



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.

CASE AND INLET PORT SPECIFICATIONS

TYPICAL PERFORMANCE SPECIFICATIONS					
VOLUMETRIC		cu. In./rev.	2.09		
DISPLACEMENT		ml/rev.	34.2		
PUMP DELIVERY	Theoretical	GPM	16.6		
@ 1750 RPM	medietical	LPM	62.8		
	Intermittent*	PSI	4500		
		BAR	310		
OPERATING	Continuous	PSI	4000		
PRESSURES	Continuous	BAR	276		
	Minimum**	PSI	200		
	WIIIIIII	BAR	14		
OPERATING	Maximum RPM		3000		
SPEEDS		Rated RPM	1750		
SPEEDS	Mi	500			
INPUT POWER @ 1750 RPM		HP	42		
(Rated Flow a	and Pressure)	Kw	31.3		
CASE DRAIN FLOW @		GPM	0.95		
Deadhead & R	ated Pressure	LPM	3.6		
MOUNTING		SAE Type	B 2 Bolt		
FLANGE		- 71			
	Keyed Sha	ft SAE J744 B	0.75		
DRIVE SHAFT	Spline	e Shaft SAE B	.8125		
			13 TOOTH		
	REAR PORTS	lbs	51		
		kg	23.2		
SHIPPING	SIDE PORTS	lbs	63		
WEIGHTS		kg	28.6		
	SIDE PORTS	lbs	69		
* This prossure (TANDEM	kg	31.3		

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

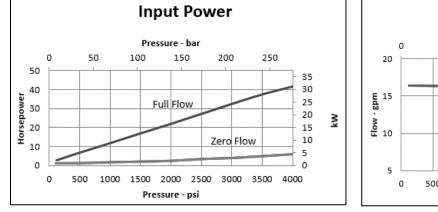
** Pumps operating at less than 150 PSI (10 Bar) may overheat and shorten pump life.

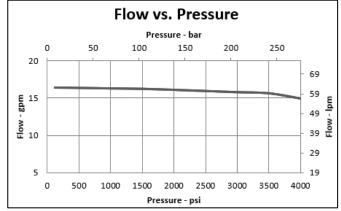
Minimum Inlet Pressure Maximum SPEED **Pressure Gauge Absolute Pressure** Case Pressure psi rpm psi bar in.-Hg mm-Hg bar psi bar 1800 -3 -0.21 -6.12 -155.46 11.7 0.81 10 0.69 0.48 2100 -3 -0.21 -6.12 -155.46 11.7 0.81 7 -155.46 0.34 2230 -0.21 -6.12 11.7 0.81 5 -3 -5.16 -130.95 2275 -2.53 -0.17 12.17 0.84 0.34 5 -3.49 2350 -1.71 -0.12 -88.67 12.99 0.9 5 0.34 0.00 0.00 14.7 1.01 2500 0.00 0.00 5 0.34

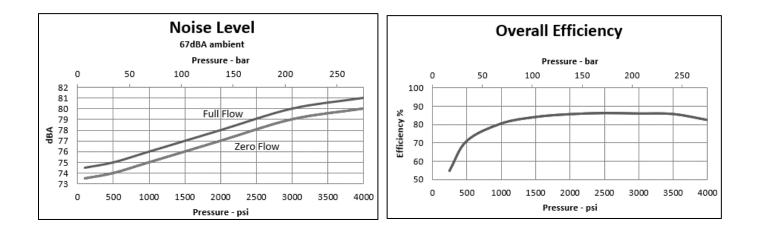
PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar	
Volume	Flow Change / Turn	1.8 GPM	6.8 LPM	
Adjustment	Maximum Torque	41 inlbs	4.6 Nm	

HTDRAULIES. HPVR-15 AXIAL PISTON PUMPS



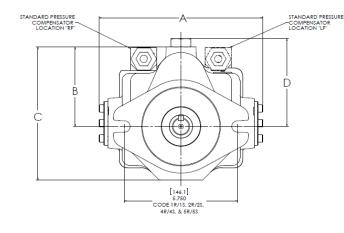


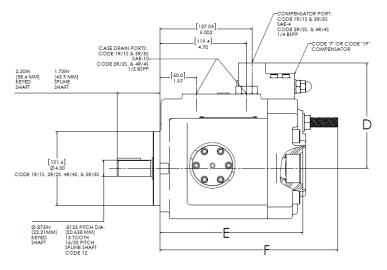


Data taken at 1750 RPM

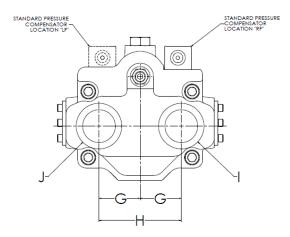


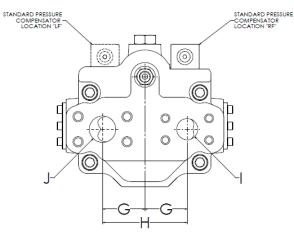
Rear Port Dimension Data





Dimensional Reference Data	Inch (mm)
Α	8.31 (211.1)
В	4.02 (102.1)
С	6.74 (171.2)
D (STD Pressure Compensator)	4.45 (113)
D (Code 7 Remote & Code 19 Load Sense)	5.73 (145.5)
E	7.73 (196.3)
F	9.62 (244.3)

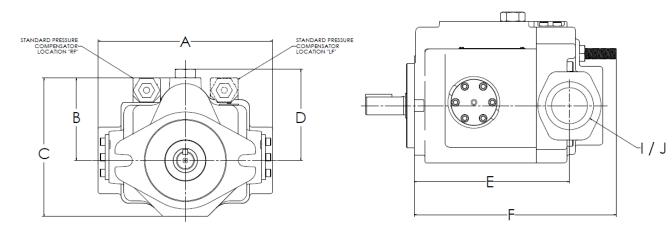




Dimensional Reference Data	Inch (mm)		
G	2.06 (52.4)		
Н	4.125 (104.8)		
I/J Code 1R - Rear SAE Porting	SAE-20		
I/J Code 2R- Rear BSPP Porting	1-1/4 BSPP		
I Code 4R - Rear 4 Bolt Flange (Metric Threads)	1 in.		
I Code 5R - Rear 4 Bolt Flange (UNC Threads)	1 in.		
J Code 4R - Rear 4 Bolt Flange (Metric Threads)	1-1/4 in.		
J Code 5R - Rear 4 Bolt Flange (UNC Threads)	1-1/4 in.		
Note: All Rear Port Flange Code 61.			



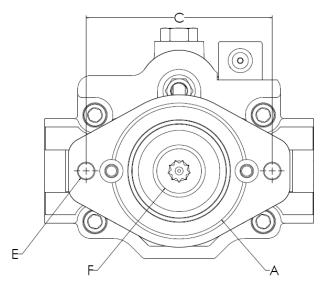
Side Port Dimension Data

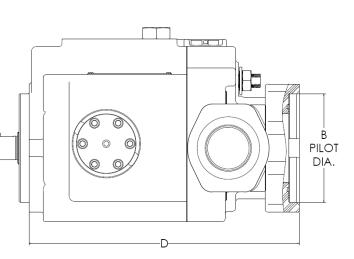


Dimensional Reference Data	Inch (mm)	
A	8.31 (211)	
В	4.02 (102.1)	
С	6.74 (171.2)	
D (STD Pressure Compensator)	4.43 (112.5)	
D (Code 7 Remote & Code 19 Load Sense)	5.69 (144.5)	
E	7.35 (186.7)	
F	9.627 (244.5)	
I/J Code 1S - Rear SAE Porting	SAE-20	
I/J Code 2S - Rear BSPP Porting	1 1/4 BSPP	
I Code 4S - Rear 4 Bolt Flange (Metric Threads)	1 in.	
I Code 5S - Rear 4 Bolt Flange (UNC Threads)	1 in.	
J Code 4S - Rear 4 Bolt Flange (Metric Threads)	1 1/4 BSPP	
J Code 5S - Rear 4 Bolt Flange (UNC Threads)	1 1/4 BSPP	

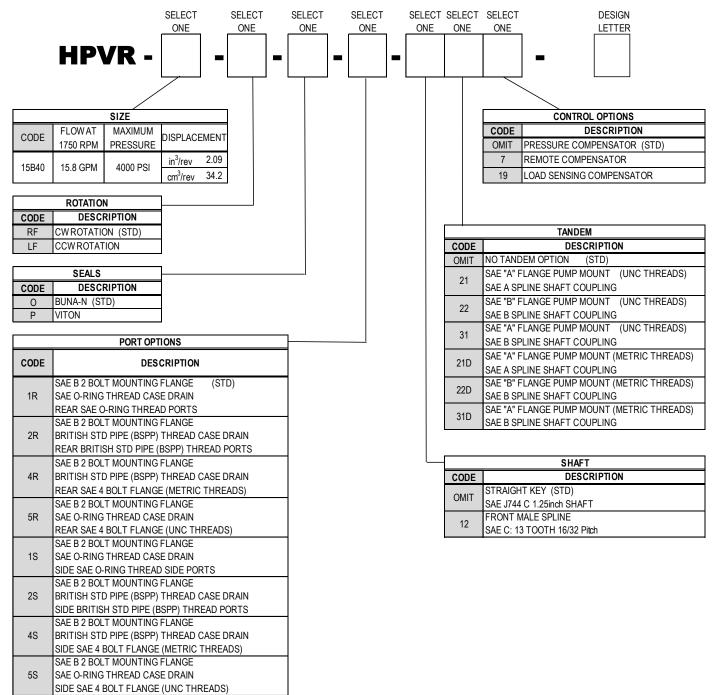
Note: Suction Flange code 61 and Pressure Flange code 62.







CODE	MOUNTING PAD	AD DIMENSIONS Inches (mm)		Thread	30º Involute Internal Spline	Maximum H.P. Ratting*	Maximum Torque Rating*	
	A	В	С	D	E	F	(at 1750 RPM)	(in-lbs)
21	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.81 (249.1)	3/8-16 UNC	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22	SAE "B"	4.00 (101.6)	5.75 (146.1)	9.97 (253.2)	1/2-13 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
31	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.81 (249.1)	3/8-16 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
21D	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.81 (249.1)	M10	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22D	SAE "B"	4.00 (101.6)	5.75 (146.1)	9.97 (253.2)	M12	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
31D	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.81 (249.1)	M10	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
* This is the maximum horsepower or torque that can be transmitted through the shaft coupling to the rear pump								



See Dimensional pages for Port Sizes and Code Type

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