



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.	3.97			
DISPLACEMENT		ml/rev.	65			
PUMP DELIVERY		GPM	29			
@ 1750 RPM		LPM	109.8			
	Intermittent*	PSI	4500			
		BAR	310			
OPERATING	Continuous***	PSI	4000			
PRESSURES	Continuous	BAR	275			
	Minimum**	PSI	200			
	Willing	BAR	14			
OPERATING	Ma	ximum RPM	See Below			
SPEEDS		Rated RPM	1750			
3F LLD3	Mi	500				
INPUT POWE	R @ 1750 RPM	HP	82			
(Rated Flow	and Pressure)	kW	62			
CASE DRAI	N FLOW @	GPM	1.9			
Deadhead & R	lated Pressure	LPM	7.2			
MOUNTING		SAE Type	C 2-Bolt			
FLANGE		JAL Type	C Z-BOIL			
DRIVE SHAFT	Keyed Shaft SAE J744 (1.25 in.			
DIVIVE SHALL	Spline	Shaft SAE C	14 tooth			
	REAR PORTS	lbs.	75			
	NEAR FOR 13	kg	34			
SHIPPING	SIDE PORTS	lbs.	90			
WEIGHTS	JIDE FORTS	kg	41			
	SIDE PORTS	lbs.	100			
	TANDEM	kg	45.5			
* This pressure should not exceed 10% of the duty cycle and						

^{*} 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	
SPEED	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	0.8	10	0.69
2050	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2100	-2.45	-0.17	-4.99	-126.72	12.25	0.8	5	0.34
2200	-1.25	-0.09	-2.55	-64.8	13.45	0.9	5	0.34
2300	0	0	0	0	14.7	1	5	0.34
2400	1.31	0.09	2 66	67.88	16.01	1.1	5	0.34

PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar	
Volume	Flow Change / Turn	2.8 GPM	10.6 LPM	
Adjustment	Maximum Torque	45 inlbs	5.1 Nm	



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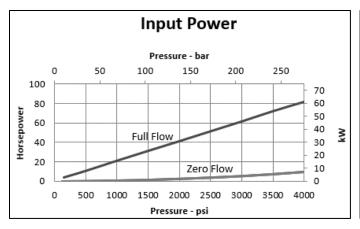
"For All Your Hydraulic Needs"

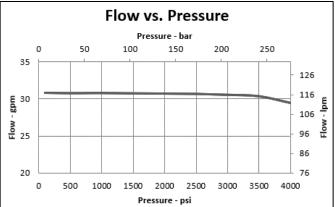
^{**} Pumps operating at less than 150 PSI (10 bar) may overheat and shorten pump life.

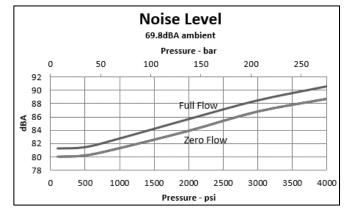
^{***} Side port options 3500 PSI Continuous

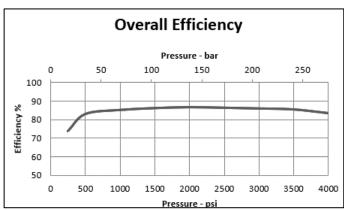












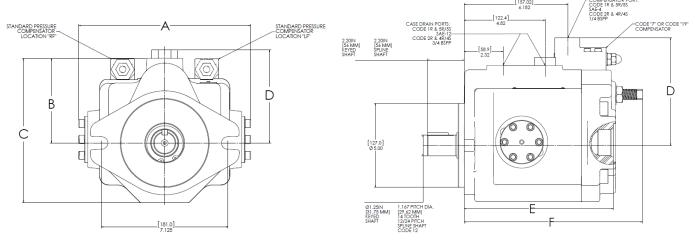
Note: Side port options maximum pressure is 3500 PSI

Data taken at 1800 RPM

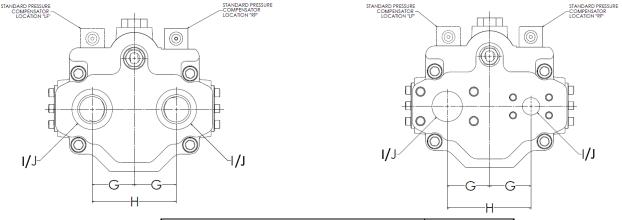
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Rear Port Dimension Data



Dimensional Reference Data	Inch (mm)
Α	9.66 (245.4)
В	4.76 (120.9)
С	8.11 (206)
D (STD Pressure Compensator)	5.24 (133)
D (Code 7 Remote & Code 19 Load Sense)	6.41 (162.8)
E	8.9 (226)
F	10.64 (270.3)



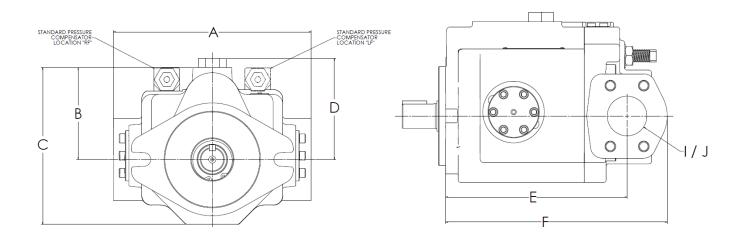
Dimensional Reference Data	Inch (mm)		
G	2.375 (60.3)		
Н	4.75 (120.6)		
I Code 1R - Rear SAE Porting	SAE-20		
I Code 2R- Rear BSPP Porting	1-1/4 BSPP		
I Code 4R- Rear 4 Bolt Flange (Metric Threads)	2 SF		
I Code 5R- Rear 4 Bolt Flange (UNC Threads)	2 SF		
J Code 1R - Rear SAE Porting	SAE-20		
J Code 2R- Rear BSPP Porting	1-1/4 BSPP		
J Code 4R- Rear 4 Bolt Flange (Metric Threads)	1 SF		
J Code 5R- Rear 4 Bolt Flange (UNC Threads)	1 SF		
Note: REAR Port Flange are code 61, Both Pressure and Suction			

NOTE: I = Inlet Port, J = Outlet Port





Side Port Dimension Data
Max Rated 3500 PSI Continuous

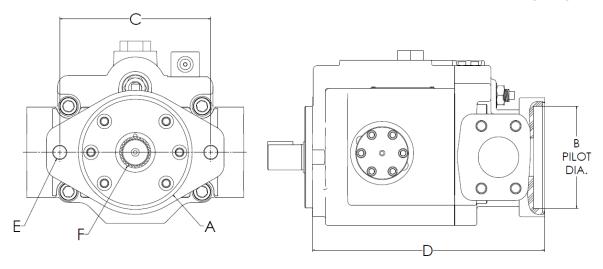


Dimensional Reference Data	Inch (mm)		
Α	10.24 (260.1)		
В	4.76 (120.9)		
С	8.11 (206)		
D (STD Pressure Compensator)	5.24 (133)		
D (Code 7 Remote & Code 19 Load Sense)	6.41 (162.8)		
D (Code 26 Torque Limit)	9.52		
E	9.16 (232.7)		
F	11.12 (282.5)		
I Code 4S- Side 4 Bolt Flange (Metric Threads)	2 SF		
I Code 5S- Side 4 Bolt Flange (UNC Threads)	2 SF		
J Code 4S- Side 4 Bolt Flange (Metric Threads)	1SF		
J Code 5S- Side 4 Bolt Flange (UNC Threads)	1SF		
Note: Suction Flange are code 61 and Pressure Flange are code 62			

NOTE: I = Inlet Port, J = Outlet Port



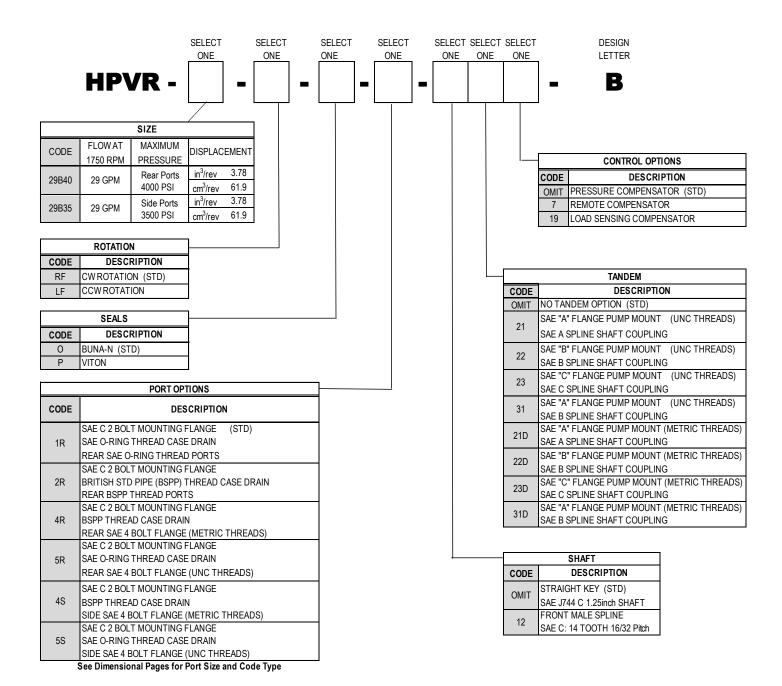




CODE	MOUNTING PAD	DIMENSIONS Inches (mm)		Thread	30° Involute Internal Spline	Maximum H.P. Ratting*	Maximum Torque Rating*	
	Α	В	С	D	Е	F	(at 1750 RPM)	(in-lbs)
21	SAE "A"	3.25 (82.6)	4.19 (106.4)	11.27 (86.26)	3/8-16 UNC	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22	SAE "B"	4.00 (101.6)	5.75 (146.1)	11.43 (290.3)	1/2-13 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
23	SAE "C"	5.00 (127.0)	7.13 (181.1)	11.55 (293.4)	5/8-11 UNC	14 Tooth 12/24 Pitch 1.1667 Dia.	43.8	1577
31	SAE "A"	3.25 (82.6)	4.19 (106.4)	11.27 (86.26)	3/8-16 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
21D	SAE "A"	3.25 (82.6)	4.19 (106.4)	11.27 (86.26)	M10	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22D	SAE "B"	4.00 (101.6)	5.75 (146.1)	11.43 (290.3)	M12	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012
23D	SAE "C"	5.00 (127.0)	7.13 (181.1)	11.55 (293.4)	M16	14 Tooth 12/24 Pitch 1.1667 Dia.	43.8	1577
31D * This i	SAE "A"	3.25 (82.6)	4.19 (106.4)	11.27 (86.26)	M10	13 Tooth 16/32 Pitch 0.8125 Dia.	28.1	1012







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