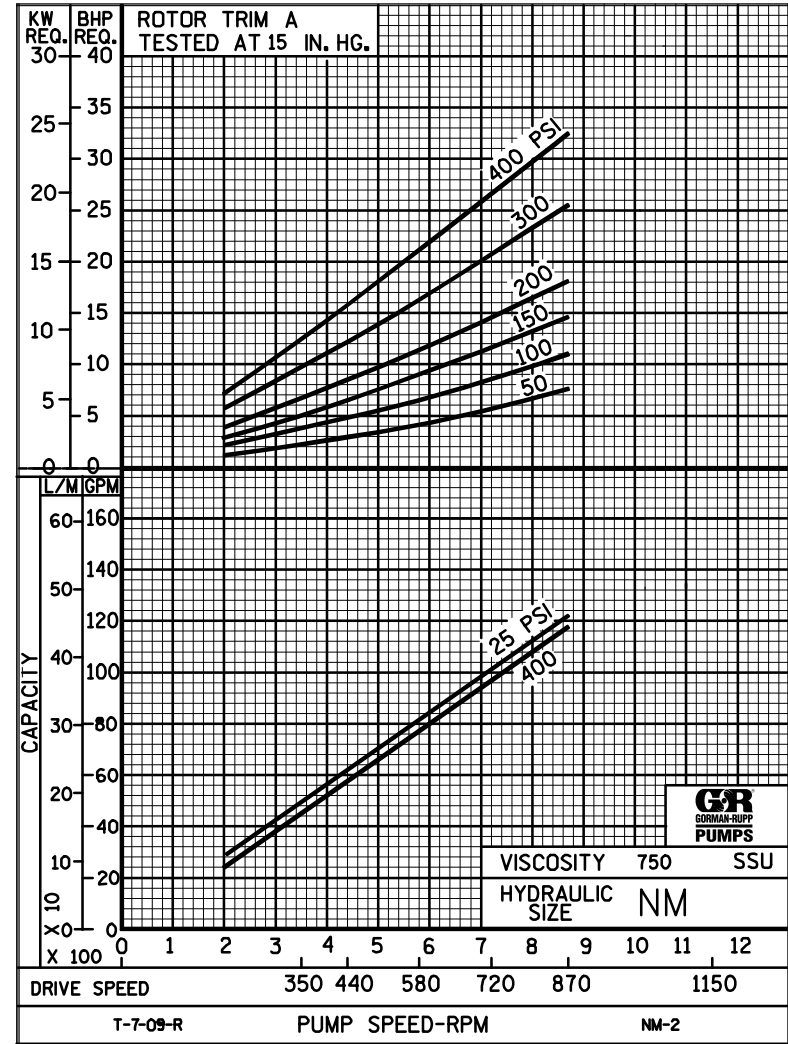
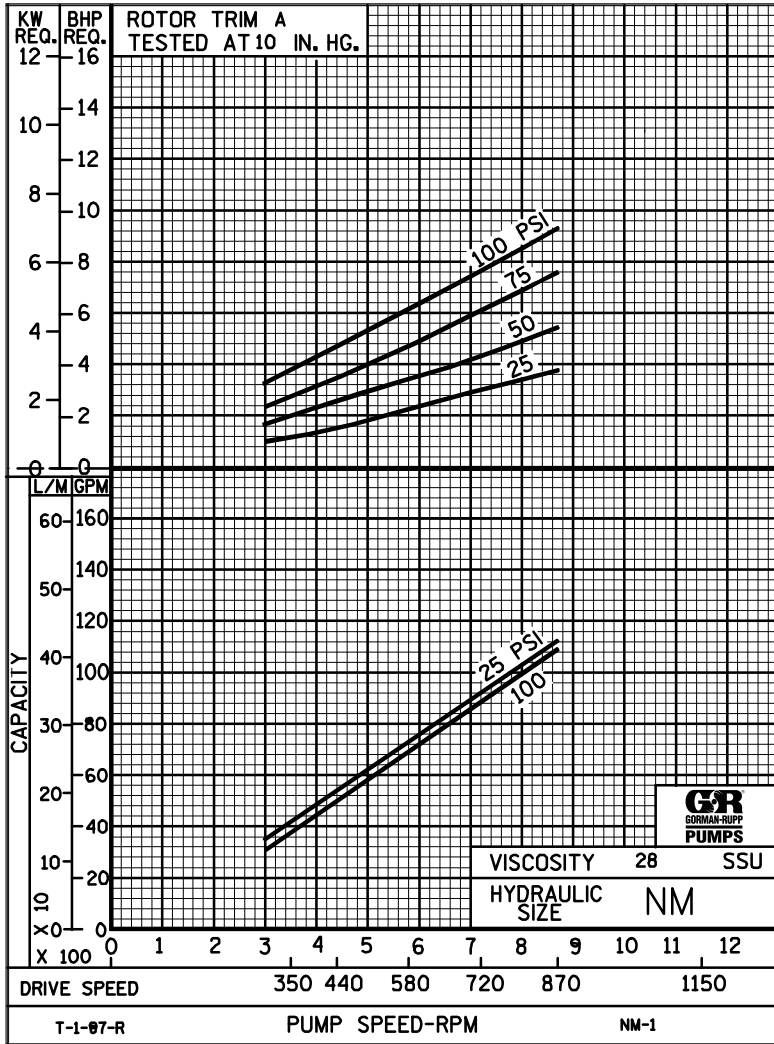


PERFORMANCE CURVES

SPEED VS. CAPACITY/HORSEPOWER

NM

Hydraulic Size



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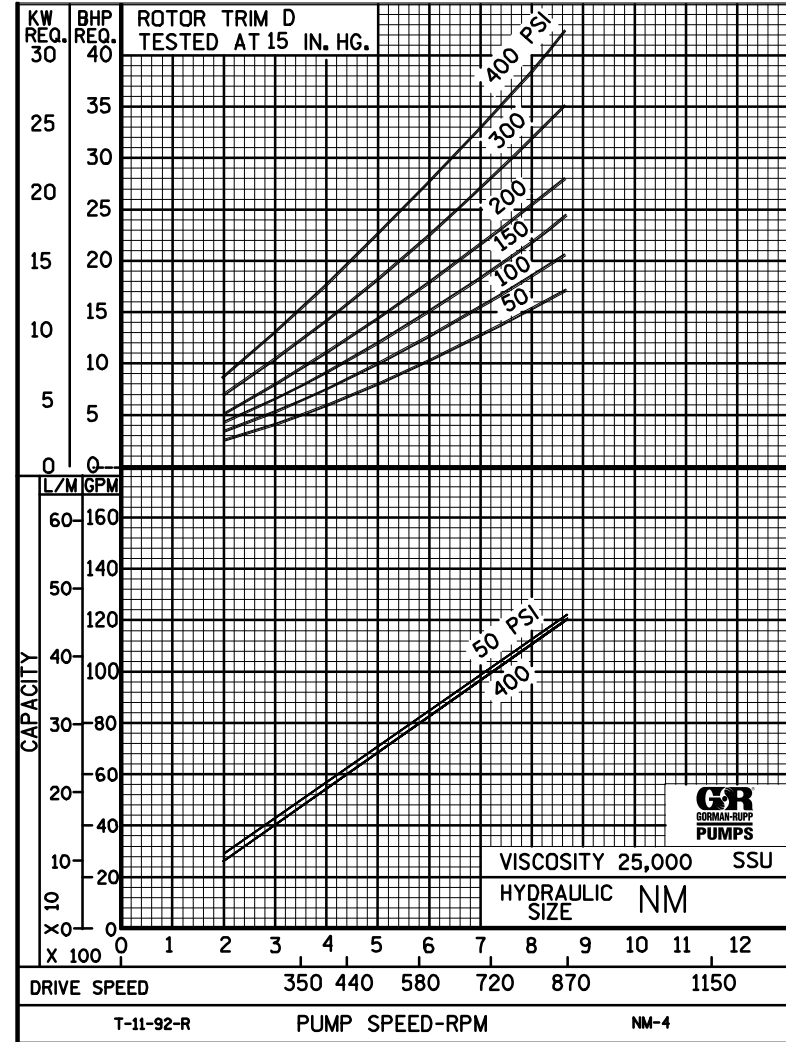
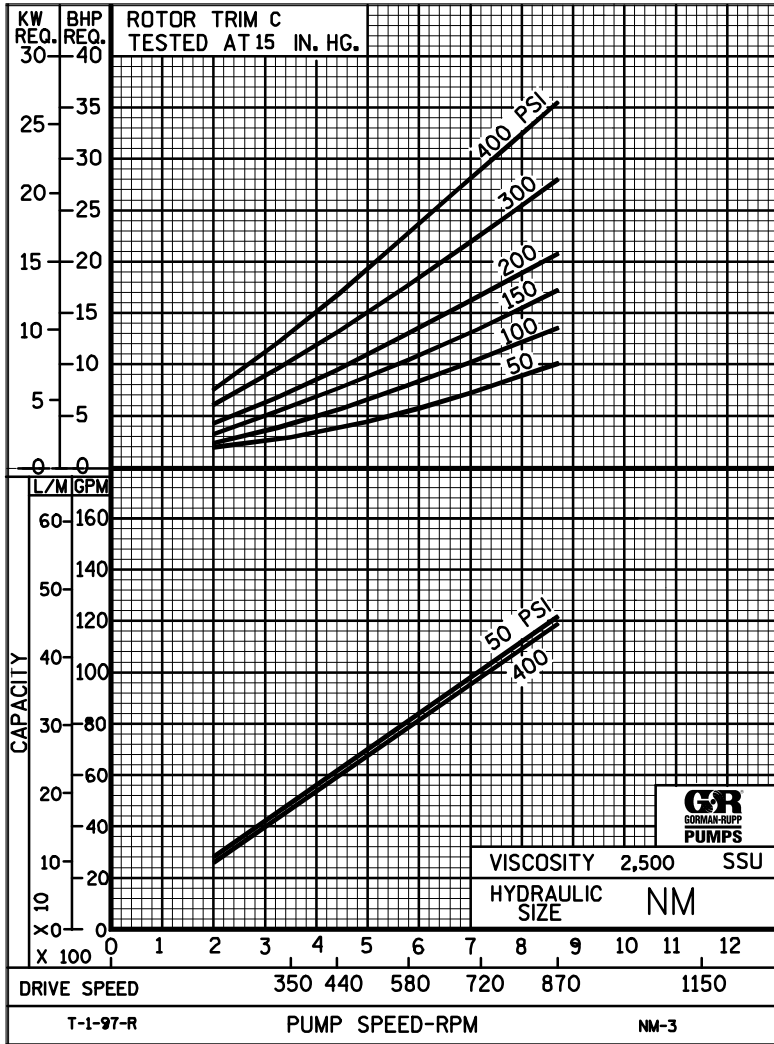


PERFORMANCE CURVES

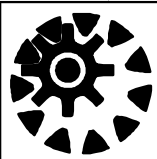
SPEED VS. CAPACITY/HORSEPOWER

NM

Hydraulic Size



THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO
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NM

PUMP HYDRAULIC SIZE CHART

SEC. 500

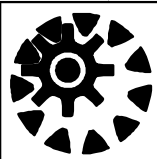
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120 GPM
870 RPM

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													
CAP. GPM	SPEED RPM				PIPE DIAMETER					CRACKING PRESS. (PSI)					DIFFERENTIAL PRESSURE (PSI)													
					2"	2 1/2"	3"	4"	5"	LOW PRES R/V			HI PRES R/V		MEDIUM DUTY AND HEAVY DUTY				HEAVY DUTY ONLY									
120	870	STD	28	3.8	.01	.01	.01	.01	.01	64	92	118			113	111	110	109										
			32		.09	.04	.02	.01	.01						3.9	5.5	7.8	9.5										
			38	3.8	.11	.05	.02	.01	.01	64	92	118	166			116	115	114	113	110								
			50		.13	.06	.02	.01	.01							4.0	5.6	7.9	9.6	13								
			70	3.8	.15	.07	.02	.01	.01	66	94	122	168	220			119	118	117	116	113	112						
			100		.17	.07	.03	.01	.01								4.3	6.0	8.0	9.6	13	17						
			150	3.8	.19	.08	.03	.01	.01	66	94	124	171	222			120	120	119	118	116	116	115	109				
			200		.20	.09	.03	.01	.01								4.8	6.3	8.1	9.8	13	17	24	31				
			300	3.8	.23	.10	.03	.01	.01	68	96	127	173	224			121	121	120	120	118	117	117	112				
			500		.24	.10	.04	.02	.01								5.6	7.1	8.9	10	14	18	25	32				
		750	3.8	.29	.14	.06	.02	.01	70	98	130	175	226			122	122	121	121	119	119	118	115					
		1,000		.39	.19	.08	.03	.01								6.7	8.0	9.8	11	15	19	26	33					
		2,000	4.9	.78	.38	.16	.06	.02	78	106	136	182	232			122	122	122	121	121	121	119	118					
		3,500		1.36	.67	.28	.10	.04								9.1	10	12	14	18	21	28	36					
		5,000	5.6	1.93	.95	.40	.14	.06	82	108	138	185	235			122	122	122	121	121	121	119	118					
		7,500		2.90	1.43	.60	.20	.08								11	12	14	16	20	24	30	38					
		10,000	6.3	3.87	1.90	.80	.27	.11	84	110	140	188	239			122	121	121	121	121	121	120	119					
		15,000		5.80	2.85	1.20	.41	.17								13	15	17	19	22	26	33	40					
		20,000	6.9	7.73	3.80	1.60	.54	.22	84	112	142	192	242			122	121	121	121	121	121	121	120					
		25,000		9.66	4.75	1.99	.67	.27								15	17	19	21	25	28	35	42					
50,000																												
75,000																												
100,000																												
150,000																												
200,000																												
250,000																												

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



NM

PUMP HYDRAULIC SIZE CHART

SEC. 500

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**80 GPM
580 RPM**

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															
CAP. GPM	SPEED RPM				PIPE DIAMETER					CRACKING PRESS. (PSI)					DIFFERENTIAL PRESSURE (PSI)															
					2"	2 1/2"	3"	4"	5"	LOW PRES R/V		HI PRES R/V			MEDIUM DUTY AND HEAVY DUTY				HEAVY DUTY ONLY											
80	580	STD	28	2.1	.01	.01	.01	.01	.01	58	84	114				73	72	71	70											
			32		.04	.02	.01	.01	.01							2.6	3.7	4.6	6.2											
			38	2.1	.05	.02	.01	.01	.01	58	84	114	160				76	75	74	73	71									
			50		.06	.03	.01	.01	.01								2.6	3.8	4.6	6.3	8.7									
			70	2.1	.07	.03	.01	.01	.01	60	86	116	160	206			78	78	77	76	74	73								
			100		.08	.04	.02	.01	.01								2.7	3.8	4.8	6.4	8.8	11								
			150	2.1	.10	.04	.02	.01	.01	60	88	116	164	210			80	79	79	78	76	76	73	72						
			200		.10	.05	.02	.01	.01								2.8	3.9	4.9	6.4	8.9	11	16	21						
			300	2.1	.10	.05	.02	.01	.01	62	90	118	164	214			81	80	80	79	78	78	75	75						
			500		.13	.07	.03	.01	.01								3.1	4.1	5.2	6.5	9.0	12	16	21						
		750	2.1	.20	.10	.04	.02	.01	64	92	118	168	218			81	81	81	81	79	79	77	77							
		1,000		.26	.13	.06	.02	.01								3.6	4.6	5.7	6.9	9.4	12	17	22							
		2,000	2.8	.52	.26	.11	.04	.02	70	98	124	176	226			81	81	81	81	80	80	78	78							
		3,500		.90	.45	.19	.07	.03								5.0	6.0	7.0	8.3	11	13	18	23							
		5,000	3.3	1.29	.64	.27	.09	.04	72	100	126	180	230			81	81	81	81	80	80	79	79							
		7,500		1.93	.95	.40	.14	.06								6.0	7.0	8.1	9.3	12	14	19	24							
		10,000	3.9	2.58	1.27	.53	.18	.07	74	102	128	184	232			81	81	81	81	81	80	79	79							
		15,000		3.87	1.90	.80	.27	.11								7.1	8.4	9.5	11	13	16	21	25							
		20,000	4.4	5.16	2.53	1.06	.36	.15	76	104	130	188	236			81	81	81	81	80	80	80	79							
		25,000		6.44	3.17	1.33	.45	.18								8.3	9.7	11	12	15	17	22	27							
50,000	6.9	12.9	6.33	2.66	.90	.36	84	116	142	204	246			81	81	81	81	80	80	80	79									
75,000		19.4	9.49	3.98	1.35	.55								12	14	16	17	20	23	26	31									
100,000																														
150,000																														
200,000																														
250,000																														

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



NM

PUMP HYDRAULIC SIZE CHART

SEC. 500

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January 2010

**48 GPM
350 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"	5"	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									
48	350	STD	28	1.3	.01	.01	.01	.01	.01	56	82	108			43	42	40	40										
			32		.02	.01	.01	.01	.01						1.2	2.0	3.0	3.8										
			38	1.3	.02	.01	.01	.01	.01	56	82	108	158			46	45	44	43	42								
			50		.03	.01	.01	.01	.01							1.2	2.0	3.0	3.8	5.2								
			70	1.3	.03	.02	.01	.01	.01	57	83	110	159	210			47	47	46	45	44	42						
			100		.04	.02	.01	.01	.01								1.3	2.1	3.1	3.8	5.2	6.5						
			150	1.3	.04	.02	.01	.01	.01	57	83	110	159	210			48	48	47	46	45	44	43	42				
			200		.04	.02	.01	.01	.01								1.4	2.2	3.1	3.8	5.2	6.5	9.3	12				
			300	1.3	.05	.03	.01	.01	.01	58	84	112	161	212			49	49	48	47	46	45	45	44				
			500		.08	.04	.02	.01	.01								1.6	2.2	3.1	3.9	5.3	6.7	9.6	13				
			750	1.3	.12	.06	.03	.01	.01	58	84	112	161	212			49	49	49	48	47	47	46	46				
			1,000		.16	.08	.04	.01	.01								1.8	2.3	3.1	3.9	5.3	6.8	9.8	13				
		2,000	1.7	.31	.15	.07	.02	.01	60	86	114	164	214			49	49	49	48	48	48	47	47					
		3,500		.54	.27	.11	.04	.02								2.6	3.2	4.0	4.7	6.3	7.6	11	13					
		5,000	2.1	.78	.38	.16	.06	.03	60	86	114	168	216			49	49	49	49	48	48	48	47					
		7,500		1.16	.57	.24	.08	.04								3.1	3.7	4.5	5.2	6.8	8.1	11	14					
		10,000	2.5	1.55	.76	.32	.11	.05	62	88	116	168	218			49	49	49	49	48	48	48	47					
		15,000		2.32	1.14	.48	.16	.07								3.6	4.3	5.0	5.8	7.3	8.7	12	15					
		20,000	3.0	3.09	1.52	.64	.22	.09	62	88	116	170	218			49	49	49	49	48	48	48	47					
		25,000		3.87	1.90	.80	.27	.11								4.2	4.7	5.5	6.3	7.7	9.3	12	15					
		50,000	4.4	7.73	3.80	1.60	.54	.22	64	90	118	172	220			49	49	49	49	48	48	48	47					
		75,000		11.6	5.70	2.39	.81	.33								5.5	6.3	7.0	8.1	9.6	11	14	17					
		100,000	7.8	15.5	7.60	3.19	1.08	.44	68	94	122	176	224			49	49	49	49	48	48	48	47					
		150,000		23.2	11.4	4.78	1.61	.65								7.0	7.8	8.6	10	12	13	16	19					
200,000	12.3	30.9	15.2	6.37	2.15	.87	72	98	127	181	230			49	49	49	49	48	48	48	47							
250,000		38.7	19.0	7.97	2.69	1.09								8.9	9.3	10	12	14	16	18	22							

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