



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

TYPICAL PERFORMANCE SPECIFICATIONS						
VOLUMETRIC		cu. In./rev.	1.26			
DISPLACEMENT		ml/rev.	21.1			
PUMP DELIVERY	Theoretical	GPM	9.9			
@ 1750 RPM	meoreticai	LPM	37.5			
	Intermittent*	PSI	4500			
	memmem	BAR	310			
OPERATING	Continuous	PSI	4000			
PRESSURES	Continuous	BAR	275			
	Minimum**	PSI	200			
	Willimum	BAR	14			
OPERATING	Max	imum RPM	See Below			
SPEEDS		1750				
SPEEDS	Min	500				
INPUT POWER	HP	27				
(Rated Flow a	and Pressure)	Kw	20.1			
CASE DRAI	N FLOW @	GPM	0.7			
Deadhead & R	ated Pressure	LPM	2.6			
MOUNTING FLANGE		SAE Type	"B" 2 bolt			
DRIVE SHAFT	Keyed Shaft SAE J744 E		.875 in			
DRIVE SHAFT	Spline	Shaft SAE B	13 Tooth			
	REAR PORTS	lbs	39			
	NEAR PURIS	kg	17.7			
SHIPPING	SIDE PORTS	lbs	50			
WEIGHTS	JIDE FUNTS	kg	22.7			
	SIDE PORTS	lbs	52			
	TANDEM	kg	23.6			

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

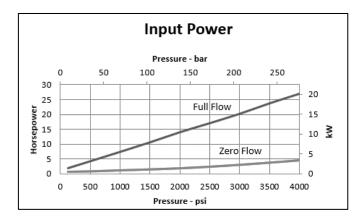
CASE AND INLET PORT SPECIFICATIONS

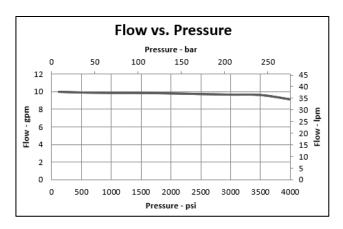
SPEED	Minimum Inlet Pressure						Maximum	
		Pressure Gauge Absolute Pressure			Pressure	Case Pressure		
rpm	psi	bar	inHg	mm-Hg	psi	bar	psi	bar
1800	-3	-0.21	-6.12	-155.46	11.7	0.81	10	0.69
2100	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2500	-3	-0.21	-6.12	-155.46	11.7	0.81	5	0.34
2700	-1.03	-0.07	-2.1	-53.44	13.67	0.9	5	0.34
2800	0.00	0.00	0.00	0.00	14.7	1.01	5	0.34
3000	2.18	0.15	4.44	112.71	16.88	1.2	5	0.34

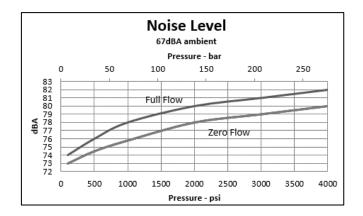
PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

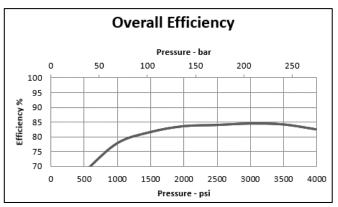
Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar	
Volume	Flow Change / Turn	1.2 GPM	4.5 LPM	
Adjustment	Maximum Torque	25 inlbs	2.8 Nm	

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





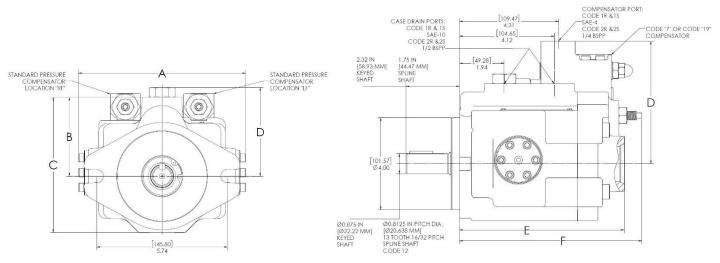




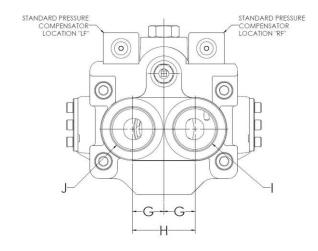
Data taken at 1800 RPM



Rear Port Dimension Data



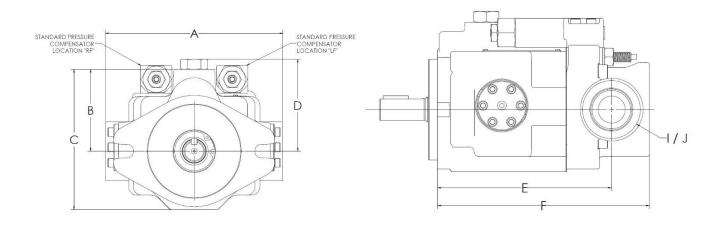
Dimensional Reference Data	Inch (mm)		
Α	7.35 (186.7)		
В	3.47 (88.1)		
С	5.95 (151.1)		
D (STD Pressure Compensator)	3.90 (99)		
D (Code 7 Remote & Code 19 Load Sense)	5.32 (135.1)		
E	7.15 (181.6)		
F	7.92 (201.2)		



Dimensional Reference Data	Inch (mm)
G	1.18 (29.9)
Н	2.36 (59.9)
I Code 1R - Rear SAE Porting	SAE-20
I Code 2R- Rear BSPP Porting	1-1/4 BSPP
J Code 1R - Rear SAE Porting	SAE-20
J Code 2R- Rear BSPP Porting	1-1/4 BSPP

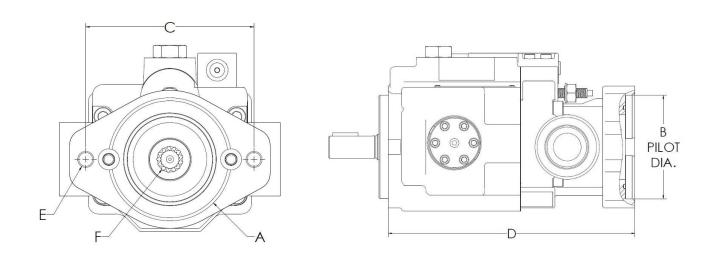


Side Port Dimension Data



Dimensional Reference Data	Inch (mm)		
Α	7.56 (192)		
В	3.47 (88.1)		
С	5.95 (151)		
D (STD Pressure Compensator)	3.90 (99)		
D (Code 7 Remote & Code 19 Load Sense)	5.32 (135.1)		
E	6.92 (175.8)		
F	8.44 (214.4)		
I Code 1S - Side SAE Porting	SAE-20		
I Code 2S- Side BSPP Porting	1-1/4 BSPP		
J Code 1S - Side SAE Porting	SAE-20		
J Code 2S- Side BSPP Porting	1-1/4 BSPP		



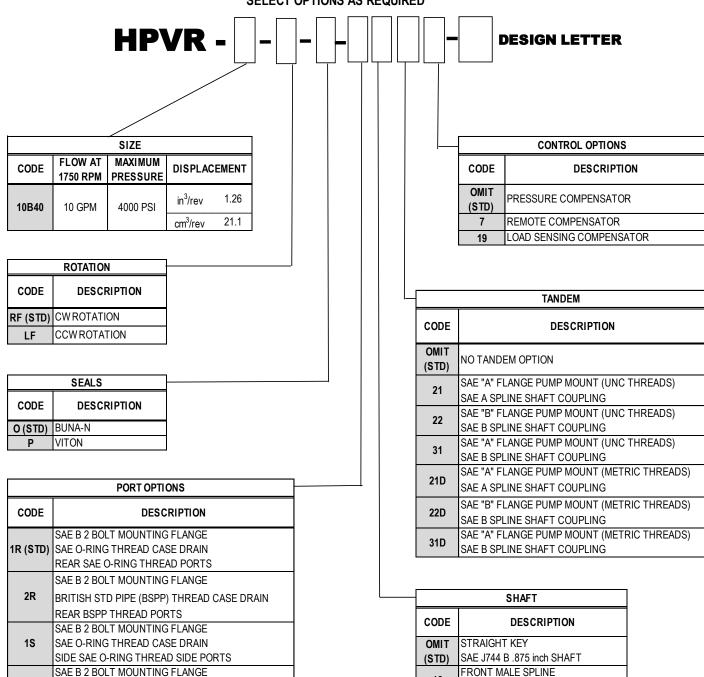


CODE	MOUNTING PAD		IMENSION		Thread	30° Involute Internal Spline	Maximum H.P. Ratting* (at 1750 RPM)	Maximum Torque Rating* (in-lbs)
	Α	В	С	D	E	F	(0.0 _ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1.5)
21	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.41 (239)	3/8-16 UNC	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22	SAE "B"	4.00 (101.6)	5.75 (146.1)	9.56 (242.8)	1/2-13 UNC	13 Tooth 16/32 Pitch 0.8125 Dia.	16.8	586
31	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.56 (242.8)	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)	9.41 (239)	M10	9 Tooth 16/32 Pitch 0.5625 Dia.	8.5	306
22D	SAE "B"	4.00 (101.6)	5.75 (146.1)	9.56 (242.8)	M12	13 Tooth 16/32 Pitch 0.8125 Dia.	16.8	586
31D	SAE "A"	3.25 (82.6)	4.18 (106.2)	9.56 (242.8)	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								



28





12

SAE B: 13 TOOTH 16/32 Pitch

BRITISH STD PIPE (BSPP) THREAD CASE DRAIN

SIDE BSPP THREAD PORTS

FORM NO. 1022375AE REV 04/2019 © CONTINENTAL HYDRAULICS INC. ALL RIGHTS RESERVED. PRODUCT SPECIFICATIONSAND PERFORMANCE SUBJECT TO CHANGE WITHOUT NOTICE.