



Pump & Motor Division

Roller Bearing Series – 020, 031, 051, 076 Frame Sizes





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- Original Commerical 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 fiuids: - 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

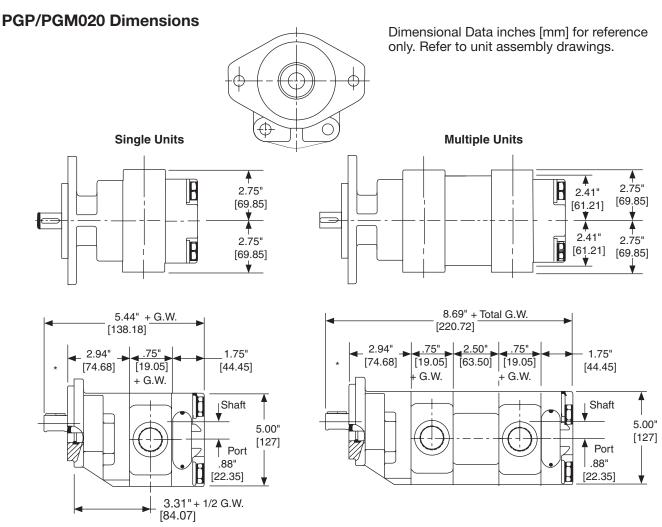
NOTE: Different types of pump options are available in terms of shaft, mounting and port type. Please contact Parker.



PGP/PGM020 Specifications

PGP020 Frame Size	05	07	10	12	15	17	20
Displacement – cm3/rev	16.1	24.2	32.3	40.4	48.4	56.5	64.6
(in3/rev)	(0.99)	(1.48)	(1.97)	(2.46)	(2.96)	(3.45)	(3.94)
Max continuous pressure – bar (PSI)	207	207	207	207	207	172	172
	(3,000)	(3,000)	(3,000)	(3,000)	(3,000)	(2,500)	(2,500)
Max Speed – RPM	2,400	2,400	2,400	2,400	2,400	2,400	2,400
Approximate Weight – Lbs.	26	27	28	29	31	33	34
[kg]	[12]	[12.5]	[13]	[13]	[14]	[15]	[15.5]

PGM020 Frame Size	05	07	10	12	15	17	20
Displacement – cm³/rev	16.1	24.2	32.3	40.4	48.4	56.5	64.6
(in³/rev)	(0.99)	(1.48)	(1.97)	(2.46)	(2.96)	(3.45)	(3.94)
Max continuous pressure – bar (PSI)	207	207	207	207	207	172	172
	(3,000)	(3,000)	(3,000)	(3,000)	(3,000)	(2,500)	(2,500)
Max Speed – RPM	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Approximate Weight – Lbs. [kg]	26	27	28	29	31	33	34
	[12]	[12.5]	[13]	[13]	[14]	[15]	[15.5]



*This dimension will vary with type of driveshaft.



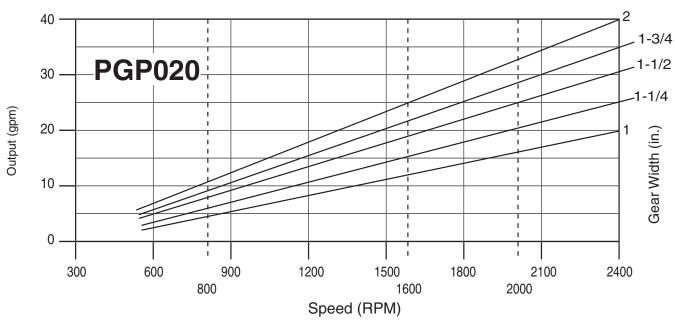
Pump	Gear Width – Output (GPM)									
Speed	1"	1-1/4"	1-1/2"	1-3/4"	2"					
900	6.5	8.0	10.0	12.0	13.5					
1200	9.0	11.5	14.0	16.0	18.5					
1500	11.5	14.5	17.5	20.5	23.5					
2100	16.5	21.0	25.0	29.5	34.0					

Motor Speed	Gear Width										
	1" Torque in Ibs.	GPM	1-1/2" Torque in Ibs.	GРM	2" Torque in Ibs.	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					



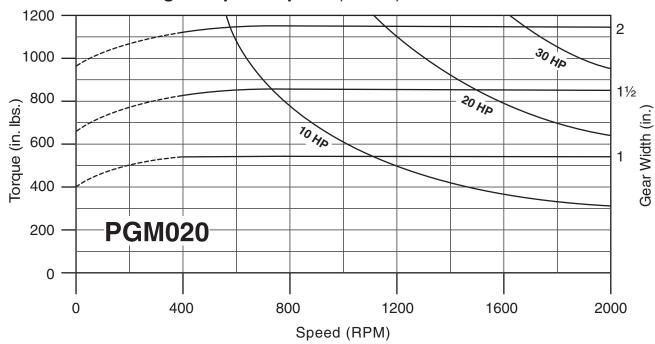
PGP020





PGM020

Average Torque Output - (in. lbs.) at 140 bar/2500 PSI





NPT Port ≤ 3000 PSI

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



ODT Tube Ports ≤ 2500 PSI

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

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



ODT Tube Ports ≤ 3000 PSI

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

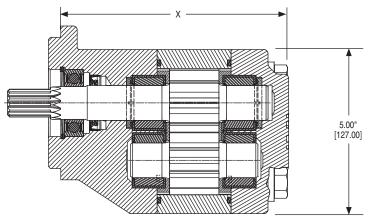
^{*} Ports designated by an asterisk * are for use as the low-pressure inlet port only.



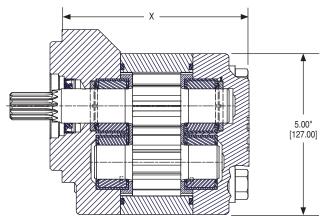
Split Flange Porting ≤ 3000 PSI

Order		ge Porting Size		Gear Width Availability							
Code	Left	Right	05	07	10	12	15	17	20		
AB	None	None	Х	Х	Х	Х	Х	Х	Х		
UC	3/4	None	-	Х	Х	Х	Х	Х	Х		
UD	None	3/4	-	X	Х	Х	Х	X	Х		
UF	3/4	3/4	-	Х	Х	Х	Х	Х	-		
UG	3/4	1	-	-	Х	X	X	X	Х		
UH	3/4	1-1/4	-	-	-	Х	Х	Х	Х		
UJ	1	3/4	-	-	Х	X	X	X	Х		
UK	1-1/4	3/4	-	-	-	X	Х	X	Х		
ОС	1	None	-	-	-	Х	X	X	Х		
OD	None	1	-	-	-	Х	Х	X	Х		
OF	1	1	-	-	Х	X	X	X	Х		
OG	1	1-1/4	-	-	-	X	X	X	Х		
ОН	1	1-1/2	-	-	-	-	-	X	Х		
OJ	1-1/4	1	-	-	-	X	X	X	Х		
OK	1-1/2	1	-	-	-	-	-	X	X		
OA	1-1/4	None	-	-	-	X	X	X	Х		
ОВ	None	1-1/4	-	-	-	Х	Х	X	Х		
OL	1-1/4	1-1/4	-	-	-	-	X	X	Х		
OM	1-1/4	1-1/2	-	-	-	-	-	X	Х		
OP	1-1/2	1-1/4	-	-	-	-	-	X	Х		
OE	1-1/2	None	-	-	-	-	-	X	Х		
OU	None	1-1/2	-	-	-	-	-	X	Х		





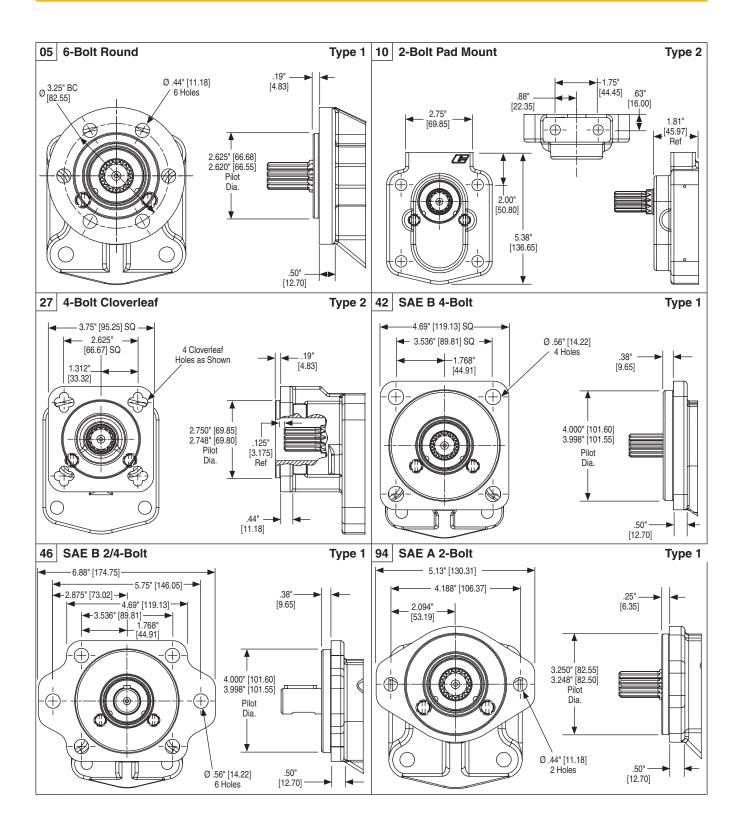
	X DIMENSION – Type 1											
SEC CODE	05	07	10	12	15	17	20					
05	5.94"	6.19"	6.44"	6.69"	6.94"	7.19"	7.44"					
	[150.88]	[157.23]	[163.58]	[169.93]	[176.28]	[182.63]	[188.98]					
42	5.94"	6.19"	6.44"	6.69"	6.94"	7.19"	7.44"					
	[150.88]	[157.23]	[163.58]	[169.93]	[176.28]	[182.63]	[188.98]					
46	5.94"	6.19"	6.44"	6.69"	6.94"	7.19"	7.44"					
	[150.88]	[157.23]	[163.58]	[169.93]	[176.28]	[182.63]	[188.98]					
94	5.94"	6.19"	6.44"	6.69"	6.94"	7.19"	7.44"					
	[150.88]	[157.23]	[163.58]	[169.93]	[176.28]	[182.63]	[188.98]					
97	5.94"	6.19"	6.44"	6.69"	6.94"	7.19"	7.44"					
	[150.88]	[157.23]	[163.58]	[169.93]	[176.28]	[182.63]	[188.98]					



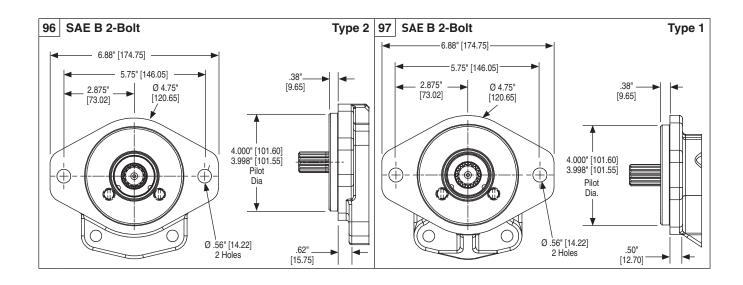
	X DIMENSION – Type 2						
SEC CODE	05	07	10	12	15	17	20
10	4.81"	5.06"	5.31"	5.56"	5.81"	6.06"	6.31"
	[122.17]	[128.52]	[134.87]	[141.22]	[147.57]	[153.92]	[160.27]
27	6.56"	6.81"	7.06"	7.31"	7.56"	7.81"	8.06"
	[166.62]	[172.97]	[179.32]	[185.67]	[192.02]	[198.37]	[204.72]
96	4.81"	5.06"	5.31"	5.56"	5.81"	6.06"	6.31"
	[122.17]	[128.52]	[134.87]	[141.22]	[147.57]	[153.92]	[160.27]



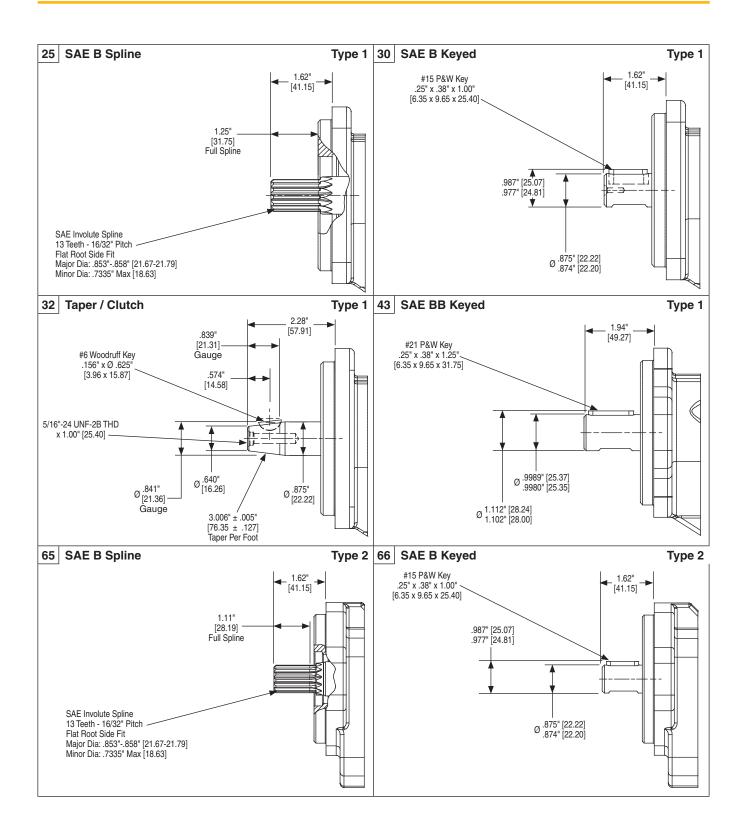
PGP/PGM020 Shaft End Covers (cont.)



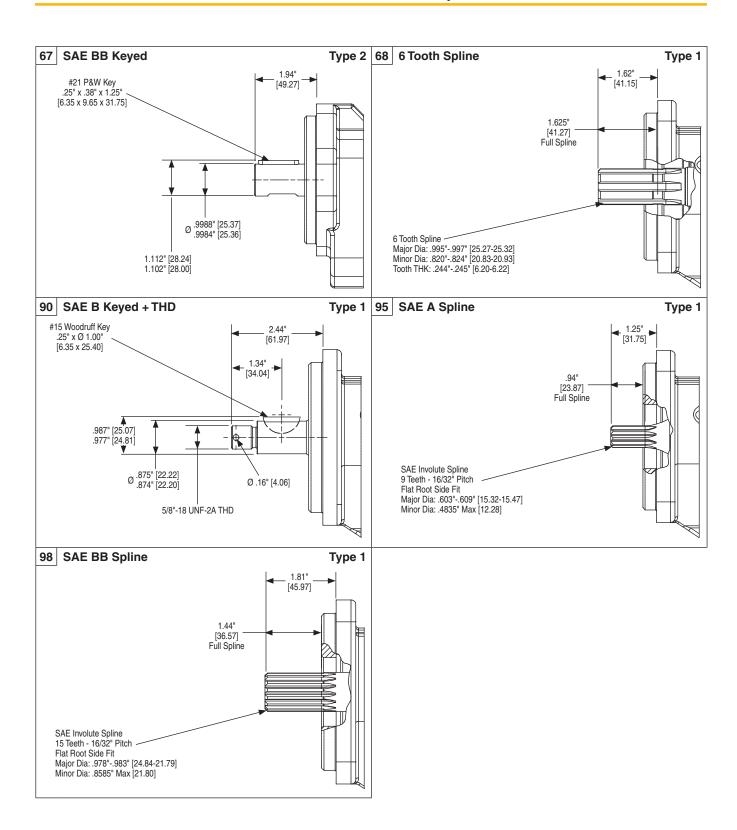














Pumps

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	С	none	none	СВ	1	none	LB	1	none
cw 🔯	ТВ	1	none	DB	1-1/4	none	-	-	-
	VB	1-1/4	none	FB	1-1/2	none	-	-	-
	TX	1	3/4	CJ	1	3/4	LR	1	3/4
CD SHT RF 20-H4	VX	1-1/4	3/4	DJ	1-1/4	3/4	BR	none	3/4
cw s	VZ	1-1/4	1	DK	1-1/4	1	-	-	-
	-	-	-	FJ	1-1/2	3/4	-	-	-
	-	-	-	FK	1-1/2	1	-	-	-
	JT	3/4	1	RC	3/4	1	XL	3/4	1
CD SHT RF 20-H5	J۷	3/4	1-1/4	RD	3/4	1-1/4	-	-	-
ccw	KV	1	1-1/4	RF	3/4	1-1/2	-	-	-
	-	-	-	SD	1	1-1/4	-	-	-
	-	-	-	SF	1	1-1/2	-	-	-
	TJ	1	3/4	CR	1	3/4	LX	1	-
CD SHT RF 20-H6	VJ	1-1/4	3/4	DR	1-1/4	3/4	-	-	-
cw	VK	1-1/4	1	DS	1-1/4	1	-	-	-
	-	-	-	FR	1-1/2	3/4	-	-	-
	-	-	-	FS	1-1/2	1	-	-	-
	XT	3/4	1	JC	3/4	1	RB	3/4	none
CD SHT RF 20-H7	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	-	-	-
CCW	-	-	-	JF	3/4	1-1/2	-	-	-
	-	-	-	KD	1	1-1/4	-	-	-
	-	-	-	KF	1	1-1/2	-	-	-
CD SHT RF 20-H8	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	кх	1	3/4	RZ	1	3/4
CD SHT RF 20-H11	SZ	3/4	1	хк	3/4	1	ZR	3/4	1



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	В	-	-	В	-	-	В	-	-

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	D	none	none	ВС	none	1	BL	none	1
ccw	ВТ	none	1	BD	none	1-1/4	-	-	-
	BV	none	1-1/4	BF	none	1-1/2	-	-	-
CD SHT RF 20-H21	М	1	none	F	1	none	J	1	none
cw	N	1-1/4	none	G	1-1/4	none	-	-	-
	Е	none	none	Н	1-1/2	none	-	-	-
	вх	none	3/4	GJ	none	3/4	GR	none	3/4
	GX	1	3/4	HJ	1	3/4	HR	1	3/4
CD SHT RF 20-H24	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	-	-	-
cw	KZ	none	1	PK	1-1/4	1	-	=	=
		-	-	RK	1-1/2	1	-	-	-
	-	-	-	BK	none	1	-	-	-
	CV	none	3/4	JH	none	3/4	FD	none	3/4
	GV	1	3/4	PH	1	3/4	GD	1	3/4
CD SHT RF 20-H26	MV	1-1/4	3/4	RH	1-1/4	3/4	JG	none	1
cw ////	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	VG	1	3/4	MC	1	3/4	WL	1	3/4
CD SHT RF 20-H29	WG	1	3/4	sc	1	3/4	ZL	1	3/4



Multiple Units: Repeat if Necessary

PG 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
Α	Single
В	Tandem

3 – Rotation / Shaft					
	3 - Notation / Shart				
1	cw rotation				
2	ccw rotation; no outboard bearing				
3	Double rotation; no outboard bearing				
4	cw rotation; with outboard bear- ing				
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		
Al		3/4	1		
EI		1	3/4		
Tander	n 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		
Al		3/4	1		
EI		1	3/4		
	5 – Po	rt 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
Tander	n 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						
	Por	t 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				
ΥJ	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



 Multiple Units: Repeat if Necessary

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6	6 – Gear Housing					
	Port	Size				
	Left	Right				
ODTT	ube Ports ≤ 25	500 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.

See chart on page 6

6 – Gear Housing		
	Port Size	
	Left	Right
ODTT	ube Ports ≤ 30	000 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
АМ	1-1/4	1-1/2*
AP	1-1/2*	1-1/4
AE	1-1/2*	None
AU	None	1-1/2*
* Ports desig	nated by an as	terisk * are for

use as the low-pressure inlet port only.

See chart on page 7

6 – Gear Housing			
	Port Size		
	Left	Right	
Split Fl	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	
ОС	1	None	
OD	None	1	
OF	1	1	
OG	1	1-1/4	
ОН	1	1-1/2	
OJ	1-1/4	1	
OK	1-1/2	1	
OA	1-1/4	None	
ОВ	None	1-1/4	
OL	1-1/4	1-1/4	
ОМ	1-1/4	1-1/2	
OP	1-1/2	1-1/4	
OE	1-1/2	None	
OU	None	1-1/2	
See chart on page 8			

Continued on Next Page

Continued on Next Page



Multiple Units:
Repeat if Necessary

PG 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 Por	NPT Ports ≤ 3000 PSI		
ODT Tub	ODT Tube Ports ≤ 2500 and ≤ 3000 PSI		
Split Flange Ports ≤ 3000 PSI			
05	16.1 cm ³ /rev	0.99 in ³ /rev	
07	24.2 cm ³ /rev	1.48 in ³ /rev	
10	32.3 cm ³ /rev	1.97 in ³ /rev	
12	40.4 cm ³ /rev	2.46 in ³ /rev	
15	48.4 cm ³ /rev	2.96 in ³ /rev	
17	56.5 cm ³ /rev	3.45 in ³ /rev	
20	64.6 cm ³ /rev	3.94 in ³ /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	
See drawings on pages 12-13		

9 – Bearing Carrier / Pumps		
	Port Size	
	Left	Right
	NPT Ports	
С	none	none
ТВ	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
J۷	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
See chart on	page 14	

9 – Bearing Carrier / Motors		
NPT Ports		
В		
See chart on page 15		

9 – Bearing Carrier / Pumps		Pumps
	Port Size	
	Left	Right
ODT Ports		
СВ	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
See chart on	page 14	

9 – Bearing Carrier / Motors		
ODT Ports		
В		
See chart on page 15		

Continued on Next Page



Multiple Units:
Repeat if Necessary

PG 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
Sp	lit Flange Por	ting
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
See chart on page 14		

9 – Bearing Carrier / Motors		
Split Flange Porting		
В		
See chart on page 15		

9 – Beari	ng Carrier / Flo	w 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
вх	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
WG See chart or		3/4

9 – Bearing Carrier / Flow Dividers		
	Port Size	
	Left	Right
	ODT Tube Por	ts
ВС	none	1
BD	none	1-1/4
BF	none	1-1/2
F	1	none
G	1-1/4	none
Н	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
вк	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
МС	1	3/4
sc	1	3/4
See chart or	page 15	

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
See chart on page 15		

-1 For connecting shaft
Connecting tandem units.
Connecting Shaft - Multiple Units



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- 8. Confidential Information. Buyer acknowledges and agrees that Confidential Information has been and will be received in confidence and will remain the property of Seller. Buyer further agrees that it will not use Seller's Confidential Information for any purpose other than for the benefit of Seller and shall return all such Confidential Information to Seller within thirty (30) days upon request.
- **9.** <u>Loss to Buyer's Property</u>. Buyer's Property will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using Buyer's Property.

Property while it is in Seller's possession or control.

- 10. Special Tooling. Seller may impose a tooling charge for any Special Tooling. Special Tooling shall be and remain Seller's property. In no event will Buyer acquire any interest in the Special Tooling, even if such Special Tooling has been specially converted or adapted for manufacture of Goods for Buyer and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property owned by Seller in its sole determination at any time.
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- 15. Assignment. Buyer may not assign its rights or obligations without the prior written consent of Seller.
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- Also, Seller shall not be responsible for any loss or damage to Buyer's financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or subcontractors. An event of force majeure in the meaning of these Terms means any circumstances beyond Seller's control that permanently or temporarily hinders performance, even where that circumstance was already foreseen. Buyer shall not be entitled to cancel any orders following its claim of an event of force majeure.
 - 17. Waiver and Severability. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice either party's right to enforce that provision in the future. Invalidation of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.
 - 18. Duration. Unless otherwise stated in the Quote, any agreement governed by or arising from these Terms shall: (a) be for an initial duration of one (1) year: and (b) shall automatically renew for successive one-year terms unless terminated by Buyer with at least 180-days written notice to Seller or if Seller terminates the agreement pursuant to Section 19 of these Terms.
 - 19. Termination. Seller may, without liability to Buyer, terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property,(d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.
 - 20. Ownership of Rights. Buyer agrees that (a) Seller (and/or its affiliates) owns or is the valid licensee of Seller's IP and (b) the furnishing of information, related documents or other materials by Seller to Buyer does not grant or transfer any ownership interest or license in or to Seller's IP to Buyer, unless expressly agreed in writing. Without limiting the foregoing, Seller retains ownership of all Software supplied to Buyer. In no event shall Buyer obtain any greater right in and to the Software than a right in a license limited to the use thereof and subject to compliance with any other terms provided with the Software. Buyer further agrees that it will not, directly or through intermediaries, reverse engineer, decompile, or disassemble any Software (including firmware) comprising or contained within a Product, except and only to the extent that such activity may be expressly permitted, either by applicable law or, in the case of open source software, the applicable open source license.
 - 21. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any Intellectual Property Rights except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third-party claim that one or more of the Products infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer (including Seller's use of Buyer's Property); or (ii) directed to any Products for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.
 - 22. Governing Law. These Terms, the terms of any Quote, and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.
 - 23. Entire Agreement. These Terms, along with the terms set forth in the Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the Quote and these Terms, the terms set forth in the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with

respect to the subject matter shall have no effect. No modification to these Terms will be binding on Seller unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence, 'clickwrap' or other purported electronic assent to different or additional terms. Sections 2-25 of these Terms shall survive termination or cancellation of any agreement governed by or arising from these Terms.

- 24. No 'Wrap' Agreements/No Authority to Bind. Seller's clicking any buttons or any similar action, such as clicking "I Agree" or "Confirm," to utilize Buyer's software or webpage for the placement of orders, is NOT an agreement to Buyer's Terms and Conditions. NO EMPLOYEE, AGENT OR REPRESENTATIVE OF SELLER HAS THE AUTHORITY TO BIND SELLER BY THE ACT OF CLICKING ANY BUTTON OR SIMILAR ACTION ON BUYER'S WEBSITE OR PORTAL.
- 25. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer represents that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buver will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Law.





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