



The HPVR series of inline axial piston variable displacement pumps, are available in five displacements and three compact frame sizes. These pumps feature medium-high working pressure capabilities that will meet most applications. The output flow and pressure is controlled by a variety of control options, and can easily work in conjunction with external control components making them the perfect choice for almost any application. The HPVR series pumps are available in both SAE and ISO mounting 2 bolt patterns. Porting is available in rear and side locations as well as thru-drive configurations.

TYPICAL PERFORMANCE SPECIFICATIONS				
VOLUMETRIC		cu. In./rev.	0.88	
DISPLACEMENT		ml/rev.	14.4	
PUMP DELIVERY	Theoretical	GPM	6.67	
@ 1750 RPM	meoretical	LPM	25.2	
	Intermittent*	PSI	4500	
		BAR	310	
OPERATING	Continuous	PSI	4000	
PRESSURES		BAR	276	
	Minimum**	PSI	200	
		BAR	14	
OPERATING	Maximum RPM		See Below	
SPEEDS		Rated RPM	1750	
JF LLDJ	Minimum RPM 500			
INPUT POWE	HP	18		
(Rated Flow a	Kw	13.4		
CASE DRAIN FLOW @		GPM	0.3	
Deadhead & Rated Pressure		LPM	1.1	
MOUNTING FLANGE		SAE Type	A 2 Bolt	
	Keyed Shaft SAE J744 A		0.75	
DRIVE SHAFT	Spline Shaft SAE B		.8125	
	Spine		13 TOOTH	
SHIPPING	REAR PORTS	lbs	27	
		kg	12.4	
WEIGHTS	SIDE PORTS	lbs	35	
* This was seen as		kg	15.9	

* This pressure should not exceed 10% of the duty cycle and not exceed 6 consecutive seconds.

** Pumps operating at less than 150 PSI (10 Bar) may overheat and shorten pump life.

CASE AND INLET PORT SPECIFICATIONS

SPEED	Minimum Inlet Pressure			Maximum				
JFLLD	Pressure Gauge		Absolute Pressure		Case Pressure			
rpm	psi	bar	inHg	mm-Hg	psi	bar	psi	bar
1800	-3	-0.21	-6.12	-155.46	11.7	0.81	10	0.69
2050	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2100	-3	-0.21	-6.12	-155.46	11.7	0.81	5	0.34
2750	-2.53	-0.17	-4.79	-121.67	12.35	0.8	5	0.34
2900	-0.96	-0.07	-1.97	-49.94	13.74	0.9	5	0.34
3000	0.00	0.00	0.00	0.00	14.7	1.01	5	0.34

PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar
Volume	Flow Change / Turn	0.7 GPM	2.6 LPM
Adjustment	Maximum Torque	28 inIbs	3.2 Nm



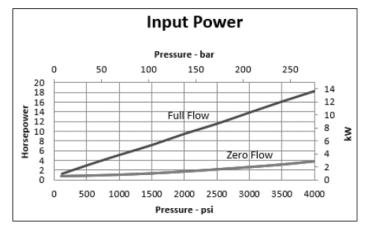
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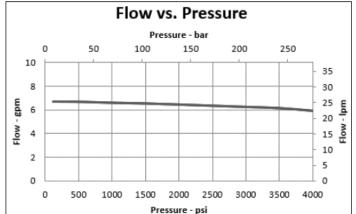
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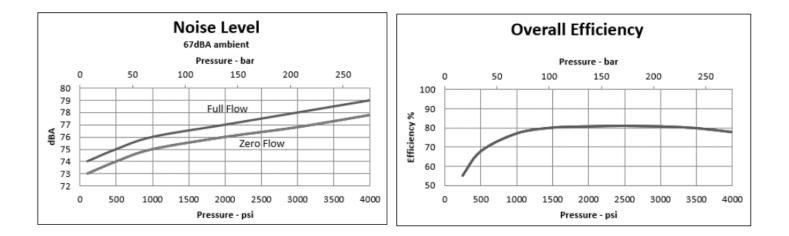
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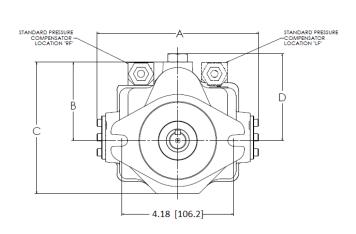


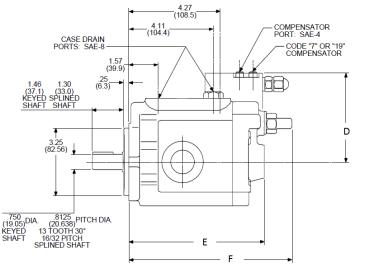
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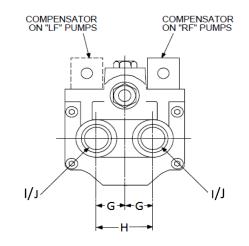


Rear Port Dimension Data





Dimensional Reference Data	Inch (mm)	
Α	6.29 (159.8)	
В	3.09 (78.49)	
С	5.24 (133.1)	
D (STD Pressure Compensator)	3.43 (87.12)	
D (Code 7 Remote & Code 19 Load Sense)	5.06 (128.5)	
E	6.40 (162.5)	
F	7.76 (197.1)	



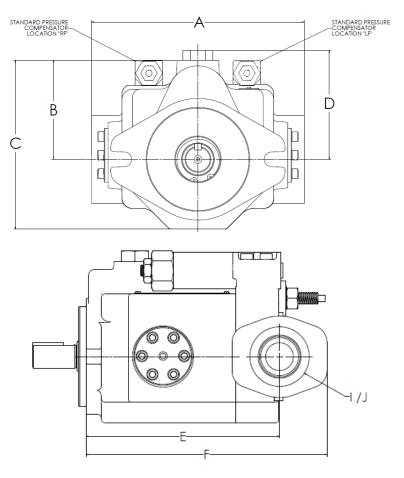
Dimensional Reference Data	Inch (mm)	
G	1.13 (28.7)	
Н	2.26 (57.4)	
I/J Code 1R - Rear SAE Porting	SAE-12	
I/J Code 2R- Rear BSPP Porting	3/4 BSPP	

NOTE: I = Inlet Port, J = Outlet Port





Side Port Dimension Data



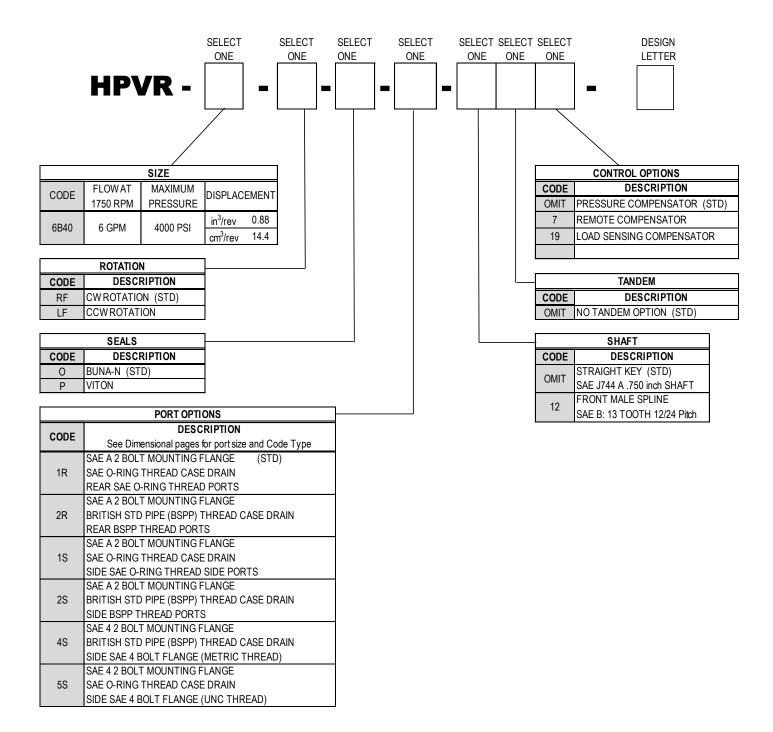
Dimensional Reference Data	Inch (mm)	
А	6.29 (159.8)	
В	3.09 (78.49)	
С	5.24 (133.1)	
D (STD Pressure Compensator)	3.43 (87.12)	
D (Code 7 Remote & Code 19 Load Sense)	5.06 (128.5)	
E	6.29 (159.8)	
F	7.83 (198.9	
I Code 1S - Side SAE Porting	SAE-16	
I Code 2s- Side BSPP Porting	1" BSPP	
J Code 1S - Side SAE Porting	SAE-12	
J Code 2s- Side BSPP Porting	3/4" BSPP	
I Code 4S - 4 bolt Flange Metric thd.	1" S.F.	
I Code 5S - 4 bolt Flange UNC thd.	1" S.F.	
J Code 4S - 4 bolt Flange Metric thd.	3/4" S.F.	
J Code 5S - 4 bolt Flange UNC thd.	3/4" S.F.	

NOTE: Suction Flang Code 61, Pressure Flange Code 62

NOTE: I = Inlet Port, J = Outlet Port







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