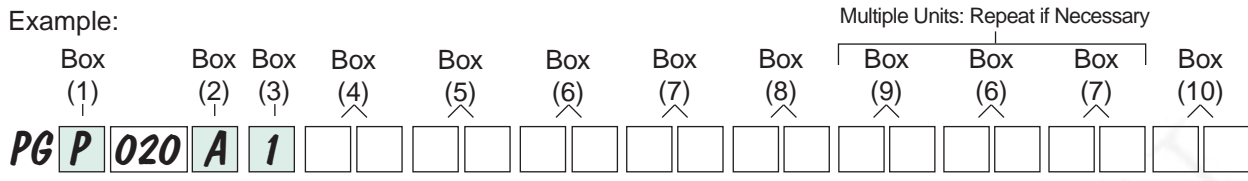
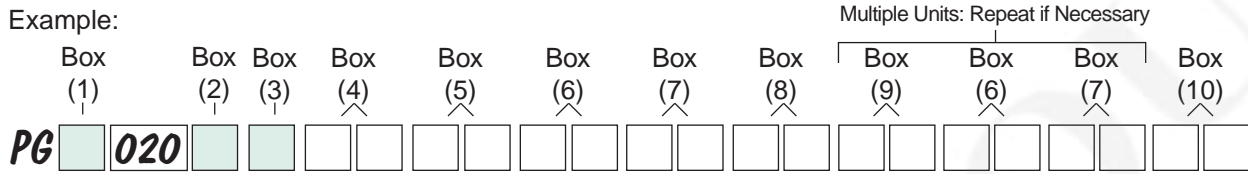


PGP020™ How to Specify Code (Boxes 1-3)

Example:



Example:



Box 1 Description	
P	Pump
M	Motor

Box 2 Unit	
A	Single
B	Tandem

Box 3 Shaft End Cover	
ORDER CODE	ROTATION – OUTBEARING – DRAIN PORT
1	Clockwise (CW) rotation
2	Counter clockwise rotation (CCW); 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) ¼" NPT drain
9	Double rotation ; no outboard bearing (motor) ¼" NPT drain

PGP020™ How to Specify (Box 4)

Example:

Multiple Units: Repeat if Necessary

Box (1) Box (2) Box (3) Box (4) Box (5) Box (6) Box (7) Box (8) Box (9) Box (6) Box (7) Box (10)

PG P 020 A 1 0 5

Example:

Multiple Units: Repeat if Necessary

Box (1) Box (2) Box (3) Box (4) Box (5) Box (6) Box (7) Box (8) Box (9) Box (6) Box (7) Box (10)

PG 020

Box 4 Shaft End Cover Codes		Box 4 Shaft End Cover Codes	
ORDER CODE	PICTURE / MOUNTING FLANGE TYPE	ORDER CODE	PICTURE / MOUNTING FLANGE TYPE
05	6 BOLT FLANGE – 3.25 DIA. BOLT CIRCLE	46	SAE 2/4 BOLT “B” ANSI 101 – 2/4
10	2 BOLT PAD MOUNT	94	SAE 2 BOLT “A” ANSI 82-2
27	4 BOLT CLOVERLEAF	96	SAE 2 BOLT “B” ANSI 101-2 TYPE II
42	SAE 4 BOLT “B” ANSI 101-4	97	SAE 2 BOLT “B” ANSI 101-2

PGP020™ How to Specify (Box 5)

Example:

Multiple Units: Repeat if Necessary

Box (1) Box (2) Box (3) Box (4) Box (5) Box (6) Box (7) Box (8) Box (9) Box (6) Box (7) Box (10)

PG P 020 A 1 0 5 C E

Example:

Multiple Units: Repeat if Necessary

Box (1) Box (2) Box (3) Box (4) Box (5) Box (6) Box (7) Box (8) Box (9) Box (6) Box (7) Box (10)

PG 020

Box 5 Port End Cover Codes						Box 5 Port End Cover Codes					
Order Codes				O.D.T. Porting		Order Codes				N.P.T. Porting	
Single Units W/O ST		Tandem Units W/O ST		Port Size		Single Units W/O ST		Tandem Units W/O ST		Port Size	
W/ST	W/ST	W/ST	W/ST	LEFT	RIGHT	W/ST	W/ST	W/ST	W/ST	LEFT	RIGHT
CE	CY	CI	CY	¾	none	BE	BY	BI	BY	no port	no port
DE	DY	DI	DY	none	¾	KE	KY	KI	KY	¾	none
FE	FY	FI	FY	¾	¾	LE	LY	LI	LY	none	¾
GE	GY	GI	GY	1	¾	ME	MY	MI	MY	¾	¾
HE	HY	HI	HY	¾	1	QU	QQ	QD	QQ	1	1
JE	JY	JI	JY	1	1	AI		AI		¾	1
MA	YO	MU	YO	1	none	EI		EI		1	¾
RA	RO	SU	RO	none	1						

NOTE: W/O ST columns denote units without support studs, and W/ST columns denote units with support studs.

PGP020™ How to Specify N.P.T. Ports (Boxes 6 & 7)

(Only When Ordering N.P.T. Ports, See Pages 5-6 for O.D Tube Porting and Page 7 for Split Flange Porting)

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)
PG	P	020	A	1	05	CE	AB	07			

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)
PG		020									

Box 6 Gear Housing - N.P.T. Ports ≤ 3000 psi			Box 7 Gear Housing - N.P.T. Ports ≤ 3000 psi						
ORDER CODE	N.P.T. 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	½	none	X	X	X	-	-	-	-
IM	none	½	X	X	X	-	-	-	-
IR	½	½	X	X	-	-	-	-	-
IC	¾	none	-	X	X	X	X	X	X
ID	none	¾	-	X	X	X	X	X	X
IF	¾	¾	-	X	X	X	X	X	X
IG	¾	1	-	-	X	X	X	X	X
IH	¾	1 ¼	-	-	-	-	X	X	-
IJ	1	¾	-	-	X	X	X	X	X
IK	1 ¼	¾	-	-	-	-	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 ¼	-	-	-	X	X	X	X
YH	1	1 ½	-	-	-	-	-	-	-
YJ	1 ¼	1	-	-	-	-	X	X	X
YK	1 ½	1	-	-	-	-	-	-	-
IA	1 ¼	none	-	-	-	-	X	X	X
IB	none	1 ¼	-	-	-	-	X	X	X
YL	1 ¼	1 ¼	-	-	-	-	X	X	X

PGP020™ How to Specify O.D. Tubes (Boxes 6 & 7)

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)											
PG	P	020	A	1	0	5	C	E	A	B	0	7										

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)											
PG		020																				

Box 6 Gear Housing - O.D. Tube Ports ≤2500 psi			Box 7 Gear Housing - O.D. Tube Ports ≤2500 psi							
ORDER CODE	O.D. TUBE PORTING		GEAR WIDTH AVAILABILITY							
	LEFT	RIGHT	05	07	10	12	15	17	20	
AB	none	none	X	X	X	X	X	X	X	X
EC	¾	none	-	X	X	X	X	X	X	X
ED	none	¾	-	X	X	X	X	X	X	X
EF	¾	¾	-	X	X	X	X	X	X	X
EG	¾	1	-	-	X	X	X	X	X	X
EH	¾	1 ¼*	-	-	-	X*	X	X	X	X
IN	¾	1 ½	-	-	-	-	-	X	X	X
EJ	1	¾	-	-	X	X	X	X	X	X
EK	1 ¼*	¾	-	-	-	X*	X	X	X	X
IP	1 ½	¾	-	-	-	-	-	X	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	X
AD	none	1	-	-	X	X	X	X	X	X
AF	1	1	-	-	-	X*	X	X	X	X
AG	1	1 ¼*	-	-	-	X*	X	X	X	X
AH	1	1 ½	-	-	-	-	-	X	X	X
AJ	1 ¼*	1	-	-	-	X*	X	X	X	X
AK	1 ½	1	-	-	-	-	-	X	X	X
AA	1 ¼*	none	-	-	-	X*	X	X	X	X
AO	none	1 ¼*	-	-	-	X*	X	X	X	X
AL	1 ¼	1 ¼	-	-	-	-	X	X	X	X
AM	1 ¼	1 ½	-	-	-	-	-	X	X	X
AP	1 ½	1 ¼	-	-	-	-	-	X	X	X
AE	1 ½	none	-	-	-	-	-	X	X	X
AU	none	1 ½	-	-	-	-	-	X	X	X

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

PGP020™ How to Specify O.D. Tubes (Boxes 6 & 7)

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)										
PG	P	020	A	1	0	5	C	E	A	B	0	7									

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)										
PG		020																			

Box 6 Gear Housing - O.D. Tube Ports ≤3000 psi			Box 7 Gear Housing - O.D. Tube Ports ≤3000 psi						
ORDER CODE	O.D. TUBE PORTING		GEAR WIDTH AVAILABILITY						
	PORT SIZE		05	07	10	12	15	17	20
	LEFT	RIGHT							
AB	none	none	X	X	X	X	X	X	X
EC	¾	none	-	X	X	X	X	X	X
ED	none	¾	-	X	X	X	X	X	X
EF	¾	¾	-	X	X	X	X	X	X
EG	¾	1*	-	-	X*	X	X	X	X
EH	¾	1 ¼*	-	-	-	-	X*	X	X
IN	¾	1 ½*	-	-	-	-	-	X*	X
EJ	1*	¾	-	-	X*	X	X	X	X
EK	1 ¼*	¾	-	-	-	-	X*	X	X
IP	1 ½*	¾	-	-	-	-	-	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 ¼*	-	-	-	X*	X*	X	X
AH	1	1 ½*	-	-	-	-	-	X*	X
AJ	1 ¼*	1	-	-	-	X*	X*	X	X
AK	1 ½*	1	-	-	-	-	-	X*	X
AA	1 ¼*	none	-	-	-	X*	X*	X	X
AO	none	1 ¼*	-	-	-	X*	X*	X	X
AL	1 ¼	1 ¼	-	-	-	-	-	X	X
AM	1 ¼	1 ½*	-	-	-	-	-	X*	X
AP	1 ½*	1 ¼	-	-	-	-	-	X*	X
AE	1 ½*	none	-	-	-	-	-	X*	X
AU	none	1 ½*	-	-	-	-	-	X*	X

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

PGP020™ How to Specify Split Flange Porting (Boxes 6 & 7)

Example:

Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)
PG	P	020	A	1	05	CE	AB	07			

Example:

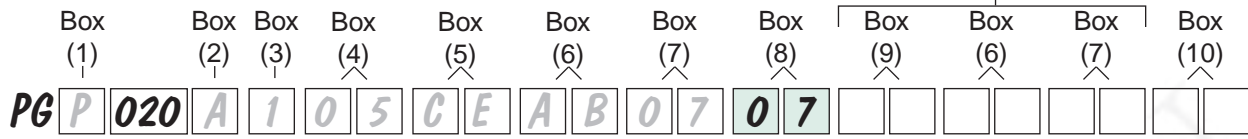
Multiple Units: Repeat if Necessary

Box (1)	Box (2)	Box (3)	Box (4)	Box (5)	Box (6)	Box (7)	Box (8)	Box (9)	Box (6)	Box (7)	Box (10)
PG		020									

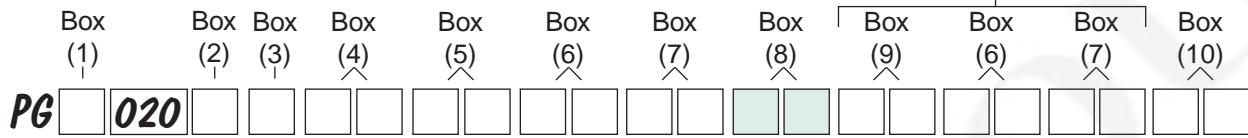
Box 6 Gear Housing - Split Flange Porting ≤3000 psi			Box 7 Gear Housing - Split Flange Porting ≤3000 psi						
ORDER CODE	SPLIT FLANGE PORTING		GEAR WIDTH AVAILABILITY						
	LEFT	RIGHT	05	07	10	12	15	17	20
AB	none	none	X	X	X	X	X	X	X
UC	¾	none	-	X	X	X	X	X	X
UD	none	¾	-	X	X	X	X	X	X
UF	¾	¾	-	X	X	X	X	X	-
UG	¾	1	-	-	X	X	X	X	X
UH	¾	1 ¼	-	-	-	X	X	X	X
UJ	1	¾	-	-	X	X	X	X	X
UK	1 ¼	¾	-	-	-	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 ¼	-	-	-	X	X	X	X
OH	1	1 ½	-	-	-	-	-	X	X
OJ	1 ¼	1	-	-	-	X	X	X	X
OK	1 ½	1	-	-	-	-	-	X	X
OA	1 ¼	none	-	-	-	X	X	X	X
OB	none	1 ¼	-	-	-	X	X	X	X
OL	1 ¼	1 ¼	-	-	-	-	X	X	X
OM	1 ¼	1 ½	-	-	-	-	-	X	X
OP	1 ½	1 ¼	-	-	-	-	-	X	X
OE	1 ½	none	-	-	-	-	-	X	X
OU	none	1 ½	-	-	-	-	-	X	X

PGP020™ How to Specify (Box 8)

Example:



Example:

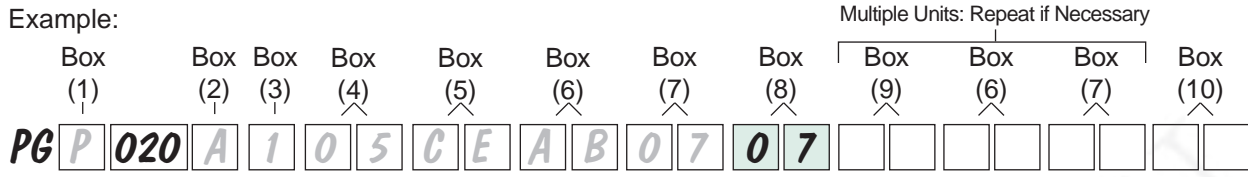


Box 8 Drive Shafts		Box 8 Drive Shafts	
ORDER CODE	PICTURE / MOUNTING FLANGE TYPE	ORDER CODE	PICTURE / MOUNTING FLANGE TYPE
07	<p>PL=5850</p> <p>S.A.E. "C" SPLINE/ANSI 32-4 (2 PIECE SHAFT,CONTINENTAL)</p>	30	<p>PL=4925</p> <p>S.A.E. "B" KEYED ANSI 22-1</p>
12	<p>PL=4150</p> <p>.750 DIA. KEYED SHAFT (.19 WIDE KEY) (2 PIECE SHAFT,CONTINENTAL)</p>	32	<p>PL=4630</p> <p>CLUTCH PUMP SHAFT</p>
15	<p>PL=4925</p> <p>S.A.E. "B" THREADED + KEY ANSI 22-2 (2 PIECE SHAFT,CONTINENTAL)</p>	43	<p>PL=7850</p> <p>S.A.E. "B-B" KEYED ANSI 25-1 MODIFIED</p>
25	<p>PL=8580</p> <p>S.A.E. "B" SPINE ANSI 22-4</p>	65	<p>PL=6035</p> <p>S.A.E. "B" SPLINE ANSI 22-4 TYPE II</p>

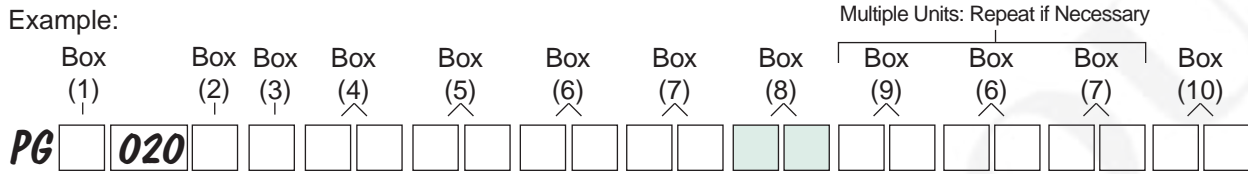
CONTINUED ON NEXT PAGE

PGP020™ How to Specify (Box 8)

Example:



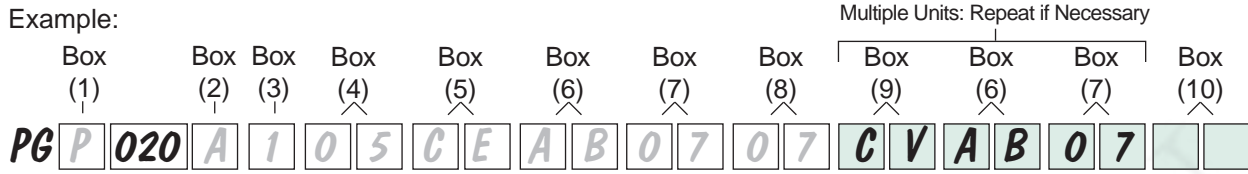
Example:



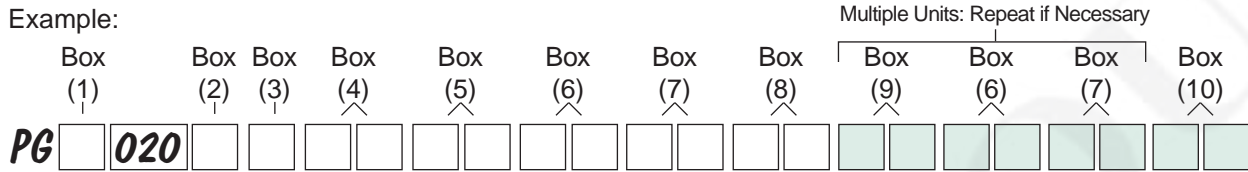
Box 8 Drive Shafts		Box 8 Drive Shafts	
ORDER CODE	PICTURE / MOUNTING FLANGE TYPE	ORDER CODE	PICTURE / MOUNTING FLANGE TYPE
66	<p>PL=4925</p> <p>S.A.E. "B" KEYED ANSI 22-1 TYPE II</p>	90	<p>PL=4925</p> <p>S.A.E. "B" THREADED + KEY ANSI 22-2 MODIFIED</p>
67	<p>PL=7850</p> <p>S.A.E. "B" KEYED ANSI 22-1 TYPE II</p>	95	<p>PL=2850</p> <p>S.A.E. "A" SPLINE ANSI 16-4</p> <p>SAE Involute Spline 9 Teeth - 16/32 Pitch Flat Root Side Fit Major Dia. .603-.609 Minor Dia. .4835 Max.</p>
68	<p>PL=12000</p> <p>1.00 DIA. 6 TOOTH SPLINE SHAFT</p> <p>Six Spline Shaft Major Dia. .995-.997 Minor Dia. .820-.824 Tooth Thk. .244-.245</p>	98	<p>PL=13180</p> <p>S.A.E. "B-B" SPLINE ANSI 25-4</p> <p>SAE Involute Spline 15 Teeth - 16/32 Pitch Flat Root Side Fit Major Dia. .978-.983 Minor Dia. .8585 Max.</p>

PGP020™ How to Specify (Box 9)

Example:



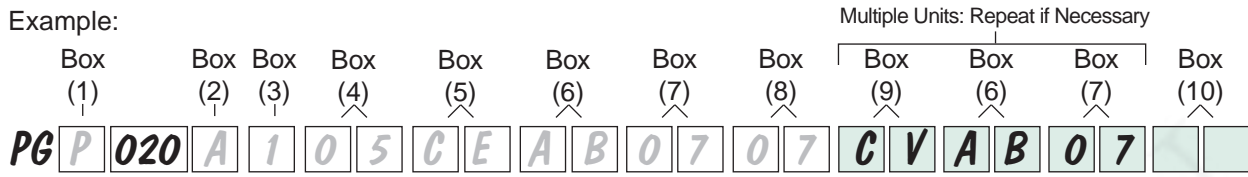
Example:



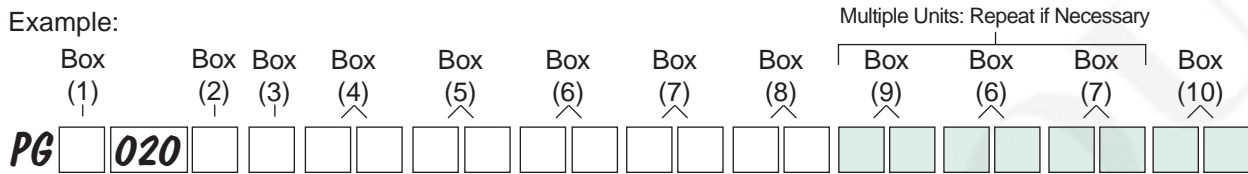
Box 9 Bearing Carrier Codes- Flow Dividers									
ROTATION FLOWPATH CW-Clockwise CCW-Cnt. Clockwise	N.P.T. PORTING PORT SIZE			SPLIT FLANGE PORTING PORT SIZE			O.D.T. PORTING PORT SIZE		
	CODE	LEFT	RIGHT	CODE	LEFT	RIGHT	CODE	LEFT	RIGHT
CD SHT RF 20-H1 	C	none	none	LB	1	none	CB	1	none
	TB	1	none	-	-	-	DB	1 ¼	none
	VB	1 ¼	none	-	-	-	FB	1 ½	none
CD SHT RF 20-H2 	D	none	none	BL	none	1	BC	none	1
	BT	none	1	-	-	-	BD	none	1 ¼
	BV	none	1 ¼	-	-	-	BF	none	1 ½
CD SHT RF 20-H4 	TX	1	¾	LR	1	¾	CJ	1	¾
	VX	1 ¼	¾	BR	none	¾	DJ	1 ¼	¾
	VZ	1 ¼	1	-	-	-	DK	1 ¼	1
	-	-	-	-	-	-	FJ	1 ½	¾
	-	-	-	-	-	-	FK	1 ½	1
CD SHT RF 20-H5 	JT	¾	1	XL	¾	1	RC	¾	1
	JV	¾	1 ¼	-	-	-	RD	¾	1 ¼
	KV	1	1 ¼	-	-	-	RF	¾	1 ½
	-	-	-	-	-	-	SD	1	1 ¼
	-	-	-	-	-	-	SF	1	1 ½
CD SHT RF 20-H6 	TJ	1	¾	LX	1	CR	1	¾	
	VJ	1 ¼	¾	-	-	DR	1 ¼	¾	
	VK	1 ¼	1	-	-	-	DS	1 ¼	1
	-	-	-	-	-	-	FR	1 ½	¾
	-	-	-	-	-	-	FS	1 ½	1
CD SHT RF 20-H7 	XT	¾	1	RB	¾	none	JC	¾	1
	XV	¾	1 ¼	RL	¾	1	JD	¾	1 ¼
	ZV	1	1 ¼	-	-	-	JP	¾	none
	-	-	-	-	-	-	JF	¾	1 ½
	-	-	-	-	-	-	KD	1	1 ¼
-	-	-	-	-	-	KF	1	1 ½	
CD SHT RF 20-H8 	ZX	1	¾	SR	1	¾	KJ	1	¾

PGP020™ How to Specify (Box 9) (Continued)

Example:



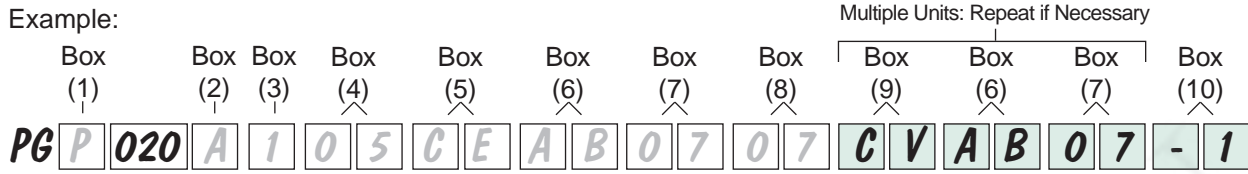
Example:



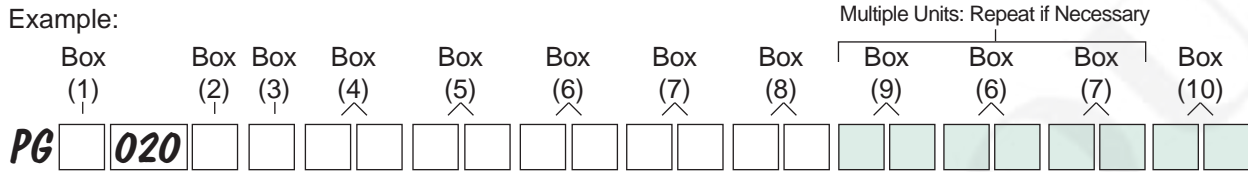
Box 9 Bearing Carrier Codes- Flow Dividers									
ROTATION FLOWPATH CW-Clockwise CCW-Cnt. Clockwise	N.P.T. PORTING PORT SIZE			SPLIT FLG. PORTING PORT SIZE			O.D.T. PORTING PORT SIZE		
	CODE	LEFT	RIGHT	CODE	LEFT	RIGHT	CODE	LEFT	RIGHT
CD SHT RF 20-H9 CCW	XZ	3/4	1	RS	3/4	1	JK	3/4	1
CD SHT RF 20-H10 CW	ZS	1	3/4	RZ	1	3/4	KX	1	3/4
CD SHT RF 20-H11 CCW	SZ	3/4	1	ZR	3/4	1	XK	3/4	1
Bearing Carrier Codes- Motors									
CD SHT RF 20-H16 DBL	B	-	-	B	-	-	B	-	-
CD SHT RF 20-H21 CW	M	1	none	J	1	none	F	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	GR	none	3/4	GJ	none	3/4
	GX	1	3/4	HR	1	3/4	HJ	1	3/4
	HZ	1 1/4	3/4	MT	none	1	MJ	1 1/4	3/4
	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

PGP020™ How to Specify (Box 9) (Continued) (See below for How to Specify Box 10)

Example:



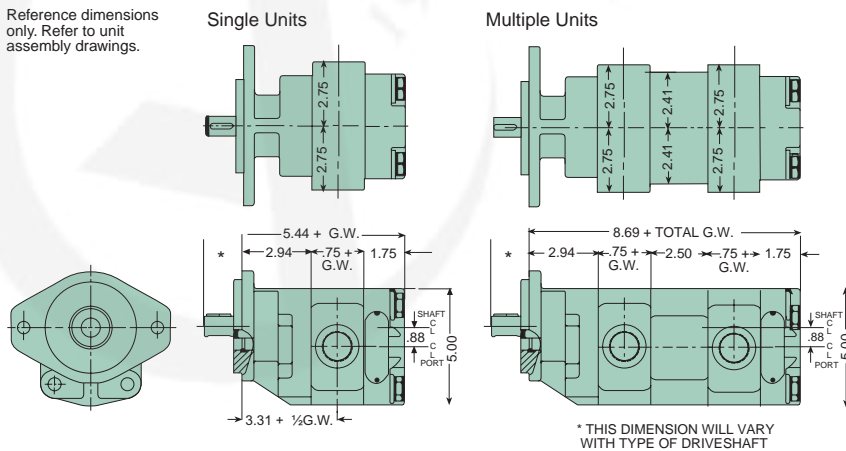
Example:



Box 9 Bearing Carrier Codes- Flow Dividers									
ROTATION FLOWPATH CW-Clockwise CCW-Cnt. Clockwise	N.P.T. PORTING PORT SIZE			SPLIT FLG. PORTING PORT SIZE			O.D.T. PORTING PORT SIZE		
	CODE	LEFT	RIGHT	CODE	LEFT	RIGHT	CODE	LEFT	RIGHT
	CD SHT RF 20-H26 	CV	none	3/4	FD	none	3/4	JH	none
	GV	1	3/4	GD	1	3/4	PH	1	3/4
	MV	1 1/4	3/4	JG	none	1	RH	1 1/4	3/4
	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	WL	1	3/4	MC	1	3/4
CD SHT RF 20-H29 	WG	1	3/4	ZL	1	3/4	SC	1	3/4

Dimensional Data (inches)

Reference dimensions only. Refer to unit assembly drawings.



PGP020™ How to Specify (Box 10) (See above for example)

Box 10 Connecting Shaft

For connecting tandem units.
-1 Connecting Shaft - Multiple Units
PL=5850