

Model FPR16



Description Cast Iron Gear Pump
 Flow Range 42.2 GPM (159.7 LTR.)
 Displacements 3.902 C.I.R. (63.94 CC's/REV.)
 Maximum Pressure to 3000 PSI (207 BAR)
 Maximum Speed to 3600 RPM
 Rotation Bi-Rotational
 Bearings Journal
 Construction All Cast Iron Construction

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
FPR16	45	.0038	.878	.014	14.388	.0031	3000	207	3600
FPR16	65	.0055	1.270	.021	20.812	.0045	3000	207	3600
FPR16	85	.0072	1.663	.027	27.252	.0059	3000	207	3400
FPR16	100	.0085	1.964	.032	32.184	.0070	3000	207	3300
FPR16	115	.0097	2.241	.037	36.723	.0080	3000	207	3100
FPR16	150	.0127	2.934	.048	48.080	.0105	3000	207	2800
FPR16	180	.0152	3.511	.058	57.535	.0126	3000	207	2500
FPR16	200	.0169	3.902	.064	63.942	.0140	2700*	186*	2500

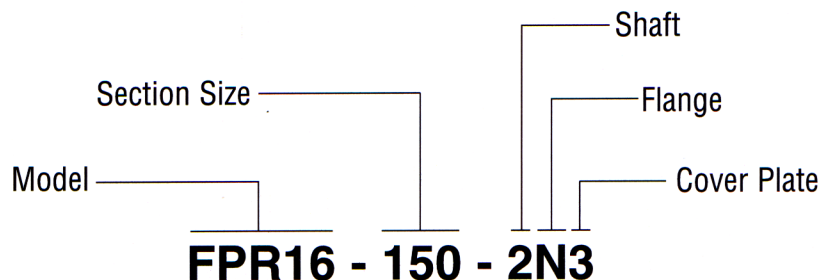
*For higher pressures, consult factory for approval.

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

Bi-rotational



Note: Add prefix 'V' to pump model number (VFPR16) when ordering pumps with Viton Seals for use with phosphate ester base fluids.

Shafts Available

<p>1 5/8" 9 Tooth Spline Torque Limit 52 Lbs. Ft. (70,5 Nm)</p> <p>CAUTION: Due to shaft torque limitations, Consult the Factory for approval before applying this shaft in models of -85 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>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>7 1" Dia. 15 Tooth Spline Flat Root Side Fit Torque Limit 341 Lbs. Ft. (462,3 Nm)</p> <p>Spline Data Diametral Pitch 16/32 Pressure Angle 30° No. Of Teeth 15</p>	<p>8 1" Straight Shaft Torque Limit 341 Lbs. Ft. (462,3 Nm)</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>N SAE 'B' 2 & 4-Bolt</p>
<p>P Pad Mount</p>	<p>S P.T.O. Direct Mount Available with No. 2 Shaft Only</p>

Cover Plates Available

<p>1 Rear Ported Straight Thread</p>	<p>2 Rear Ported 1" NPT</p> <p>8 Rear Ported 1-1/4" NPT</p>	<p>3 Side Ported 1-1/4" 4-Bolt</p> <p>SAE 4-Bolt NPT Connectors Are Available. See Accessory Section</p>
<p>4 Side and Rear Ported NPT Furnished with Two Pipe Plugs</p>	<p>5 Side Ported Straight Thread</p>	
<p>6 Side and Rear Ported Straight Thread Furnished with Two SAE Plugs</p>		

* These dimensions locate ϕ of bolt pattern only.

Dimensional Data

Mounting Dimensions

PUMP MODEL	FOR 'P, D & N FLGS.		FOR S FLG. ONLY	
	A	B	A	B
FPR16-45	4.77 (121,2)	7.40 (188,0)	5.89 (149,6)	8.52 (216,4)
FPR16-65	4.98 (126,5)	7.61 (193,3)	6.10 (154,9)	8.73 (221,7)
FPR16-85	5.20 (132,1)	7.83 (198,9)	6.32 (160,5)	8.95 (227,3)
FPR16-100	5.36 (136,1)	7.99 (202,9)	6.48 (164,6)	9.11 (231,4)
FPR16-115	5.52 (140,2)	8.15 (207,0)	6.64 (168,7)	9.27 (235,5)
FPR16-150	5.82 (147,8)	8.52 (216,4)	7.01 (178,0)	9.64 (244,9)
FPR16-180	6.21 (157,7)	8.84 (224,5)	7.33 (186,1)	9.96 (253,0)
FPR16-200	6.42 (163,1)	9.05 (229,9)	7.54 (191,5)	10.17 (258,3)

