ZEUS 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	0.88			
DISPLACEMENT		cu. In./rev. ml/rev.	14.4	
PUMP DELIVERY		GPM	6.67	
@ 1750 RPM	Theoretical	LPM	25.2	
@ 1730 KFIVI		PSI	4500	
	Intermitten*	BAR	310	
OPERATING		PSI	4000	
PRESSURES	Continuous	BAR	276	
TILESSORES		PSI	200	
	Minimum**	BAR	14	
	N/I:	aximum RPM	3000	
OPERATING	IVIC	Rated RPM	1750	
SPEEDS		nimum RPM	500	
INIDI IT DOWN		HP	18	
	INPUT POWER @ 1750 RPM		13.4	
(Rated Flow and Pressure) CASE DRAIN FLOW @		Kw GPM	0.3	
	_	LPM	1.1	
MOUNTING			1.1	
FLANGE		SAE Type	A 2 Bolt	
TEANGE	Keyed Sha	Keyed Shaft SAE J744 A		
DRIVE SHAFT	Reyed Share SAL 1744 A		0.75 .8125	
	Spline	e Shaft SAE B	.0123 13 TOOTH	
		lbs	27	
SHIPPING WEIGHTS	REAR PORTS	kg	12.4	
		lbs	35	
	SIDE PORTS	kg	15.9	
	SIDE PORTS	lbs	37	
	TANDEM	kg	16.8	
	TANDEM	κg	10.0	

^{*} 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 Press			ressure	
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	-3	-0.21	-6.12	-155.46	11.7	0.81	5	0.34
2750	-2.53	-0.17	-4.79	-121.67	12.35	0.8	5	0.34
2900	-0.96	-0.07	-1.97	-49.94	13.74	0.9	5	0.34
3000	0.00	0.00	0.00	0.00	14.7	1.01	5	0.34

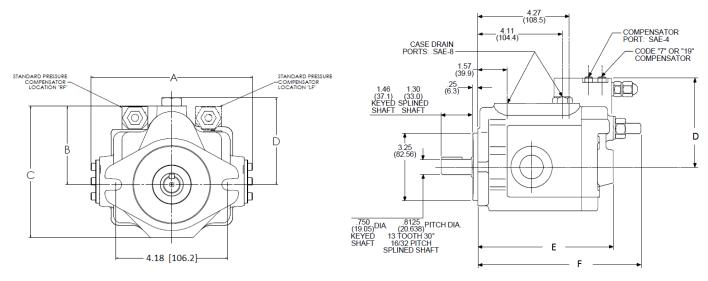
PRESSURE AND VOLUME ADJUSTMENT SENSITIVITY

Pressure Adjustment	Pressure Change / Turn	650 PSI	44.8 Bar
Volume	Flow Change / Turn	0.7 GPM	2.6 LPM
Adjustment	Maximum Torque	28 inlbs	3.2 Nm

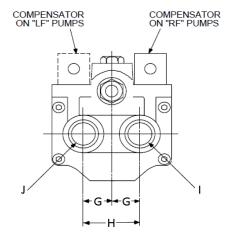
^{**} Pumps operating at less than 150 PSI (10 Bar) may overheat and shorten pump life.



Rear Port Dimension Data



Dimensional Reference Data	Inch (mm)		
Α	6.29 (159.8)		
В	3.09 (78.49)		
С	5.53 (140.5)		
D (STD Pressure Compensator)	3.38 (85.85)		
D (Code 7 Remote & Code 19 Load Sense)	4.56 (115.8)		
D (Code 26 Torque Limit)	9.97 (253.2)		
E	6.92 (175.8)		
F	8.59 (218.2)		



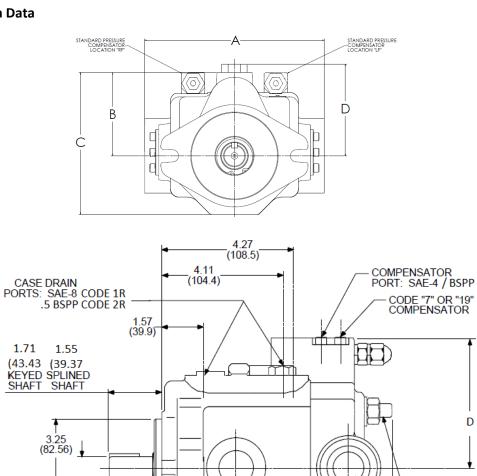
Dimensional Reference Data	Inch (mm)
G	1.125 (28.56)
Н	2.25 (57.15)
I/J Code 1R - Rear SAE Porting	SAE-12
I/J Code 2R- Rear BSPP Porting	3/4 BSPP



Side Port Dimension Data

750 (19.05)DIA. KEYED SHAFT

SPLINED SHAFT



MAXIMUM VOLUME ADJUSTMENT

1/1

Dimensional Reference Data	Inch (mm)	
Α	6.52 (165.6)	
В	3.09 (78.49)	
С	5.53 (140.5)	
D (STD Pressure Compensator)	3.38 (85.85)	
D (Code 7 Remote & Code 19 Load Sense)	4.56 (115.8)	
D (Code 26 Torque Limit)	9.97 (253.2)	
E	6.52 (165.6)	
F	8.24 (209.3)	
I/J Code 1S - Side SAE Porting	SAE-12	
I/J Code 2s- Side BSPP Porting	3/4 BSPP	

Ε

F



