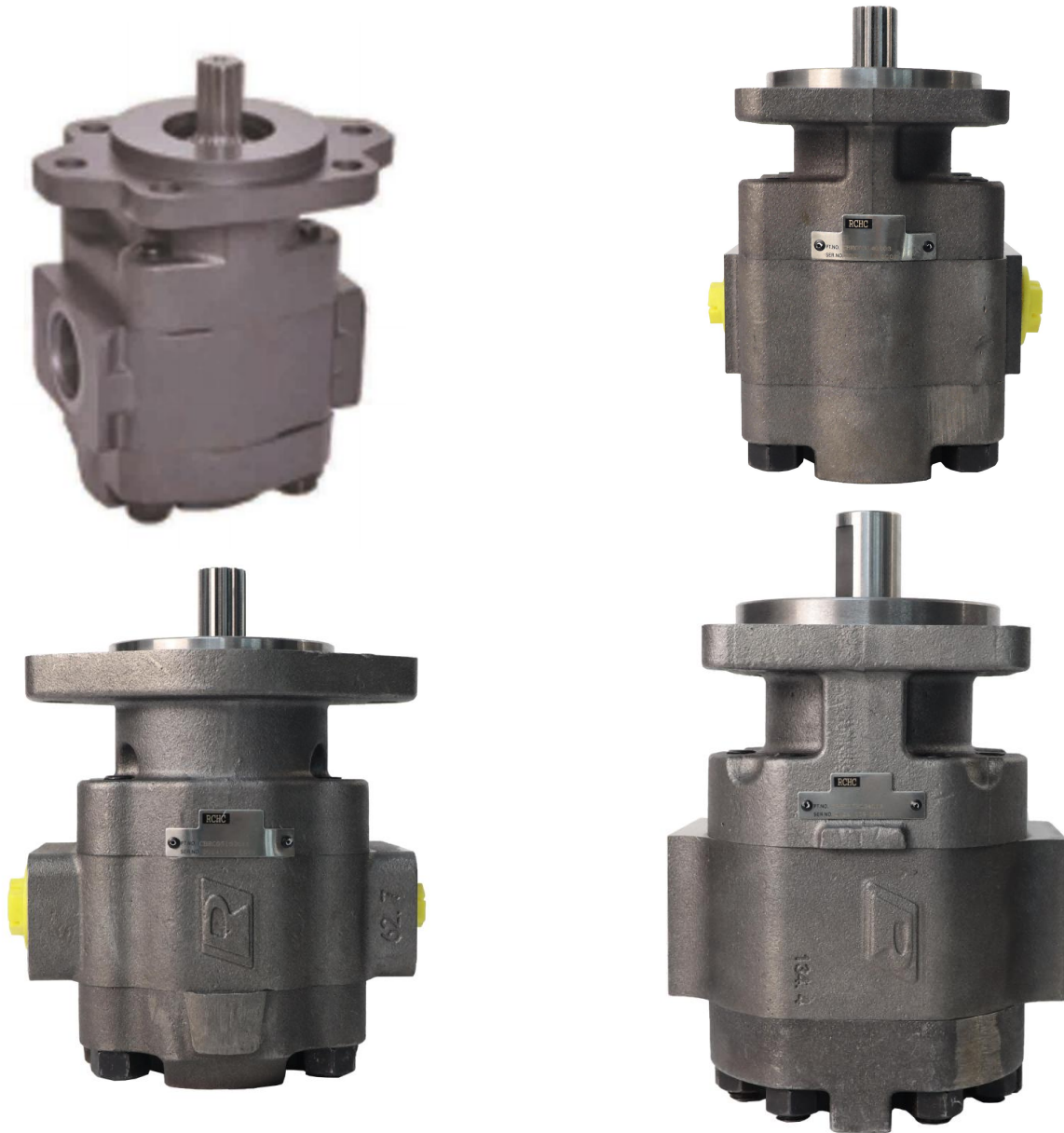




Pump & Motor Division

Roller Bearing Series – 020, 031, 051, 076 Frame Sizes
Vocational Truck Pump Program Catalog

RUICHEN HYDRAULIC MACHINERY MANUFACTURING Co., LTD

<https://www.rchchdraulics.com/>

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Commercial Roller Bearing Series

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- Original Commercial pump design
- Three-piece cast iron construction for assembly flexibility
- Balanced thrust plates optimize pump efficiency
- Roller bearings for durability and resistance to fluid contamination
- Multiple sections available



Product Features	Description
Pump Type	Fixed
Mounting	SAE
Ports	Flange, NPT, ODT
Shaft Style	SAE
Pump Speed	900 to 2400 RPM
Motor Speed	800 to 2000 RPM
Maximum Displ.	3.9 in ³ /rev
Maximum Operating Pressure	3000 PSI
Fluids	Mineral oil, fire resistant fluids: - water-oil emulsions 60/40, HFB - water-glycol, HFC - phosphate-esters, HFD

Product Features	Description
Fluid Temperature	Range of operating temperature -15 to +80°C (5 to 176° F). Max. permissible operating pressure dependent on fluid temperature. Temperature for cold start -20 to -15°C (-4 to 5° F) at speed ≤ 1500 RPM.
Fluid Viscosity	50-7500 SUS
Direction of Rotation (looking at the driveshaft)	Clockwise, Counter Clockwise, Bi-Rotational

NOTE: Different types of pump options are available in terms of shaft, mounting and port type. Please contact RCHC.

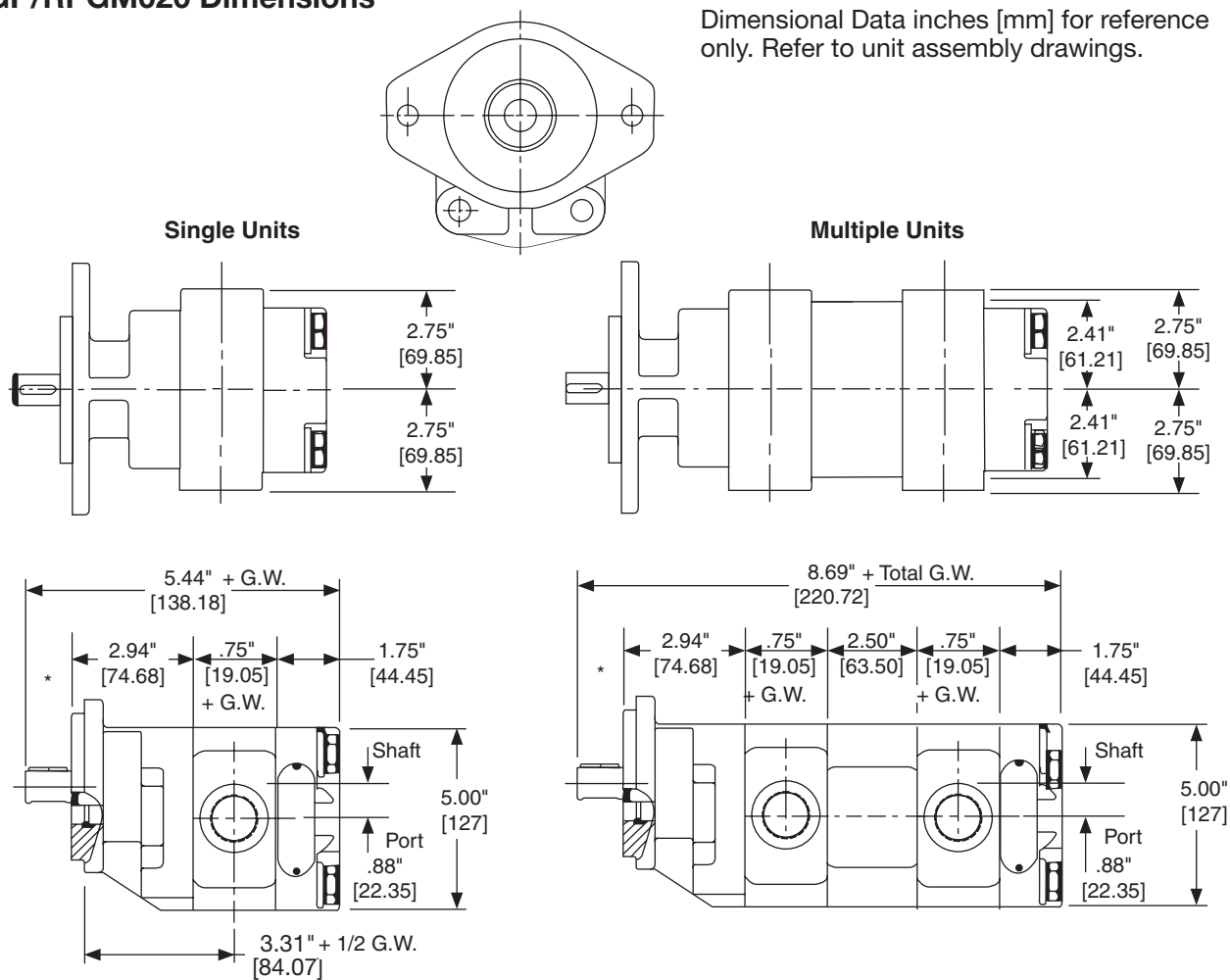
RPGP/RPGM020 Specifications

RPGP020 Frame Size	05	07	10	12	15	17	20
Displacement – cm ³ /rev (in ³ /rev)	16.1 (0.99)	24.2 (1.48)	32.3 (1.97)	40.4 (2.46)	48.4 (2.96)	56.5 (3.45)	64.6 (3.94)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)
Max Speed – RPM	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Approximate Weight – Lbs. [kg]	26 [12]	27 [12.5]	28 [13]	29 [13]	31 [14]	33 [15]	34 [15.5]

RPGM020 Frame Size	05	07	10	12	15	17	20
Displacement – cm ³ /rev (in ³ /rev)	16.1 (0.99)	24.2 (1.48)	32.3 (1.97)	40.4 (2.46)	48.4 (2.96)	56.5 (3.45)	64.6 (3.94)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)
Max Speed – RPM	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Approximate Weight – Lbs. [kg]	26 [12]	27 [12.5]	28 [13]	29 [13]	31 [14]	33 [15]	34 [15.5]

RPGP/RPGM020 Dimensions

Dimensional Data inches [mm] for reference only. Refer to unit assembly drawings.



RPGP/RPGM020 Performance Data

Pump Speed	Gear Width – Output (GPM)				
	1"	1-1/4"	1-1/2"	1-3/4"	2"
900	6.5	8.0	10.0	12.0	13.5
1200	9.0	11.5	14.0	16.0	18.5
1500	11.5	14.5	17.5	20.5	23.5
2100	16.5	21.0	25.0	29.5	34.0

Motor Speed	Gear Width					
	1" Torque in lbs.	GPM	1-1/2" Torque in lbs.	GPM	2" Torque in lbs.	GPM
800	550	9.0	870	13.0	1150	17.0
1200	550	13.0	870	18.0	1150	23.5
1600	550	16.0	860	23.0	1140	30.5
2000	550	19.5	850	28.0	1125	37.0

RPGP/RPGM020 Gear Housing

NPT Port ≤ 3000 PSI

Order Code	NPT Porting Port Size		Gear Width Availability						
	Left	Right	05	07	10	12	15	17	20
AB	None	None	X	X	X	X	X	X	X
IL	1/2	None	X	X	X	-	-	-	-
IM	None	1/2	X	X	X	-	-	-	-
IR	1/2	1/2	X	X	-	-	-	-	-
IC	3/4	None	-	X	X	X	X	X	X
ID	None	3/4	-	X	X	X	X	X	X
IF	3/4	3/4	-	X	X	X	X	X	X
IG	3/4	1	-	-	X	X	X	X	X
IH	3/4	1-1/4	-	-	-	-	X	X	-
IJ	1	3/4	-	-	X	X	X	X	X
IK	1-1/4	3/4	-	-	-	-	X	X	-
YC	1	None	-	-	X	X	X	X	X
YD	None	1	-	-	X	X	X	X	X
YF	1	1	-	-	X	X	X	X	X
YG	1	1-1/4	-	-	-	X	X	X	X
YH	1	1-1/2	-	-	-	-	-	-	-
YJ	1-1/4	1	-	-	-	-	X	X	X
YK	1-1/2	1	-	-	-	-	-	-	-
IA	1-1/4	None	-	-	-	-	X	X	X
IB	None	1-1/4	-	-	-	-	X	X	X
YL	1-1/4	1-1/4	-	-	-	-	X	X	X

RPGP/RPGM020 Gear Housing

ODT Tube Ports ≤ 2500 PSI

Order Code	ODT Tube Porting Port Size		Gear Width Availability						
	Left	Right	05	07	10	12	15	17	20
AB	None	None	X	X	X	X	X	X	X
EC	3/4	None	-	X	X	X	X	X	X
ED	None	3/4	-	X	X	X	X	X	X
EF	3/4	3/4	-	X	X	X	X	X	X
EG	3/4	1	-	-	X	X	X	X	X
EH	3/4	1-1/4*	-	-	-	X*	X	X	X
IN	3/4	1-1/2	-	-	-	-	-	X	X
EJ	1	3/4	-	-	X	X	X	X	X
EK	1-1/4*	3/4	-	-	-	X*	X	X	X
IP	1-1/2	3/4	-	-	-	-	-	X	X
EZ	7/8	None	-	-	-	X	-	-	-
EL	7/8	1	-	-	X	-	-	-	-
EM	1	7/8	-	-	X	-	-	-	-
AC	1	None	-	-	X	X	X	X	X
AD	None	1	-	-	X	X	X	X	X
AF	1	1	-	-	-	X*	X	X	X
AG	1	1-1/4*	-	-	-	X*	X	X	X
AH	1	1-1/2	-	-	-	-	-	X	X
AJ	1-1/4*	1	-	-	-	X*	X	X	X
AK	1-1/2	1	-	-	-	-	-	X	X
AA	1-1/4*	None	-	-	-	X*	X	X	X
AO	None	1-1/4*	-	-	-	X*	X	X	X
AL	1-1/4	1-1/4	-	-	-	-	X	X	X
AM	1-1/4	1-1/2	-	-	-	-	-	X	X
AP	1-1/2	1-1/4	-	-	-	-	-	X	X
AE	1-1/2	None	-	-	-	-	-	X	X
AU	None	1-1/2	-	-	-	-	-	X	X

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

RPGP/RPGM020 Gear Housing

ODT Tube Ports ≤ 3000 PSI

Order Code	ODT Tube Porting Port Size		Gear Width Availability						
	Left	Right	05	07	10	12	15	17	20
AB	None	None	X	X	X	X	X	X	X
EC	3/4	None	-	X	X	X	X	X	X
ED	None	3/4	-	X	X	X	X	X	X
EF	3/4	3/4	-	X	X	X	X	X	X
EG	3/4	1*	-	-	X*	X	X	X	X
EH	3/4	1-1/4*	-	-	-	-	X*	X	X
IN	3/4	1-1/2*	-	-	-	-	-	X*	X
EJ	1*	3/4	-	-	X*	X	X	X	X
EK	1-1/4*	3/4	-	-	-	-	X*	X	X
IP	1-1/2*	3/4	-	-	-	-	-	X*	X
EZ	7/8	None	-	-	-	X	-	-	-
EL	7/8	1*	-	-	X*	-	-	-	-
EM	1*	7/8	-	-	X*	-	-	-	-
AC	1*	None	-	-	X*	X	X	X	X
AD	None	1*	-	-	X*	X	X	X	X
AF	1	1	-	-	-	X*	X	X	X
AG	1	1-1/4*	-	-	-	X*	X*	X	X
AH	1	1-1/2*	-	-	-	-	-	X*	X
AJ	1-1/4*	1	-	-	-	X*	X*	X	X
AK	1-1/2*	1	-	-	-	-	-	X*	X
AA	1-1/4*	None	-	-	-	X*	X*	X	X
AO	None	1-1/4*	-	-	-	X*	X*	X	X
AL	1-1/4	1-1/4	-	-	-	-	-	X	X
AM	1-1/4	1-1/2*	-	-	-	-	-	X*	X
AP	1-1/2*	1-1/4	-	-	-	-	-	X*	X
AE	1-1/2*	None	-	-	-	-	-	X*	X
AU	None	1-1/2*	-	-	-	-	-	X*	X

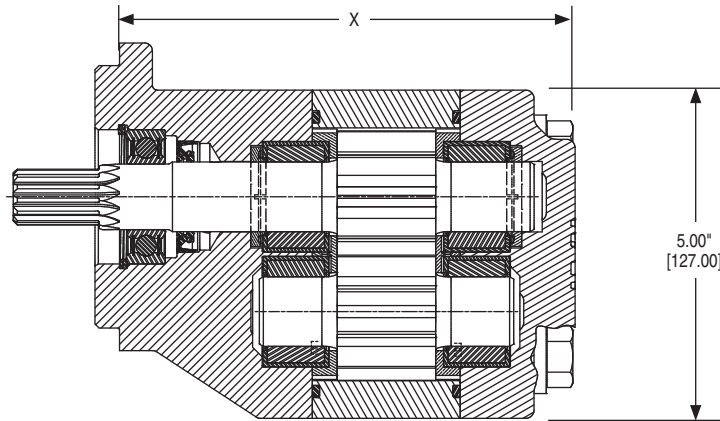
* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

RPGP/RPGM020 Gear Housing

Split Flange Porting ≤ 3000 PSI

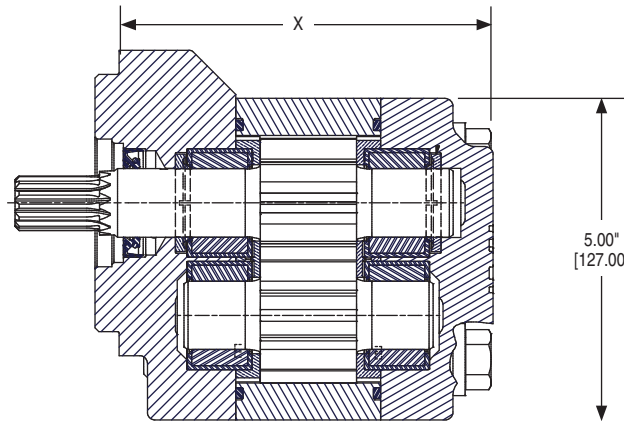
Order Code	Split Flange Porting Port Size		Gear Width Availability						
	Left	Right	05	07	10	12	15	17	20
AB	None	None	X	X	X	X	X	X	X
UC	3/4	None	-	X	X	X	X	X	X
UD	None	3/4	-	X	X	X	X	X	X
UF	3/4	3/4	-	X	X	X	X	X	-
UG	3/4	1	-	-	X	X	X	X	X
UH	3/4	1-1/4	-	-	-	X	X	X	X
UJ	1	3/4	-	-	X	X	X	X	X
UK	1-1/4	3/4	-	-	-	X	X	X	X
OC	1	None	-	-	-	X	X	X	X
OD	None	1	-	-	-	X	X	X	X
OF	1	1	-	-	X	X	X	X	X
OG	1	1-1/4	-	-	-	X	X	X	X
OH	1	1-1/2	-	-	-	-	-	X	X
OJ	1-1/4	1	-	-	-	X	X	X	X
OK	1-1/2	1	-	-	-	-	-	X	X
OA	1-1/4	None	-	-	-	X	X	X	X
OB	None	1-1/4	-	-	-	X	X	X	X
OL	1-1/4	1-1/4	-	-	-	-	X	X	X
OM	1-1/4	1-1/2	-	-	-	-	-	X	X
OP	1-1/2	1-1/4	-	-	-	-	-	X	X
OE	1-1/2	None	-	-	-	-	-	X	X
OU	None	1-1/2	-	-	-	-	-	X	X

RPGP/RPGM020 Shaft End Covers



X DIMENSION – Type 1

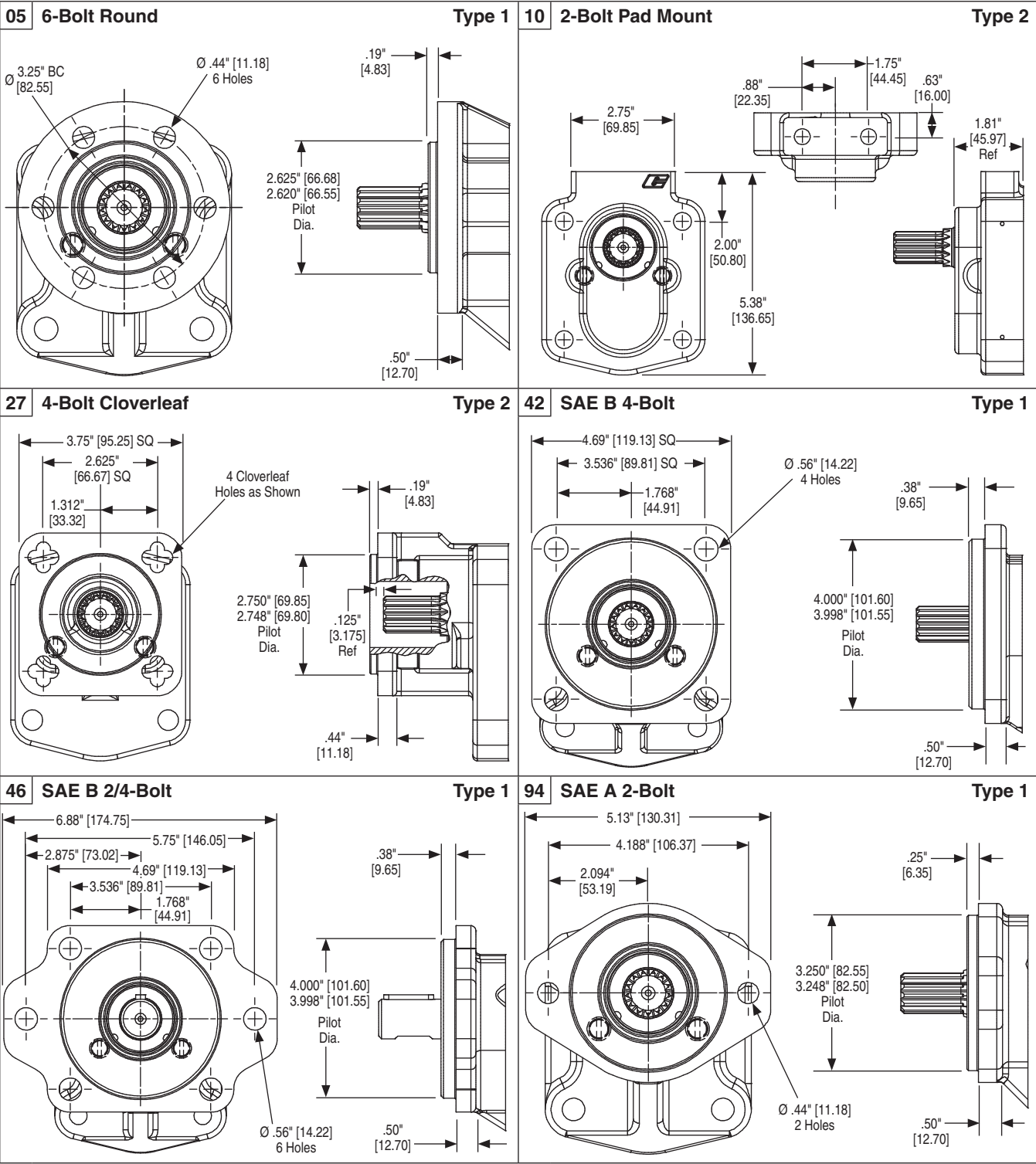
SEC CODE	05	07	10	12	15	17	20
05	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
42	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
46	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
94	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
97	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]



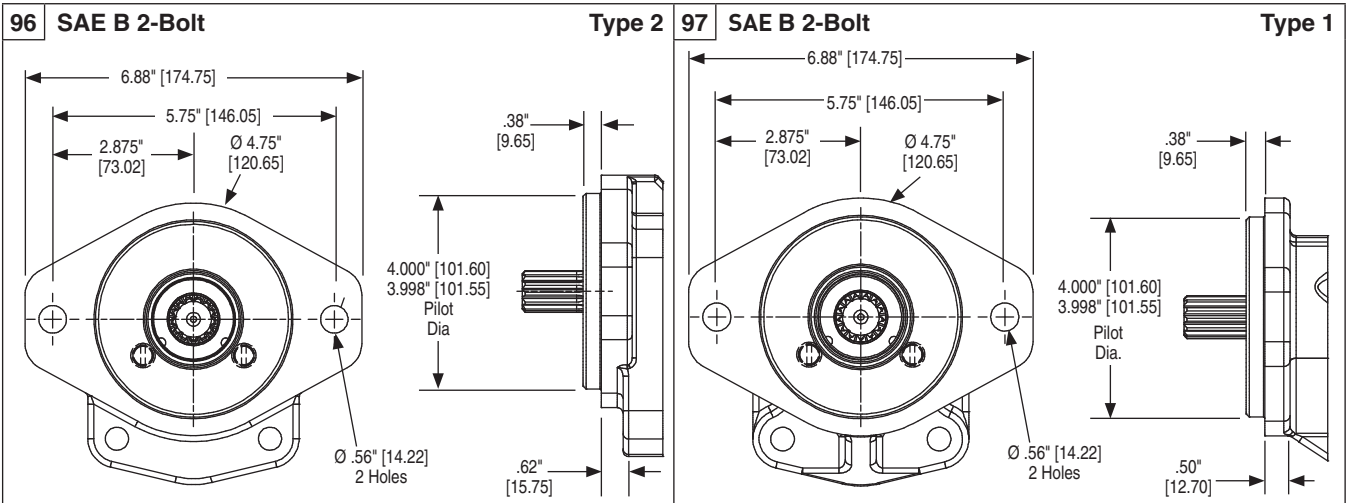
X DIMENSION – Type 2

SEC CODE	05	07	10	12	15	17	20
10	4.81" [122.17]	5.06" [128.52]	5.31" [134.87]	5.56" [141.22]	5.81" [147.57]	6.06" [153.92]	6.31" [160.27]
27	6.56" [166.62]	6.81" [172.97]	7.06" [179.32]	7.31" [185.67]	7.56" [192.02]	7.81" [198.37]	8.06" [204.72]
96	4.81" [122.17]	5.06" [128.52]	5.31" [134.87]	5.56" [141.22]	5.81" [147.57]	6.06" [153.92]	6.31" [160.27]

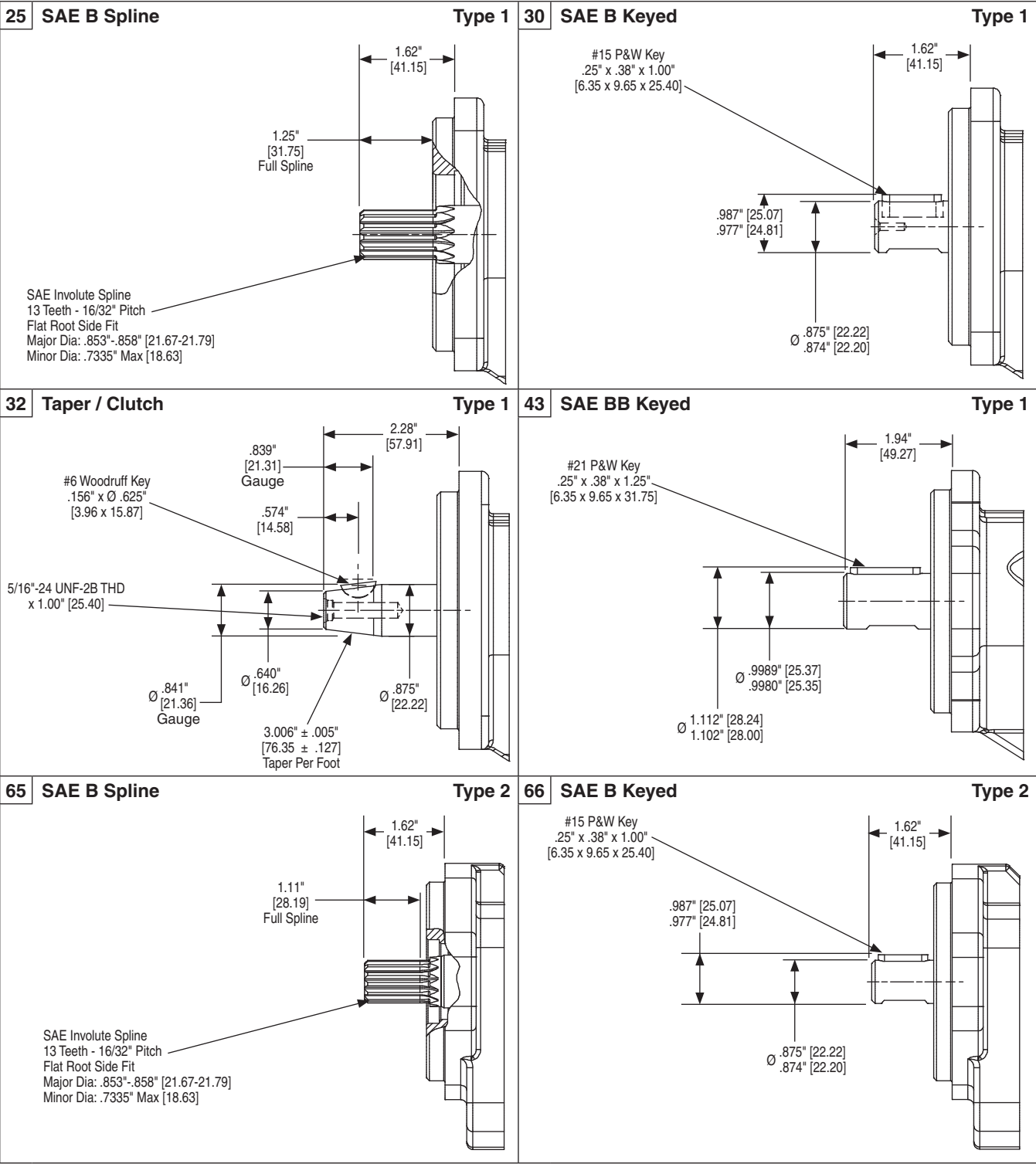
RPGP/RPGM020 Shaft End Covers (cont.)



RPGP/RPGM020 Shaft End Covers (cont.)



RPGP/RPGM020 Drive Shafts

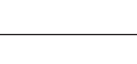


RPGP/RPGM020 Drive Shafts (cont.)

67 SAE BB Keyed Type 2 #21 P&W Key .25" x .38" x 1.25" [6.35 x 9.65 x 31.75] 1.94" [49.27] Ø .9988" [25.37] Ø .9984" [25.36] 1.112" [28.24] 1.102" [28.00]	68 6 Tooth Spline Type 1 1.62" [41.15] 1.625" [41.27] Full Spline 6 Tooth Spline Major Dia: .995"-.997" [25.27-25.32] Minor Dia: .820"-.824" [20.83-20.93] Tooth THK: .244"-.245" [6.20-6.22]
90 SAE B Keyed + THD Type 1 #15 Woodruff Key .25" x Ø 1.00" [6.35 x 25.40] 2.44" [61.97] 1.34" [34.04] .987" [25.07] .977" [24.81] Ø .875" [22.22] Ø .874" [22.20] Ø .16" [4.06] 5/8"-18 UNF-2A THD	95 SAE A Spline Type 1 1.25" [31.75] .94" [23.87] Full Spline SAE Involute Spline 9 Teeth - 16/32" Pitch Flat Root Side Fit Major Dia: .603"-.609" [15.32-15.47] Minor Dia: .4835" Max [12.28]
98 SAE BB Spline Type 1 1.81" [45.97] 1.44" [36.57] Full Spline SAE Involute Spline 15 Teeth - 16/32" Pitch Flat Root Side Fit Major Dia: .978"-.983" [24.84-21.79] Minor Dia: .8585" Max [21.80]	

RPGP/RPGM020 Bearing Carrier Codes

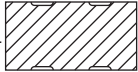
Pumps

Rotation Flow Path	NPT Porting Port size			ODT Porting Port Size			Split Flange Porting Port Size		
	Code	Left	Right	Code	Left	Right	Code	Left	Right
CD SHT RF 20-H1 	C	none	none	CB	1	none	LB	1	none
	TB	1	none	DB	1-1/4	none	-	-	-
	VB	1-1/4	none	FB	1-1/2	none	-	-	-
CD SHT RF 20-H4 	TX	1	3/4	CJ	1	3/4	LR	1	3/4
	VX	1-1/4	3/4	DJ	1-1/4	3/4	BR	none	3/4
	VZ	1-1/4	1	DK	1-1/4	1	-	-	-
	-	-	-	FJ	1-1/2	3/4	-	-	-
CD SHT RF 20-H5 	-	-	-	FK	1-1/2	1	-	-	-
	JT	3/4	1	RC	3/4	1	XL	3/4	1
	JV	3/4	1-1/4	RD	3/4	1-1/4	-	-	-
	KV	1	1-1/4	RF	3/4	1-1/2	-	-	-
	-	-	-	SD	1	1-1/4	-	-	-
CD SHT RF 20-H6 	-	-	-	SF	1	1-1/2	-	-	-
	TJ	1	3/4	CR	1	3/4	LX	1	-
	VJ	1-1/4	3/4	DR	1-1/4	3/4	-	-	-
	VK	1-1/4	1	DS	1-1/4	1	-	-	-
	-	-	-	FR	1-1/2	3/4	-	-	-
CD SHT RF 20-H7 	-	-	-	FS	1-1/2	1	-	-	-
	XT	3/4	1	JC	3/4	1	RB	3/4	none
	XV	3/4	1-1/4	JD	3/4	1-1/4	RL	3/4	1
	ZV	1	1-1/4	JP	3/4	none	-	-	-
	-	-	-	JF	3/4	1-1/2	-	-	-
	-	-	-	KD	1	1-1/4	-	-	-
CD SHT RF 20-H8 	-	-	-	KF	1	1-1/2	-	-	-
	ZX	1	3/4	KJ	1	3/4	SR	1	3/4
CD SHT RF 20-H9 	XZ	3/4	1	JK	3/4	1	RS	3/4	1
CD SHT RF 20-H10 	ZS	1	3/4	KX	1	3/4	RZ	1	3/4
CD SHT RF 20-H11 	SZ	3/4	1	XK	3/4	1	ZR	3/4	1

CW = Clockwise CCW = Counter Clockwise

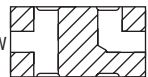
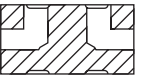
RPGP/RPGM020 Bearing Carrier Codes (cont.)

Motors

Rotation Flow Path	NPT Porting Port Size			ODT Porting Port Size			Split Flange Porting Port Size		
	Code	Left	Right	Code	Left	Right	Code	Left	Right
CD SHT RF 20-H16 DBL 	B	-	-	B	-	-	B	-	-

CW = Clockwise CCW = Counter Clockwise

Flow Dividers

Rotation Flow Path	NPT Porting Port Size			ODT Porting Port Size			Split Flange Porting Port Size		
	Code	Left	Right	Code	Left	Right	Code	Left	Right
CD SHT RF 20-H2 CCW 	D	none	none	BC	none	1	BL	none	1
	BT	none	1	BD	none	1-1/4	-	-	-
	BV	none	1-1/4	BF	none	1-1/2	-	-	-
CD SHT RF 20-H21 CW 	M	1	none	F	1	none	J	1	none
	N	1-1/4	none	G	1-1/4	none	-	-	-
	E	none	none	H	1-1/2	none	-	-	-
CD SHT RF 20-H24 CW 	BX	none	3/4	GJ	none	3/4	GR	none	3/4
	GX	1	3/4	HJ	1	3/4	HR	1	3/4
	HZ	1-1/4	3/4	MJ	1-1/4	3/4	MT	none	1
	LZ	1-1/4	1	RJ	1-1/2	3/4	-	-	-
	KZ	none	1	PK	1-1/4	1	-	-	-
	-	-	-	RK	1-1/2	1	-	-	-
	-	-	-	BK	none	1	-	-	-
CD SHT RF 20-H26 CW 	CV	none	3/4	JH	none	3/4	FD	none	3/4
	GV	1	3/4	PH	1	3/4	GD	1	3/4
	MV	1-1/4	3/4	RH	1-1/4	3/4	JG	none	1
	TK	1-1/4	1	WH	1-1/2	3/4	-	-	-
	NK	none	1	QC	1-1/4	1	-	-	-
	-	-	-	VC	1-1/2	1	-	-	-
	-	-	-	PC	none	1	-	-	-
CD SHT RF 20-H28 CW 	VG	1	3/4	MC	1	3/4	WL	1	3/4
CD SHT RF 20-H29 CW 	WG	1	3/4	SC	1	3/4	ZL	1	3/4

CW = Clockwise CCW = Counter Clockwise

RPGP/RPGM020 Ordering Code

Multiple Units:
Repeat if Necessary

RPG 1 020 2 3 4 4 5 5 6 6 7 7 8 8 9 9 6 6 7 7 10 10

1 – Description	
P	Pump
M	Motor

2 – Unit	
A	Single
B	Tandem

3 – Rotation / Shaft	
1	cw rotation
2	ccw rotation; no outboard bearing
3	Double rotation; no outboard bearing
4	cw rotation; with outboard bearing
5	ccw rotation; with outboard bearing
6	Double rotation; with outboard bearing
8	Double rotation; with outboard bearing (motor); 1/4" NPT drain
9	Double rotation; no outboard bearing (motor); 1/4" NPT drain

4 – Mount	
05	6-Bolt Flange 3.25" Dia. Bolt Circle
10	2-Bolt Pad Mount
27	4-Bolt Cloverleaf
42	SAE B 4-Bolt, ANSI 101-4
46	SAE B 2/4-Bolt, ANSI 101 – 2/4
94	SAE A 2-Bolt, ANSI 82-2
96	SAE B 2-Bolt, ANSI 101-2 Type II
97	SAE B 2-Bolt, ANSI 101-2

5 – Port Options			
Single Units		Port Size	
w/o ST	w/ST	Left	Right
NPT Porting			
BE	BY	No Port	No Port
KE	KY	3/4	None
LE	LY	None	3/4
ME	MY	3/4	3/4
QU	QQ	1	1
AI		3/4	1
EI		1	3/4

Tandem Units			
w/o ST	w/ST		
BI	BY	No Port	No Port
KI	KY	3/4	None
LI	LY	None	3/4
MI	MY	3/4	3/4
QD	QQ	1	1
AI		3/4	1
EI		1	3/4

5 – Port Options			
Single Units		Port Size	
w/o ST	w/ST	Left	Right
ODT Porting			
CE	CY	3/4	None
DE	DY	None	3/4
FE	FY	3/4	3/4
GE	GY	1	3/4
HE	HY	3/4	1
JE	JY	1	1
MA	YO	1	None
RA	RO	None	1

Tandem Units			
w/o ST	w/ST		
CI	CY	3/4	None
DI	DY	None	3/4
FI	FY	3/4	3/4
GI	GY	1	3/4
HI	HY	3/4	1
JI	JY	1	1
MU	YO	1	None
SU	RO	None	1

NOTE: w/o ST columns denote units without support studs w/ST columns denote units with support studs

6 – Gear Housing		
	Port Size	
	Left	Right
NPT Ports ≤ 3000 PSI		
AB	None	None
IL	1/2	None
IM	None	1/2
IR	1/2	1/2
IC	3/4	None
ID	None	3/4
IF	3/4	3/4
IG	3/4	1
IH	3/4	1-1/4
IJ	1	3/4
IK	1-1/4	3/4
YC	1	None
YD	None	1
YF	1	1
YG	1	1-1/4
YH	1	1-1/2
YJ	1-1/4	1
YK	1-1/2	1
IA	1-1/4	None
IB	None	1-1/4
YL	1-1/4	1-1/4

See chart on [page 5](#)

Continued on Next Page

RPGP/RPGM020 Ordering Code (cont.)

Multiple Units:
Repeat if Necessary

RPG 1 020 2 3 4 4 5 5 6 6 7 7 8 8 9 9 6 6 7 7 10 10

6 – Gear Housing		
	Port Size	
	Left	Right
ODT Tube Ports ≤ 2500 PSI		
AB	None	None
EC	3/4	None
ED	None	3/4
EF	3/4	3/4
EG	3/4	1
EH	3/4	1-1/4*
IN	3/4	1-1/2
EJ	1	3/4
EK	1-1/4*	3/4
IP	1-1/2	3/4
EZ	7/8	None
EL	7/8	1
EM	1	7/8
AC	1	None
AD	None	1
AF	1	1
AG	1	1-1/4*
AH	1	1-1/2
AJ	1-1/4*	1
AK	1-1/2	1
AA	1-1/4*	None
AO	None	1-1/4*
AL	1-1/4	1-1/4
AM	1-1/4	1-1/2
AP	1-1/2	1-1/4
AE	1-1/2	None
AU	None	1-1/2

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

6 – Gear Housing		
	Port Size	
	Left	Right
ODT Tube Ports ≤ 3000 PSI		
AB	None	None
EC	3/4	None
ED	None	3/4
EF	3/4	3/4
EG	3/4	1*
EH	3/4	1-1/4*
IN	3/4	1-1/2*
EJ	1*	3/4
EK	1-1/4*	3/4
IP	1-1/2*	3/4
EZ	7/8	None
EL	7/8	1*
EM	1*	7/8
AC	1*	None
AD	None	1*
AF	1	1
AG	1	1-1/4*
AH	1	1-1/2*
AJ	1-1/4*	1
AK	1-1/2*	1
AA	1-1/4*	None
AO	None	1-1/4*
AL	1-1/4	1-1/4
AM	1-1/4	1-1/2*
AP	1-1/2*	1-1/4
AE	1-1/2*	None
AU	None	1-1/2*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

6 – Gear Housing		
	Port Size	
	Left	Right
Split Flange Porting ≤ 3000 PSI		
AB	None	None
UC	3/4	None
UD	None	3/4
UF	3/4	3/4
UG	3/4	1
UH	3/4	1-1/4
UJ	1	3/4
UK	1-1/4	3/4
OC	1	None
OD	None	1
OF	1	1
OG	1	1-1/4
OH	1	1-1/2
OJ	1-1/4	1
OK	1-1/2	1
OA	1-1/4	None
OB	None	1-1/4
OL	1-1/4	1-1/4
OM	1-1/4	1-1/2
OP	1-1/2	1-1/4
OE	1-1/2	None
OU	None	1-1/2

Continued on Next Page

RPGP/RPGM020 Ordering Code (cont.)

Multiple Units:
Repeat if Necessary

RPG	1	020	2	3	4	4	5	5	6	6	7	7	8	8	9	9	6	6	7	7	10	10
-----	---	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	----

7 – Gear Housing		
NPT Ports ≤ 3000 PSI		
ODT Tube Ports ≤ 2500 and ≤ 3000 PSI		
Split Flange Ports ≤ 3000 PSI		
05	16.1 cm³/rev	0.99 in³/rev
07	24.2 cm³/rev	1.48 in³/rev
10	32.3 cm³/rev	1.97 in³/rev
12	40.4 cm³/rev	2.46 in³/rev
15	48.4 cm³/rev	2.96 in³/rev
17	56.5 cm³/rev	3.45 in³/rev
20	64.6 cm³/rev	3.94 in³/rev

8 – Drive Shafts	
25	SAE B Spline / ANSI 22-4
30	SAE B Keyed / ANSI 22-1
32	Clutch Pump Shaft
43	SAE B-B Keyed / ANSI 25-1 Modified
65	SAE B Spline / ANSI 22-4 Type II
66	SAE B Keyed / ANSI 22-1 Type II
67	SAE B Keyed / ANSI 22-1 Type II
68	1" DIA. 6 Tooth Spline Shaft
90	SAE B Threaded + Keyed / ANSI 22-2 Modified
95	SAE A Spline / ANSI 16-4
98	SAE B-B Spline / ANSI 25-4

9 – Bearing Carrier / Pumps		
	Port Size	
	Left	Right
NPT Ports		
C	none	none
TB	1	none
VB	1-1/4	none
TX	1	3/4
VX	1-1/4	3/4
VZ	1-1/4	1
JT	3/4	1
JV	3/4	1-1/4
KV	1	1-1/4
TJ	1	3/4
VJ	1-1/4	3/4
VK	1-1/4	1
XT	3/4	1
XV	3/4	1-1/4
ZV	1	1-1/4
ZX	1	3/4
XZ	3/4	1
ZS	1	3/4
SZ	3/4	1

9 – Bearing Carrier / Motors		
NPT Ports		
B	-	-

9 – Bearing Carrier / Pumps		
	Port Size	
	Left	Right
ODT Ports		
CB	1	none
DB	1-1/4	none
FB	1-1/2	none
CJ	1	3/4
DJ	1-1/4	3/4
DK	1-1/4	1
FJ	1-1/2	3/4
FK	1-1/2	1
RC	3/4	1
RD	3/4	1-1/4
RF	3/4	1-1/2
SD	1	1-1/4
SF	1	1-1/2
CR	1	3/4
DR	1-1/4	3/4
DS	1-1/4	1
FR	1-1/2	3/4
FS	1-1/2	1
JC	3/4	1
JD	3/4	1-1/4
JP	3/4	none
JF	3/4	1-1/2
KD	1	1-1/4
KF	1	1-1/2
KJ	1	3/4
JK	3/4	1
KX	1	3/4
XK	3/4	1

9 – Bearing Carrier / Motors		
ODT Ports		
B	-	-

Continued on Next Page

RPGP/RPGM020 Ordering Code (cont.)

														Multiple Units: Repeat if Necessary								
RPG	1	020	2	3	4	4	5	5	6	6	7	7	8	8	9	9	6	6	7	7	10	10

9 – Bearing Carrier / Pumps		
	Port Size	
	Left	Right
Split Flange Porting		
LB	1	none
LR	1	3/4
BR	none	3/4
XL	3/4	1
LX	1	
RB	3/4	none
RL	3/4	1
SR	1	3/4
RS	3/4	1
RZ	1	3/4
ZR	3/4	1

9 – Bearing Carrier / Motors		
Split Flange Porting		
B	-	-

9 – Bearing Carrier / Flow Dividers		
	Port Size	
	Left	Right
NPT Ports		
D	none	none
BT	none	1
BV	none	1-1/4
M	1	none
N	1-1/4	none
E	none	none
BX	none	3/4
GX	1	3/4
HZ	1-1/4	3/4
LZ	1-1/4	1
KZ	none	1
CV	none	3/4
GV	1	3/4
MV	1-1/4	3/4
TK	1-1/4	1
NK	none	1
VG	1	3/4
WG	1	3/4

9 – Bearing Carrier / Flow Dividers		
	Port Size	
	Left	Right
ODT Tube Ports		
BC	none	1
BD	none	1-1/4
BF	none	1-1/2
F	1	none
G	1-1/4	none
H	1-1/2	none
GJ	none	3/4
HJ	1	3/4
MJ	1-1/4	3/4
RJ	1-1/2	3/4
PK	1-1/4	1
RK	1-1/2	1
BK	none	1
JH	none	3/4
PH	1	3/4
RH	1-1/4	3/4
WH	1-1/2	3/4
QC	1-1/4	1
VC	1-1/2	1
PC	none	1
MC	1	3/4
SC	1	3/4

9 – Bearing Carrier / Flow Dividers		
	Port Size	
	Left	Right
Split Flange Porting		
BL	none	1
J	1	none
GR	none	3/4
HR	1	3/4
MT	none	1
FD	none	3/4
GD	1	3/4
JG	none	1
WL	1	3/4
ZL	1	3/4

10 – Connecting Shaft	
-1	For connecting tandem units. Connecting Shaft - Multiple Units

RPGP/RPGM031 Characteristics

- Original Commerical pump design
- Three-piece cast iron construction for assembly flexibility
- Durable high-strength cast iron body for excellent power to weight ratio
- Balanced thrust plates optimize pump efficiency
- Roller bearings for durability and resistance to fluid contamination
- Multiple sections available



Product Features	Description
Pump Type	Cast iron roller bearing, external gear
Mounting	SAE, Pad, 6-Bolt
Ports	SAE Straight Thread, Split Flange, NPT
Shaft Style	SAE splined, keyed or tapered
Pump Speed	900 to 2400 RPM
Motor Speed	800 to 2000 RPM
Maximum Displ.	3.9 in³/rev
Maximum Operating Pressure	3000 PSI

Product Features	Description
Fluids	Mineral oil
Fluid Temperature	Range of Operating Temperature -20 to 80°C (0 to 180°F)
Fluid Viscosity	50-7500 SUS
Direction of Rotation (looking at the driveshaft)	Clockwise, Counter Clockwise, Bi-Direction

RPGP/RPGM031 Specifications/Dimensions

RPGP/RPGM031 Specifications

RPGP031 Frame Size	05	07	10	12	15	17	20
Displacement – cm ³ /rev (in ³ /rev)	16.1 (0.99)	24.2 (1.48)	32.3 (1.97)	40.4 (2.46)	48.4 (2.96)	56.5 (3.45)	64.6 (3.94)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)
Max Speed – RPM	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Approximate Weight – Lbs. [kg]	30 [13.5]	31 [14]	33 [15]	34 [15.5]	35 [16]	36 [16.5]	37 [17]

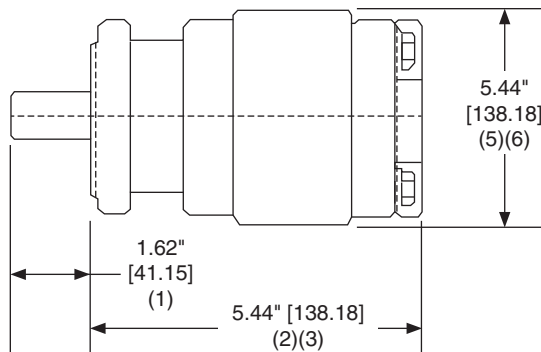
RPGM031 Frame Size	05	07	10	12	15	17	20
Displacement – cm ³ /rev (in ³ /rev)	16.1 (0.99)	24.2 (1.48)	32.3 (1.97)	40.4 (2.46)	48.4 (2.96)	56.5 (3.45)	64.6 (3.94)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)
Max Speed – RPM	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Approximate Weight – Lbs. [kg]	30 [13.5]	31 [14]	33 [15]	34 [15.5]	35 [16]	36 [16.5]	37 [17.0]

RPGP/RPGM031 Dimensions

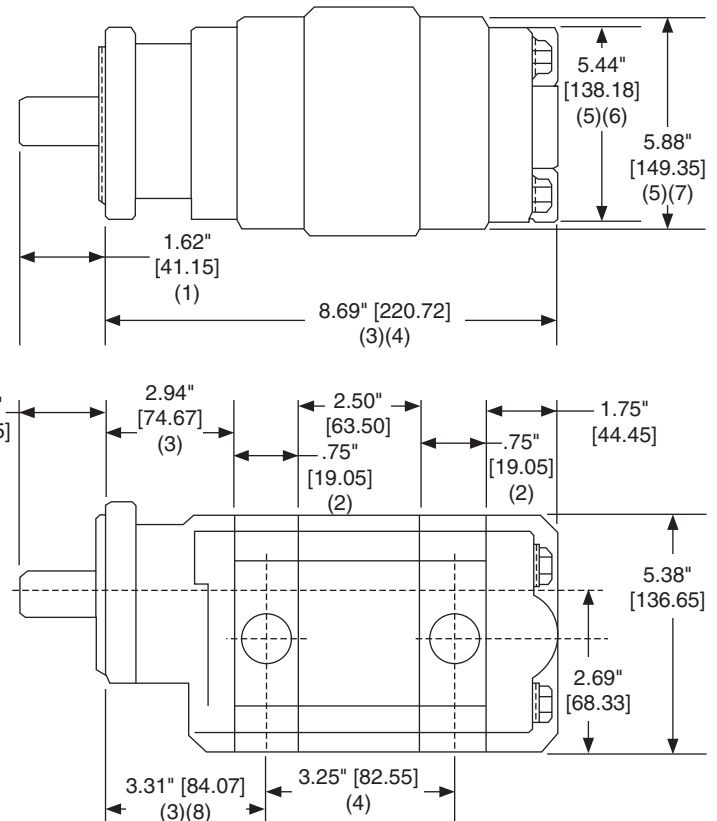
NOTES

1. Dimension will vary with shaft type
2. Dimension + gear width
3. Dimension is for Type 1 SEC. For Type 2: subtract 1.12" (28.4 mm) for 031
4. Dimension + total gear width
5. Dimension will vary with port type. Subtract 0.25" (6.4 mm) for S.F. ports.
6. Dimension is for wide B-C. Narrow B-C dimensions: 5.00" (127 mm) for 031
7. Dimension + ½ front section gear width

Single Units



Multiple Units



RPGP/RPGM031 Performance Data

RPGP031

Flow data at 2500 PSI (172 bar) unless noted

Speed RPM	Gear Width Output (gpm/lpm)				
	1"	1 ¼"	1 ½"	1 ¾"	2"
900	6.5	8	10	12	13.5
	24.5	30	38	45.5	51
1200	9	11.5	14	16	18.5
	34	43.5	53	60.5	70
1500	11.5	14.5	17.5	20.5	23.5
	43.5	55	66	77.5	89
1800	14	18	21.5	25	29
	53	68	81.5	94.5	110
2100	16.5	21	25	29.5	34
	62.5	79.5	94.5	112	129
2400	19	24	29	34	39
	72	91	110	129	148

*Flow data at 2000 PSI (138 bar) rated pressure.

RPGP031

Input power at 2500 PSI (172 bar) unless noted

Speed RPM	Gear Width Inches (HP/kW)				
	1"	1 ¼"	1 ½"	1 ¾"	2"
900	14	17	20	23	25
	11	13	15	17	19
1200	19	22	26	30	33
	14	17	20	22	25
1500	23	28	33	37	42
	17	21	24	27	31
1800	27	33	39	44	50
	20	25	29	33	37
2100	32	38	45	51	58
	24	29	34	38	43
2400	36	44	51	58	66
	26	33	38	43	49

*Input power at 2000 PSI (138 bar)

RPGM031

Motor performance data at 2500 PSI (172 bar) unless noted.

Speed RPM	1" Gear			1 ½" Gear			2" Gear		
	Output		Input	Output		Input	Output		Input
	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow
800	675	8.5	9	1035	13	13	1385	17.5	17
	76.5	6.5	34	117	9.5	49	156.5	13	64.5
1200	685	13	13	1055	20	18	1410	27	23.5
	77.5	9.5	49	119	15	68	159.5	20	89
1600	680	17.5	16	1030	26	23	1390	35	30.5
	77	13	60.5	116.5	19.5	87	157	26	115
2000	660	21	19.5	1010	32	28	1370	43.5	37
	74.5	15.5	74	114	24	106	155	32.5	140

U.S./Metric

Torque:

In.-lbs.
Nm

Flow: GPM
LPM

Power: HP
kW

*Motor performance data at 2000 PSI (138 bar).

RPGP/RPGM031 Gear Housing

No Porting $\leq$ 2500 PSI

Order Code		Port Size		Gear Width Availability	
CW	CCW	In	Out	17	20
AB	AB	None	None	X	X

CW = Clockwise CCW = Counter Clockwise

No Porting $\leq$ 3000 PSI

Order Code		Port Size		Gear Width Availability		
CW	CCW	In	Out	10	12	15
AB	AB	None	None	X	X	X

RPGP/RPGM031 Gear Housing

ODT Tube Ports ≤ 2500 PSI

Order Code		ODT Tube Porting Port Size		Gear Width Availability	
CW	CCW	In	Out	17	20
EC	ED	3/4"	-	X	X
ED	EC	-	3/4"	X	X
EF	EF	3/4"	3/4"	X	X
EK	EH	1-1/4"	3/4"	X*	
IP	IN	1-1/2"	3/4"	X*	
AC	AD	1"	-	X	X
AD	AC	-	1"	X	X
AF	AF	1"	1"	X	X
AJ	AG	1-1/4"	1"	X*	X*
AK	AH	1-1/2"	1"	X*	X*
AA	AO	1-1/4"	-	X*	
AL	AL	1-1/4"	1-1/4"		X
AP	AM	1-1/2"	1-1/4"		X*
AE	AU	1-1/2"	-		X*

ODT Tube Ports ≤ 3000 PSI

Order Code		ODT Tube Porting Port Size		Gear Width Availability		
CW	CCW	In	Out	10	12	15
EC	ED	3/4"	-	X*	X	X
ED	EC	-	3/4"		X	X
EF	EF	3/4"	3/4"		X	X
EJ	EG	1"	3/4"		X*	X*
EK	EH	1-1/4"	3/4"			X*
AC	AD	1"	-	X*	X*	2500
AD	AC	-	1"			2500
AF	AF	1"	1"			2500
AJ	AG	1-1/4"	1"			2500
AA	AO	1-1/4"	-			X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CWW = Counter Clockwise.

RPGP/RPGM031 Gear Housing

Split Flange Porting ≤ 3000 PSI

Order Code		Split Flange Porting Port Size		Gear Width Availability		
CW	CCW	In	Out	10	12	15
UC	UD	3/4"	-	X	X	X
UD	UC	-	3/4"	X	X	X
UF	UF	3/4"	3/4"	X	X	X
UJ	UG	1"*	3/4"	X*	X	
UK	UH	1-1/4"*	3/4"		X*	X*
OC	OD	1"*	-	2500	X	X
OD	OC	-	1"	2500	X	X
OF	OF	1"	1"	2500	X	X
OJ	OG	1-1/4"*	1"		X*	X*
OA	OB	1-1/4"*	-		X*	2500
OB	OA	-	1-1/4"			2500

Split Flange Porting ≤ 2500 PSI

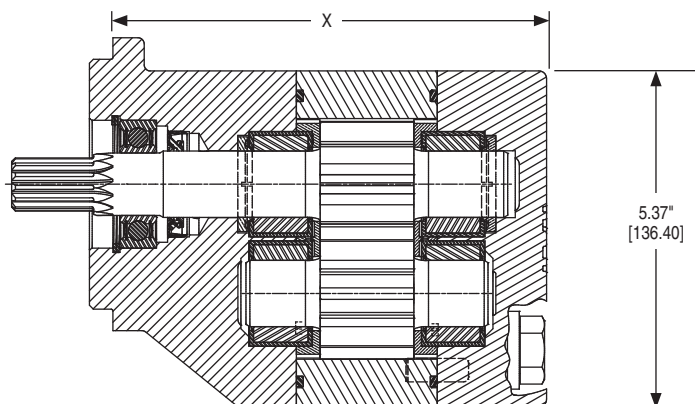
Order Code		Split Flange Porting Port Size		Gear Width Availability	
CW	CCW	In	Out	17	20
UC	UD	3/4"	-	X	
UD	UC	-	3/4"	X	
OF	OF	1"	1"	X	X
OJ	OG	1-1/4"*	1"	X	X
OK	OH	1-1/2"*	1"	X*	X*
OL	OL	1-1/4"	1-1/4"	X	X
OP	OM	1-1/2"*	1-1/4"	X*	X*
OE	OU	1-1/2"*	-	X*	X
OU	OE	-	1-1/2"		X

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CWW = Counter Clockwise.

RPGP/RPGM031 Shaft End Covers



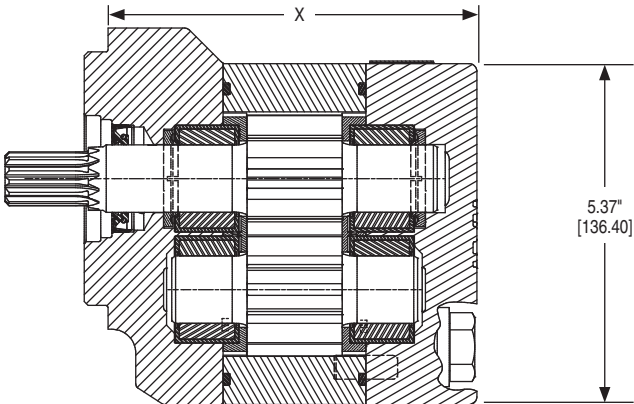
X DIMENSION – Type 1

SEC CODE	05	07	10	12	15	17	20
00	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
05	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
42	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
78	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
94	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]
97	5.94" [150.88]	6.19" [157.23]	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]

X DIMENSION – Type 1 (w/Extra Wide PEC 312 3420 100)

SEC CODE	05	07	10	12	15	17	20
00	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]	7.69" [195.33]	7.94" [201.68]
05	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]	7.69" [195.33]	7.94" [201.68]
42	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]	7.69" [195.33]	7.94" [201.68]
78	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]	7.69" [195.33]	7.94" [201.68]
94	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]	7.69" [195.33]	7.94" [201.68]
97	6.44" [163.58]	6.69" [169.93]	6.94" [176.28]	7.19" [182.63]	7.44" [188.98]	7.69" [195.33]	7.94" [201.68]

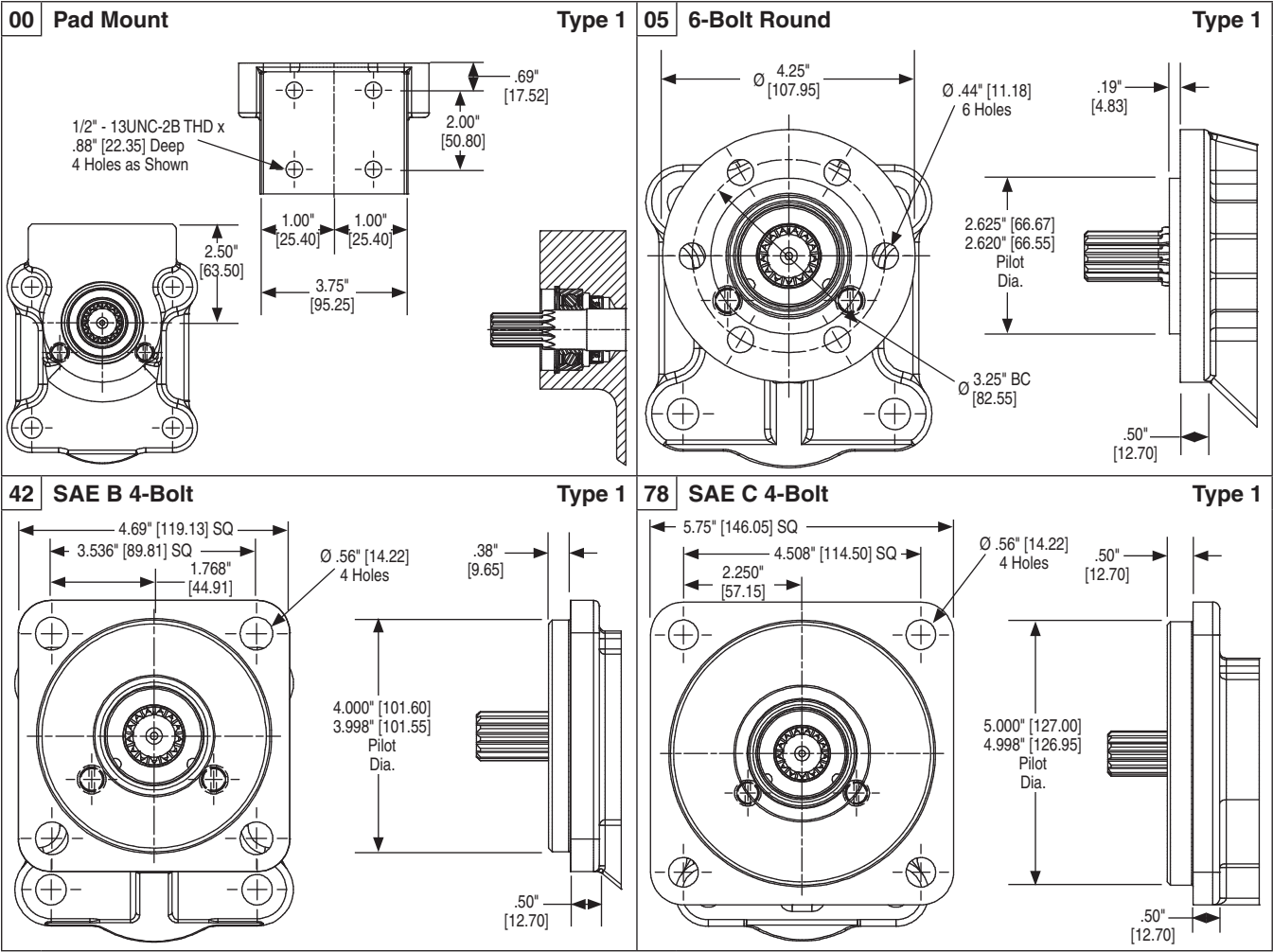
RPGP/RPGM031 Shaft End Covers (cont.)



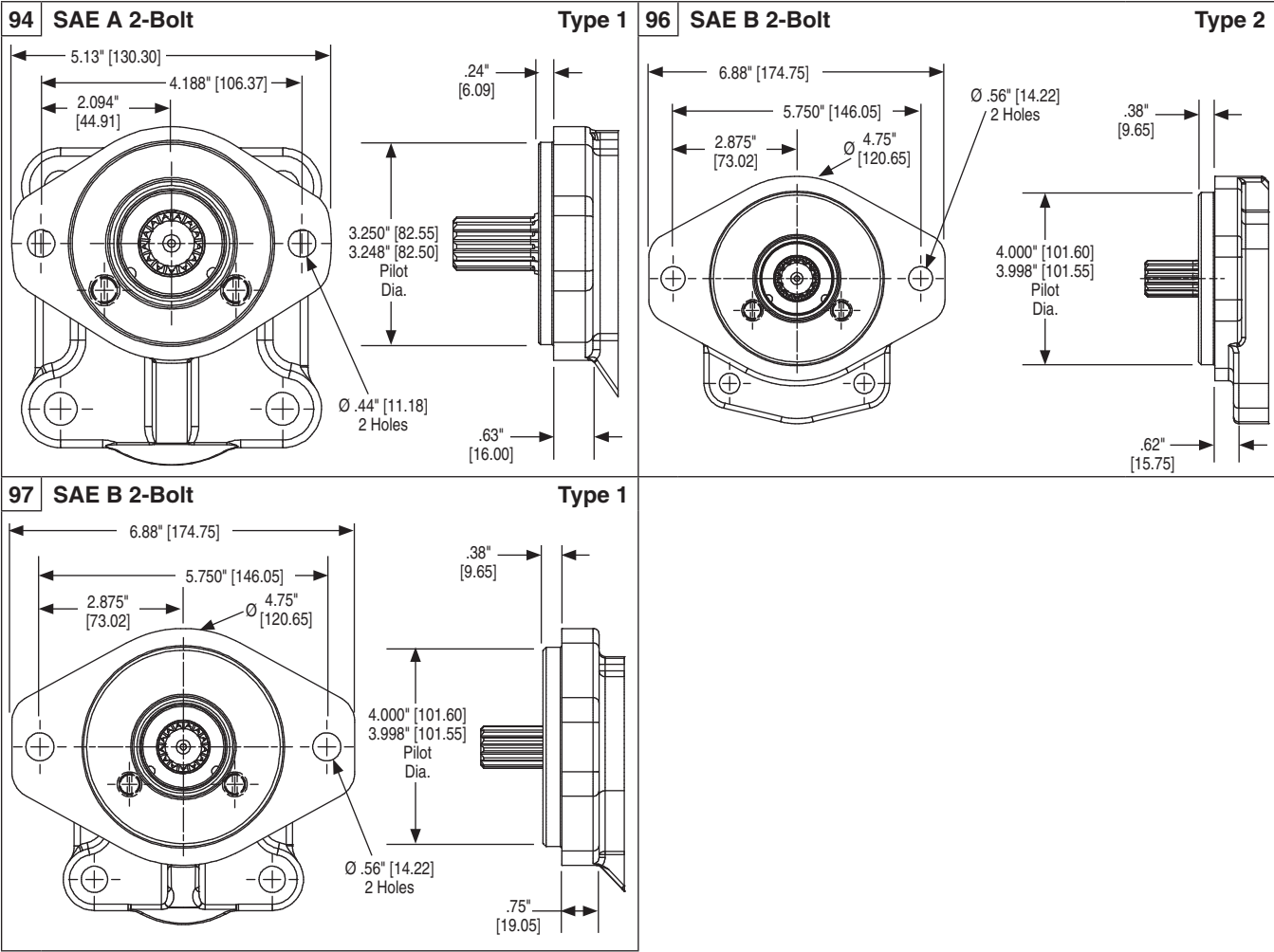
X DIMENSION – Type 2							
SEC CODE	05	07	10	12	15	17	20
96	4.81" [122.17]	5.06" [128.52]	5.31" [134.87]	5.56" [141.22]	5.81" [147.57]	6.06" [153.92]	6.31" [160.27]

X DIMENSION – Type 2 (w/Extra Wide PEC 312 3420 100)							
SEC CODE	05	07	10	12	15	17	20
96	5.31" [134.87]	5.56" [141.22]	5.81" [147.57]	6.06" [153.92]	6.31" [160.27]	6.56" [166.62]	6.81" [172.97]

RPGP/RPGM031 Shaft End Covers (cont.)



RPGP/RPGM031 Shaft End Covers (cont.)



RPGP/RPGM031 Drive Shafts

25 SAE B Spline / ANSI 22-4 Type 1 SAE Involute Spline 16/32 Pitch - 13 Teeth Flat Root Side Fit Major Dia. .853"-.858" [21.67-21.79] Minor Dia. .7335" [18.63] Max.	30 SAE B Keyed / ANSI 22-1 Type 1 #15 P&W Key .25" x .38" x 1.00" [6.35 x 9.65 x 25.40] Ø .875" [22.23] Ø .874" [22.20] .987" [25.07] .977" [24.82]
32 Clutch Pump Shaft Type 1 #6 Woodruff Key .156" x Ø.625" [3.96 x 15.87] 5/16"-24 UNF-2B THD x 1.00" [25.40] Deep Ø.841" [21.36] Gauge Ø.640" [16.26] Ø.875" [22.22] 3.006" ± .005" [76.35 ± .127] Taper Per Foot .839" [21.31] Gauge .574" [14.58] 2.28" [57.91]	43 SAE BB Keyed / ANSI 25-1 Type 1 #21 P&W Key .25" x .38" x 1.25" [6.35 x 9.65 x 31.75] Ø .9989" [25.37] Ø .9980" [25.35] 1.112" [28.24] 1.102" [27.99]
65 SAE B Spline / ANSI 22-4 Type 2 SAE Involute Spline 16/32 Pitch - 13 Teeth Flat Root Side Fit Major Dia. .853"-.858" [21.67-21.79] Minor Dia. .7335" [18.63] Max.	66 SAE B Keyed, Type 2 #15 P&W Key .25" x .38" x 1.00" [6.35 x 9.65 x 25.40] Ø .875" [22.22] Ø .874" [22.20] .987" [25.07] .977" [24.82]

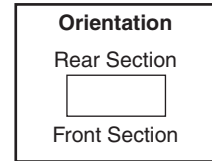
RPGP/RPGM031 Drive Shafts (cont.)

67 SAE BB Keyed / ANSI 25-1 Modified,, Type 2 #21 P&W Key .25" x .38" x 1.25" [6.35 x 9.65 x 31.75] 1.94" [49.27] Ø.9988" [25.37] Ø.9984" [25.36] 1.112" [28.24] 1.102" [27.99]	68 1.00" Dia. 6 Tooth Spline Shaft Type 1 1.62" [41.15] 1.625" [41.27] Full Spline 6 Tooth Spline Major Dia. .995"-.997" [25.27-25.32] Minor Dia. .820"-.824" [20.87-20.93] Tooth THK: .244"-.245" [6.20-6.22]
90 SAE B Keyed / ANSI 22-2 Modified Type 1 #15 Woodruff Key .25" x Ø1.00" [6.35 x 25.40] 2.44" [61.98] 1.34" [34.04] Ø.875" [22.24] Ø.874" [22.20] Ø.16" [4.06] 5/8"-18 UNF-2A THD .987" [25.07] .977" [24.82]	95 SAE A Spline / ANSI 16-4 Type 1 1.25" [31.75] .94" [23.88] Full Spline SAE Involute Spline 9 Teeth - 16/32 Pitch Flat Root Side Fit Major Dia. .603"-.609" [15.32-15.47] Minor Dia. .4835 Max [12.28]
98 SAE BB Spline / ANSI 25-4 Type 1 1.81" [45.97] 1.44" [36.58] Full Spline SAE Involute Spline 15 Teeth - 16/32 Pitch Flat Root Side Fit Major Dia. .978"-.983" [24.84-24.97] Minor Dia. .8585 Max [21.80]	

RPGP031 Bearing Carrier Codes

Pumps

Common Inlet Passage			
			
-	-	C	D
-	-	A	U



Used when only one adjacent gear housing has an inlet port.

Rotation Flow Path	ODT Porting		Split Flange Porting		Port Size	
	CW	CCW	CW	CCW	In	Out
	CB	BC	LB	BL	1"	-
	DB	BD	MB	BM	1-1/4"	-
	FB	BF	NB	BN	1-1/2"	-
	-	-	BR	RB	-	3/4"
	CJ	JC	LR	RL	1"	3/4"
	DJ	JD	MR	RM	1-1/4"	3/4"
	FJ	JF	NR	RN	1-1/2"	3/4"
	DK	KD	MS	SM	1-1/4"	1"
	FK	KF	NS	SN	1-1/2"	1"
	CR	RC	LX	XL	1"	3/4"
	DR	RD	MX	XM	1-1/4"	3/4"
	DS	SD	MZ	ZM	1-1/4"	1"
	FS	SF	NZ	ZN	1-1/2"	1"
	KJ	JK	SR	RS	1"	3/4"
	KX	XK	RZ	ZR	1"	3/4"

CW = Clockwise CCW = Counter Clockwise

Rotation Flow Path	ODT Porting	Split Flange Porting	Port Size	
	DUAL	DUAL	In	Out
	CC	LL	1"	1"
	BB	MM	1-1/4"	1-1/4"
	FF	NN	1-1/2"	1-1/2"

RPGP/RPGM031 Ordering Code

Multiple Units:
Repeat if Necessary

RPG	1	031	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	6	6	7	7	10	10
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1 – Description	
P	Pump
M	Motor

2 – Unit	
A	Single
B	Tandem
C	Single or Tandem w/2-pc Shaft (O.B. bearing required)

3 – Rotation / Shaft	
1	Pump, cw w/o O.B. bearing
2	Pump, ccw w/o O.B. bearing
4	Pump, cw with O.B. bearing
5	Pump, ccw with O.B. bearing
8	Motor, bi-rot. with O.B. bearing; 1/4" NPT drain
9	Motor, bi-rot. w/o O.B. bearing; 1/4" NPT drain

4 – Mount	
00	Pad mount
05	6-Bolt Flange - 3.25" dia. bolt circle: Port Dia. 2-5/8"
42	SAE 4-Bolt B ANSI 101-4: Port Dia. 4"
78	SAE 4-Bolt C ANSI 127-4: Port Dia. 5"
94	SAE 2-Bolt A ANSI 82-2: Port Dia. 3-1/4"
96*	SAE 2-Bolt B ANSI 101-2, type 2 : Port Dia. 4"
97	SAE 2-Bolt B ANSI 101-2: Port Dia. 4"

*(not available with O.B. bearing)

5 – Port Options					
Single Units		Tandem Units		Port Size	
w/o ST	w/ST	w/o ST	w/ST	Left	Right
Unported					
BE	BY	BI	BY	-	-
ODT Rear Ported					
CE	CY	CI	CY	3/4"	-
DE	DY	DI	DY	-	3/4"
FE	FY	FI	FY	3/4"	3/4"
GE	GY	GI	GY	1"	3/4"
HE	HY	HI	HY	3/4"	1"
ODT Rear Ported - Modified Casting*					
CA	CO	CU	CO	3/4"	-
DA	DO	DU	DO	-	3/4"
JA	BO	JU	BO	3/4"	3/4"
KA	-	KU	-	1"	3/4"
LA	-	LU	-	3/4"	1"
MA	YO	MU	YO	1"	-
RA	RO	SU	RO	-	1"
ZA	ZO	ZU	ZO	1"	1"
GU	-	GU	-	1-1/4"	1"
HU	-	HU	-	1"	1-1/4"
ODT Side Ported - Modified Casting*					
TU	-	TU	-	1-1/4"	1"
XU	-	XU	-	1	1-1/4"
Piggyback Port End - Pump Only					
Type 031-031			CW	CCW	Double
			KO	LO	MO
NOTE: w/o ST columns denote units without support studs; w/ST columns denote units with support studs					
*Modified PEC casting is for higher pressure/larger port applications.					

FOR ALL UNITS

To determine direction of shaft rotation, view the unit with the shaft pointing toward you, and the idler (driven) gear beneath the shaft. With clockwise rotation, flow will be left to right. The inlet pump port will be on the left, outlet on the right. The flow is in the opposite direction with counter-clockwise rotation. Inverting the pump will reverse the inlet and outlet ports but not the direction of rotation.

Continued on Next Page

RPGP/RPGM031 Ordering Code (cont.)

Multiple Units:
Repeat if Necessary

RPG	1	031	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	6	6	7	7	10	10
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6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
No Porting ≤ 3000 PSI			
AB	AB	None	None
No Porting ≤ 2500 PSI			
AB	AB	None	None

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
ODT Tube Porting ≤ 3000 PSI			
EC	ED	3/4"	-
ED	EC	-	3/4"
EF	EF	3/4"	3/4"
EJ	EG	1"	3/4"
EK	EH	1-1/4"	3/4"
AC	AD	1"	-
AD	AC	-	1"
AF	AF	1"	1"
AJ	AG	1-1/4"	1"
AA	AO	1-1/4"	-
ODT Tube Porting ≤ 2500 PSI			
EC	ED	3/4"	-
ED	EC	-	3/4"
EF	EF	3/4"	3/4"
EK	EH	1-1/4"	3/4"
IP	IN	1-1/2"	3/4"
AC	AD	1"	-
AD	AC	-	1"
AF	AF	1"	1"
AJ	AG	1-1/4"	1"
AK	AH	1-1/2"	1"
AA	AO	1-1/4"	-
AL	AL	1-1/4"	1-1/4"
AP	AM	1-1/2"	1-1/4"
AE	AU	1-1/2"	-

*Ports designated by an asterisk * are for use as the low-pressure inlet port only.

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
Split Flange Porting ≤ 3000 PSI			
UC	UD	3/4"	-
UD	UC	-	3/4"
UF	UF	3/4"	3/4"
UJ	UG	1"	3/4"
UK	UH	1-1/4"	3/4"
OC	OD	1"	-
OD	OC	-	1"
OF	OF	1"	1"
OJ	OG	1-1/4"	1"
OA	OB	1-1/4"	-
OB	OA	-	3/4"
Split Flange Porting ≤ 2500 PSI			
UC	UD	3/4"	-
UD	UC	-	3/4"
OF	OF	1"	1"
OJ	OG	1-1/4"	1"
OK	OH	1-1/2"	1"
OL	OL	1-1/4"	1-1/4"
OP	OM	1-1/2"	1-1/4"
OE	OU	1-1/2"	-
OU	OE	-	1-1/2"

*Ports designated by an asterisk * are for use as the low-pressure inlet port only.

RPGP/RPGM031 Ordering Code

																Multiple Units: Repeat if Necessary							
RPG	1	031	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	6	6	7	7	10	10

7 – Gear Width					
Order Code	Gear Width	in. ³ /rev.	cm ³ /rev.	Max Pressure	
				PSI	bar
ODT Tube Ports ≤ 2500 and ≤ 3000 PSI Split Flange Ports ≤ 2500 and ≤ 3000 PSI					
05	1/2"	0.99	16.1	3000	207
07	3/4"	1.48	24.2	3000	207
10	1"	1.97	32.3	3000	207
12	1-1/4"	2.46	40.4	3000	207
15	1-1/2"	2.96	48.4	3000	207
17	1-3/4"	3.45	56.5	2500	172
20	2"	3.94	64.6	2500	172

8 – Drive Shafts (type 1 unless noted) For single, tandem, or two-piece shaft unless noted.	
25	SAE B 13 tooth spline .88" dia., ANSI 22-4
30	SAE B keyed .88" dia., 1/4" x 3/8" x 1" key, ANSI 22-1
32	Clutch pump shaft, tapered & keyed, 1:4 taper (single & two piece), #6 woodruff key
43	SAE BB keyed 1.00" dia., 1/4" x 3/8" x 1-1/4" key, ANSI 25-1 modified length
65	SAE B 13 tooth spline .875" dia., ANSI 22-4, type 2 (single & tandem)
66	SAE B keyed .88" dia., 1/4"x3/8"x1" key, type 2 (single & tandem)
67	SAE BB keyed 1.00" dia., 1/4" x 3/8" x 1-1/4" key, ANSI 25-1 modified length, type 2 (single & tandem)
68	6 tooth spline 1.00" dia.
90	SAE B keyed w/ 5/8"-18 thread, .875" dia., ANSI 22-2 modified length (single & tandem)
95	SAE A 9 tooth spline, .62" dia., ANSI 16-4 (single only)
98	SAE BB 15 tooth spline, 1.00" dia., ANSI 25-4 (single & tandem)

9 – Bearing Carrier / Pumps			
CW	CCW	Port Size	
		In	Out
ODT Porting			
CB	BC	1"	-
DB	BD	1-1/4"	-
FB	BF	1-1/2"	-
CJ	JC	1"	3/4"
DJ	JD	1-1/4"	3/4"
FJ	JF	1-1/2"	3/4"
DK	KD	1-1/4"	1"
FK	KF	1-1/2"	1"
CR	RC	1"	3/4"
DR	RD	1-1/4"	3/4"
DS	SD	1-1/4"	1"
FS	SF	1-1/2"	1"
KJ	JK	1"	3/4"
KX	XK	1"	3/4"
Split Flange Porting			
LB	BL	1"	-
MB	BM	1-1/4"	-
NB	BN	1-1/2"	-
BR	RB	-	3/4"
LR	RL	1"	3/4"
MR	RM	1-1/4"	3/4"
NR	RN	1-1/2"	3/4"
MS	SM	1-1/4"	1"
NS	SN	1-1/2"	1"
LX	XL	1"	3/4"
MX	XM	1-1/4"	3/4"
MZ	ZM	1-1/4"	1"
NZ	ZN	1-1/2"	1"
SR	RS	1"	3/4"
RZ	ZR	1"	3/4"

9 – Bearing Carrier / Motors		
DUAL	Port Size	
	In	Out
ODT Porting		
CC	1"	1"
BB	1-1/4"	1-1/4"
FF	1-1/2"	1-1/2"
Split Flange Porting		
LL	1"	1"
MM	1-1/4"	1-1/4"
NN	1-1/2"	1-1/2"

10 – Connecting Shaft	
For connecting tandem units.	
01	Connecting Shaft - Multiple Units
14	Piggyback Pump Connecting Shaft 031 to 031
22	Piggyback Pump Connecting Shaft 051 to 031
23	Piggyback Pump Connecting Shaft 076 to 031

NOTE: Split flange thread depths may be more shallow than SAE standard. Contact Product Support Department for actual dimensions.

RPGP/RPGM051 Characteristics

- Original Commerical pump design
- Three-piece cast iron construction for assembly flexibility
- Durable high-strength cast iron body for excellent power to weight ratio
- Balanced thrust plates optimize pump efficiency
- Roller bearings for durability and resistance to fluid contamination
- Multiple sections available



Product Features	Description
Pump Type	Cast iron, Fixed
Mounting	SAE, DIN
Ports	SAE, Split Flange, NPT
Shaft Style	SAE, DIN
Pump Speed	900 to 2400 RPM
Motor Speed	800 to 2000 RPM
Maximum Displ.	6.4 in³/rev
Maximum Operating Pressure	3000 PSI

Product Features	Description
Fluids	Standard Hydraulic Fluid, Phosphate Ester
Fluid Temperature	Range of Operating Temperature -20 to 80°C (0 to 180°F)
Fluid Viscosity	50-7500 SUS
Direction of Rotation (looking at the driveshaft)	Clockwise, Counter Clockwise, Bi-Rotational

NOTE: Different types of pump options are available in terms of shaft, mounting and port type. Please contact RCHC.

RPGP/RPGM051 Specifications/Dimensions

RPGP/RPGM051 Specifications

RPGP051 Frame Size	05	07	10	12	15	17	20	22	25
Displacement – cm ³ /rev (in ³ /rev)	20.9 (1.28)	31.3 (1.91)	41.8 (2.55)	52.2 (3.19)	62.7 (3.83)	73.1 (4.46)	83.6 (5.10)	94.0 (5.74)	104.5 (6.38)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)	172 (2,500)
Max Speed – RPM	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Approximate Weight – Lbs. [kg]	34 [15.5]	35.5 [16]	37 [17]	38.5 [17.5]	40 [18]	41.5 [19]	43 [19.5]	48.5 [22]	50 [22.5]

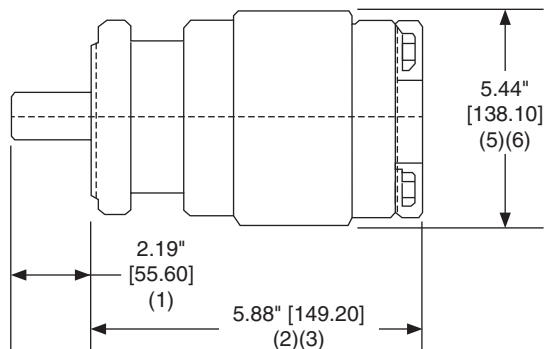
RPGM051 Frame Size	05	07	10	12	15	17	20	22	25
Displacement – cm ³ /rev (in ³ /rev)	20.90 (1.28)	31.30 (1.91)	41.80 (2.55)	52.20 (3.19)	62.70 (3.83)	73.10 (4.46)	83.60 (5.10)	94.00 (5.74)	104.50 (6.38)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)	172 (2,500)
Max Speed – RPM	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Approximate Weight – Lbs. [kg]	34 [15.5]	35.5 [16.0]	37 [17.0]	38.5 [17.5]	40 [18]	41.5 [19]	43 [19.5]	48.5 [22]	50 [22.5]

RPGP/RPGM051 Dimensions

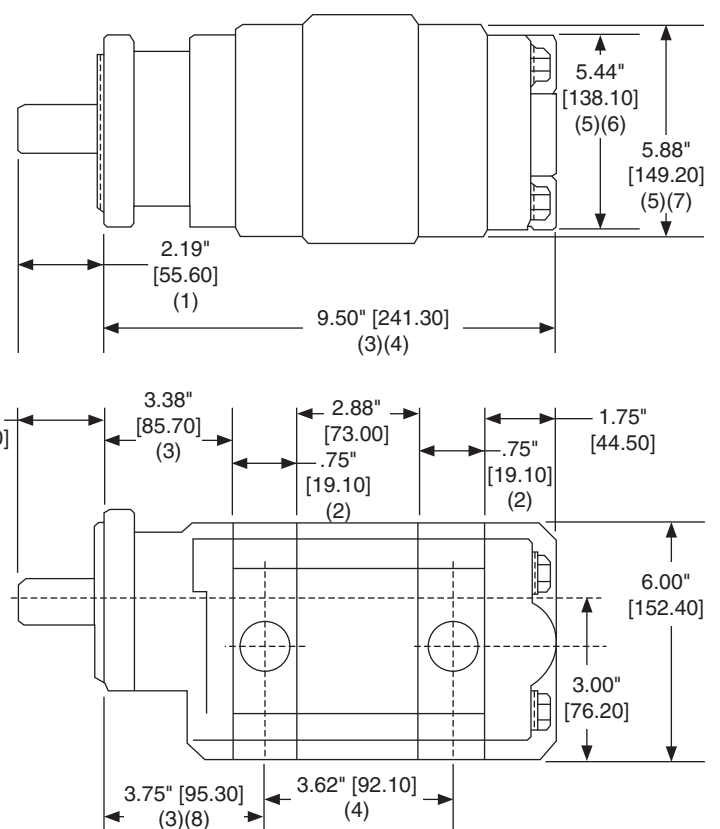
NOTES

1. Dimension will vary with shaft type
2. Dimension + gear width
3. Dimension is for Type 1 SEC.
Type 2: subtract 1.00" (25.4 mm)
4. Dimension + total gear width
5. Dimension will vary with port type. Subtract 0.25" (6.4 mm) for S.F. ports.
6. For 2.25" and 2.50" gear width, dimension is 6.75" (171.5 mm).
7. Dimension is for wide B-C. Narrow B-C dimensions: 5.00" (127 mm)
8. Dimension + ½ front section gear width

Single Units



Multiple Units



RPGP/RPGM051 Performance Data

RPGP051

Flow data at 2500 PSI (172 bar) unless noted

Speed RPM	Gear Width Output (gpm/lpm)						
	1"	1 ¼"	1 ½"	1 ¾"	2"	2 ¼"	2 ½"
900	8.5	10.5	13	15	17.5	20	22
	32	39.5	49	57	66	75.5	83.5
1200	12	15	18	21	24	27	30
	45.5	57	68	79.5	91	102	114
1500	15	19	23	27	31	35	39
	57	72	87	102	117	132	148
1800	18	23	27.5	32.5	37.5	42	47
	68	87	104	123	142	159	178
2100	21.5	27	32.5	38.5	44	49.5	55
	81.5	102	123	146	167	187	208
2400	25	31	37	44	51	57	63.5
	94.5	117	140	167	193	216	240

*Flow data at 2000 PSI (138 bar) rated pressure.

RPGP051

Input power at 2500 PSI (172 bar) unless noted

Speed RPM	Gear Width Inches (HP/Kw)						
	1"	1 ¼"	1 ½"	1 ¾"	2"	2 ¼"	2 ½"
900	19	22	26	30	34	38	42
	14	17	20	23	26	29	32
1200	25	30	34	40	45	51	56
	18	22	26	30	34	38	42
1500	31	37	43	50	56	63	69
	23	27	32	37	42	47	51
1800	36	44	51	59	67	75	82
	27	33	38	44	50	56	61
2100	42	51	60	69	78	87	96
	31	38	44	51	58	65	72
2400	47	57	68	79	89	99	110
	35	43	51	59	66	74	82

*Input power at 2000 PSI (138 bar)

RPGM051

Motor performance data at 2500 PSI (172 bar) unless noted.

Speed RPM	1" Gear			1 ½" Gear			2" Gear			2½" Gear		
	Output		Input	Output		Input	Output		Input	Output		Input
	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow
800	825	10.5	10.5	1310	16.5	15.5	1810	23	21	2330	29.5	26
	93	8	39.5	148	12.5	58.5	204.5	17	79.5	263.5	22	98.5
1200	850	16	15.5	1340	25.5	22.5	1830	35	30.5	2340	44.5	37.5
	96	12	58.5	151.5	19	85	207	26	115	264.5	33	142
1600	830	21	20	1330	34	30	1805	46	40	2300	58.5	49.5
	94	15.5	75.5	150.5	25.5	114	204	34.5	151	260	43.5	187
2000	800	25.5	25	1290	41	37	1770	56	49	2250	71.5	61.5
	90.5	19	94.5	146	30.5	140	200	42	185	254	53.5	233

U.S./Metric Torque: In.-lbs. Flow: GPM Power: HP
 Nm LPM kW

*Motor performance data at 2000 PSI (138 bar).

RPGP/RPGM051 Gear Housing

No Porting ≤ 3000 PSI

Order Code		Port Size		Gear Width Availability			
CW	CCW	In	Out	10	12	15	17
AB	AB	None	None	X	X	X	X

CW = Clockwise CCW = Counter Clockwise

No Porting ≤ 2500 PSI

Order Code		Port Size		Gear Width Availability		
CW	CCW	In	Out	20	22	25
AB	AB	None	None	X	X	X

CW = Clockwise CCW = Counter Clockwise

RPGP/RPGM051 Gear Housing

ODT Tube Porting ≤ 3000 PSI

Order Code		ODT Tube Porting Port Size		Gear Width Availability			
CW	CCW	In	Out	10	12	15	17
EC	ED	3/4"	-	X*	X*		X
ED	EC	-	3/4"				X
EF	EF	3/4"	3/4"			2500	X
EJ	EG	1"	3/4"				X*
EK	EH	1-1/4"	3/4"			2500*	X
AC	AD	1"	-	X*	X*	X*	X*
AA	AO	1-1/4"	-			X*	X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

ODT Tube Porting ≤ 2500 PSI

Order Code		ODT Tube Porting Port Size		Gear Width Availability		
CW	CCW	In	Out	20	22	25
AC	AD	1"	-	X		
AD	AC	-	1"	X		
AF	AF	1"	1"	X	X	X
AJ	AG	1-1/4"	1"	X*		
AK	AH	1-1/2"	1"	X*		X
AA	AO	1-1/4"	-		X	X
AO	AA	-	1-1/4"		X	X
AL	AL	1-1/4"	1-1/4"		X	X
AP	AM	1-1/2"	1-1/4"		X	X
AE	AU	1-1/2"	-	X*	X	X
AU	AE	-	1-1/2"			X
AR	AR	1-1/2"	1-1/2"			X

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CWW = Counter Clockwise.

RPGP/RPGM051 Gear Housing

Split Flange Porting ≤ 3000 PSI

Order Code		Split Flange Porting Port Size		Gear Width Availability			
CW	CCW	In	Out	10	12	15	17
UC	UD	3/4"	-	2500	X		
UD	UC	-	3/4"	2500	X		
UF	UF	3/4"	3/4"	2500	X	X	
UJ	UG	1"	3/4"	2500*	X*	X*	
UK	UH	1-1/4"	3/4"		X*	X*	X*
OC	OD	1"	-		X*	2500	X
OD	OC	-	1"			2500	X
OF	OF	1"	1"			2500	X
OJ	OG	1-1/4"	1"			2500*	X*
OK	OH	1-1/2"	1"			2500*	X*
OA	OB	1-1/4"	-		X*	X*	
OE	OU	1-1/2"	-			X*	X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

Split Flange Porting ≤ 2500 PSI

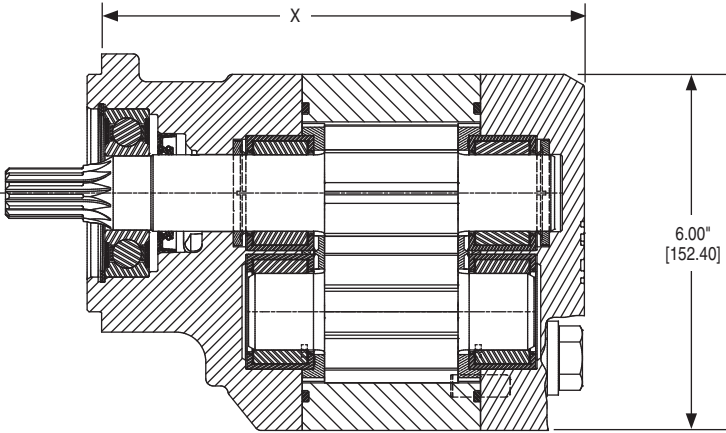
Order Code		Split Flange Porting Port Size		Gear Width Availability		
CW	CCW	In	Out	20	22	25
OC	OD	1"	-	X		
OD	OC	-	1"	X		
OF	OF	1"	1"	X	X	X
OJ	OG	1-1/4"	1"	X*		
OK	OH	1-1/2"	1"	X*	X	X
OL	OL	1-1/4"	1-1/4"	X	X	X
OP	OM	1-1/2"	1-1/4"	X*	X	X
OE	OU	1-1/2"	-	X*		
OR	OR	1-1/2"	1-1/2"		X	X
XB	ZB	2"	-	X*		
OQ	ON	2"	1-1/4"	X*	X*	X*
OV	OS	2"	1-1/2"		X*	X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

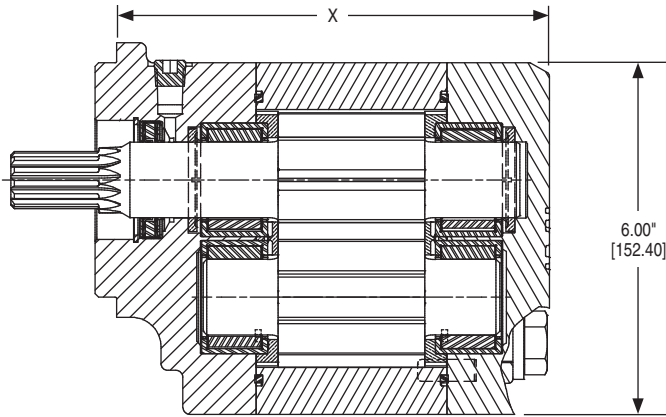
1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CCW = Counter Clockwise.

RPGP/RPGM051 Shaft End Covers



X DIMENSION – Type 1									
SEC CODE	05	07	10	12	15	17	20	22	25
00	6.62" [168.15]	6.87" [174.50]	7.12" [180.85]	7.37" [187.20]	7.62" [193.55]	7.87" [199.90]	8.12" [206.25]	8.37" [212.60]	8.62" [218.95]
42	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]	7.63" [193.80]	7.88" [200.15]	8.13" [206.50]	8.38" [212.85]
78	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]	7.63" [193.80]	7.88" [200.15]	8.13" [206.50]	8.38" [212.85]
97	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]	7.63" [193.80]	7.88" [200.15]	8.13" [206.50]	8.38" [212.85]
98	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]	7.63" [193.80]	7.88" [200.15]	8.13" [206.50]	8.38" [212.85]

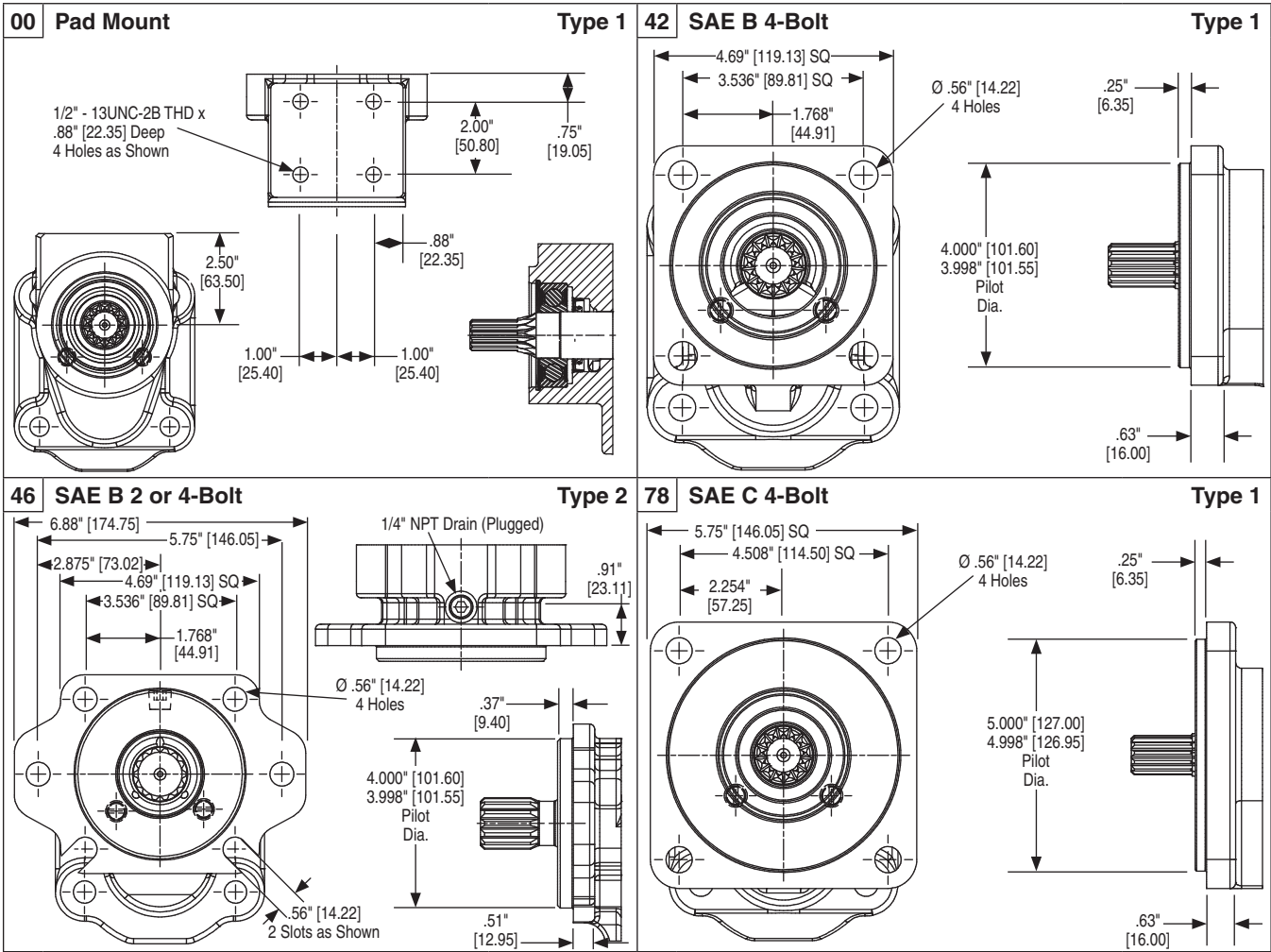
RPGP/RPGM051 Shaft End Covers (cont.)



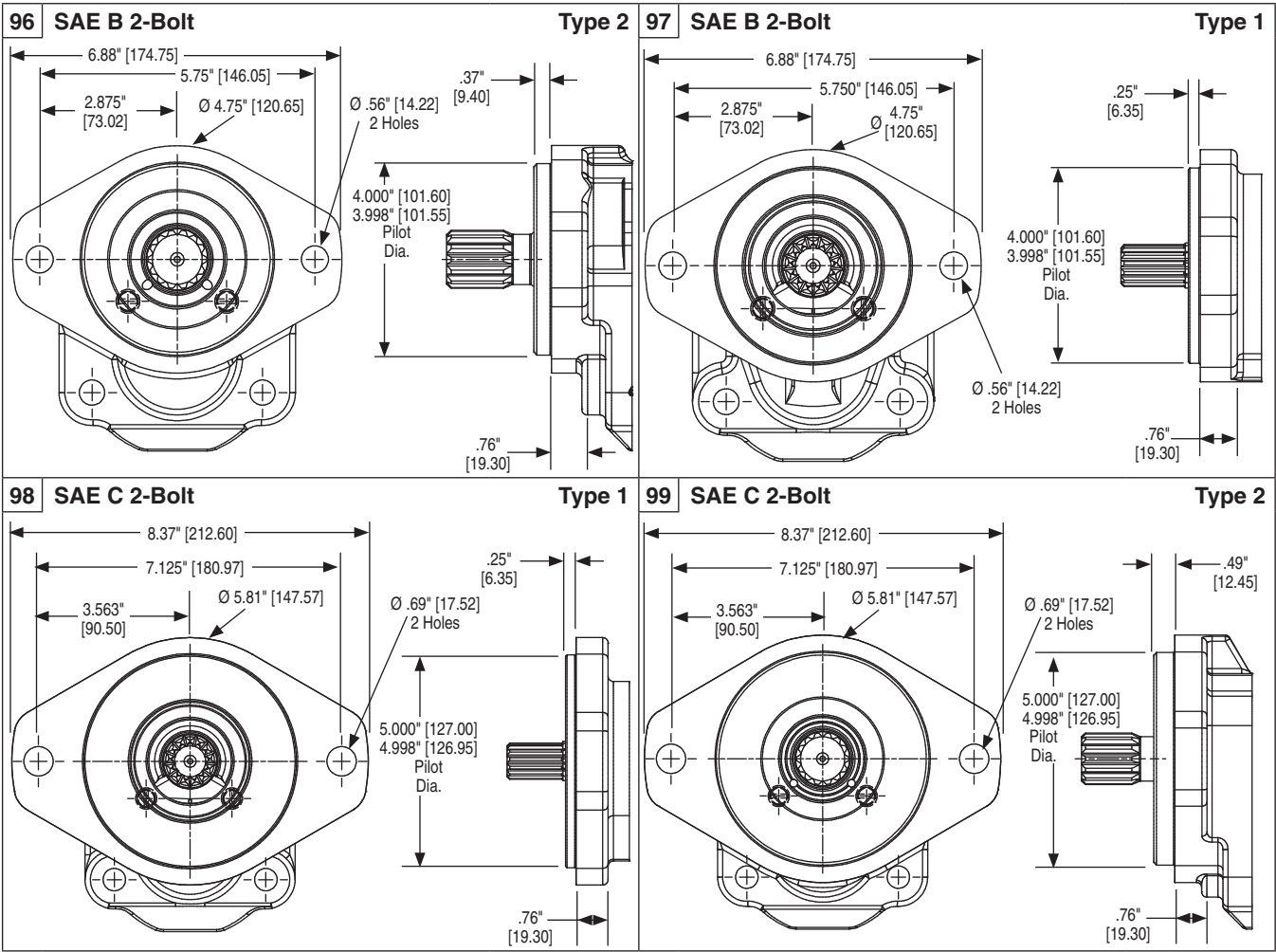
X DIMENSION – Type 2 (Standard PEC)									
SEC CODE	05	07	10	12	15	17	20	22	25
46	5.38" [136.65]	5.63" [143.00]	5.88" [149.35]	6.13" [155.70]	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]
96	5.38" [136.65]	5.63" [143.00]	5.88" [149.35]	6.13" [155.70]	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]
99	5.38" [136.65]	5.63" [143.00]	5.88" [149.35]	6.13" [155.70]	6.38" [162.05]	6.63" [168.40]	6.88" [174.75]	7.13" [181.10]	7.38" [187.45]

X DIMENSION – Type 2 (Large PEC)						
SEC CODE	12	15	17	20	22	25
46	6.76" [171.70]	7.01" [178.05]	7.26" [184.40]	7.51" [190.75]	7.76" [197.10]	8.01" [203.45]
96	6.76" [171.70]	7.01" [178.05]	7.26" [184.40]	7.51" [190.75]	7.76" [197.10]	8.01" [203.45]
99	6.76" [171.70]	7.01" [178.05]	7.26" [184.40]	7.51" [190.75]	7.76" [197.10]	8.01" [203.45]

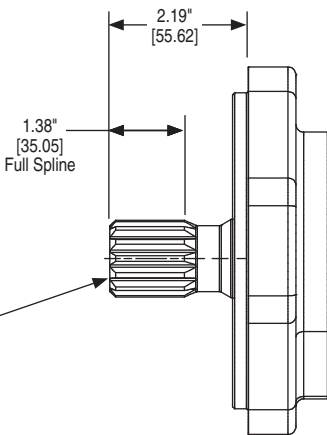
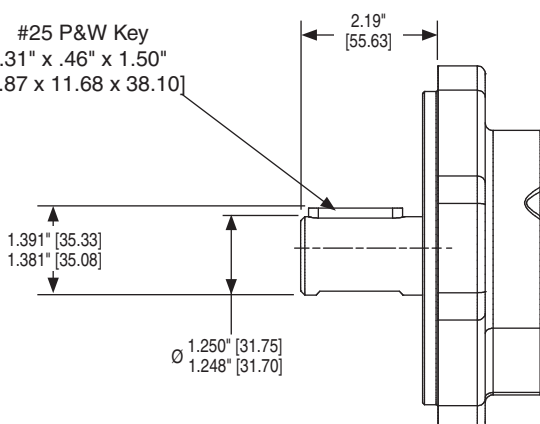
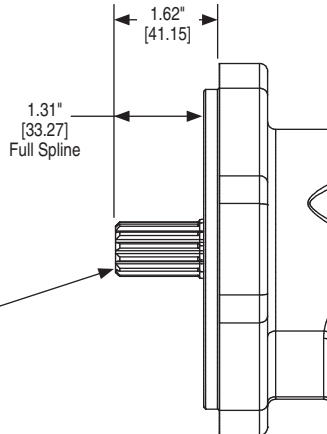
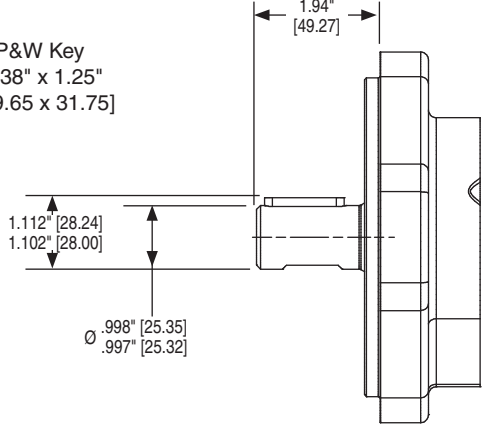
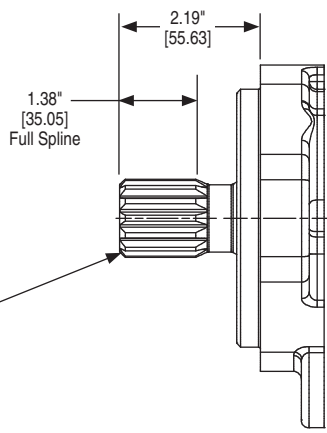
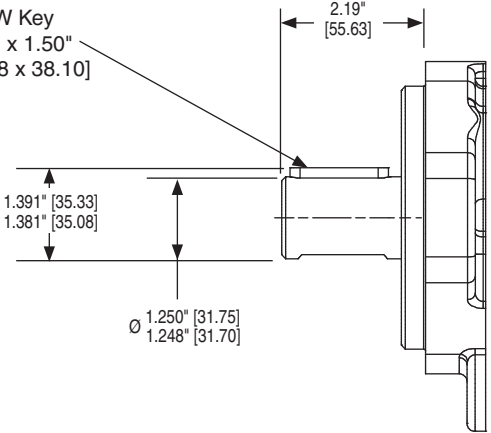
RPGP/RPGM051 Shaft End Covers (cont.)



RPGP/RPGM051 Shaft End Covers (cont.)



RPGP/RPGM051 Drive Shafts

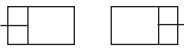
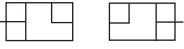
7	SAE C Spline	Type 1	11	SAE C Keyed	Type 1
SAE Involute Spline 14 Teeth - 12/24" Pitch Flat Root Side Fit Major Dia: 1.223"-1.228" [31.06-31.19] Minor Dia: .1.0627" Max [26.99] 			#25 P&W Key .31" x .46" x 1.50" [7.87 x 11.68 x 38.10] 		
25	SAE B Spline	Type 1	43	SAE BB Keyed	Type 1
SAE Involute Spline 13 Teeth - 16/32" Pitch Flat Root Side Fit Major Dia: .853"-.858" [21.67-21.79] Minor Dia: .7335" Max [18.63] 			#21 P&W Key .25" x .38" x 1.25" [6.35 x 9.65 x 31.75] 		
53	SAE C Spline	Type 2	61	SAE C Keyed	Type 2
SAE Involute Spline 14 Teeth - 12/24" Pitch Flat Root Side Fit Major Dia: 1.223"-1.228" [31.06-31.19] Minor Dia: .1.0627" Max [27.00] 			#25 P&W Key .31" x .46" x 1.50" [7.87 x 11.68 x 38.10] 		

RPGP/RPGM051 Drive Shafts (cont.)

65	SAE B Spline	Type 2	67	SAE BB Keyed	Type 2
98	SAE BB Spline	Type 1	**	SAE BB Spline	Type 2

RPGP/RPGM051 Bearing Carrier Codes

RPGP051

Rotation Flow Path	ODT Porting		Split Flange Porting		Port Size	
	CW	CCW	CW	CCW	In	Out
	CB	BC	LB	BL	1"	-
	DB	BD	MB	BM	1-1/4"	-
	FB	BF	NB	BN	1-1/2"	-
	PJ	JP	BR	RB	-	3/4"
	CJ	JC	LR	RL	1"	3/4"
	DJ	JD	MR	RM	1-1/4"	3/4"
	FJ	JF	NR	RN	1-1/2"	3/4"
	DK	KD	MS	SM	1-1/4"	1"
	FK	KF	NS	SN	1-1/2"	1"
	CR	RC	LX	XL	1"	3/4"
	DR	RD	MX	XM	1-1/4"	3/4"
	FR	RF	-	-	1-1/2"	3/4"
	DS	SD	MZ	ZM	1-1/4"	1"
	FS	SF	NZ	ZN	1-1/2"	1"
	HZ	ZH	-	-	-	1"
	KJ	JK	SR	RS	1"	3/4"

CW = Clockwise CCW = Counter Clockwise

RPGP/RPGM051 Bearing Carrier Codes (cont)

RPGM051

Rotation Flow Path	ODT Porting	Split Flange Porting	Port Size	
	DUAL	DUAL	In	Out
	CC	LL	1"	1"
	BB	MM	1-1/4"	1-1/4"
	FF	NN	1-1/2"	1-1/2"

RPGP/RPGM051 Ordering Code

															Multiple Units: Repeat if Necessary									
RPG	1	051	2	3	3	4	4	5	5	6	6	7	7	-	8	8	9	9	6	6	7	7	10	10

1 – Description	
P	Pump
M	Motor

2 – Unit	
A	Single
B	Tandem
C	Single or Tandem w/2-pc Shaft (O.B. bearing required)

3 – Rotation / Shaft	
1	Pump, cw w/o O.B. bearing
2	Pump, ccw w/o O.B. bearing
4	Pump, cw with O.B. bearing
5	Pump, ccw with O.B. bearing
8	Motor, bi-rot. with O.B. bearing; 1/4" NPT drain
9	Motor, bi-rot. w/o O.B. bearing; 1/4" NPT drain

4 – Mount (type 1 unless noted)	
00	4-Bolt Pad mount
42	SAE 4-Bolt B ANSI 101-4: Port Dia. 4"
78	SAE 4-Bolt C ANSI 127-4: Port Dia. 5"
91	For piggyback: Port Dia. 4"
92	For piggyback: Port Dia. 5"
96	SAE 2-Bolt B ANSI 101-2, type 2: Port Dia. 4"
97	SAE 2-Bolt B ANSI 101-2: Port Dia. 4"
98	SAE 2-Bolt C ANSI 127-2: Port Dia. 5"
99	SAE 2-Bolt C ANSI 127-2: type 2: Port Dia. 5"

5 – Port Options			
Single Units		Port Size	
w/o ST	w/ST	Left	Right
Unported			
BE	BY	No Port	No Port
Tandem Units			
w/o ST	w/ST		
BI	BY	1"	1"
ODT Porting			
Single Units		Port Size	
w/o ST	w/ST	Left	Right
CE	CY	3/4"	-
DE	DY	-	3/4"
FE	FY	3/4"	3/4"
Tandem Units			
w/o ST	w/ST		
CI	CY	3/4"	-
DI	DY	-	3/4"
FI	FY	3/4"	3/4"
Piggyback Port End - Pump Only			
	CW	CCW	Double
Type 051-051	KO	LO	MO

NOTE: w/o ST columns denote units without support studs w/ST columns denote units with support studs

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
No Porting ≤ 3000 PSI			
AB	AB	None	None
No Porting ≤ 2500 PSI			
AB	AB	None	None

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
ODT Tube Porting ≤ 3000 PSI			
EC	ED	3/4"	-
ED	EC	-	3/4"
EF	EF	3/4"	3/4"
EJ	EG	1"	3/4"
EK	EH	1-1/4"	3/4"
AC	AD	1"	-
AA	AO	1-1/4"	-
ODT Tube Porting ≤ 2500 PSI			
AC	AD	1"	-
AD	AC	-	1"
AF	AF	1"	1"
AJ	AG	1-1/4"	1"
AK	AH	1-1/2"	1"
AA	AO	1-1/4"	-
AO	AA	-	1-1/4"
AL	AL	1-1/4"	1-1/4"
AP	AM	1-1/2"	1-1/4"
AE	AU	1-1/2"	-
AU	AE	-	1-1/2"
AR	AR	1-1/2"	1-1/2"

*Ports designated by an asterisk * are for use as the low-pressure inlet port only.

FOR ALL UNITS

To determine direction of shaft rotation, view the unit with the shaft pointing toward you, and the idler (driven) gear beneath the shaft. With clockwise rotation, flow will be left to right. The inlet pump port will be on the left, outlet on the right. The flow is in the opposite direction with counter-clockwise rotation. Inverting the pump will reverse the inlet and outlet ports but not the direction of rotation.

RPGP/RPGM051 Ordering Code (cont.)

															Multiple Units: Repeat if Necessary									
RPG	1	051	2	3	3	4	4	5	5	6	6	7	7	-	8	8	9	9	6	6	7	7	10	10

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
Split Flange Porting ≤ 3000 PSI			
UC	UD	3/4"	-
UD	UC	-	3/4"
UF	UF	3/4"	3/4"
UJ	UG	1"	3/4"
UK	UH	1-1/4"	3/4"
OC	OD	1"	-
OD	OC	-	1"
OF	OF	1"	1"
OJ	OG	1-1/4"	1"
OK	OH	1-1/2"	1"
OA	OB	1-1/4"	-
OE	OU	1-1/2"	-
Split Flange Porting ≤ 2500 PSI			
OC	OD	1"	-
OD	OC	-	1"
OF	OF	1"	1"
OJ	OG	1-1/4"	1"
OK	OH	1-1/2"	1"
OL	OL	1-1/4"	1-1/4"
OP	OM	1-1/2"	1-1/4"
OE	OU	1-1/2"	-
OR	OR	1-1/2"	1-1/2"
XB	ZB	2"	-
OQ	ON	2"	1-1/4"
OV	OS	2"	1-1/2"

*Ports designated by an asterisk * are for use as the low-pressure inlet port only.

7 – Gear Width					
Order Code	Gear Width	in. ³ /rev.	cm ³ /rev.	Max Pressure	
				PSI	bar
ODT Tube Ports ≤ 2500 and ≤ 3000 PSI Split Flange Ports ≤ 2500 and ≤ 3000 PSI					
05	1/2"	1.28	20.9	3000	207
07	3/4"	1.91	31.3	3000	207
10	1"	2.55	41.8	3000	207
12	1-1/4"	3.19	52.2	3000	207
15	1-1/2"	3.83	62.7	3000	207
17	1-3/4"	4.46	73.1	3000	207
20	2"	5.10	83.6	2500	172
22	2-1/4"	5.74	94.0	2500	172
25	2-1/2"	6.38	104.5	2500	172

8 – Drive Shafts (type 1 unless noted) For single, tandem, or two-piece shaft unless noted.	
07	SAE C 14 tooth spline 1.25" dia., ANSI 32-4
11	SAE C keyed 1.25" dia., 5/16" x 15/32" x 1-1/2" key, ANSI 32-1
25	SAE B 13 tooth spline .88" dia., ANSI 22-4
43	SAE BB keyed 1.00" dia. 1/4" x 3/8" x 1-1/4" key, ANSI 25-1
53	SAE C 14 tooth spline 1.25" dia., ANSI 32-4, type 2 (single & tandem)
61	SAE C Keyed, type 2
65	SAE B 13 tooth spline .88" dia., ANSI 22-4, type 2 (single & tandem)
67	SAE BB keyed 1.00" dia., 1/4"x3/8"x1-1/4" key, ANSI 25-1, type 2 (single & tandem)
98	SAE BB 15 tooth spline, 1.00" dia., ANSI 25-4 (single & tandem)
**	SAE BB 15 tooth spline, type 2

Continued on Next Page

RPGP/RPGM051 Ordering Code

																Multiple Units: Repeat if Necessary								
RPG	1	051	2	3	3	4	4	5	5	6	6	7	7	-	8	8	9	9	6	6	7	7	10	10

9 – Bearing Carriers			
Order Code		Port Size	
CW	CCW	IN	OUT
OD Tube Porting (pump)			
CB	BC	1"	-
DB	BD	1-1/4"	-
FB	BF	1-1/2"	-
PJ	JP	-	3/4"
CJ	JC	1"	3/4"
DJ	JD	1-1/4"	3/4"
FJ	JF	1-1/2"	3/4"
DK	KD	1-1/4"	1"
FK	KF	1-1/2"	1"
CR	RC	1"	3/4"
DR	RD	1-1/4"	3/4"
FR	RF	1-1/2"	3/4"
DS	SD	1-1/4"	1"
FS	SF	1-1/2"	1"
HZ	ZH	-	1"
KJ	JK	1"	3/4"
SAE Split Flange			
LB	BL	1"	-
MB	BM	1-1/4"	-
NB	BN	1-1/2"	-
BR	RB	-	3/4"
LR	RL	1"	3/4"
MR	RM	1-1/4"	3/4"
NR	RN	1-1/2"	3/4"
MS	SM	1-1/4"	1"
NS	SN	1-1/2"	1"
LX	XL	1"	3/4"
MX	XM	1-1/4"	3/4"
MZ	ZM	1-1/4"	1"
NZ	ZN	1-1/2"	1"
SR	RS	1"	3/4"

9 – Bearing Carriers			
Order Code		Port Size	
CW	CCW	IN	OUT
OD Tube Porting (motor)			
DUAL	CC	1"	1"
DUAL	BB	1-1/4"	1-1/4"
DUAL	FF	1-1/2"	1-1/2"
OD Tube Porting (motor)			
DUAL	LL	1"	1"
DUAL	MM	1-1/4"	1-1/4"
DUAL	NN	1-1/2"	1-1/2"

10 – Connecting Shaft	
For connecting tandem units.	
01	Connecting Shaft - Multiple Units
22	Piggyback Pump Connecting Shaft 051 to 051
23	Piggyback Pump Connecting Shaft 076 to 051

NOTE: Split flange thread depths may be more shallow than SAE standard. Contact Product Support Department for actual dimensions.

RPGP/RPGM076 Characteristics

- Original Commerical pump design
- Three-piece cast iron construction for assembly flexibility
- Durable high-strength cast iron body for excellent power to weight ratio
- Balanced thrust plates optimize pump efficiency
- Roller bearings for durability and resistance to fluid contamination
- Multiple sections available



Product Features	Description
Pump Type	Pump, cast iron roller bearing, external gear
Mounting	SAE 2-Bolt or 4-Bolt
Ports	SAE Straight Thread or Split Flange
Shaft Style	SAE C splined or keyed
Pump Speed	900 to 2400 RPM
Motor Speed	800 to 2000 RPM
Maximum Displ.	12.3 in ³ /rev
Maximum Operating Pressure	3000 PSI

Product Features	Description
Fluids	Mineral oil
Fluid Temperature	Range of Operating Temperature -20 to 80°C (0 to 180°F).
Fluid Viscosity	50-7500 SUS
Direction of Rotation (looking at the driveshaft)	Clockwise, Counter Clockwise, Bi-Rotational

NOTE: Different types of pump options are available in terms of shaft, mounting and port type. Please contact RCHC

RPGP/RPGM076 Specifications/Dimensions

RPGP/RPGM076 Specifications

RPGP076 Frame Size	7	10	12	15	17	20	22	25	27	30
Displacement – cm ³ /rev (in ³ /rev)	50.4 (3.08)	67.2 (4.10)	84.0 (5.13)	100.8 (6.15)	117.6 (7.18)	134.4 (8.20)	151.2 (9.23)	168.0 (10.25)	184.8 (11.28)	201.6 (12.30)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)	172 (2,500)	138 (2,000)	138 (2,000)
Max Speed – RPM	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Approximate Weight – Lbs. [kg]	70 [32]	72 [33]	75 [34]	77 [35]	80 [36]	82 [37]	85 [39]	87 [40]	90 [41]	92 [42]

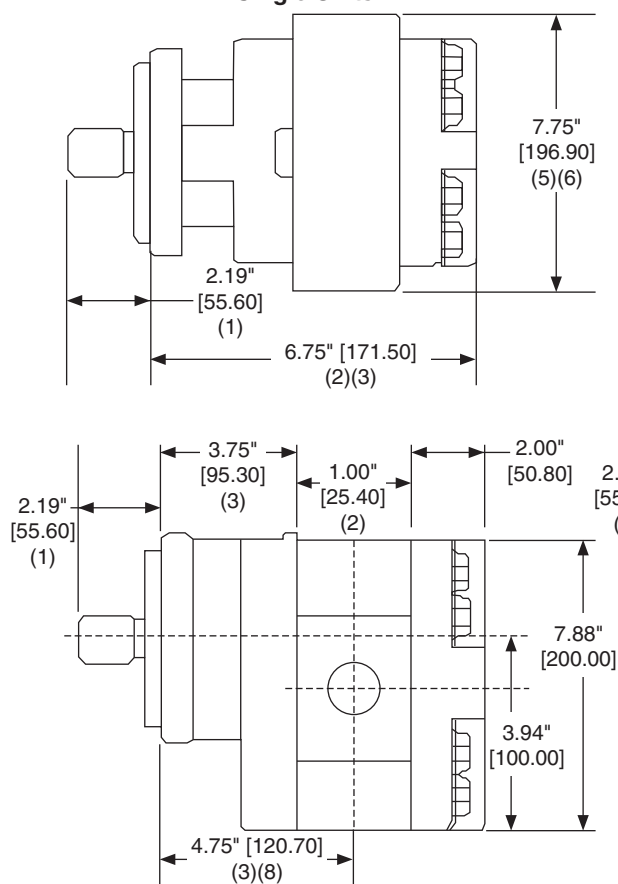
RPGM076 Frame Size	7	10	12	15	17	20	22	25	27	30
Displacement – cm ³ /rev (in ³ /rev)	50.4 (3.08)	67.2 (4.10)	84.0 (5.13)	100.8 (6.15)	117.6 (7.18)	134.4 (8.20)	151.2 (9.23)	168.0 (10.25)	184.8 (11.28)	201.6 (12.30)
Max continuous pressure – bar (PSI)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	207 (3,000)	172 (2,500)	172 (2,500)	172 (2,500)	138 (2,000)	138 (2,000)
Max Speed – RPM	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Approximate Weight – Lbs. [kg]	70 [32]	72 [33]	75 [34]	77 [35]	80 [36]	82 [37]	85 [39]	87 [40]	90 [41]	92 [42]

RPGP/RPGM076 Dimensions

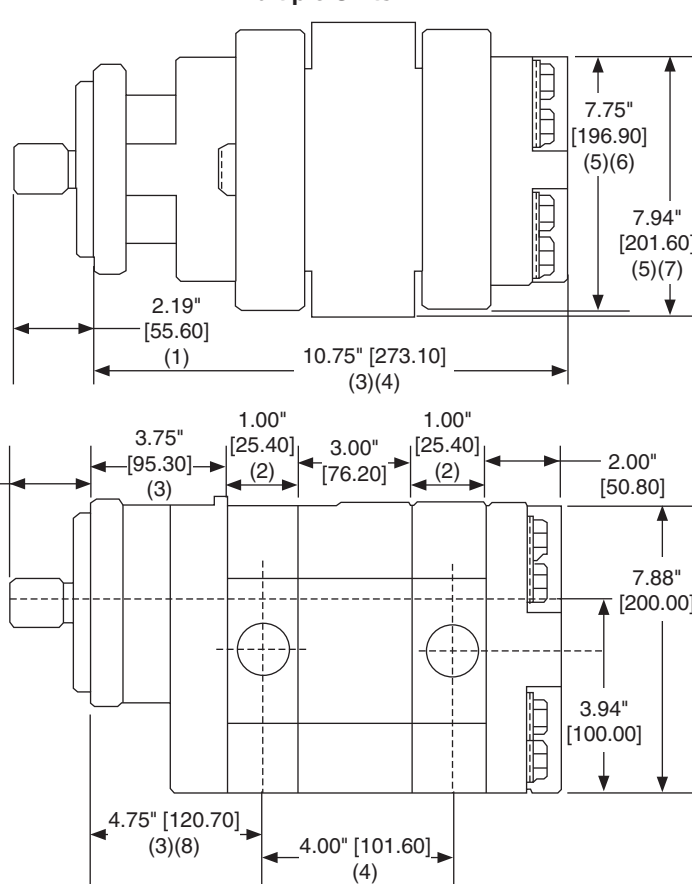
NOTES

1. Dimension will vary with shaft type
2. Dimension + gear width
3. Dimension is for Type 1 SEC.
4. Dimension + total gear width
5. Dimension will vary with port type. Subtract 0.25" (6.4 mm) for S.F. ports.
6. For 2.25" and 2.50" gear width, dimension is 6.75" (171.5 mm).
7. Dimension is for wide B-C. Narrow B-C dimensions: 7.19" (182.6 mm)
8. Dimension + ½ front section gear width

Single Units



Multiple Units



Flow data at 2500 PSI (172 bar) unless noted

Speed RPM	Gear Width Output (gpm/lpm)								
	1"	1 ¼"	1 ½"	1 ¾"	2"	2 ¼"	2 ½"	2 ¾"	3"
900	11.5	15.5	19.5	23	27	30.5	34.5	38	42
	43.5	58.5	74	87	102	115.5	130.5	144	159
1200	17	22	27	32	37.5	42	48	52.5	58
	64.5	83.5	102	121	142	159	182	199	220
1500	22	29	35.5	41.5	48	54.5	61	67	74
	83.5	110	134	157	182	206	231	254	280
1800	27.5	35.5	43.5	51	59	66	74	81.5	90
	104	134	165	193	223	250	280	308	341
2100	33	42	51.5	60	69.5	78	87	96.5	106
	125	159	195	227	263	295	329	365	401
2400	38	49	59.5	70	80	90	101	111	122
	144	185	225	265	303	341	382	420	462

*Flow data at 2000 PSI (138 bar) rated pressure.

Input power at 2500 PSI (172 bar) unless noted

Speed RPM	Gear Width Inches (HP/Kw)								
	1"	1 ¼"	1 ½"	1 ¾"	2"	2 ¼"	2 ½"	2 ¾"	3"
900	26	32	39	45	51	58	64	57	62
	19	24	29	34	38	43	48	42	46
1200	35	43	52	60	69	78	86	76	83
	26	32	39	45	51	58	64	57	62
1500	44	55	65	76	87	98	109	96	105
	33	41	49	57	65	73	81	72	78
1800	53	66	79	93	106	119	132	116	127
	39	49	59	69	79	89	99	87	95
2100	62	77	93	108	124	139	154	136	148
	46	58	69	81	92	104	115	101	111
2400	71	88	106	124	141	159	176	155	169
	53	66	79	92	105	118	132	116	126

*Input power at 2000 PSI (138 bar)

Motor performance data at 2500 PSI (172 bar) unless noted.

Speed RPM	1" Gear			1 ½" Gear			2" Gear			2½" Gear			3" Gear*		
	Output		Input	Output		Input	Output		Input	Output		Input	Output		Input
	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow
800	1410	18	20.5	2140	27	28	2875	36.5	35.5	3650	46.5	43	3625	46	50.5
	159.5	13.5	77.5	242	20	106	325	27	134	412.5	34.6	163	409.5	34.5	191
1200	1400	26.5	27.5	2140	41	38	2870	54.5	49.5	3650	69.5	60.5	3575	68	72
	158	20	104	242	30.5	144	324.5	40.5	187	412.5	52	229	404	50.5	273
1600	1375	35	34	2110	53.5	49	2830	72	64	3600	91.5	78.5	3500	89	93
	155.5	26	129	238.5	40	185	319.5	53.5	242	406.5	68	297	395.5	66.5	352
2000	1350	43	41.5	2090	66.5	59	2800	89	78	3500	111	96.5	3425	109	114
	152.5	32	157	236	49.5	223	316.5	66.5	295	395.5	83	365	387	81.5	431

<i>U.S./Metric</i>	Torque: <u>In.-lbs.</u> Nm	Flow: <u>GPM</u> LPM	Power: <u>HP</u> kW
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*Motor performance data at 2000 PSI (138 bar).

RPGP/RPGM076 Gear Housing

No Porting ≤ 3000 PSI

Order Code		Port Size		Gear Width Availability			
CW	CCW	In	Out	10	12	15	17
AB	AB	None	None	X	X	X	X

CW = Clockwise CCW = Counter Clockwise

No Porting ≤ 2500 PSI

Order Code		Port Size		Gear Width Availability	
CW	CCW	In	Out	20	22
AB	AB	None	None	X	X

CW = Clockwise CCW = Counter Clockwise

No Porting ≤ 2000 PSI

Order Code		Port Size		Gear Width Availability	
CW	CCW	In	Out	27	30
AB	AB	None	None	X	X

CW = Clockwise CCW = Counter Clockwise

RPGP/RPGM076 Gear Housing

ODT Tube Porting ≤ 3000 PSI

Order Code		ODT Tube Porting Port Size		Gear Width Availability			
CW	CCW	In	Out	10	12	15	17
EJ	EG	1"	3/4"	2500*	-	-	-
EK	EH	1-1/4"	3/4"	-	X*	-	-
AC	AD	1"	-	-	2500	X	-
AD	AC	-	1"	-	2500	X	-
AF	AF	1"	1"	-	2500	X	-
AJ	AG	1-1/4"	1"	-	2500*	X*	-
AK	AH	1-1/2"	1"	-	-	X*	-

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CWW = Counter Clockwise.

RPGP/RPGM076 Gear Housing

Split Flange Porting ≤ 3000 PSI

Order Code		Split Flange Porting Port Size		Gear Width Availability			
CW	CCW	In	Out	10	12	15	17
UJ	UG	1"	3/4"	X			
OF	OF	1"	1"	X	X	X	X
OJ	OG	1-1/4"*	1"	X*	X*		
OK	OH	1-1/2"*	1"		X*	X*	X*
OL	OL	1-1/4"	1-1/4"		2500	X	X
OP	OM	1-1/2"*	1-1/4"		2500*	X*	X*
OQ	ON	2"*	1-1/4"				X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

Split Flange Porting ≤ 2500 PSI

Order Code		Split Flange Porting Port Size		Gear Width Availability	
CW	CCW	In	Out	20	22
OF	OF	1"	1"	X	
OL	OL	1-1/4"	1-1/4"	X	X
OP	OM	1-1/2"*	1-1/4"	X	
OE	OU	1-1/2"	-	X	
OU	OE	-	1-1/2"	X	
OR	OR	1-1/2"	1-1/2"	X	X
OQ	ON	2"*	1-1/4"	X*	X*
OV	OS	2"*	1-1/2"	X*	X*
OW	OT	2-1/2"*	1-1/2"		X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CWW = Counter Clockwise.

RPGP/RPGM076 Gear Housing (cont.)

Split Flange Porting ≤ 2000 PSI

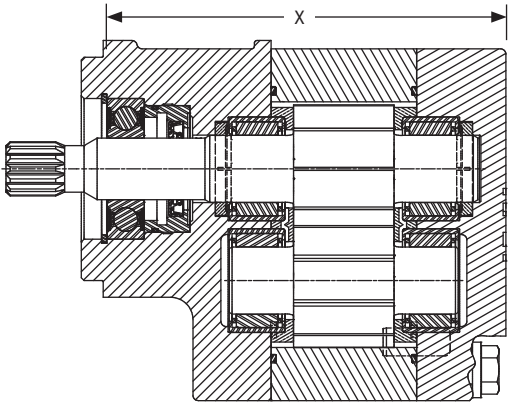
Order Code		Split Flange Porting Port Size		Gear Width Availability	
CW	CCW	In	Out	27	30
OJ	OG	1-1/4"*	1"		X
OL	OL	1-1/4"	1-1/4"	X	X
OP	OM	1-1/2"*	1-1/4"	X	X
OE	OU	1-1/2"	-	X	X
OU	OE	-	1-1/2"	X	X
OR	OR	1-1/2"	1-1/2"	X	X
OQ	ON	2"*	1-1/4"	X	X
OV	OS	2"*	1-1/2"	X	X
OX	OX	2"	2"	X	X
OW	OT	2-1/2"*	1-1/2"	X*	X*

* Ports designated by an asterisk * are for use as the low-pressure inlet port only.

NOTES

1. Shaded cells are acceptable for motor codes.
2. X means both codes are available.
3. 2500 indicates maximum pressure rating on port.
4. CW = Clockwise; CWW = Counter Clockwise.

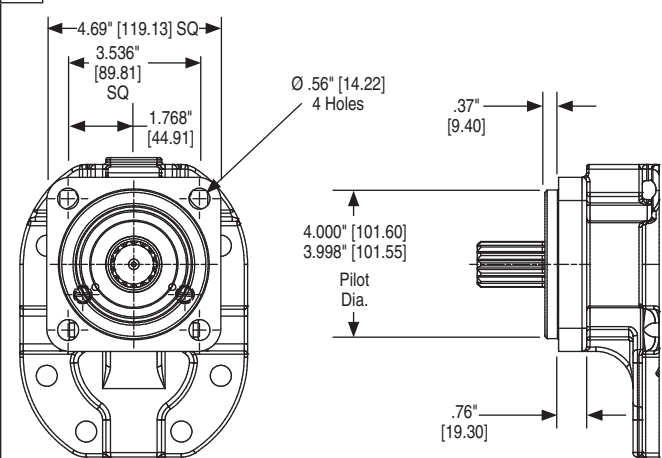
RPGP/RPGM076 Shaft End Covers



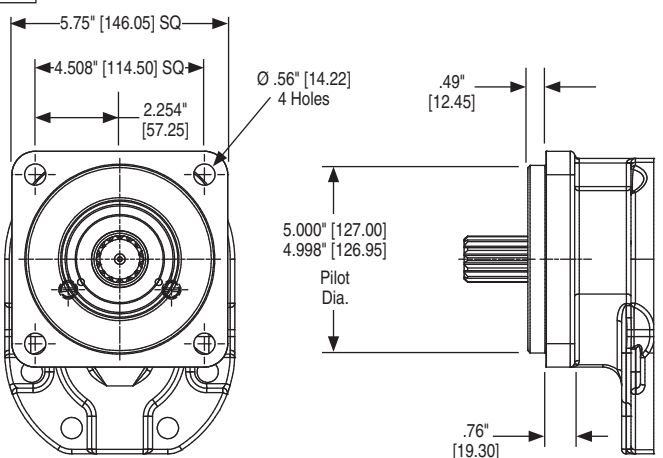
X DIMENSION										
SEC CODE	07	10	12	15	17	20	22	25	27	30
42	7.50" [190.50]	7.75" [196.85]	8.00" [203.20]	8.25" [209.55]	8.50" [215.90]	8.75" [222.25]	9.00" [228.60]	9.25" 234.95]	9.50" [241.30]	9.75" [247.65]
78	7.50" [190.50]	7.75" [196.85]	8.00" [203.20]	8.25" [209.55]	8.50" [215.90]	8.75" [222.25]	9.00" [228.60]	9.25" 234.95]	9.50" [241.30]	9.75" [247.65]
80	7.50" [190.50]	7.75" [196.85]	8.00" [203.20]	8.25" [209.55]	8.50" [215.90]	8.75" [222.25]	9.00" [228.60]	9.25" 234.95]	9.50" [241.30]	9.75" [247.65]
98	7.50" [190.50]	7.75" [196.85]	8.00" [203.20]	8.25" [209.55]	8.50" [215.90]	8.75" [222.25]	9.00" [228.60]	9.25" 234.95]	9.50" [241.30]	9.75" [247.65]

RPGP/RPGM076 Shaft End Covers (cont.)

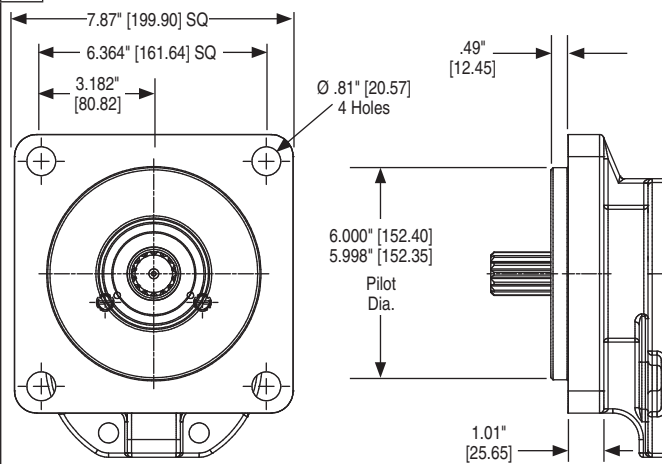
42 SAE B 4-Bolt



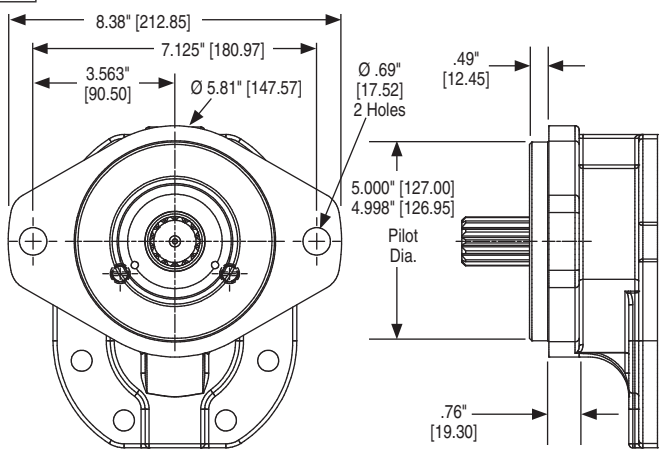
78 SAE C 4-Bolt



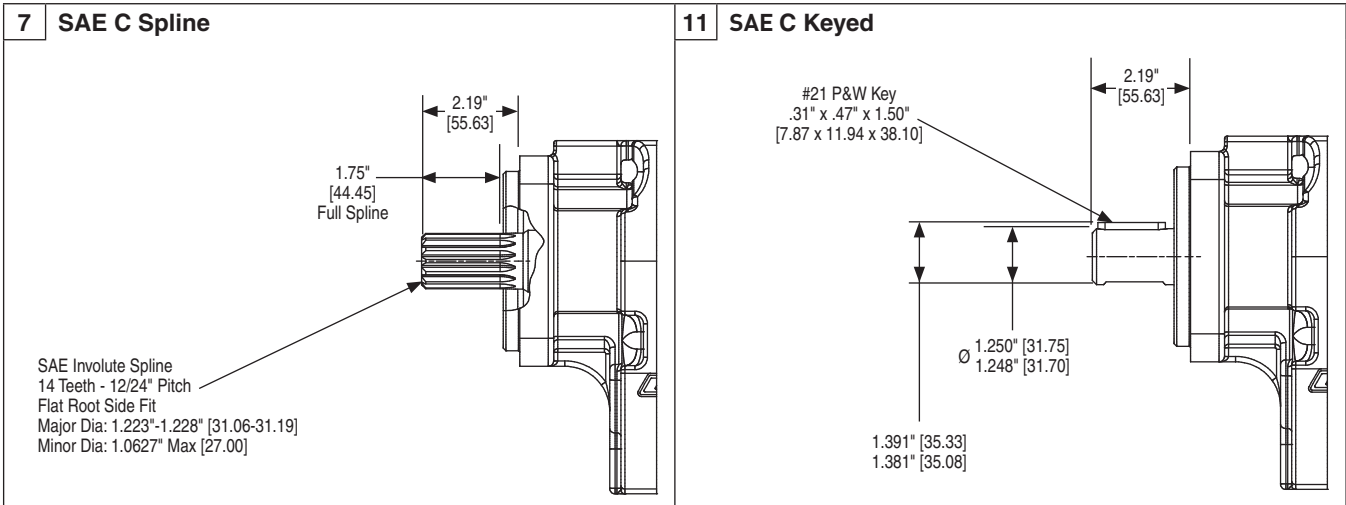
80 SAE D 4-Bolt



98 SAE C 2-Bolt



RPGP/RPGM076 Drive Shafts



RPGP/RPGM076 Bearing Carrier Codes

RPGP076

Common Inlet Passage			
			
-	-	C	D
-	-	A	U

Used when only one adjacent gear housing has an inlet port.

RPGM076

Rotation Flow Path	ODT Porting	Split Flange Porting	Port Size	
	DUAL	DUAL	In	Out
	CC	LL	1"	1"
	BB	MM	1-1/4"	1-1/4"
	-	NN	1-1/2"	1-1/2"

RPGP/RPGM076 Ordering Code

														Multiple Units: Repeat if Necessary										
RPG	1	076	2	3	3	4	4	5	5	6	6	7	7	-	8	8	9	9	6	6	7	7	10	10

1 – Description	
P	Pump
M	Motor

2 – Unit	
A	Single
B	Tandem
C	Single or Tandem w/2-pc Shaft (O.B. bearing required)

3 – Rotation / Shaft	
1	Pump, cw w/o O.B. bearing
2	Pump, ccw w/o O.B. bearing
4	Pump, cw with O.B. bearing
5	Pump, ccw with O.B. bearing
8	Motor, bi-rot. with O.B. bearing; 1/4" NPT drain
9	Motor, bi-rot. w/o O.B. bearing; 1/4" NPT drain

4 – Mount	
42	SAE 4-Bolt B ANSI 101-4: Port Dia. 4"
78	SAE 4-Bolt C ANSI 127-4: Port Dia. 5"
80	SAE 4-Bolt D ANSI 152-4: Port Dia. 6"
98	SAE 2-Bolt C ANSI 127-2: Port Dia. 5"

5 – Port Options			
Single Units		Port Size	
w/o ST	w/ST	Left	Right
NPT Porting			
BE	BY	No Port	No Port
JE	JY	1"	1"
Tandem Units			
w/o ST	w/ST		
BI	BY	No Port	No Port
JI	JY	1"	1"
Piggyback Port End - Pump Only			
	CW	CCW	Double
Type 076-051 076-031	KO	LO	MO
NOTE: w/o ST columns denote units without support studs w/ST columns denote units with support studs			

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
No Porting ≤ 3000 PSI			
AB	AB	None	None
No Porting ≤ 2500 PSI			
AB	AB	None	None
No Porting ≤ 2000 PSI			
AB	AB	None	None

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
ODT Tube Porting ≤ 3000 PSI			
EJ	EG	1"	3/4"
EK	EH	1-1/4"	3/4"
AC	AD	1"	-
AD	AC	-	1"
AF	AF	1"	1"
AJ	AG	1-1/4"	1"
AK	AH	1-1/2"	1"
*Ports designated by an asterisk * are for use as the low-pressure inlet port only.			

FOR ALL UNITS

To determine direction of shaft rotation, view the unit with the shaft pointing toward you, and the idler (driven) gear beneath the shaft. With clockwise rotation, flow will be left to right. The inlet pump port will be on the left, outlet on the right. The flow is in the opposite direction with counter-clockwise rotation. Inverting the pump will reverse the inlet and outlet ports but not the direction of rotation.

RPGP/RPGM076 Ordering Code (cont.)

															Multiple Units: Repeat if Necessary									
RPG	1	076	2	3	3	4	4	5	5	6	6	7	7	-	8	8	9	9	6	6	7	7	10	10

6 – Gear Housing			
Order Code		Port Size	
CW	CCW	In	Out
Split Flange Porting ≤ 3000 PSI			
UJ	UG	1"	3/4"
OF	OF	1"	1"
OJ	OG	1-1/4"	1"
OK	OH	1-1/2"	1"
OL	OL	1-1/4"	1-1/4"
OP	OM	1-1/2"	1-1/4"
OQ	ON	2"	1-1/4"
Split Flange Porting ≤ 2500 PSI			
OF	OF	1"	1"
OL	OL	1-1/4"	1-1/4"
OP	OM	1-1/2"	1-1/4"
OE	OU	1-1/2"	-
OU	OE	-	1-1/2"
OR	OR	1-1/2"	1-1/2"
OQ	ON	2"	1-1/4"
OV	OS	2"	1-1/2"
OW	OT	2-1/2"	1-1/2"
Split Flange Porting ≤ 2000 PSI			
OJ	OG	1-1/4"	1"
OL	OL	1-1/4"	1-1/4"
OP	OM	1-1/2"	1-1/4"
OE	OU	1-1/2"	-
OU	OE	-	1-1/2"
OR	OR	1-1/2"	1-1/2"
OQ	ON	2"	1-1/4"
OV	OS	2"	1-1/2"
OX	OX	2"	2"
OW	OT	2-1/2"	1-1/2"

*Ports designated by an asterisk * are for use as the low-pressure inlet port only.

7 – Gear Width					
Order Code	Gear Width	in. ³ /rev.	cm ³ /rev.	Max Pressure	
				PSI	bar
ODT Tube Ports ≤ 2500 Split Flange Ports ≤ 2000, ≤ 2500, and ≤ 3000 PSI					
07	3/4"	3.08	50.4	3000	207
10	1"	4.10	67.2	3000	207
12	1-1/4"	5.13	84.0	3000	207
15	1-1/2"	6.15	100.8	3000	207
17	1-3/4"	7.18	117.6	3000	207
20	2"	8.20	134.4	2500	172
22	2-1/4"	9.23	151.2	2500	172
25	2-1/2"	10.25	168.0	2500	172
27	2-3/4"	11.28	184.8	2000	138
30	3"	12.30	201.6	2000	138

8 – Drive Shafts	
For single, tandem, or two-piece shaft unless noted.	
07	SAE C 14 tooth spline 1.25" dia., ANSI 32-4
11	SAE C keyed 1.25" dia., 5/16" x 15/32" x 1-1/2" key, ANSI 32-1

9 – Bearing Carriers			
Order Code		Port Size	
CW	CCW	IN	OUT
Inlet Porting (pump)			
C	D	-	-
A	U	-	-
SAE Split Flange (motor)			
DUAL	LL	1"	1"
DUAL	MM	1-1/4"	1-1/4"
DUAL	NN	1-1/2"	1-1/2"
OD Tube Porting (motor)			
DUAL	CC	1"	1"
DUAL	BB	1-1/4"	1-1/4"

10 – Connecting Shaft	
For connecting tandem units.	
01	Connecting Shaft - Multiple Units

NOTE: Split flange thread depths may be more shallow than SAE standard. Contact Product Support Department for actual dimensions.