

Ordering Guide

Code Structure

The alpha-numeric ordering code system enables any particular type of pump to be specified. Preferred type are also identified by a 10-digit part number for computerized ordering.

Item No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Pump 1	0513	R	18	C	3	V	P	V	32	S	M	21	F	Z	B02
Pump 2***						V	P	V	32	S	M	21	F	Z	B02
Pump 3 (Gear Pump)						HY/Z	F	S11/	14	R	254				

Item No	Code	
1		Code Digit
	0513	Vane Pump, stand alone version single pump or combination
2		Direction of Rotation
	R	Clockwise, viewed from shaft end
3		Speed
	12	maximum speed; e.g. 1150 rpm = 12
	15	1450 rpm = 15
	18	1750 rpm = 18
4		Drive Shaft
	A	Key to DIN 6885
	C	Key to SAE Standard
	D	Spline to SAE 744C
5		Bearing Arrangement / Mounting Flange
	3	Standard bearing arrangement, mounting flange to SAE standards
	7	Standard bearing arrangement, mounting flange to DIN ISO 3019/2
6		Principle of Operation
	V	Vane Type
7		Mode of Operation
	P	Pump
8		Type of Construction
	V	Variable displacement pump (open circuit)
	K	Fixed Displacement Pump (available in 1998)
9		Displacement
	16	16 cc/rev = .98 cu in/rev
	25	25 cc/rev = 1.53 cu in/rev
	32	32 cc/rev = 1.95 cu in/rev
	45	45 cc/rev = 2.75 cu in/rev
	63	63 cc/rev = 3.84 cu in/rev
	80	80 cc/rev = 4.88 cu in/rev
	100	100 cc/rev = 6.10 cu in/rev
	130	130 cc/rev = 7.93 cu in/rev
	164	164 cc/rev = 10.00 cu in/rev

*** When trailing pump is another VPV pump, it can be coded by selecting items 6 through 15 for the alpha-numeric description. Consult factory for other models and descriptions of trailing pumps.

Price and Part Numbers

See VPV Pump Identification Guide, Publication # 9 535 233 782 for SAE, and 9 535 233 785 for metric pumps.

Product Literature Disclaimer

Specifications and/or dimensions are subject to change without prior notice. Please consult factory.

Ordering Guide, cont.

Item No	Code		
10		Housing	
	S	210 bar = 3000 psi.	
11		Operating Fluid	
	C	Water glycol	
	M	Mineral Oil	
	D	Phosphate ester	
12		Operating Pressure	
	14	Maximum operating pressure; e.g. 14 = 140 bar = 2000 psi	
	21	21 = 210 bar = 3000 psi	
13		Control / Regulator	
	F	Pressure regulator - single stage 16/25/32cc only	
	G	Pressure regulator - single stage - lockable 16/25/32cc only	
	H	Pressure regulator - two stage - with remote option	
	J	Combined pressure/flow compensator (load sense)	
	S	Torque limiter (available in 45 to 164cc pumps only)	
	T	Proportional P/Q (available 1998)	
			Solenoid Operated Two Press. Norm. (Normally open)/Normally Low Pressure/Energize to High
		XA	115V N.O. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		XB	220V N.O. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		XC	12V N.O. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		XD	24V N.O. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		XE	115V N.O. w/flying leads
		XF	220V N.O. w/flying leads
		XG	12V N.O. w/flying leads
		XH	24V N.O. w/flying leads
		XJ	115V N.O. w/DIN 43650 & NG6
		XK	220V N.O. w/DIN 43650 & NG6
		XL	12V N.O. w/DIN 43650 & NG6
		XM	24V N.O. w/DIN 43650 & NG6
		XN	115V N.O. w/flying leads & NG6
		XO	220V N.O. w/flying leads & NG6
		XP	12V N.O. w/flying leads & NG6
		XR	24V N.O. w/flying leads & NG6
			Solenoid Operated Two Press. Norm. (Normally closed)/Normally High Pressure/Energize to Low
		YA	115V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		YB	220V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		YC	12V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		YD	24V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
		YE	115V N.C. w/flying leads
		YF	220V N.C. w/flying leads
		YG	12V N.C. w/flying leads
		YH	24V N.C. w/flying leads
	YJ	115V N.C. w/DIN 43650 & NG6	
	YK	220V N.C. w/DIN 43650 & NG6	
	YL	12V N.C. w/DIN 43650 & NG6	
	YM	24V N.C. w/DIN 43650 & NG6	
	YN	115V N.C. w/flying leads & NG6	
	YO	220V N.C. w/flying leads & NG6	
	YP	12V N.C. w/flying leads & NG6	
	YR	24V N.C. w/flying leads & NG6	

Ordering Guide, cont.

Item No	Code	
13		Solenoid Operated Vent Two Press. Norm. (Normally vented)/Energize to Pressure
(cont.)	ZA	115V N.V. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	ZB	220V N.V. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	ZC	12V N.V. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	ZD	24V N.V. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	ZE	115V N.V. w/flying leads
	ZF	220V N.V. w/flying leads
	ZG	12V N.V. w/flying leads
	ZH	24V N.V. w/flying leads
		Solenoid Operated Vented Norm. High (Normally closed)/Normally at Pressure/Energize to Vent
	WA	115V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	WB	220V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	WC	12V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	WD	24V N.C. w/DIN 43650 & quick connect (compression fitting) w/sentinel light
	WE	115V N.C. w/flying leads
	WF	220V N.C. w/flying leads
	WG	12V N.C. w/flying leads
	WH	24V N.C. w/flying leads
14		Accessories
	S	Special (Consult Factory)
	Y	Maximum delivery limiter
	Z	No other accessories
15	B01	Design Series
	P1	Pump 1 of a quick combination unit (adapter kit & coupling required to create a combination-see page 81)

Gear Pump Guide

Item No	Code	
6		Principle of Operation
	HY/Z	Hydraulic Gear Pump
7		Size Range
	F	4 cc to 22.5cc
8		Type of Construction
	S11	Standard version
	S21	Duo (low noise version)
9		Displacement
	4	4 cc/rev = .244 cu in/rev
	5.5	5.5 cc/rev = .335 cu in/rev
	8	8 cc/rev = .488 cu in/rev
	11	11 cc/rev = .671 cu in/rev
	14	14 cc/rev = .854 cu in/rev
	16	16 cc/rev = .976 cu in/rev
	19	19 cc/rev = 1.159 cu in/rev
	22.5	22.5 cc/rev = 1.372 cu in/rev
10		Direction of Rotation
	R	Right hand (clockwise)
11		Details
	254	SAE "A" flange, 2 bolt, SAE keyed shaft
	253	SAE "A" flange, 2 bolt, ANSI spline shaft, 9 T, 16/32 pitch