



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	medietical	LPM	25.2	
	Intermittent*	PSI	4500	
		BAR	310	
OPERATING	Continuous	PSI	4000	
PRESSURES		BAR	276	
	Minimum**	PSI	200	
	wiininan	BAR	14	
OPERATING	Maximum RPM See B			
SPEEDS		Rated RPM	1750	
JF LLDJ	Minimum RPM			
INPUT POWER @ 1750 RPM		HP	18	
(Rated Flow and Pressure)		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	
	•		13 TOOTH	
SHIPPING	REAR PORTS	lbs	27	
WEIGHTS		kg	12.4	
VVEIGHTS	SIDE PORTS	lbs	35	
* This processory	should not aveca	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.

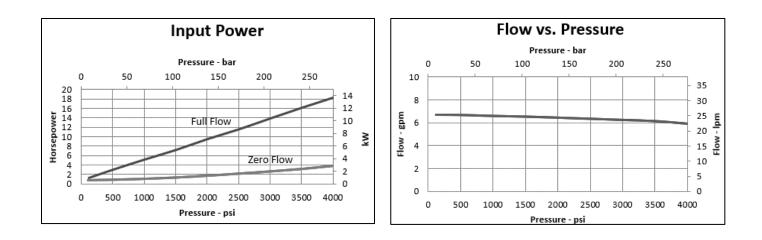
CASE AND INLET PORT SPECIFICATIONS

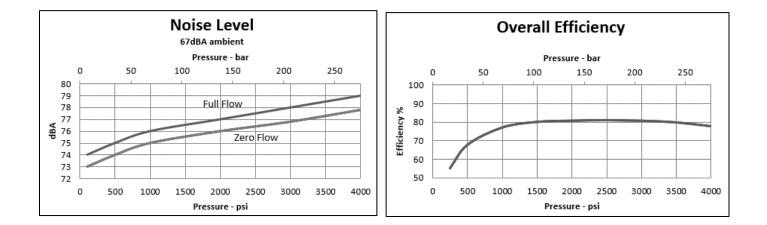
SPEED	Minimum Inlet Pressure Pressure Gauge Absolute Pressure			Maximum Case Pressure				
rpm	psi	bar	inHg	mm-Hg	psi	bar	psi	bar
1800	-3	-0.21	-6.12	-155.46	11.7	0.81	10	0.69
2050	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2100	-3	-0.21	-6.12	-155.46	11.7	0.81	5	0.34
2750	-2.53	-0.17	-4.79	-121.67	12.35	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



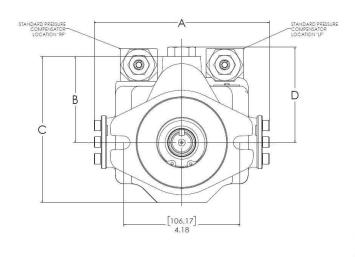


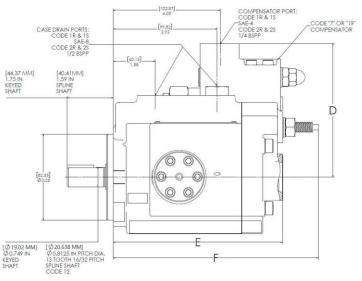


Data taken at 1750 RPM

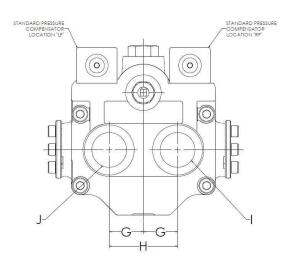


Rear Port Dimension Data





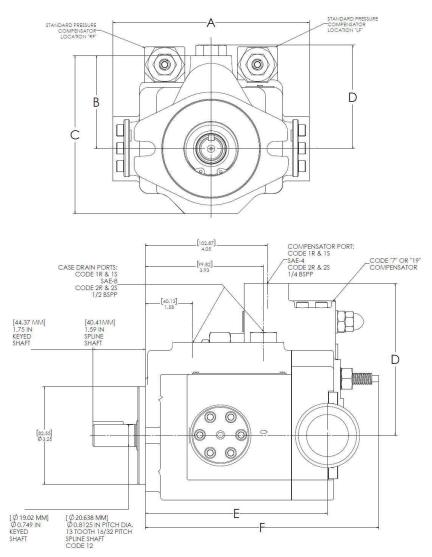
Dimensional Reference Data	Inch (mm)
А	6.29 (159.8)
В	3.09 (78.49)
С	5.24 (133.1)
D (STD Pressure Compensator)	3.43 (87.12)
D (Code 7 Remote & Code 19 Load Sense)	5.06 (128.5)
E	6.40 (162.5)
F	7.76 (197.1)



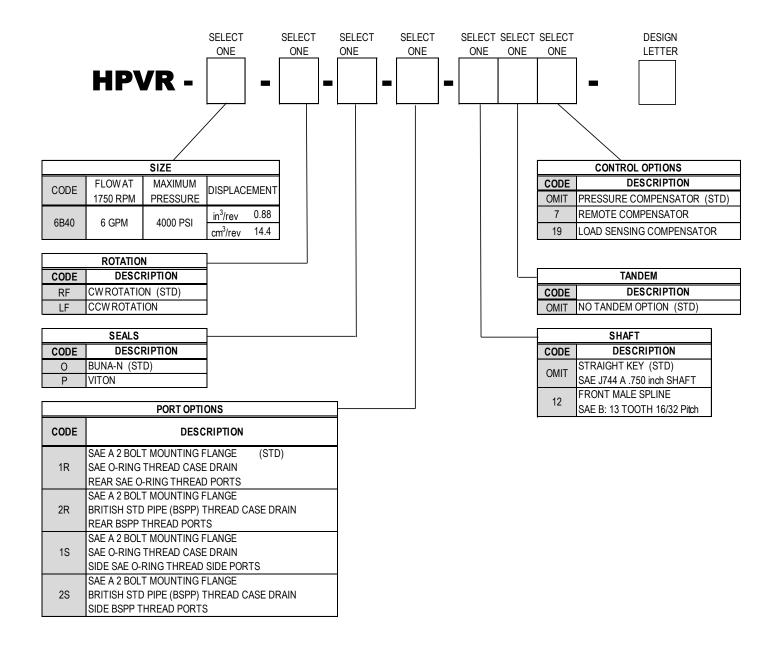
Dimensional Reference Data	Inch (mm)
G	1.13 (28.7)
Н	2.26 (57.4)
I/J Code 1R - Rear SAE Porting	SAE-12
I/J Code 2R- Rear BSPP Porting	3/4 BSPP



Side Port Dimension Data



Dimensional Reference Data	Inch (mm)
Α	6.52 (165.6)
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	6.06 (153.9)
F	7.76 (197.1)
I Suction Code 1S - Side SAE Porting	SAE-16
I Suction Code 2S - Side BSPP Porting	1in. BSPP
J Pressure Code 1S - Side SAE Porting	SAE-12
J Pressure Code 2S- Side BSPP Porting	3/4 BSPP



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