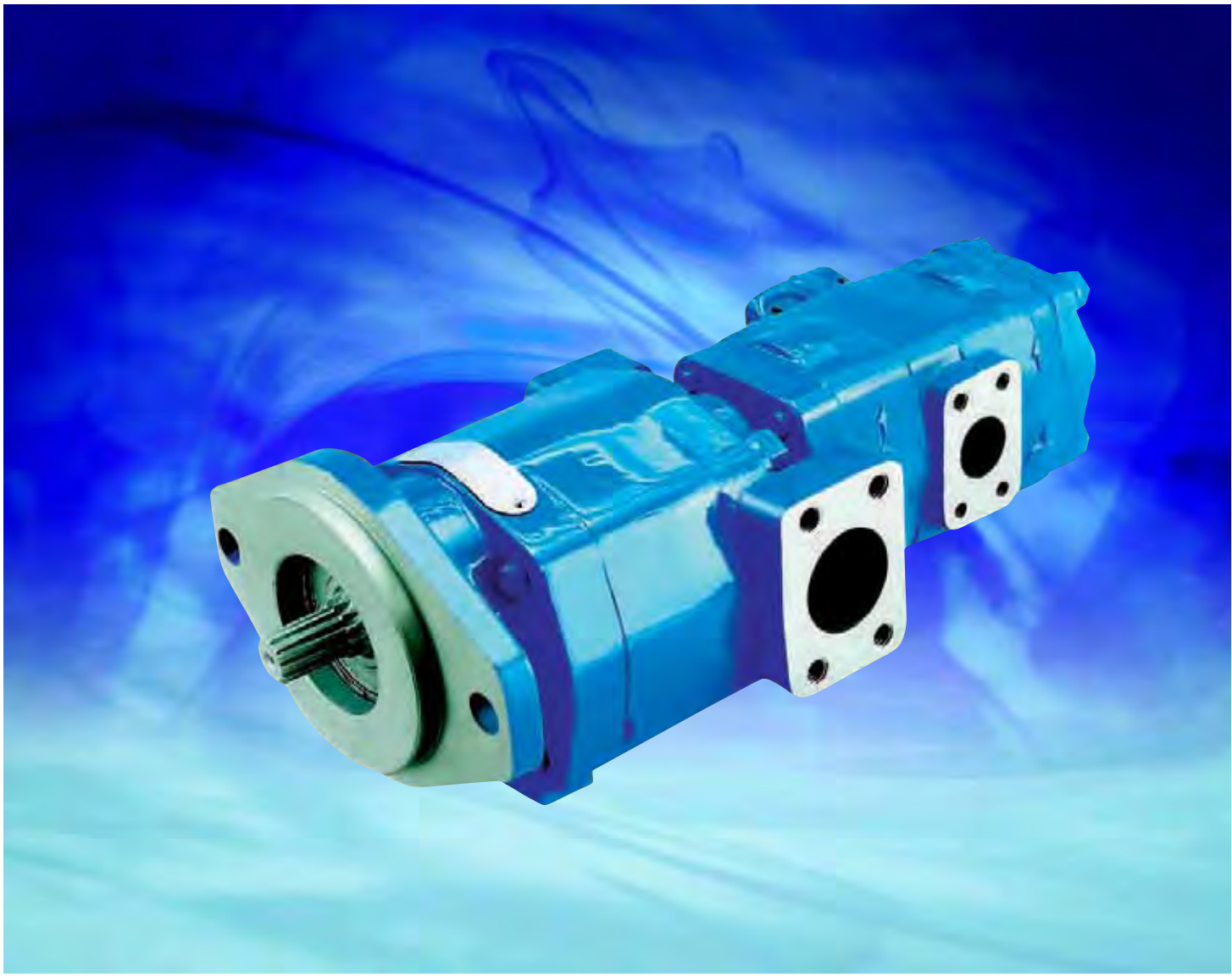
PGP/PGM300 Series

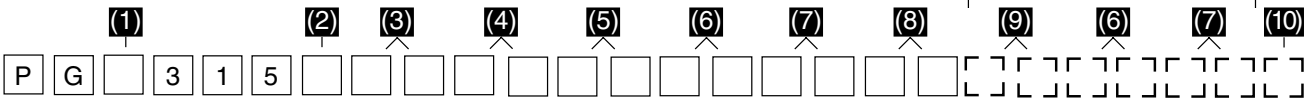
Cast Iron Bushing Design

Catalog HY09-0300/US



PGP/PGM315 Series Coding

Tandem: Repeat if Necessary



Pump/Motor (1)

P	Pump (PE for fluorocarbon seals)
M	Motor (no tandem motors available)

Unit (2)

A	Single Unit
B	Tandem Unit (flush studs)
L	Unit with Extended Studs

Shaft End Cover (3)

1	Pump, cw w/o O.B. bearing
2	Pump, ccw w/o O.B. bearing
4	Pump, cw with O.B. bearing (Code 490 Only)
5	Pump, ccw with O.B. bearing (Code 590 Only)
9	Motor, bi-rot w/o O.B. bearing + 1/4" ODT drain

Shaft End Cover (4)

89	SAE 2 bolt for clutch
93	SAE “A" 2 bolt
95	Pad Mount for Clutch
96	SAE “B" 2 bolt

Gear Housing (6)

AB	Pump
EB	Motor

Port End Cover (5)

(Side Ported)

IN •	OUT •	CW •	CCW •
SAE Split Flange (pump)			
1"	3/4"	**EJ**	**JE**
1"	1/2"	**EK**	**KE**
3/4"	3/4"	**EL**	**LE**
3/4"	1/2"	**EM**	**ME**
1"	-	**OE**	**EO**
3/4"	-	**OF**	**FO**
-	3/4"	**OJ**	**JO**
-	1/2"	**OL**	**LO**
SAE Split Flange (motor)			
1"	1"	**DR**-Double	
3/4"	3/4"	**DS**-Double	
Unported (pump)			
BI Unported			
OD Tube Porting (pump)			
1-1/4"	1"	**FB**	**BF**
1-1/4"	7/8"	**FC**	**CF**
1-1/4"	3/4"	**FG**	**GF**
1-1/4"	5/8"	**FJ**	**JF**
1"	1"	**FL**	**LF**
1"	7/8"	**FV**	**VF**
1"	3/4"	**FW**	**WF**
1"	5/8"	**FX**	**XF**
7/8"	7/8"	**FY**	**YF**
7/8"	3/4"	**FZ**	**ZF**
7/8"	5/8"	**BC**	**CB**
7/8"	1/2"	**BG**	**GB**
3/4"	3/4"	**BJ**	**JB**
3/4"	5/8"	**BL**	**LB**
3/4"	1/2"	**BN**	**NB**
1 1/4"	-	**BV**	**VB**
1"	-	**BW**	**WB**
7/8"	-	**BX**	**XB**
3/4"	-	**BY**	**YB**
-	1"	**BZ**	**ZB**
-	7/8"	**PD**	**DP**
-	3/4"	**PE**	**EP**
-	5/8"	**PM**	**MP**
-	1/2"	**PN**	**NP**

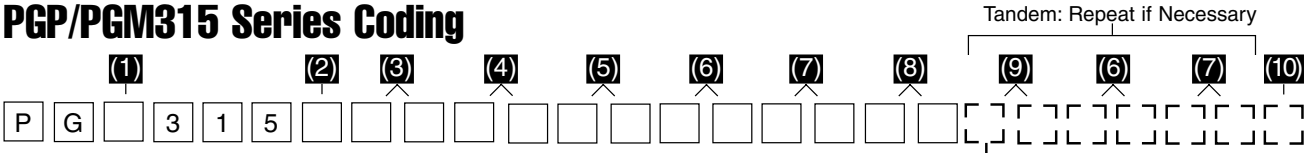
(Side Ported) (cont.)

IN •	OUT •	CW •	CCW •
OD Tube Porting (motor)			
1"	1"	**VN**-Double	
3/4"	3/4"	**VR**-Double	
1/2"	1/2"	**VQ**-Double	

(Rear Ported)

IN •	OUT •	CW •	CCW •
OD Tube Porting (pump)			
1-1/4"	1"	**UC**	**CU**
1-1/4"	7/8"	**UF**	**FU**
1-1/4"	3/4"	**UN**	**NU**
1"	1"	**UD**	**DU**
1"	7/8"	**UP**	**PU**
1"	3/4"	**UQ**	**QU**
1"	5/8"	**UR**	**RU**
7/8"	7/8"	**LN**	**NL**
7/8"	3/4"	**LP**	**PL**
7/8"	5/8"	**LQ**	**QL**
3/4"	3/4"	**LR**	**RL**
3/4"	5/8"	**LS**	**SL**
3/4"	1/2"	**LT**	**TL**
OD Tube Porting (motor)			
1"	1"	**RN**-Double	
3/4"	3/4"	**RQ**-Double	
1/2"	1/2"	**RS**-Double	

PGP/PGM315 Series Coding



Gear Width (7)

	Gear Width	in.³/rev.	cm³/rev.	Max Pressure
05	1/2"	.62	10.2	3500psi (241 bar)
07	3/4"	.93	15.2	3500psi (241 bar)
10	1"	1.24	20.3	3500psi (241 bar)
12	1-1/4"	1.55	25.4	3500psi (241 bar)
15	1-1/2"	1.86	30.5	3300psi (228 bar)
17	1-3/4"	2.17	35.6	2900psi (200 bar)
20	2"	2.48	40.6	2500psi (172 bar)

Shaft Type (8)

(For Single or Tandem Units -unless noted)

97 SAE “A"Keyed
96 SAE “A" Splined
66 SAE “B" Keyed
65 SAE “B" Splined
56 Clutch Pump Tapered, 5/16 - 24 thd. (internal), #6 Woodruff Keyed (single unit only); 1:4 taper

Bearing Carriers (9)

(Dual Outlet - Pump Only)

Outlets: for clockwise porting the top port number comes first; for counter-clockwise porting the bottom port number comes first.

IN •	OUT •		CW •	CCW •
SAE Split Flange				
1-1/4"	3/4"	3/4"	**CA**	**AC**
1-1/4"	3/4"	1/2"	**DA**	**AD**
1-1/4"	1/2"	1/2"	**EA**	**AE**
1"	3/4"	3/4"	**FA**	**AF**
1"	3/4"	1/2"	**GA**	**AG**
1"	1/2"	1/2"	**HA**	**AH**
OD Tube Porting				
1-1/2"	1"	1"	**JG**	**GJ**
1-1/2"	1"	7/8"	**KG**	**GK**
1-1/2"	7/8"	7/8"	**LG**	**GL**
1-1/2"	1"	3/4"	**MG**	**GM**
1-1/2"	3/4"	3/4"	**NG**	**GN**
1-1/4"	1"	1"	**PG**	**GP**
1-1/4"	1"	7/8"	**QG**	**GQ**
1-1/4"	7/8"	7/8"	**RG**	**GR**
1-1/4"	1"	3/4"	**SG**	**GS**
1-1/4"	3/4"	3/4"	**TG**	**GT**
1-1/4"	3/4"	5/8"	**UG**	**GU**
1-1/4"	3/4"	1/2"	**VG**	**GV**
1-1/4"	5/8"	5/8"	**WG**	**GW**
1-1/4"	1/2"	1/2"	**XG**	**GX**
1"	1"	1"	**YG**	**GY**
1"	1"	7/8"	**ZG**	**GZ**
1"	7/8"	7/8"	**RC**	**CR**
1"	1"	3/4"	**SC**	**CS**
1"	3/4"	3/4"	**TC**	**CT**
1"	3/4"	5/8"	**VC**	**CV**
1"	3/4"	1/2"	**WC**	**CW**
1"	5/8"	5/8"	**XC**	**CX**
1"	1/2"	1/2"	**YC**	**CY**

(Single Outlet - Pump Only)

Outlet for front section.

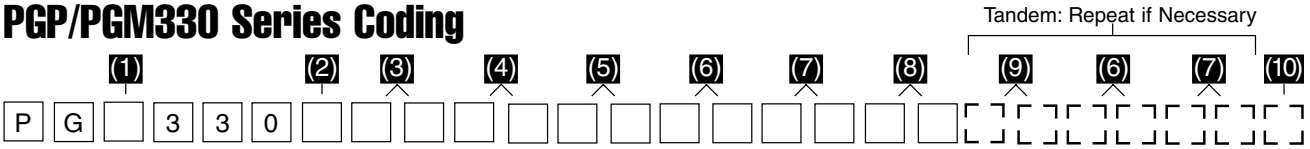
IN •	OUT •	CW •	CCW •
SAE Split Flange			
1-1/4"	1-1/4"	**CJ**	**JC**
1-1/4"	1"	**CL**	**LC**
1-1/4"	3/4"	**CM**	**MC**
1-1/4"	1/2"	**HB**	**BH**
1"	1"	**HC**	**CH**
1"	3/4"	**HF**	**FH**
1"	1/2"	**HL**	**LH**
3/4"	3/4"	**HM**	**MH**
3/4"	1/2"	**HN**	**NH**
OD Tube Porting			
1-1/2"	1-1/2"	**KB**	**BK**
1-1/2"	1-1/4"	**KC**	**CK**
1-1/2"	1"	**KF**	**FK**
1-1/2"	7/8"	**KL**	**LK**
1-1/2"	3/4"	**KM**	**MK**
1-1/4"	1-1/4"	**KN**	**NK**
1-1/4"	1"	**KO**	**OK**
1-1/4"	7/8"	**KP**	**PK**
1-1/4"	3/4"	**KQ**	**QK**
1-1/4"	5/8"	**MB**	**BM**
1-1/4"	1/2"	**ML**	**LM**
1"	1"	**MN**	**NM**
1"	7/8"	**MQ**	**QM**
1"	3/4"	**MR**	**RM**
1"	5/8"	**MS**	**SM**
1"	1/2"	**MT**	**TM**
3/4"	3/4"	**MU**	**UM**
3/4"	5/8"	**MV**	**VM**
3/4"	1/2"	**MW**	**WM**
Common Inlet Passage			
No Ports		**C**	**D**

Connecting Shaft (10)

For connecting tandem units.

1 Connecting Shaft

PGP/PGM330 Series Coding



Pump/Motor (1)

P	Pump
M	Motor

Unit (2)

A	Single Unit
B	Tandem Unit (flush studs)
C	Single or Tandem with two-piece shaft (O.B. bearing required)
L	Unit with Extended Studs

Shaft End Cover (3)

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 w/ O.B. bearing + 1/4" ODT drain
9	Motor, bi-rot w/o O.B. bearing + 1/4" ODT drain

Shaft End Cover (4)

42	SAE “B" 4 bolt
78	SAE “C" 4 bolt
97	SAE “B" 2 bolt

Port End Cover (5)

(Side Ported)

IN	OUT	CW	CCW
•	•	•	•
SAE Split Flange (pump)			
1-1/2"	1-1/4"	**EJ**	**JE**
1-1/2"	1"	**EK**	**KE**
1-1/4"	1-1/4"	**EL**	**LE**
1-1/4"	1"	**EM**	**ME**
1"	1"	**EN**	**NE**
1-1/2"	-	**OF**	**FO**
1-1/4"	-	**OG**	**GO**
1"	-	**OJ**	**JO**
-	1-1/4"	**OM**	**MO**
-	1"	**ON**	**NO**
SAE Split Flange (motor)			
1-1/4"	1-1/4"	**CS**-Double	
1"	1"	**CT**-Double	
3/4"	3/4"	**CV**-Double	
OD Tube Porting (pump)			
1-1/4"	1"	**FJ**	**JF**
1"	1"	**FL**	**LF**
1-1/4"	-	**BG**	**GB**
1"	-	**BJ**	**JB**
-	1"	**BN**	**NB**
OD Tube Porting (motor)			
1 1/4"	1 1/4"	**VC**-Double	
1"	1"	**VN**-Double	
3/4"	3/4"	**VR**-Double	

(Side Ported)

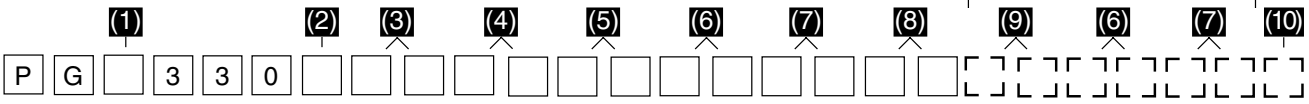
IN	OUT	CW	CCW
•	•	•	•
Unported (pump)			
BI	Unported		
Unported (motor)			
BA	Unported		

Gear Housing (6)

AB	Pump
EB	Motor

PGP/PGM330 Series Coding

Tandem: Repeat if Necessary



Gear Width (7)

	Gear Width	in.³/rev.	cm³/rev.	Max Pressure
05	1/2"	.99	16.1	3500psi (241 bar)
07	3/4"	1.48	24.2	3500psi (241 bar)
10	1"	1.97	32.3	3500psi (241 bar)
12	1-1/4"	2.46	40.4	3500psi (241 bar)
15	1-1/2"	2.96	48.4	3500psi (241 bar)
17	1-3/4"	3.45	56.5	3250psi (224 bar)
20	2"	3.94	64.6	3000psi (207 bar)

Shaft Type (8)

(For Single or Tandem Units -unless noted)

7 SAE "C" Spline (two-piece only)
25 SAE "B" Spline
30 SAE "B" Keyed
98 SAE "BB" Splined
43 SAE "BB" Keyed

Bearing Carriers (9)

(Dual Outlet - Pump Only)

Outlets: for clockwise porting the top port number comes first; for counter-clockwise porting the bottom port number comes first.

IN •	OUT •		CW •	CCW •
SAE Split Flange				
2"	1-1/4"	1-1/4"	**AM**	**MA**
2"	1-1/4"	1"	**AN**	**NA**
2"	1"	1"	**AP**	**PA**
1-1/2"	1-1/4"	1-1/4"	**AT**	**TA**
1-1/2"	1-1/4"	1"	**AU**	**UA**
1-1/2"	1"	1"	**AV**	**VA**
1-1/4"	1-1/4"	1-1/4"	**AW**	**WA**
1-1/4"	1-1/4"	1"	**AX**	**XA**
*1-1/4"	1"	1"	**AY**	**YA**
1"	1"	1"	**AZ**	**ZA**
OD Tube Porting				
1-1/2"	1"	1"	**GV**	**VG**
1-1/4"	1"	1"	**GY**	**YG**
1"	1"	1"	**GZ**	**ZG**

(Single Outlet - Pump Only)

Outlet for front section.

IN •	OUT •		CW •	CCW •
SAE Split Flange				
2"	1-1/2"		**HB**	**BH**
2"	1-1/4"		**HC**	**CH**
2"	1"		**HF**	**FH**
1-1/2"	1-1/2"		**HL**	**LH**
1-1/2"	1-1/4"		**HM**	**MH**
1-1/2"	1"		**HN**	**NH**
1-1/4"	1-1/4"		**HO**	**OH**
1-1/4"	1"		**HP**	**PH**
1"	1"		**HQ**	**QH**
1-1/4"	1"		**RS**	**SR**
OD Tube Porting				
1 1/2"	1 1/4"	-	**KM**	**MK**
1 1/2"	1"	-	**KN**	**NK**
1 1/4"	1 1/4"	-	**KO**	**OK**
1 1/4"	1"	-	**KP**	**PK**
1"	1"	-	**KQ**	**QK**

(Combined Outlet)

Outlet for front section.

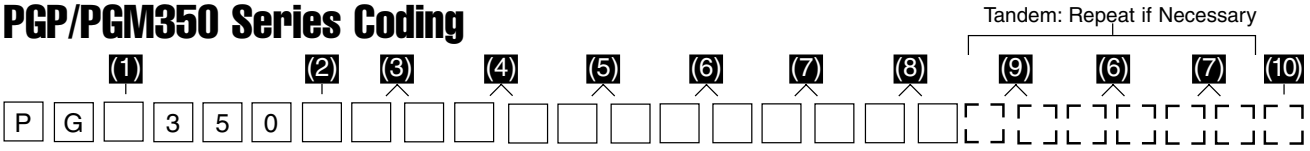
IN •	OUT •	CW •	CCW •
SAE Split Flange (pump)			
2"	1-1/2"	**UN**	**NU**
2"	1-1/4"	**UO**	**OU**
1-1/2"	1-1/2"	**UP**	**PU**
1-1/2"	1-1/4"	**UQ**	**QU**
1-1/4"	1-1/4"	**UR**	**RU**
SAE Split Flange (motor)			
1-1/2"	1-1/2"	**BB**-Double	
1-1/4"	1-1/4"	**CC**-Double	
1"	1"	**EE**-Double	
3/4"	3/4"	**FF**-Double	
OD Tube Porting (pump)			
1-1/2"	1-1/4"	**PQ**	**QP**
1-1/4"	1-1/4"	**PR**	**RP**
OD Tube Porting (motor)			
1-1/4"	1-1/4"	**NN**-Double	
1"	1"	**QQ**-Double	
3/4"	3/4"	**RR**-Double	
Common Inlet Passage (pump)			
No Ports		**C**	**D**

***** Outlet port for rear section.

Connecting Shaft (10)

For connecting tandem units.
1 Connecting Shaft

PGP/PGM350 Series Coding



Pump/Motor (1)

P	Pump
M	Motor

Unit (2)

A	Single Unit
B	Tandem Unit (flush studs)
C	Single or Tandem with two-piece shaft (O.B. bearing required)
L	Unit with Extended Studs

Shaft End Cover (3)

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 w/ O.B. bearing + 1/4" ODT drain
9	Motor, bi-rot w/o O.B. bearing + 1/4" ODT drain

Shaft End Cover (4)

42	SAE “B" 4 bolt
46	SAE “B" 2/4 bolt
78	SAE “C" 4 bolt
97	SAE “B" 2 bolt
98	SAE “C" 2 bolt

Port End Cover (5)

(Side Ported)

IN	OUT	CW	CCW
•	•	•	•
SAE Split Flange (pump)			
2"	1-1/2"	**EC**	**CE**
2"	1-1/4"	**EF**	**FE**
2"	1"	**EG**	**GE**
1-1/2"	1-1/2"	**EH**	**HE**
1-1/2"	1-1/4"	**EJ**	**JE**
1-1/2"	1"	**EK**	**KE**
1-1/4"	1-1/4"	**EL**	**LE**
1-1/4"	1"	**EM**	**ME**
1"	1"	**EN**	**NE**
2"	-	**OE**	**EO**
1-1/2"	-	**OF**	**FO**
1-1/4"	-	**OG**	**GO**
1"	-	**OJ**	**JO**
-	1-1/2"	**OL**	**LO**
-	1-1/4"	**OM**	**MO**
-	1"	**ON**	**NO**
SAE Split Flange (motor)			
1-1/2"	1-1/2"	**CR**-Double	
1-1/4"	1-1/4"	**CS**-Double	
1"	1"	**CT**-Double	
3/4"	3/4"	**CV**-Double	

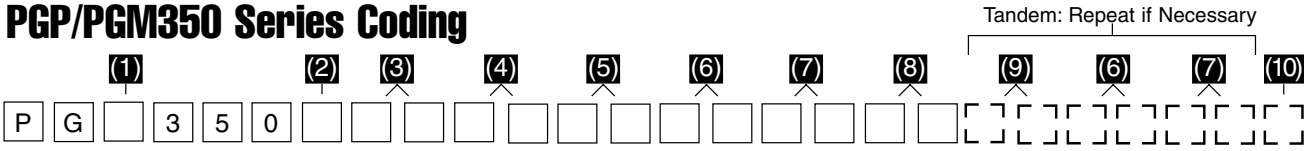
(Side Ported)

IN	OUT	CW	CCW
•	•	•	•
OD Tube Porting (pump)			
1-1/2"	1-1/4"	**FB**	**BF**
1-1/2"	1"	**FC**	**CF**
1-1/4"	1-1/4"	**FG**	**GF**
1-1/4"	1"	**FJ**	**JF**
1"	1"	**FL**	**LF**
1-1/2"	-	**BC**	**CB**
1-1/4"	-	**BG**	**GB**
1"	-	**BJ**	**JB**
-	1-1/4"	**BL**	**LB**
-	1"	**BN**	**NB**
OD Tube Porting (motor)			
1-1/4"	1-1/4"	**VC**-Double	
1"	1"	**VN**-Double	
3/4"	3/4"	**VR**-Double	
Unported (pump)			
Unported		**BI**	**IB**
Unported (motor)			
BA Unported			

Gear Housing (6)

AB	Pump
EB	Motor

PGP/PGM350 Series Coding



Gear Width (7)

	Gear Width	in.³/rev.	cm³/rev.	Max Pressure
05	1/2"	1.28	20.9	3500psi (241 bar)
07	3/4"	1.91	31.3	3500psi (241 bar)
10	1"	2.55	41.8	3500psi (241 bar)
12	1-1/4"	3.19	52.2	3500psi (241 bar)
15	1-1/2"	3.83	62.7	3500psi (241 bar)
17	1-3/4"	4.46	73.1	3250psi (224 bar)
20	2"	5.10	83.6	3000psi (207 bar)
22	2-1/4"	5.74	94.0	2750psi (190 bar)
25	2-1/2"	6.38	104.5	2500psi (172 bar)

Shaft Type (8)

(For Single, Tandem or Two-piece Shaft -unless noted)

7	SAE "C" Spline
11	SAE "C" Keyed
25	SAE "B" Spline
43	SAE "BB" Keyed
98	SAE "BB" Splined (tandem only)

Bearing Carriers (9)

(Dual Outlet - Pump Only)

Outlets: for clockwise porting the top port number comes first; for counter-clockwise porting the bottom port number comes first.

IN •	OUT •		CW •	CCW •
SAE Split Flange				
2-1/2"	1-1/4"	1-1/4"	**AF**	**FA**
2-1/2"	1-1/4"	1"	**AG**	**GA**
2-1/2"	1"	1"	**AH**	**HA**
2"	1-1/4"	1-1/4"	**AM**	**MA**
2"	1-1/4"	1"	**AN**	**NA**
2"	1"	1"	**AP**	**PA**
1-1/2"	1-1/4"	1-1/4"	**AT**	**TA**
1-1/2"	1-1/4"	1"	**AU**	**UA**
1-1/2"	1"	1"	**AV**	**VA**
1-1/4"	1-1/4"	1-1/4"	**AW**	**WA**
1-1/4"	1-1/4"	1"	**AX**	**XA**
1-1/4"	1"	1"	**AY**	**YA**
1"	1"	1"	**AZ**	**ZA**
OD Tube Porting				
2"	1-1/4"	1-1/4"	**GM**	**MG**
2"	1-1/4"	1"	**GN**	**NG**
2"	1"	1"	**GP**	**PG**
1-1/2"	1-1/4"	1-1/4"	**GT**	**TG**
1-1/2"	1-1/4"	1"	**GU**	**UG**
1-1/2"	1"	1"	**GV**	**VG**
1-1/4"	1-1/4"	1-1/4"	**GW**	**WG**
1-1/4"	1-1/4"	1"	**GX**	**XG**
1-1/4"	1"	1"	**GY**	**YG**
1"	1"	1"	**GZ**	**ZG**

(Single Outlet - Pump Only)

Outlet for front section.

IN •	OUT •	CW •	CCW •
SAE Split Flange			
2"	1-1/2"	**HB**	**BH**
2"	1-1/4"	**HC**	**CH**
2"	1"	**HF**	**FH**
1-1/2"	1-1/2"	**HL**	**LH**
1-1/2"	1-1/4"	**HM**	**MH**
1-1/2"	1"	**HN**	**NH**
1-1/4"	1-1/4"	**HO**	**OH**
1-1/4"	1"	**HP**	**PH**
* 1"	1"	**HQ**	**QH**
1-1/4"	1"	**RS**	**SR**
OD Tube Porting			
2"	1-1/2"	**KB**	**BK**
2"	1-1/4"	**KC**	**CK**
2"	1"	**KF**	**FK**
1-1/2"	1-1/2"	**KL**	**LK**
1-1/2"	1-1/4"	**KM**	**MK**
1-1/2"	1"	**KN**	**NK**
1-1/4"	1-1/4"	**KO**	**OK**
1-1/4"	1"	**KP**	**PK**
1"	1"	**KQ**	**QK**

Combined Outlet)

Outlet for front section.

IN •	OUT •	CW •	CCW •
SAE Split Flange (pump)			
2"	1-1/2"	**UN**	**NU**
2"	1-1/4"	**UO**	**OU**
1-1/2"	1-1/2"	**UP**	**PU**
1-1/2"	1-1/4"	**UQ**	**QU**
1-1/4"	1-1/4"	**UR**	**RU**
SAE Split Flange (motor)			
2"	2"	**AA**-Double	
1-1/2"	1-1/2"	**BB**-Double	
1-1/4"	1-1/4"	**CC**-Double	
1"	1"	**EE**-Double	
3/4"	3/4"	**FF**-Double	
OD Tube Porting (pump)			
2"	1-1/2"	**PE**	**EP**
2"	1-1/4"	**PM**	**MP**
1-1/2"	1-1/2"	**PN**	**NP**
1-1/2"	1-1/4"	**PQ**	**QP**
1-1/4"	1-1/4"	**PR**	**RP**
OD Tube Porting (motor)			
1-1/2"	1-1/2"	**MM**-Double	
1-1/4"	1-1/4"	**NN**-Double	
1"	1"	**QQ**-Double	
3/4"	3/4"	**RR**-Double	
Common Inlet Passage			
No Ports		**C**	**D**

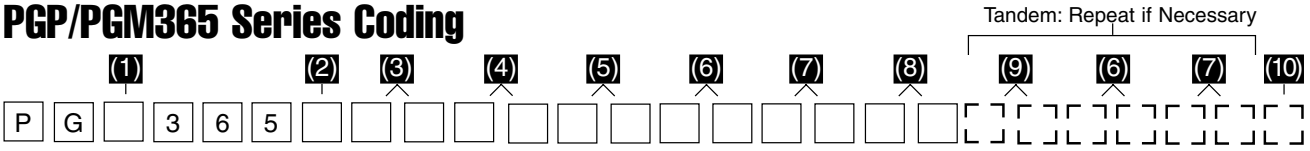
***** Outlet port for rear section.

Connecting Shaft (10)

For connecting tandem units.

1	Connecting Shaft

PGP/PGM365 Series Coding



Pump/Motor (1)

P	Pump
M	Motor

Unit (2)

A	Single Unit
B	Tandem Unit (flush studs)
C	Single or Tandem with two-piece shaft (O.B. bearing required)
L	Unit with Extended Studs

Shaft End Cover (3)

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 w/ O.B. bearing + 1/4" ODT drain
9	Motor, bi-rot w/o O.B. bearing + 1/4" ODT drain

Shaft End Cover (4)

42	SAE “B" 4 bolt
78	SAE “C" 4 bolt
97	SAE “B" 2 bolt
98	SAE “C" 2 bolt

Port End Cover (5)

(Side Ported)

IN	OUT	CW	CCW
•	•	•	•
SAE Split Flange (pump)			
2"	1-1/2"	**EC**	**CE**
2"	1-1/4"	**EF**	**FE**
2"	1"	**EG**	**GE**
1-1/2"	1-1/2"	**EH**	**HE**
1-1/2"	1-1/4"	**EJ**	**JE**
1-1/2"	1"	**EK**	**KE**
1-1/4"	1-1/4"	**EL**	**LE**
1-1/4"	1"	**EM**	**ME**
1"	1"	**EN**	**NE**
2"	-	**OE**	**EO**
1-1/2"	-	**OF**	**FO**
1-1/4"	-	**OG**	**GO**
1"	-	**OJ**	**JO**
-	1-1/2"	**OL**	**LO**
-	1-1/4"	**OM**	**MO**
-	1"	**ON**	**NO**
SAE Split Flange (motor)			
1-1/2"	1-1/2"	**CR**-Double	
1-1/4"	1-1/4"	**CS**-Double	
1"	1"	**CT**-Double	
3/4"	3/4"	**CV**-Double	

(Side Ported)

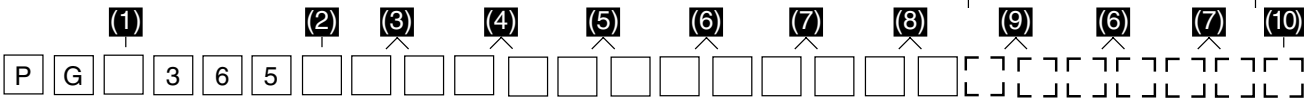
IN	OUT	CW	CCW
•	•	•	•
OD Tube Porting (pump)			
1-1/2"	1-1/4"	**FB**	**BF**
1-1/2"	1"	**FC**	**CF**
1-1/4"	1-1/4"	**FG**	**GF**
1-1/4"	1"	**FJ**	**JF**
1"	1"	**FL**	**LF**
1-1/2"	-	**BC**	**CB**
1-1/4"	-	**BG**	**GB**
1"	-	**BJ**	**JB**
-	1-1/4"	**BL**	**LB**
-	1"	**BN**	**NB**
OD Tube Porting (motor)			
1-1/4"	1-1/4"	**VC**-Double	
1"	1"	**VN**-Double	
3/4"	3/4"	**VR**-Double	
Unported (pump)			
Unported		**BI**	**IB**
Unported (motor)			
BA Unported			

Gear Housing (6)

AB	Pump
EB	Motor

PGP/PGM365 Series Coding

Tandem: Repeat if Necessary



Gear Width (7)

	Gear Width	in.³/rev.	cm³/rev.	Max Pressure
07	3/4"	2.70	44.3	3500psi (241 bar)
10	1"	3.60	59.0	3500psi (241 bar)
12	1-1/4"	4.50	73.8	3500psi (241 bar)
15	1-1/2"	5.40	88.5	3500psi (241 bar)
17	1-3/4"	6.30	103.3	3500psi (241 bar)
20	2"	7.20	118.0	3500psi (241 bar)
22	2-1/4"	8.10	132.8	3250psi (224 bar)
25	2-1/2"	9.00	147.5	3000psi (207 bar)

Shaft Type (8)

7	SAE "C" Spline
11	SAE "C" Keyed
25	SAE "B" Spline (single only)

Bearing Carriers (9)

(Dual Outlet - Pump Only)

Outlets: for clockwise porting the top port number comes first; for counter-clockwise porting the bottom port number comes first.

IN •	OUT •		CW •	CCW •
SAE Split Flange				
2-1/2"	1-1/2"	1-1/2"	**AC**	**CA**
2-1/2"	1-1/2"	1-1/4"	**AD**	**DA**
2-1/2"	1-1/2"	1"	**AE**	**EA**
2-1/2"	1-1/4"	1-1/4"	**AF**	**FA**
2-1/2"	1-1/4"	1"	**AG**	**GA**
2-1/2"	1"	1"	**AH**	**HA**
2"	1-1/2"	1-1/2"	**AJ**	**JA**
2"	1-1/2"	1-1/4"	**AK**	**KA**
2"	1-1/2"	1"	**AL**	**LA**
2"	1-1/4"	1-1/4"	**AM**	**MA**
2"	1-1/4"	1"	**AN**	**NA**
2"	1"	1"	**AP**	**PA**
1-1/2"	1-1/2"	1-1/2"	**AQ**	**QA**
1-1/2"	1-1/2"	1-1/4"	**AR**	**RA**
1-1/2"	1-1/2"	1"	**AS**	**SA**
1-1/2"	1-1/4"	1-1/4"	**AT**	**TA**
1-1/2"	1-1/4"	1"	**AU**	**UA**
1-1/2"	1"	1"	**AV**	**VA**
1-1/4"	1-1/4"	1-1/4"	**AW**	**WA**
1-1/4"	1-1/4"	1"	**AX**	**XA**
1-1/4"	1"	1"	**AY**	**YA**
1"	1"	1"	**AZ**	**ZA**
OD Tube Porting				
2"	1-1/2"	1 1/2"	**GJ**	**JG**
2"	1-1/2"	1 1/4"	**GK**	**KG**
2"	1-1/2"	1"	**GL**	**LG**
2"	1-1/4"	1 1/4"	**GM**	**MG**
2"	1-1/4"	1"	**GN**	**NG**
2"	1"	1"	**GP**	**PG**
1-1/2"	1-1/2"	1 1/2"	**GQ**	**QG**
1-1/2"	1-1/2"	1 1/4"	**GR**	**RG**
1-1/2"	1-1/2"	1"	**GS**	**SG**
1-1/2"	1-1/4"	1 1/4"	**GT**	**TG**
1-1/2"	1-1/4"	1"	**GU**	**UG**
1-1/2"	1"	1"	**GV**	**VG**
1-1/4"	1-1/4"	1 1/4"	**GW**	**WG**
1-1/4"	1-1/4"	1"	**GX**	**XG**
1-1/4"	1"	1"	**GY**	**YG**
1"	1"	1"	**GZ**	**ZG**

(Single Outlet - Pump Only)

Outlet for front section.

IN •	OUT •	CW •	CCW •
SAE Split Flange			
2-1/2"	1-1/2"	**CJ**	**JC**
2-1/2"	1-1/4"	**CL**	**LC**
2-1/2"	1"	**CM**	**MC**
2"	1-1/2"	**HB**	**BH**
2"	1-1/4"	**HC**	**CH**
2"	1"	**HF**	**FH**
1-1/2"	1-1/2"	**HL**	**LH**
1-1/2"	1-1/4"	**HM**	**MH**
1-1/2"	1"	**HN**	**NH**
1-1/4"	1-1/4"	**HO**	**OH**
1-1/4"	1"	**HP**	**PH**
1"	1"	**HQ**	**QH**
2-1/2"	1-1/2"	**NR**	**RN**
1-1/4"	1"	**RS**	**SR**
OD Tube Porting			
2"	1-1/2"	**KB**	**BK**
2"	1-1/4"	**KC**	**CK**
2"	1"	**KF**	**FK**
1-1/2"	1-1/2"	**KL**	**LK**
1-1/2"	1-1/4"	**KM**	**MK**
1-1/2"	1"	**KN**	**NK**
1-1/4"	1-1/4"	**KO**	**OK**
1-1/4"	1"	**KP**	**PK**
1"	1"	**KQ**	**QK**

(Combined Outlet)

Outlet for front section.

IN •	OUT •	CW •	CCW •
SAE Split Flange (pump)			
2-1/2"	1-1/2"	**UC**	**CU**
2-1/2"	1-1/4"	**UF**	**FU**
2"	1-1/2"	**UN**	**NU**
2"	1-1/4"	**UO**	**OU**
1-1/2"	1-1/2"	**UP**	**PU**
1-1/2"	1-1/4"	**UQ**	**QU**
1-1/4"	1-1/4"	**UR**	**RU**
SAE Split Flange (motor)			
2"	2"	**AA**-Double	
1-1/2"	1-1/2"	**BB**-Double	
1-1/4"	1-1/4"	**CC**-Double	
1"	1"	**EE**-Double	
3/4"	3/4"	**FF**-Double	
OD Tube Porting (pump)			
2"	1-1/2"	**PE**	**EP**
2"	1-1/4"	**PM**	**MP**
1-1/2"	1-1/2"	**PN**	**NP**
1-1/2"	1-1/4"	**PQ**	**QP**
1-1/4"	1-1/4"	**PR**	**RP**
OD Tube Porting (motor)			
1-1/2"	1-1/2"	**MM**-Double	
1-1/4"	1-1/4"	**NN**-Double	
1"	1"	**QQ**-Double	
3/4"	3/4"	**RR**-Double	

***** Outlet port for rear section.

Connecting Shaft (10)

For connecting tandem units.

1	Connecting Shaft

PL Factor

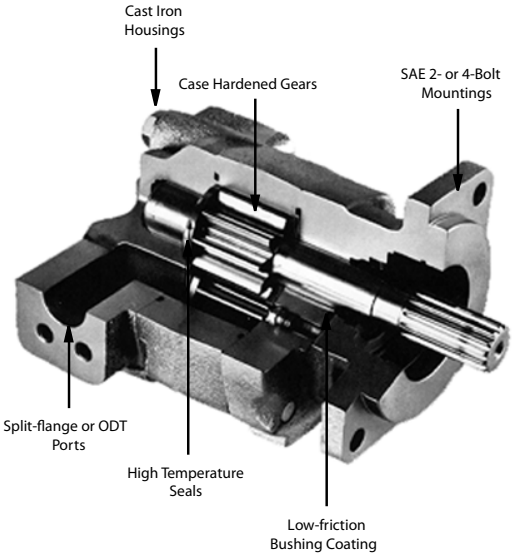
Each section of a multiple pump or motor should be regarded as a single unit with corresponding delivery and power input requirements. Since the entire input horsepower is fed through a common drive shaft, the power delivered to or from the unit is limited by the physical strength of the shaft. This limit is defined as a "PL" factor; "P" being the operating pressure and "L" the summation of gear widths.

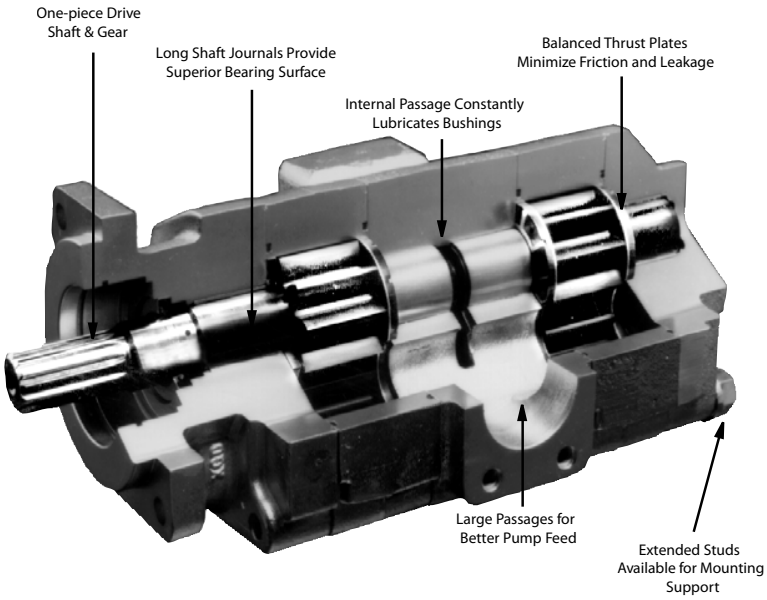
In multiple units the "PL" must be calculated for the first connecting shaft as well as the drive shaft. Each style or type of shaft has a unique "PL" factor as noted in the table to the right.

Pressure X Total Gear Width = PL

PL MUST NOT EXCEED NUMBER SHOWN IN CHART FOR APPROPRIATE SHAFT.

PL Chart		
Shaft Style	Integral Shaft & Gear	Two-Piece Style
PGP/PGM315		
SAE "A" Spline *(up to 1.25" GW)*	4,450	--
SAE "A" Key	3,600	--
SAE "B" Spline	13,400	--
SAE "B" Key	9,900	--
Connecting Shaft	--	5,550
PGP/PGM **330**		
SAE "B" Spline	8,450	6,250
SAE "B" Key	6,250	6,250
SAE "B-B" Spline	13,000	6,250
SAE "B-B" Key	9,300	6,250
SAE "C" Spline	--	6,250
SAE "C" Key	--	6,250
Connecting Shaft	--	6,250
PGP/PGM **350**		
SAE "B" Spline	6,450	6,450
SAE "B" Key	4,750	4,750
SAE "B-B" Spline	9,900	9,000
SAE "B-B" Key	7,100	7,100
SAE "C" Spline	19,100	9,000
SAE "C" Key	13,900	9,000
Connecting Shaft	--	9,000
PGP/PGM **365**		
SAE "B" Spline	5,050	5,050
SAE "B" Key	3,700	3,700
SAE "B-B" Spline	7,750	5,350
SAE "B-B" Key	5,550	5,550
SAE "C" Spline	14,900	11,950
SAE "C" Key	10,800	10,800
Connecting Shaft	--	11,950





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