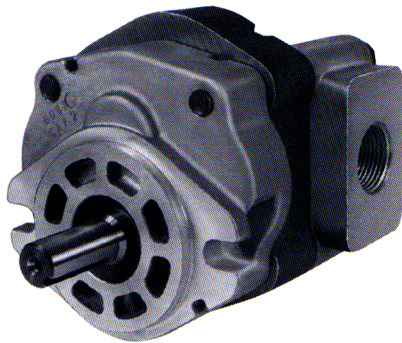


Model P16



Description Gear Pumps
 Flow Range TO 38 GPM (143.8 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 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
P16	45	.0038	.878	.0144	14.388	.0031	3000	207	3600
P16	65	.0055	1.270	.0208	20.812	.0045	3000	207	3600
P16	85	.0072	1.663	.0273	27.252	.0059	3000	207	3400
P16	100	.0085	1.964	.0321	32.184	.0070	3000	207	3300
P16	115	.0097	2.241	.0367	36.723	.0080	3000	207	3100
P16	150	.0127	2.934	.0481	48.080	.0105	3000	207	2800
P16	180	.0152	3.511	.0575	57.535	.0126	2200	152	2500
P16	200	.0169	3.902	.0639	63.942	.0140	2000	138	2200

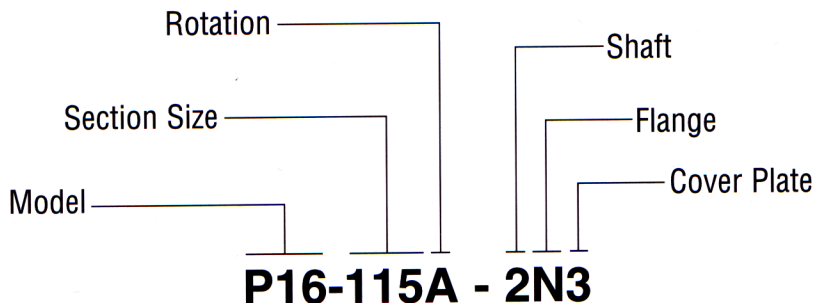
All data based on SAE 10W oil at 150°F.
 Available with Viton Seals for use with phosphate ester base fluids.

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.

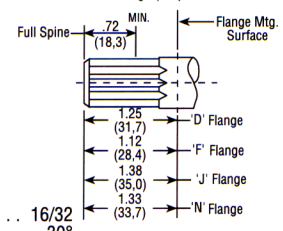
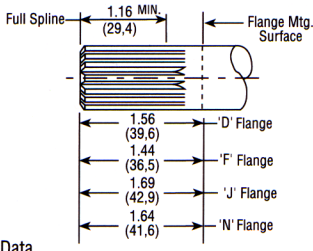
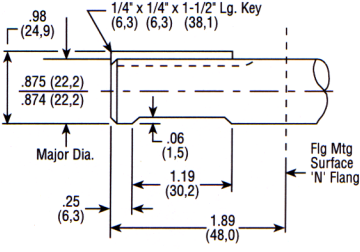
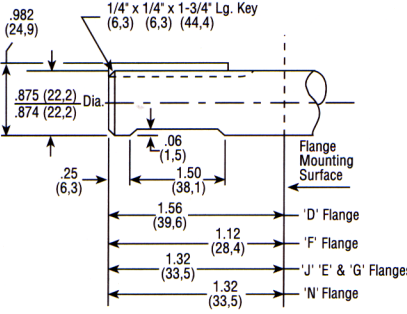
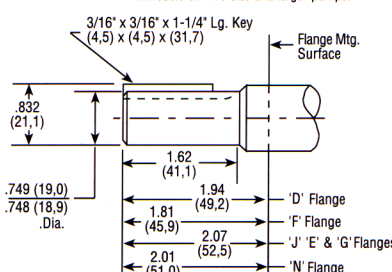
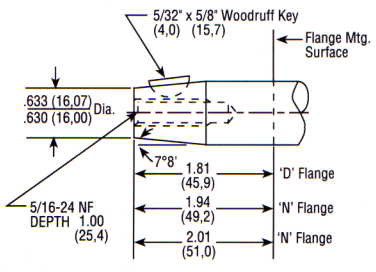
How To Order

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

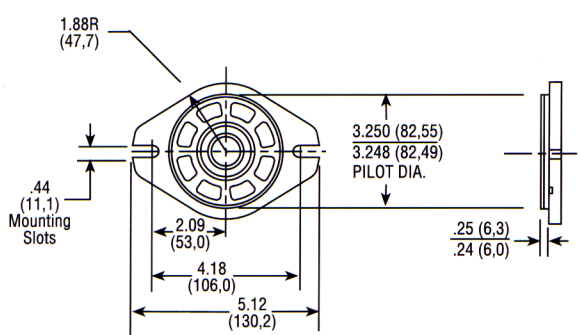
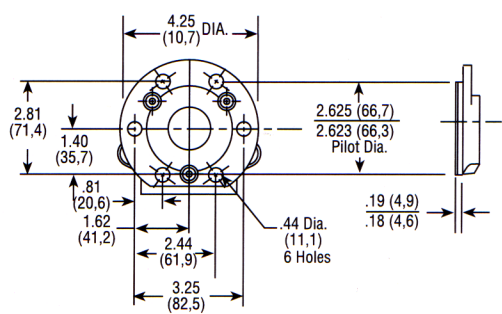
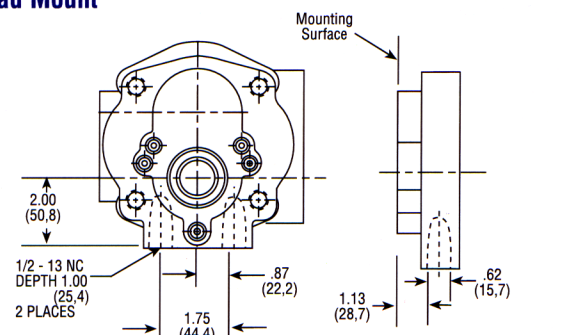
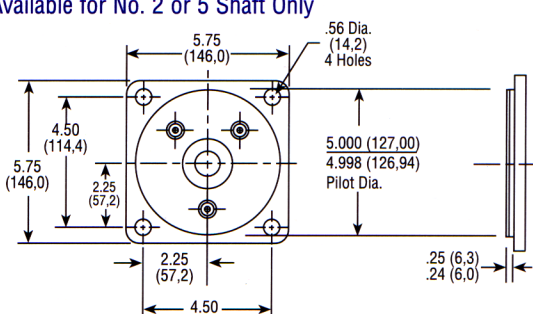


Note: Add prefix 'V' to pump model number (VP16-) when ordering pumps with Viton Seals for use with phosphate ester base fluids.

Shafts Available

<p>1 5/8" Dia. 9 Tooth Spline Flat Root Side Fit Torque Limit 52 Lbs. Ft. (70,5 Nm) Available with 'D' 'F' & 'N' Flanges only</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>  <p>Spline Data Diametral Pitch . . . 16/32 Pressure Angle 30° No. Of Teeth 9</p>	<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>3 7/8" Straight Shaft for Piggy-Back Torque Limit 184 Lbs. Ft. (249,4 Nm) Available with 'N' Flange Only</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> 	<p>9 7/8" Tapered Shaft Torque Limit 184 Lbs. Ft. (249,4 Nm)</p> 

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> 

Mounting Flanges Available, Continued

<p>J SAE 'B' 4-Bolt Available with No. 2 or 5 Shaft Only (Typ.)</p>	<p>N SAE 'B' 2-Bolt</p>
<p>S P.T.O. Direct Mount Available with No. 2 Shaft Only</p>	<p>T P.T.O. Direct Mount T19C Trans Available with No. 2 Shaft Only</p>

Cover Plates Available

<p>1 Rear Ported Straight Thread</p>	<p>2 Rear Ported NPT</p> <p>7 Rear Ported BSPT</p>	<p>3 Side Ported SAE 4-Bolt</p> <p>* Metric Threads are available – Consult factory SAE 4-Bolt NPT Connectors Are Available. See Accessory Section</p>
<p>4 Side Ported NPT</p> <p>8 Side Ported BSPT</p>	<p>5 Side Ported Straight Thread SAE 12 Discharge</p> <p>9 Side Ported Straight Thread SAE 16 Discharge</p>	<p>6 Rear Ported Straight Thread</p>

CAUTION See "General Product & Safety Information" on inside front cover of this catalog **WARNING**

*Suction Port Adaptor Fitting to Reduce SAE 20 to SAE 16 (1-5/16-12UN-2B) Order Kit 15369

Dimensional Data

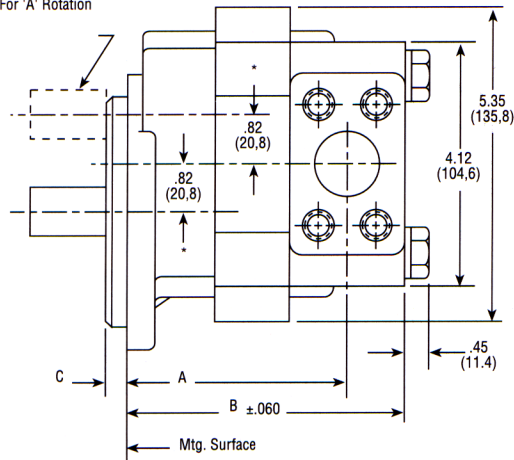
Mounting Dimensions

PUMP MODELS	FLANGE TYPE						SHIPPING WEIGHTS (Approx.)	
	D		E		F		lbs.	kgs.
	A	B	A	B	A	B		
P16 - 45	3.54 (89,9)	4.55 (115,6)	4.66 (118,4)	5.67 (144,1)	3.66 (92,9)	4.67 (118,6)	12	5.5
P16 - 65	3.75 (95,3)	4.77 (121,2)	4.88 (123,6)	5.89 (149,6)	3.88 (98,6)	4.89 (124,2)	13	5.9
P16 - 85	3.97 (100,9)	4.98 (126,5)	5.09 (129,3)	6.10 (154,9)	4.09 (103,6)	5.10 (129,5)	14	6.4
P16 - 100	4.13 (104,9)	5.14 (130,6)	5.25 (133,3)	6.26 (159,0)	4.25 (107,9)	5.26 (133,6)	15	6.8
P16 - 115	4.29 (108,9)	5.30 (134,6)	5.41 (137,4)	6.42 (163,1)	4.41 (112,0)	5.42 (137,7)	16	7.3
P16 - 150	4.66 (118,4)	5.67 (144,1)	5.78 (146,8)	6.79 (172,5)	4.78 (121,4)	5.79 (147,1)	17	7.7
P16 - 180	4.98 (126,5)	5.99 (152,2)	6.10 (154,9)	7.11 (180,6)	5.10 (129,5)	6.11 (155,2)	19	8.6
P16 - 200	5.19 (131,8)	6.20 (157,5)	6.31 (160,3)	7.32 (185,9)	5.31 (134,9)	6.32 (160,5)	20	9.1

Mounting Dimensions

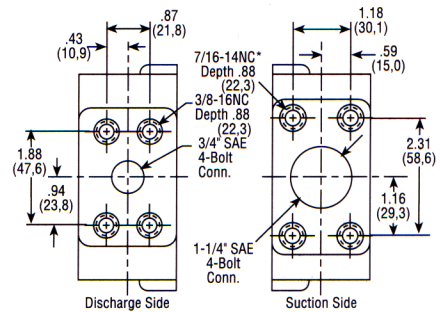
PUMP MODELS	FLANGE TYPE						SHIPPING WEIGHTS (Approx.)	
	G & J		N		S & T		lbs.	kgs.
	A	B	A	B	A	B		
P16 - 45	4.66 (118,4)	5.67 (144,1)	3.47 (88,1)	4.48 (113,8)	5.22 (132,6)	6.23 (158,2)	12	5.5
P16 - 65	4.88 (123,6)	5.89 (149,6)	3.69 (93,7)	4.70 (119,4)	5.44 (138,2)	6.45 (163,8)	13	5.9
P16 - 85	5.09 (129,3)	6.10 (154,9)	3.90 (99,1)	4.91 (124,7)	5.65 (143,5)	6.66 (169,2)	14	6.4
P16 - 100	5.25 (133,3)	6.26 (159,0)	4.06 (103,1)	5.07 (128,8)	5.81 (147,6)	6.82 (173,2)	15	6.8
P16 - 115	5.41 (137,4)	6.42 (163,1)	4.22 (107,2)	5.23 (132,8)	5.97 (151,6)	6.98 (177,3)	16	7.3
P16 - 150	5.78 (146,8)	6.79 (172,5)	4.59 (116,6)	5.60 (142,2)	6.34 (161,0)	7.35 (186,7)	17	7.7
P16 - 180	6.10 (154,9)	7.11 (180,6)	4.91 (124,7)	5.92 (150,4)	6.66 (169,2)	7.67 (194,8)	19	8.6
P16 - 200	6.31 (160,3)	7.32 (185,9)	5.12 (130,1)	6.13 (155,7)	6.87 (174,5)	7.88 (200,1)	20	9.1

Shaft Location For 'A' Rotation



C Dimensions

FLANGE TYPE	IN	MM
D	.250	(6,35)
E	.187	(4,74)
F	—	—
G	.250	(6,35)
J	.250	(6,35)
N	.375	(9,52)
S	.200	(5,08)
T	.200	(5,08)



*These dimensions locate C of bolt pattern only.