



## HOW TO ORDER

BLOCK NUMBER EXPLANATION	1	2	3	-	4	-	5	6	7	-	8	9	10	11	-	12	-	13	14	-	15	/	16
VARIABLE PUMP EXAMPLE	P	V	G	-	100	-	F1	U	V	-	L	D	F	Y	-	P	-	1NN	SN	-	NN	/	NN

- 1 = UNIT**  
P = Pump
- 2 = TYPE**  
V = Variable
- 3 = DESIGN TYPE**  
G = Type
- 4 = UNIT SIZE**  
048 = 48 ml/rev.  
065 = 65 ml/rev.  
075 = 75 ml/rev.  
100 = 100 ml/rev.  
130 = 130 ml/rev.
- 5 = DESIGN SERIES**  
F1 = Series 100/130  
B2 = Series 048/065/075
- 6 = DESIGN SERIES MODIFIER**  
U = SAE Conn. & Mounting
- 7 = SEALS**  
V = Viton (Standard)  
B = Buna-N  
P = EPR
- 8 = ROTATION**  
L = Left-hand (CCW)  
R = Right-hand (CW)
- 9 = VALVE PLATE TYPE**  
D = One-way Service;  
Side Ported (thru shaft)  
G = One-way Service;  
Side Ported  
S = One-way Service;  
Rear Ported
- 10 = CONNECTION TYPE**  
F = Flange
- 11 = SHAFT END DESIGNATOR**  
(See Table 1)
- 12 = CONTROL TYPE**  
N = None  
F = Fixed  
P = Pressure Compensating  
R = Solenoid Operated Volume  
V = Electrohydraulic  
(with feedback)

### 13 = CONTROL MODIFIER

13					
a	b	c	/	d	e

#### F CONTROL ONLY

- 075 = 75% Stroke  
100 = Full Stroke

#### P CONTROL ONLY

### 13a = PRESSURE COMPENSATOR OPTIONS

- 1 = Single Setting  
2 = Dual Setting  
A = Normally Open Proportional Device  
B = Normally Closed Proportional Device  
C = Single Pressure with Soft Starting, N.O.

### 13b = SOLENOID VOLTAGE

- N = None Required  
0 = 115/60 - 110/50 VAC  
1 = 230/60 - 220/50 VAC  
2 = 12 VDC  
3 = 24 VDC

### 13c = CONNECTOR

- N = None Required  
R = .500 NPT w/o Lite  
\*W = .500 NPT w/Lite  
S = PG-11 w/o Lite  
\*L = PG-11 w/Lite  
\*Not Available w/P-A or P-B / OMIT IF NOT REQUIRED

### 13d = CONTROL MODIFIER

- \*\*F = Load Sensing Option  
\*\*G = Horsepower Limiting with Load Sensing Option (PVG 100/130 Only)  
H = Horsepower Limiter Option (PVG 100/130 Only)  
\*\*K = Load Sense w/Minimum Standby Option  
\*\*L = Load Sense w/Horsepower and Minimum Standby Option  
\*\*Not Available with pressure compensator options 2, A, B or C

### 13e = INPUT HORSEPOWER

- @ 1800 RPM  
Example: for size 100 or 130 limited to 100 HP Input  
100 = 100 HP Input (74.6 kw)

### R CONTROL ONLY

#### 13a = TYPE

- U = Two Volume Control

#### 13b = SOLENOID VOLTAGE

- 0 = 115/60 - 110/50 VAC  
1 = 230/60 - 220/50 VAC  
2 = 12 VDC  
3 = 24 VDC

#### 13c = CONNECTOR

- R = .500 NPT w/o Lite  
W = .500 NPT w/Lite  
S = PG-11 w/o Lite  
L = PG-11 w/Lite

### V CONTROL ONLY

#### 13a = TYPE

- M = With Direct Operated Servo Valve  
S = With Servo Valve

#### 13b = SIZE

- 20 = Servo Valve Size 20 (Type M)  
25 = Servo Valve Size 25 (Type S)

### 14 = VOLUME STOPS

- NN = No Volume Stop  
SA = Minimum Volume Stop (for "V" Control Only)  
SB = Maximum and Minimum Volume Stop (for "R" Control Only)  
SN = Maximum Volume Stop (Not available for "V" Control)

OMIT THE FOLLOWING IF NOT REQUIRED

### 15 = AUXILIARY ADAPTERS

- AA = Coupling & Adapter SAE A-A (splined)  
AN = Coupling & Adapter SAE A (splined)  
BB = Coupling & Adapter SAE B-B (splined)  
BN = Coupling & Adapter SAE B (splined)  
CN = Coupling & Adapter SAE C (splined)  
CP = Cover plate (standard top & bottom ported pump)  
NN = None

### 16 = OPTIONAL GEAR PUMPS

- 05 = 0.488 cipr ( 8 ml/rev.)  
07 = 0.672 cipr (11ml/rev.)  
10 = 0.976 cipr (16 ml/rev.)  
14 = 1.403 cipr (23 ml/rev.)  
20 = 2.015 cipr (49 ml/rev.)

Table 1 Shaft End Designator

	UNIT SIZE	
	048/065/075	100/130
Y	SAE B-B Key, Full Length	SAE C-C Key, Full Length
Z	N/A	SAE C-C Key, 1" Shorter than "Y"
S	SAE B-B Spline, Loose Fit	SAE C-C Spline, Loose Fit
K	SAE B Spline, Loose Fit	SAE C Spline, Loose Fit
B	SAE C Key	N/A
R	SAE C Spline, Loose Fit	SAE D Spline, Loose Fit

\* Subject to change without notice.