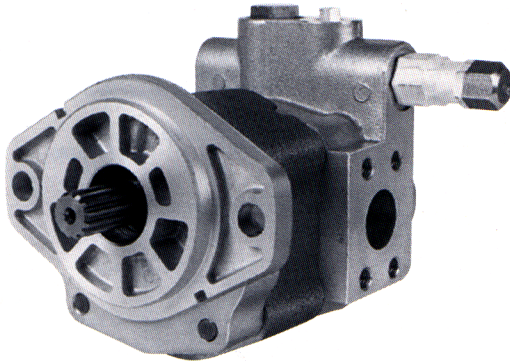


Model PVP16



Description Priority Valve Gear Pumps
 Pump Flow Range To 38 GPM (143,8 LTR.)
 Priority Flow Range . . 2 to 10 GPM Standard (7,6 to 37,8 LTR.)
 Displacements To 3.904 C.I.R. (63.94 CC's/REV.)
 Maximum Pressure to 3000 PSI (207 BAR)
 Maximum Speed to 3600 RPM
 Rotation A or C
 Bearings Journal
 Construction Cast Iron Gear Plate with
 Aluminum Flange and Cover (Valve) Plate

Performance Data

PUMP MODEL	SECTION SIZE	DISPLACEMENT/REVOLUTION (Theoretical)					MAXIMUM PRESSURE		MAXIMUM SPEED
		US Gallons	Cubic Inches	Liters	Cubic Centimeters	Imperial Gallons	PSI	BAR	RPM
PVP16	45	.0038	.878	.0144	14.388	.0031	3000	207	3600
PVP16	65	.0055	1.270	.0208	20.812	.0045	3000	207	3600
PVP16	85	.0072	1.663	.0273	27.252	.0060	3000	207	3400
PVP16	100	.0085	1.964	.0321	32.184	.0070	3000	207	3300
PVP16	115	.0097	2.241	.0367	36.723	.0080	3000	207	3100
PVP16	150	.0127	2.934	.0481	48.080	.0105	3000	207	2800
PVP16	180	.0152	3.511	.0575	57.535	.0125	2200	152	2500
PVP16	200	.0169	3.904	.0639	63.942	.0140	2000	138	2500

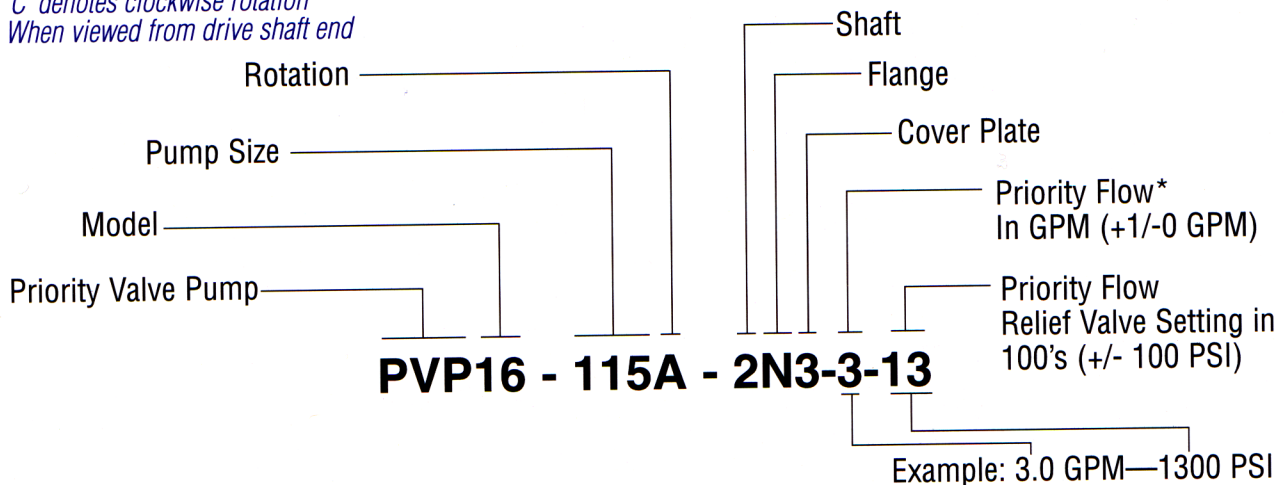
All data based on SAE 10W oil at 150°F.
 Available with Viton Seals for use with phosphate ester base fluids.

CAUTION: "Inlet vacuum" should not exceed 5" Hg at normal operating speed and temperature.
 Operation of pumps in excess of 5" Hg requires factory approval.

When sizing pumps, refer to the performance charts in the back of the catalog to determine the volumetric efficiency and input horsepower requirements.

How To Order

'A' denotes counterclockwise rotation
 'C' denotes clockwise rotation
 When viewed from drive shaft end



*Consult factory for priority flows over 10 GPM.
 Note: Add prefix 'V' to pump model number (VP16) when ordering pumps with Viton Seals for use with phosphate ester base fluids.

Shafts Available

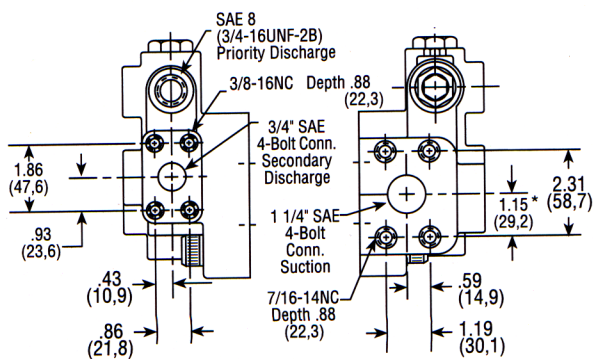
<p>2 7/8" Dia. 13 Tooth Spline Flat Root Side Fit Torque limit 184 Lbs. Ft. (249,4 Nm)</p> <p>Spline Data Diametral Pitch 16/32 Pressure Angle 30° No. Of Teeth 13</p>	<p>5 7/8" Straight Shaft Torque limit 184 Lbs. Ft. (249,4 Nm)</p>	<p>6 3/4" Straight Shaft Torque limit 105 Lbs. Ft. (142,3 Nm)</p> <p>CAUTION: Due to shaft torque limitations. Consult the Factory for approval before applying this shaft in models of -115 size and larger pumps.</p>
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Mounting Flanges Available

<p>D SAE 'A' 2-Bolt</p>	<p>E 6-Bolt Round Available with No. 2 or 5 Shaft Only</p>	<p>F Pad Mount</p>
<p>G SAE 'C' 4-Bolt Available for No. 2 or 5 Shaft Only</p>	<p>N SAE 'B' 2-Bolt</p>	<p>S P.T.O. Direct Mount Available with No. 2 Shaft Only</p>

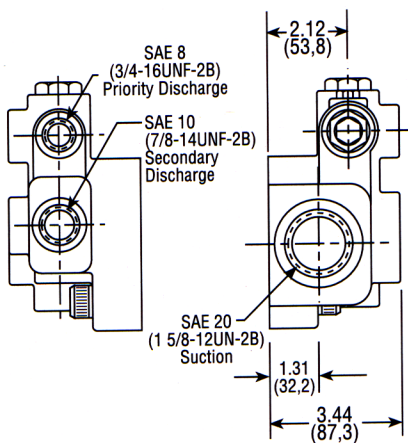
Cover Plates Available

3 Side Ported SAE 4-Bolt

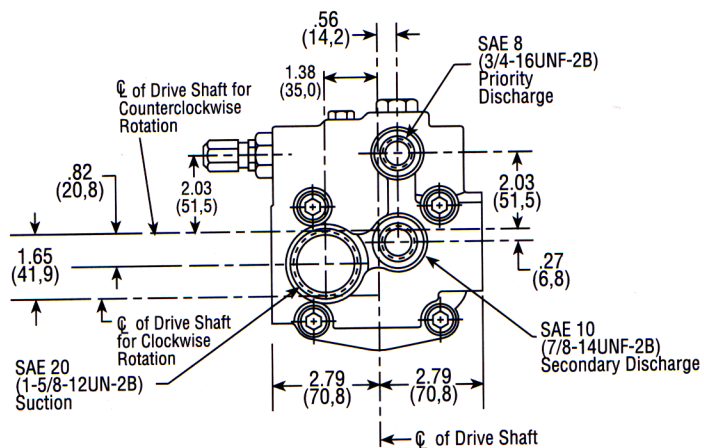


SAE 4-Bolt NPT Connectors Are Available. See Accessory Section

5 Side Ported Straight Thread



6 Rear Ported Straight Thread



*These dimensions locate ϕ of bolt pattern only.

Dimensional Data

Mounting Dimensions

PUMP MODELS	FLANGE TYPE									SHIPPING WEIGHTS (Approx.)	
	D			E & J			F			lbs.	kgs.
	A	B	C	A	B	C	A	B	C		
PVP16 - 45	3.79 (96,2)	4.60 (116,8)	5.92 (150,3)	4.92 (124,9)	5.73 (145,5)	7.05 (179,0)	3.92 (99,5)	4.73 (120,1)	6.05 (153,6)	13	5.9
PVP16 - 65	4.00 (101,6)	4.81 (122,1)	6.13 (155,7)	5.13 (130,3)	5.94 (150,8)	7.26 (184,4)	4.13 (104,9)	4.94 (125,4)	6.26 (159,0)	14	6.4
PVP16 - 85	4.22 (107,1)	5.03 (127,7)	6.35 (161,2)	5.35 (135,8)	6.16 (156,4)	7.48 (189,9)	4.35 (110,4)	5.16 (131,0)	6.48 (164,5)	15	6.8
PVP16 - 100	4.38 (111,2)	5.19 (131,8)	6.51 (165,3)	5.51 (139,9)	6.32 (160,5)	7.64 (194,0)	4.51 (114,5)	5.32 (135,1)	6.64 (168,6)	16	7.3
PVP16 - 115	4.54 (115,3)	5.35 (135,8)	6.67 (169,4)	5.67 (144,0)	6.48 (164,5)	7.80 (198,1)	4.67 (118,6)	5.48 (139,1)	6.80 (172,7)	17	7.7
PVP16 - 150	4.91 (124,7)	5.72 (145,2)	7.04 (178,8)	6.04 (153,4)	6.85 (173,9)	8.17 (207,5)	5.04 (128,0)	5.85 (148,5)	7.17 (182,1)	18	8.2
PVP16 - 180	5.23 (132,8)	6.04 (153,4)	7.36 (186,9)	6.36 (161,5)	7.17 (182,1)	8.49 (215,6)	5.36 (136,1)	6.17 (156,7)	7.49 (190,2)	20	9.1
PVP16 - 200	5.44 (138,1)	6.25 (158,7)	7.57 (192,2)	6.57 (166,8)	7.38 (187,4)	8.70 (220,9)	5.57 (144,4)	6.38 (162,0)	7.70 (195,5)	21	9.5

Mounting Dimensions

PUMP MODELS	FLANGE TYPE						SHIPPING WEIGHTS (Approx.)	
	N			S			lbs.	kgs.
	A	B	C	A	B	C		
PVP16 - 45	3.67 (93,2)	4.48 (113,7)	5.80 (147,3)	5.48 (139,1)	6.29 (159,7)	7.61 (193,2)	13	5.9
PVP16 - 65	3.88 (98,5)	4.69 (119,1)	6.01 (152,6)	5.69 (144,5)	6.50 (165,1)	7.82 (198,6)	14	6.4
PVP16 - 85	4.10 (104,1)	4.91 (124,7)	6.23 (158,2)	5.91 (150,1)	6.72 (170,6)	8.04 (204,2)	15	6.8
PVP16 - 100	4.26 (108,2)	5.07 (128,7)	6.39 (162,3)	6.07 (154,1)	6.88 (174,7)	8.20 (208,2)	16	7.3
PVP16 - 115	4.42 (112,2)	5.23 (132,8)	6.55 (166,3)	6.23 (158,2)	7.04 (178,8)	8.36 (212,3)	17	7.7
PVP16 - 150	4.79 (121,6)	5.60 (142,2)	6.92 (175,7)	6.60 (167,6)	7.41 (188,2)	8.73 (221,7)	18	8.2
PVP16 - 180	5.11 (129,7)	5.92 (150,3)	7.24 (183,8)	6.92 (175,7)	7.73 (196,3)	9.05 (229,8)	20	9.1
PVP16 - 200	5.32 (135,1)	6.13 (155,7)	7.45 (189,2)	7.13 (181,1)	7.94 (201,6)	9.26 (235,2)	21	9.5

Priority Flow

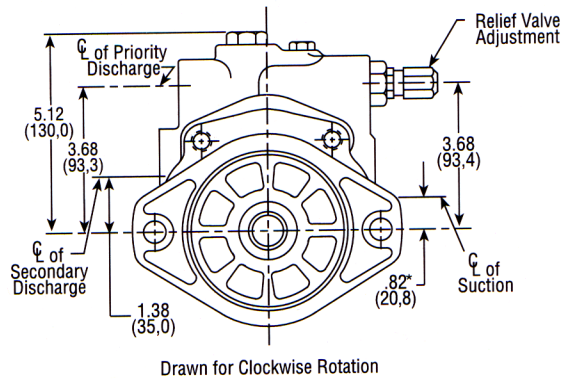
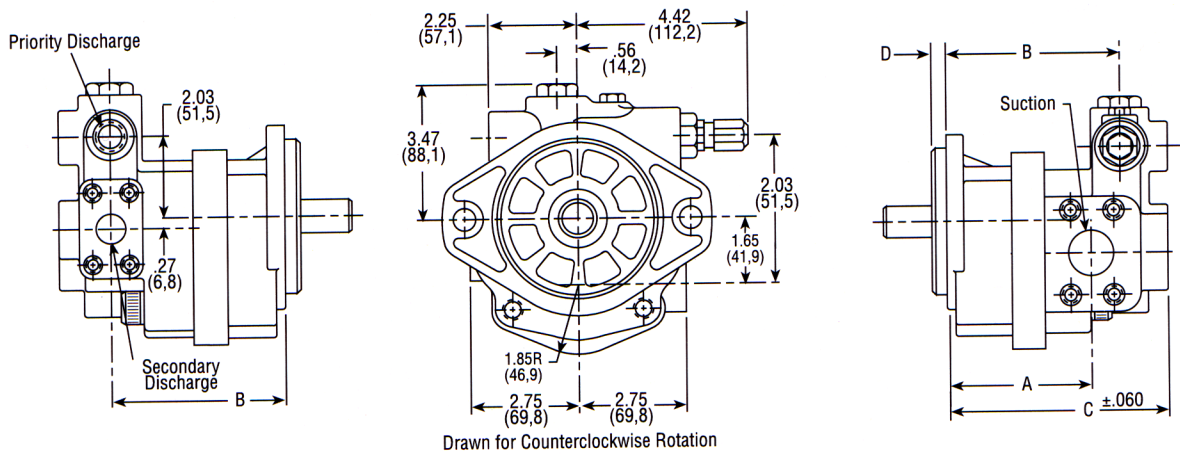
CAT. NO 2	CAT. NO 3	CAT. NO 4	CAT. NO 5	CAT. NO 6	CAT. NO 7	CAT. NO 8	CAT. NO 9
2 to 3 GPM	3 to 4 GPM	4 to 5 GPM	5 to 6 GPM	6 to 7 GPM	7 to 8 GPM	8 to 9 GPM	9 to 10 GPM
7.6 to 11.4 LPM	11.4 to 15.1 LPM	15.1 to 18.9 LPM	18.9 to 22.7 LPM	22.7 to 26.5 LPM	26.5 to 30.3 LPM	30.3 to 34.0 LPM	34.0 to 37.8 LPM

D Dimensions

FLANGE TYPE		
D	.250	(6,3)
E	.187	(4,7)
F		
J	.250	(6,3)
N	.375	(9,5)
S	.250	(6,3)



Dimensional Data



* These dimensions locate C of bolt pattern only.