



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.	3.97				
DISPLACEMENT		ml/rev.	65				
PUMP DELIVERY		GPM	29				
@ 1750 RPM		LPM	109.8				
	Intermittent*	PSI	4500				
	mermittent	BAR	310				
OPERATING	Continuous***	PSI	4000				
PRESSURES	Continuous	BAR	275				
	Minimum**	PSI	200				
	Winning	BAR	14				
OPERATING	Ma	Maximum RPM See Be					
SPEEDS		Rated RPM	1750				
SFLEDS	Mi	nimum RPM	500				
INPUT POWE	R @ 1750 RPM	HP	82				
(Rated Flow a	and Pressure)	kW	62				
CASE DRAI	N FLOW @	GPM	1.9				
Deadhead & R	ated Pressure	LPM	7.2				
MOUNTING		SAE Type	C 2-Bolt				
FLANGE		эль турс	C Z-BOIT				
DRIVE SHAFT	Keyed Sha	1.25 in.					
BRIVESTIAT	Spline	e Shaft SAE C	14 tooth				
	REAR PORTS	lbs.	75				
		kg	34				
SHIPPING	SIDE PORTS	lbs.	90				
WEIGHTS		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.

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

*** Side port options 3500 PSI Continuous

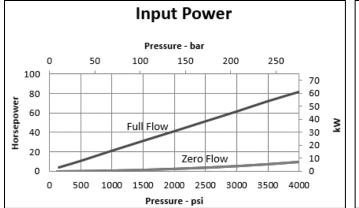
SPEED	Minimum Inlet Pressure						Maximum	
	Pressure Gauge				Absolute Pressure		Case Pressure	
rpm	psi	bar	inHg	mm-Hg	psi	bar	psi	bar
1800	-3	-0.21	-6.12	-155.46	11.7	0.8	10	0.69
2050	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2100	-2.45	-0.17	-4.99	-126.72	12.25	0.8	5	0.34
2200	-1.25	-0.09	-2.55	-64.8	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

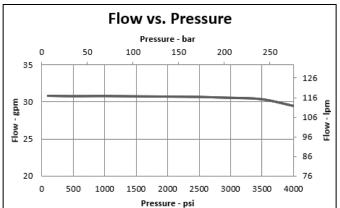
PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

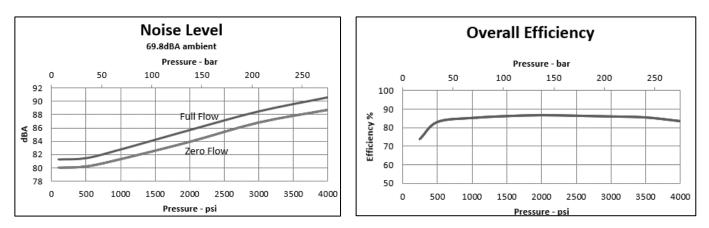
Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar	
Volume	Flow Change / Turn	2.8 GPM	10.6 LPM	
Adjustment	Maximum Torque	45 inIbs	5.1 Nm	

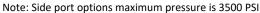
4895 12th Avenue East, Shakopee MN 55379 / PH: 952.895.6400 / WWW.CONTINENTALHYDRAULICS.COM







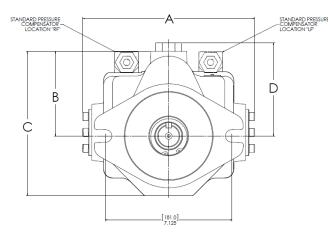


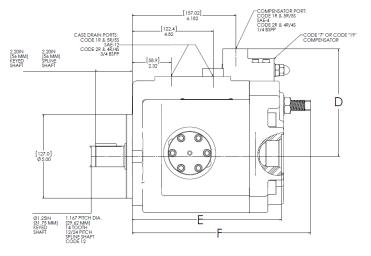


Data taken at 1800 RPM

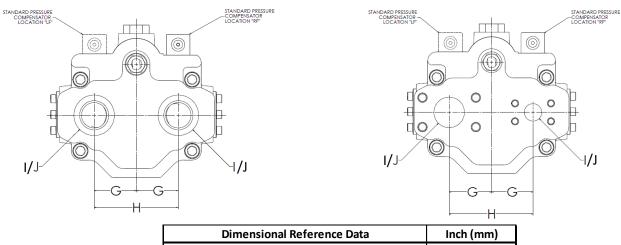


Rear Port Dimension Data





Dimensional Reference Data	Inch (mm)	
А	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)	

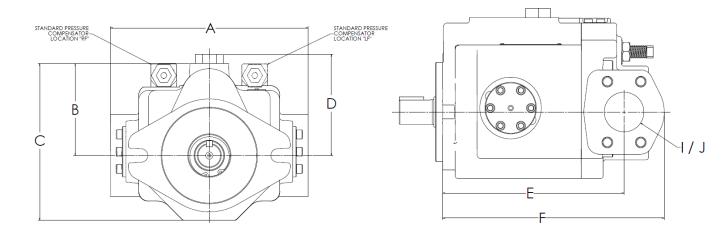


Dimensional Reference Data	Inch (mm)		
G	2.375 (60.3)		
н	4.75 (120.6)		
I Code 1R - Rear SAE Porting	SAE-20		
I Code 2R- Rear BSPP Porting	1-1/4 BSPP		
I Code 4R- Rear 4 Bolt Flange (Metric Threads)	2 SF		
I Code 5R- Rear 4 Bolt Flange (UNC Threads)	2 SF		
J Code 1R - Rear SAE Porting	SAE-20		
J Code 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



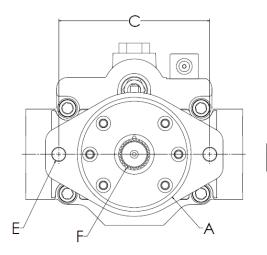
Side Port Dimension Data Max Rated 3500 PSI Continuous

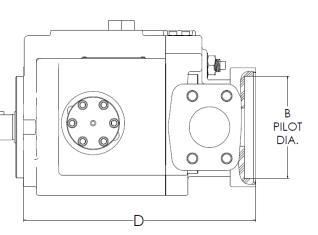


Dimensional Reference Data	Inch (mm)		
А	10.24 (260.1)		
В	4.76 (120.9)		
С	8.11 (206)		
D (STD Pressure Compensator)	5.24 (133)		
D (Code 7 Remote & Code 19 Load Sense)	6.41 (162.8)		
D (Code 26 Torque Limit)	9.52		
E	9.16 (232.7)		
F	11.12 (282.5)		
I Code 4S- Side 4 Bolt Flange (Metric Threads)	2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

NOTE: I = Inlet Port, J = Outlet Port

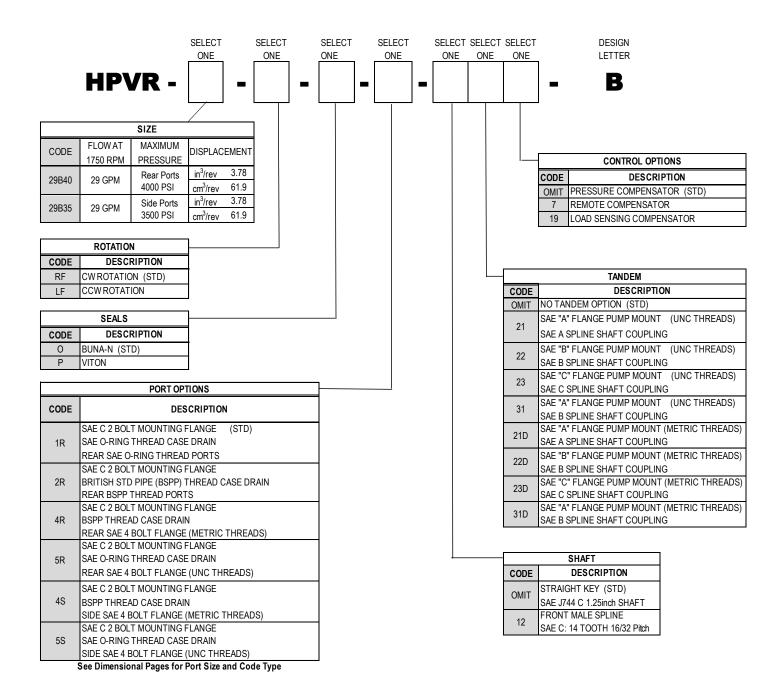






	MOUNTING PAD	DIMENSIONS		Thread	30° Involute	Maximum H.P.	Maximum	
CODE	MOONTING FAD	Inches (mm)			Internal Spline	Ratting*	Torque Rating*	
	А	В	С	D	E	F	(at 1750 RPM)	(in-lbs)
		3.25	4.19	11.27	3/8-16	9 Tooth		
21	SAE "A"	(82.6)	(106.4)	(86.26)	UNC	16/32 Pitch	8.5	306
		, ,	,	, ,		0.5625 Dia.		
		4.00	5.75	11.43	1/2-13	13 Tooth		
22	SAE "B"	(101.6)	(146.1)	(290.3)	UNC	16/32 Pitch	28.1	1012
		(/	(-)	(230.3)		0.8125 Dia.		
		5.00	7.13	11.55	5/8-11	14 Tooth		
23	SAE "C"	(127.0)	(181.1)	(293.4)	UNC	12/24 Pitch	43.8	1577
		(127:0)	(101.1)	(200.1)	0110	1.1667 Dia.		
		3.25	4.19	11.27	3/8-16	13 Tooth		
31	SAE "A"	(82.6)	(106.4)	(86.26)		16/32 Pitch	28.1	1012
		(02.0)	(100.4)	(00.20)	one	0.8125 Dia.		
		3.25	4.19	11.27		9 Tooth		
21D	SAE "A"	(82.6)	(106.4)	(86.26)	M10	16/32 Pitch	8.5	306
		(02.0)	(100.4)	(80.20)		0.5625 Dia.		
		4.00	5.75	11.43		13 Tooth		
22D	SAE "B"	(101.6)	(146.1)	(290.3)	M12	16/32 Pitch	28.1	1012
		(101.0)	(140.1)	(250.5)		0.8125 Dia.		
		5.00	7.13	11.55		14 Tooth		
23D	SAE "C"	3.00 (127.0)	-		M16	12/24 Pitch	43.8	1577
		(127.0)	(181.1)	(293.4)		1.1667 Dia.		
		2.25	4 10	11 27		13 Tooth		
31D	SAE "A"	3.25	4.19	11.27	M10	16/32 Pitch	28.1	1012
		(82.6)	(106.4)	(86.26)		0.8125 Dia.		
* This is the maximum horsepower or torque that can be transmitted through the shaft coupling to the rear pump								





FORM NO. 1022375AB REV 12/2021 © CONTINENTAL HYDRAULICS INC. ALL RIGHTS RESERVED. PRODUCT SPECIFICATIONSAND PERFORMANCE SUBJECT TO CHANGE WITHOUT NOTICE.