



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.	2.62			
DISPLACEMENT		ml/rev.	42.9			
PUMP DELIVERY	Theoretical	GPM	19.85			
@ 1750 RPM	meoreticai	LPM	75.03			
	Intermittent*	PSI	4500			
	mtermittent	BAR	310			
OPERATING	Continuous	PSI	4000			
PRESSURES		BAR	275			
	Minimum**	PSI	200			
		BAR	14			
OPERATING	Ma	aximum RPM	See Below			
SPEEDS		Rated RPM	1750			
31 2203	Mi	nimum RPM	500			
INPUT POWER	R @ 1750 RPM	HP	53			
(Rated Flow a	and Pressure)	Kw	39.5			
CASE DRAI	_	GPM	1.6			
Deadhead & R	ated Pressure	LPM	6.1			
MOUNTING FLANGE		SAE Type	C 2-Bolt			
DRIVE SHAFT	Keyed Sha	1.25 in.				
DINIVESTIALL	Spline	e Shaft SAE C	14 tooth			
	REAR PORTS	lbs	75			
	NEART ORTS	kg	34			
SHIPPING	SIDE PORTS	lbs	90			
WEIGHTS	31021 31(13	kg	41			
	SIDE PORTS	lbs	100			
	TANDEM	kg	45.5			

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

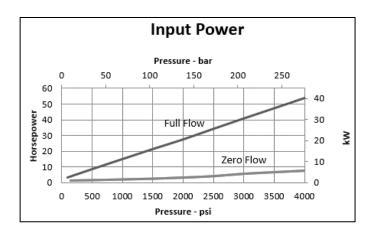
CASE AND INLET PORT SPECIFICATIONS

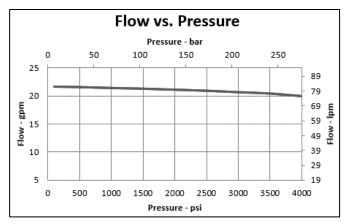
SPEED	Minimum Inlet Pressure						Maximum	
3F LLD		Pressure	e Gauge		Absolute Pressure		Case Pressure	
rpm	psi bar inHg mm-Hg			psi	bar	psi	bar	
1800	-3	-0.21	-6.12	-155.46	11.7	0.81	10	0.69
2050	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2100	-2.45	-0.17	-6.12	-126.72	12.25	0.8	5	0.34
2200	-1.25	-0.09	-5.16	-64.8	13.45	0.9	5	0.34
2300	0.00	0.00	0.00	0.00	14.7	1.01	5	0.34
2400	1.31	0.09	2.66	67.88	16.08	1.1	5	0.34

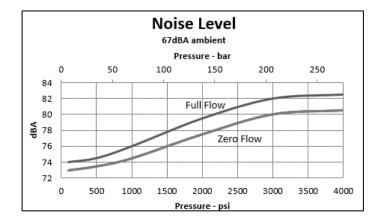
PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

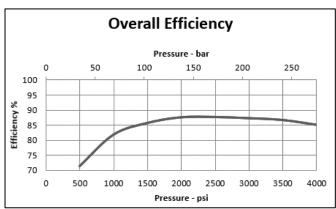
Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar	
Volume	Flow Change / Turn	2.1 GPM	7.9 LPM	
Adjustment	Maximum Torque	49 inlbs	5.5 Nm	

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





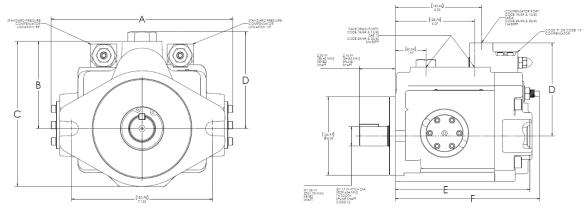




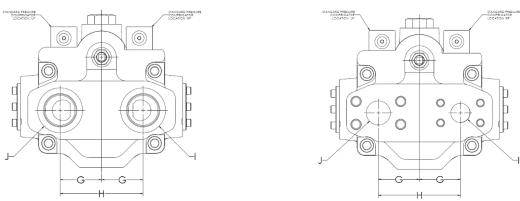
Data taken at 1800 RPM



Rear Port Dimension Data



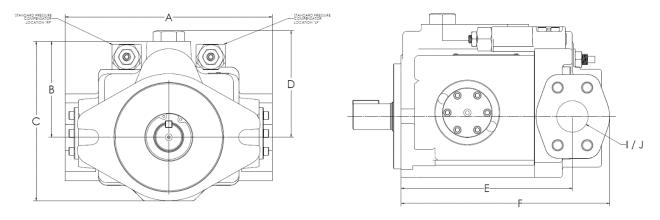
Dimensional Reference Data	Inch (mm)
Α	9.18 (233.2)
В	4.40 (111.8)
С	7.32 (185.9)
D (STD Pressure Compensator)	4.90 (124.4)
D (Code 7 Remote & Code 19 Load Sense)	5.96 (151.4)
E	8.60 (218.4)
F	9.23 (234.4



Dimensional Reference Data	Inch (mm)		
G	2.125 (53.9)		
Н	4.25 (107.9)		
I Code 1R - Rear SAE Porting	SAE-20		
I Code 2R- Rear BSPP Porting	1-1/4 BSPP		
I Code 4R- Rear 4 Bolt Flange (Metric Threads)	1SF		
I Code 5R- Rear 4 Bolt Flange (UNC Threads)	1SF		
J Code 1R - Rear SAE Porting	SAE-20		
J Code 2R- Rear BSPP Porting	1-1/4 BSPP		
J Code 4R- Rear 4 Bolt Flange (Metric Threads)	1-1/4 SF		
J Code 5R- Rear 4 Bolt Flange (UNC Threads)	1-1/4 SF		
Note: REAR Port Flange are code 61, Both Pressure and Suction			

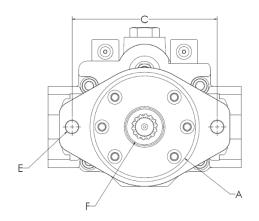


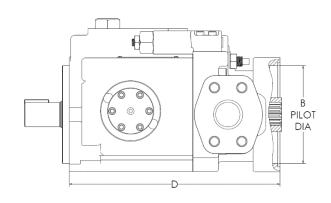
Side Port Dimension Data



Dimensional Reference Data	Inch (mm)			
Α	9.50 (241.3)			
В	4.40 (111.7)			
С	7.32 (185.9)			
D (STD Pressure Compensator)	4.90 (124.5)			
D (Code 7 Remote & Code 19 Load Sense)	5.96 (151.4)			
E	8.15 (207)			
F	9.92 (251.9)			
I Code 4S- Side 4 Bolt Flange (Metric Threads)	1SF			
I Code 5S- Side 4 Bolt Flange (UNC Threads)	1 SF			
J Code 4S- Side 4 Bolt Flange (Metric Threads)	1-1/2 SF			
J Code 5S- Side 4 Bolt Flange (UNC Threads)	1-1/2 SF			
Note: Suction Flange are code 61 and Pressure Flange are code 62				

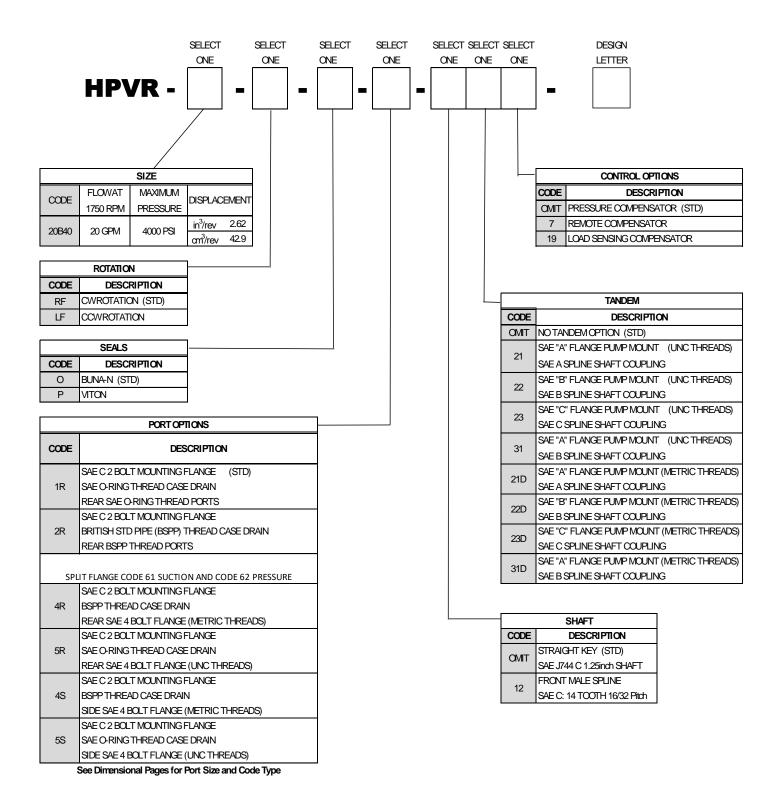






CODE	MOUNTING PAD	DIMENSIONS Inches (mm)		Thread	30° Involute Internal Spline	Maximum H.P. Ratting*	Maximum Torque Rating*	
	Α	В	C	D	E	F	(at 1750 RPM)	(in-lbs)
21	SAE "A"	3.25 (82.6)	4.18 (106.2)	10.54 (267.7)	3/8-16 UNC	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22	SAE "B"	4.00 (101.6)	5.75 (146.1)	10.70 (271.8)	1/2-13 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	16.8	586
23	SAE "C"	5.00 (127.0)	7.13 (181.1)	10.82 (274.8)	5/8-11 UNC	14 Tooth 12/24 Pitch 1.1667 Dia.	43.8	1577
31	SAE "A"	3.25 (82.6)	4.18 (106.2)	10.54 (267.7)	3/8-16 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	16.8	586
21D	SAE "A"	3.25 (82.6)	4.18 (106.2)	10.54 (267.7)	M10	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22D	SAE "B"	4.00 (101.6)	5.75 (146.1)	10.70 (271.8)	M12	13 Tooth 16/32 Pitch 0.8125 Dia.	16.8	586
23D	SAE "C"	5.00 (127.0)	7.13 (181.1)	10.82 (274.8)	M16	14 Tooth 12/24 Pitch 1.1667 Dia.	43.8	1577
31D	SAE "A"	3.25 (82.6)	4.18 (106.2)	10.54 (267.7)	M10	13 Tooth 16/32 Pitch 0.8125 Dia.	16.8	586
* This is the maximum horsepower or torque that can be transmitted through the shaft coupling to the rear pump								





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