# **ZEDJS** HYDRATECHLTD Global Suppliers of Premium Hydraulic Components

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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				
	Withingth	BAR	14				
OPERATING	Ma	aximum RPM	3000				
SPEEDS		Rated RPM	1750				
JF LLDJ	Mi	500					
INPUT POWE	HP	82					
(Rated Flow a	(Rated Flow and Pressure)						
CASE DRAI	N FLOW @	GPM	1.9				
Deadhead & R	ated Pressure	LPM	7.2				
MOUNTING FLANGE		SAE Type	C 2-Bolt				
	Keyed Sha	ft SAE J744 C	1.25 in.				
DRIVE SHAFT		e Shaft SAE C	14 tooth				
		lbs.	75				
	REAR PORTS	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.

#### CASE AND INLET PORT SPECIFICATIONS

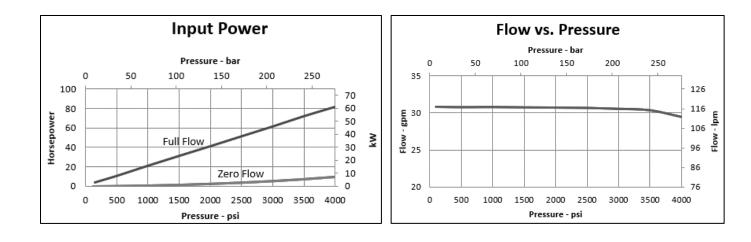
SPEED	Minimum Inlet Pressure						Maximum	
SPEED		Pressure	e Gauge	auge Absolute Pressure			Case Pressure	
rpm	psi	bar	inHg	mm-Hg	psi bar		psi	bar
1800	-3	-0.21	-6.12	-155.46	11.7	0.8	10	0.69
2050	-3	-0.21	-6.12	-155.46	11.7	0.81	7	0.48
2100	-2.45	-0.17	-4.99	-126.72	12.25	0.8	5	0.34
2200	-1.25	-0.09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

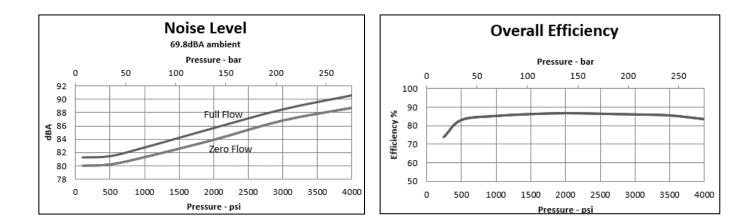
#### PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

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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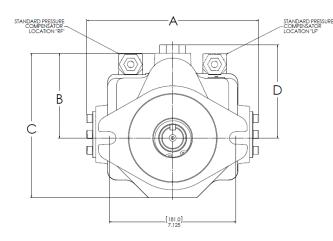


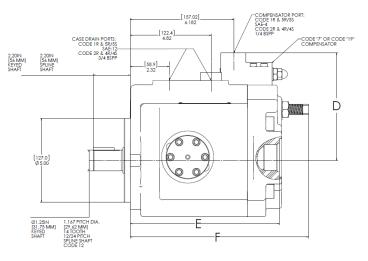


Data taken at 1800 RPM

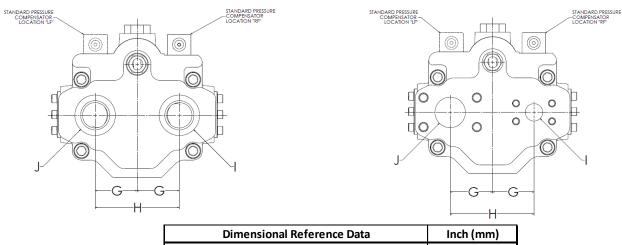


#### **Rear Port Dimension Data**





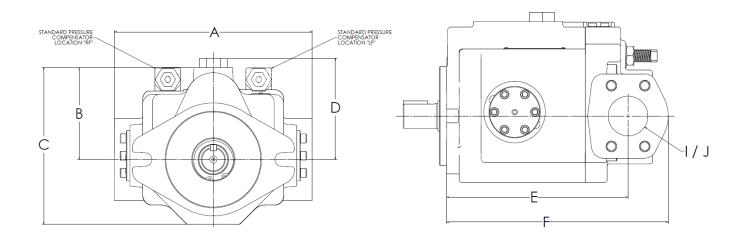
Dimensional Reference Data	Inch (mm)
А	9.66 (245.4)
В	4.76 (120.9)
С	8.11 (206)
D (STD Pressure Compensator)	5.24 (133)
D (Code 7 Remote & Code 19 Load Sense)	6.41 (162.8)
E	8.9 (226)
F	10.64 (270.3)



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)	1 SF		
I Code 5R- Rear 4 Bolt Flange (UNC Threads)	1 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)	2 SF		
J Code 5R- Rear 4 Bolt Flange (UNC Threads)	2 SF		
Note: REAR Port Flange are code 61, Both Pressure and Suction			

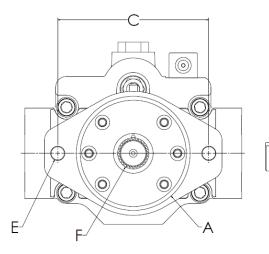


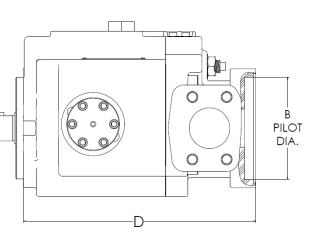
#### Side Port Dimension Data



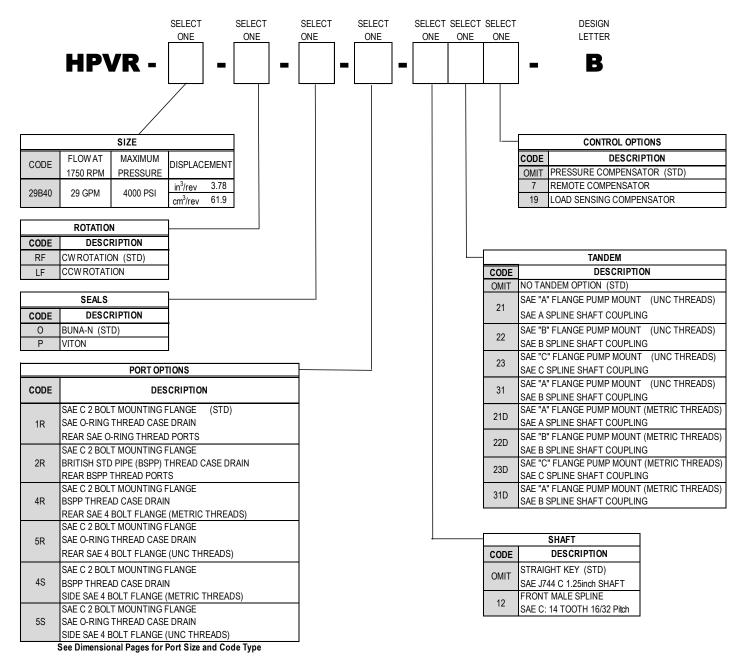
Dimensional Reference Data	Inch (mm)		
А	10.24 (260.1)		
В	4.76 (120.9)		
С	8.11 (206)		
<b>D</b> (STD Pressure Compensator)	5.24 (133)		
<b>D</b> (Code 7 Remote & Code 19 Load Sense)	6.41 (162.8)		
<b>D</b> (Code 26 Torque Limit)	9.52		
E	9.16 (232.7)		
F	11.12 (282.5)		
I Code 4S- Side 4 Bolt Flange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







	MOUNTING PAD	DIMENSIONS		Thread	30° Involute	Maximum H.P.	Maximum	
CODE	MOONTING FAD	Inches (mm)		meau	Internal Spline	Ratting*	Torque Rating*	
	А	В	С	D	E	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	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
* This is the maximum horsepower or torque that can be transmitted through the shaft coupling to the rear pump								



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