

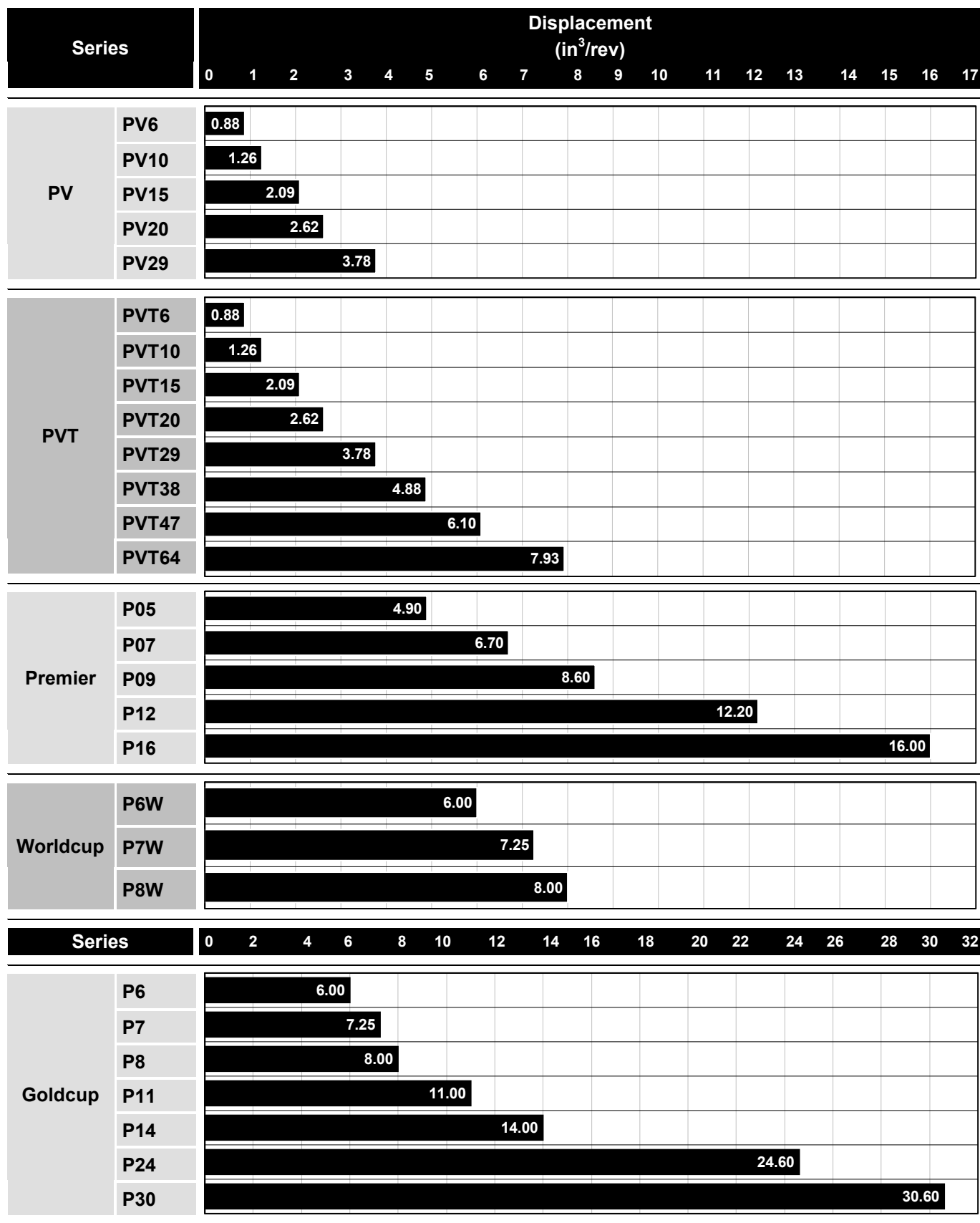
1. Axial Piston Pumps

Series	Model	Maximum Operating Pressure	Maximum Displacement	Remarks	Page
		PSI	ln ³ /rev		
PV & PVM	PV6	4500	0.88	• Threaded rear ports. • PV : Industrial • PVM : Mobile (high speed)	1 - 4
	PV10	4500	1.26		
	PV15	4500	2.09		
	PV20, PVM20 ¹	4500	2.62		
	PV29	4000	3.78		
PVT & PVR	PVT6	4500	0.88	• Open loop. • Side ports, SAE 4 bolts. • Optional rear drive. • PVT : Industrial • PVR : Mobile (high speed)	1 - 6
	PVT10	4500	1.26		
	PVT15	4500	2.09		
	PVT20, PVR20 ¹	4500	2.62		
	PVT29	4000	3.78		
	PVT38	4350	4.88		
	PVT47	4350	6.10		
	PVT64	4350	7.93		
Premier	P05	7200	4.90	• Open loop. • Metric dimensions. • Optional rear drive (full torque capability).	1 - 10
	P07	7200	6.70		
	P09	7200	8.60		
	P12	7200	12.20		
	P16	7200	16.00		
Worldcup	P6W	6000	6.00	• Open loop. • Optional rear drive.	1 - 14
	P7W	6000	7.25		
	P8W	4500	8.00		
Goldcup	P6	6000	6.00	• Transmission pumps. • Integrated package. • Optional rear drive (full torque capability). • Other versions² available.	1 - 16
	P7	6000	7.25		
	P8	4500	8.00		
	P11	6000	11.00		
	P14	6000	14.00		
	P24	5000	24.60		
	P30	5000	30.60		

¹ Higher speed capability : consult Denison Hydraulics.

² Open loop (P6V, P7V, P11V, P14V) : consult Denison Hydraulics.
Fixed displacement (P6F, P7F, P8F) : consult Denison Hydraulics.

Axial Piston Pumps - Product Range Overview

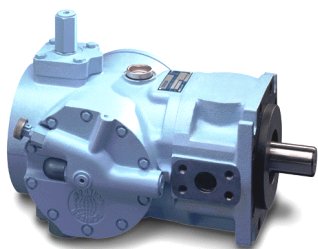


Size	Maximum Pressure ¹			Maximum speed ² <i>rpm</i>	Weight <i>lbs.</i>	Mounting	Page
	Intermittent	Continuous	Case				
	<i>PSI</i>	<i>PSI</i>	<i>PSI</i>				
PV6	4500	3500	10	3000	24	SAE-A - 2 bolts	1 - 4
PV10	4500	3500	10	2800	35	SAE-B - 2 bolts	
PV15	4500	3500	10	2500	44	SAE-B - 2 bolts	
PV20	4500	3500	10	2300 ³	57	SAE-C - 2 bolts	
PV29	4000	3000	10	2300	73	SAE-C - 2 bolts	
PVT6	4500	3500	10	3000	31	SAE-A - 2 bolts	1 - 6
PVT10	4500	3500	10	2800	44	SAE-B - 2 bolts	
PVT15	4500	3500	10	2500	55	SAE-B - 2 bolts	
PVT20	4500	3500	10	2300 ³	71	SAE-C - 2 bolts	
PVT29	4000	3000	10	2300	93	SAE-C - 2 bolts	
PVT38	4300	4000	7	1800	110	SAE-C - 4 bolts	
PVT47	4300	4000	7	1800	157	SAE-C - 4 bolts	
PVT64	4300	4000	7	1800	209	SAE-D - 4 bolts	
P05	7200	6000	25	2550	157	SAE-D - 4 bolts	1 - 10
P07	7200	6000	25	2450	176	SAE-D - 4 bolts	
P09	7200	6000	25	2300	221	SAE-D - 4 bolts	
P12	7200	6000	25	2100	300	SAE-E - 4 bolts	
P16	7200	6000	25	1850	324	SAE-E - 4 bolts	
P6W	6000	5000	25	2050	179	SAE-D - 4 bolts	1 - 14
P7W	6000	5000	25	1950	179	SAE-D - 4 bolts	
P8W	4500	4500	25	1800	179	SAE-D - 4 bolts	
Size	PSI	PSI	PSI	rpm	Lbs.	Mounting	Page
P6	6090	5000	75	3000	154	SAE-C - 2 bolts, SAE-D - 4 bolts	1 - 16
P7	6090	5000	75	3000	154	SAE-C - 2 bolts, SAE-D - 4 bolts	
P8	4500	3600	75	2100	154	SAE-C - 2 bolts, SAE-D - 4 bolts	
P11	6000	5000	75	2400	300	SAE-E - 4 bolts	
P14	6000	5000	75	2400	300	SAE-E - 4 bolts	
P24	5000	5000	75	2100	650	SAE-F - 4 bolts	
P30	5000	5000	75	1800	670	SAE-F - 4 bolts	

¹ For use with mineral oil. Other fluids, consult Denison Hydraulics.

² At atmospheric inlet pressure (15 PSI absolute). For higher speed operation, consult Denison Hydraulics.

³ PVM20, PVR20 : 2600 rpm.

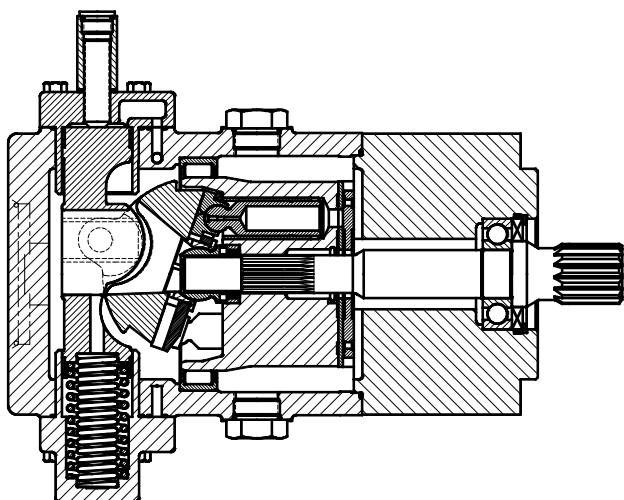


Worldcup Series

P6W - 6.00 in³/rev, 6000 PSI

P7W - 7.25 in³/rev, 6000 PSI

P8W - 8.00 in³/rev, 4500 PSI



Key Sheet Example : **P7W-1R1B-C00-BB0**

1. **P7W-1R1B-C00-BB0** Series

In ³ /rev	6.00	7.25	8.00
Series	P6W	P7W	P8W

2. **P7W-1R1B-C00-BB0** Shaft

SAE Splined	1
Keyed	2

3. **P7W-1R1B-C00-BB0** Rotation

CW	R
CCW	L

4. **P7W-1R1B-C00-BB0** Seal Class

Buna N : mineral oil	1
Viton : mineral oil & fire resistant fluid ¹⁾	5

¹⁾ Not available with E control.

5. **P7W-1R1B-C00-BB0** Design

6. **P7W-1R1B-C00-BB0** Primary controls

7. **P7W-1R1B-C00-BB0** Control Option

8. **P7W-1R1B-C00-BB0** Secondary controls

None	0
Pressure compensator override	P
Torque limiter override	T

9. **P7W-1R1B-C00-BB0** Rear drive

Rear drive	P6W	P7W	P8W
None	0	0	0
SAE	B, BB, C, D	B, BB, C, D	B, BB

10. **P7W-1R1B-C00-BB0** Rear pump

Rear pump not mounted (or none)	0
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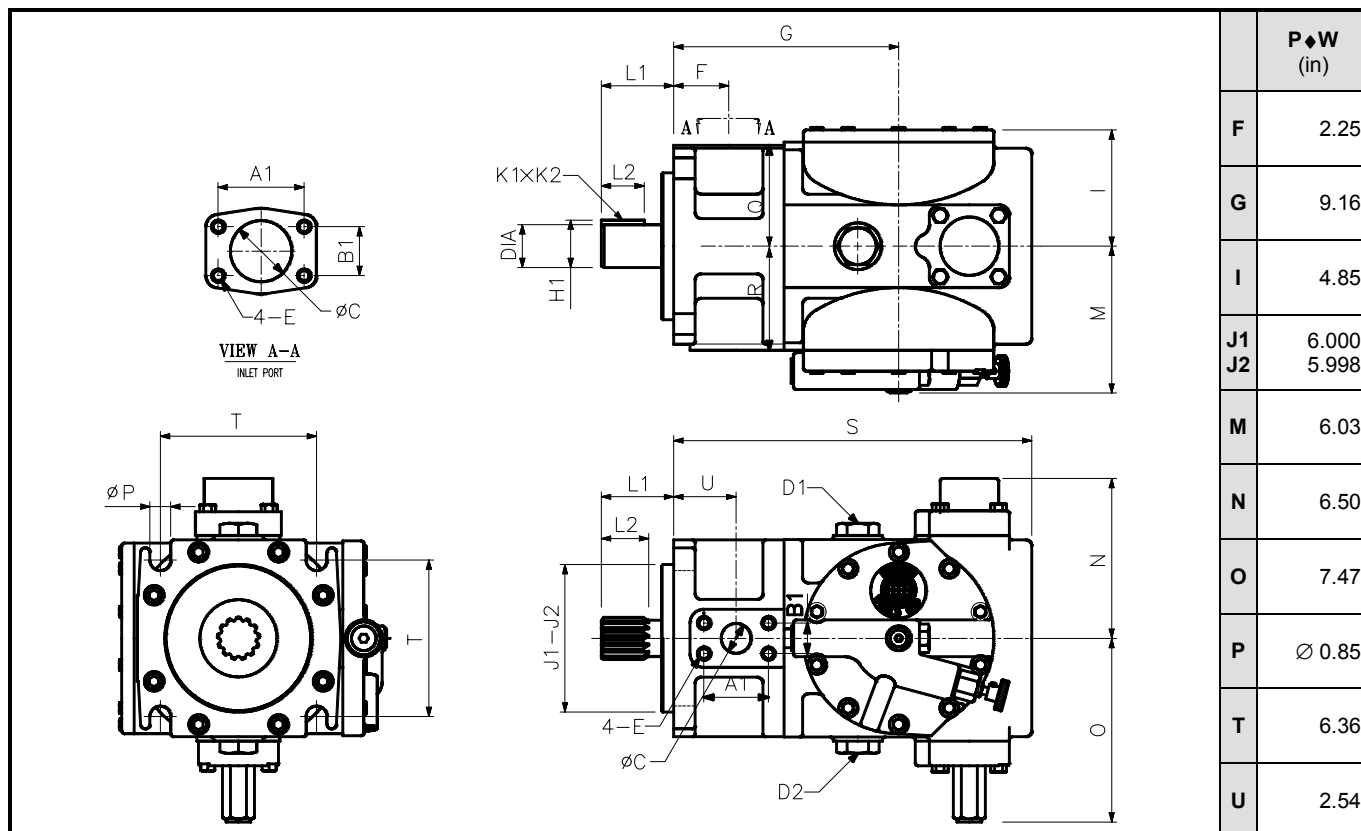
Controls (P7W-1R1B-C00-BB0)

C : Compensator	E : Electric stroker	H : Hydraulic stroker
Minimum compensated pressure : 150 PSI	Servo (to be supplied externally) : Minimum pressure : 300 PSI (above case pressure) Command signal (typical) 35 mA - 275 mA Driver card : S20-11712	External command signal : 75 - 330 PSI Recommended pilot valve : 4RP01

T : Torque limiter	L : Load sensing	R : Rotary servo
	Minimum settings : 150 PSI Differential pressure : 350 - 450 PSI	Servo (to be supplied externally) : Minimum pressure : 300 PSI (above case pressure)

Allowable controls & option combinations.....(P7W-1R1B-**C00**-BB0)

Options	Primary Controls					
	C Compensator	E Electric stroker	H Hydraulic stroker	T Torque limiter	L Load sensing	R Rotary servo
0 - None	C00			T00	L00	R00, R0P, R0T
1 - Standard max. volume screw adjustment	C10			T10	L10	
2 - Handwheel max. volume screw adjustment	C20			T20	L20	
4 - Min. / max. volume screw adjustment		E40, E4P, E4T	H40, H4P, H4T			R40, R4P, R4T



Shafts		Torque limits (in-lbs.)	Dimensions				
			L1	L2	Ø DIA	K1 x K2	H1
2	Keyed : SEA-D (Ø44)	11000	2.94	1.75	1.750 - 1.748	0.438 x 0.437	1.94
1	Splined : SAE-D	11000	2.94	1.92	Side fit, 30° angle, 8/16 pitch - 13 teeth		

Ports			Dimensions				
			A1	B1	Ø C	Q / R	Threads - E
P6W P7W P8W	P	SAE-62 : 1 ¼"	2.63	1.24	1.25	4.25	½ - 13 UNC x 1.06
	S	SAE-61 : 2 ½"	3.50	2.00	2.50	4.12	½ - 13 UNC x 1.06
	V	SAE	SAE-6				
	D1 / D2	SAE	SAE-16				

Rear Drive.....(P7W-1R1B-C00-**BB0**)

Rear drive size	Length S	Rear coupling		P6W	P7W	P8W
		Size	Max. Torque (in-lbs.)			
None	14.58	-	-	0	0	0
SAE-B	14.46	SAE-B	1850	B	B	B
		SAE-BB	2991	BB	BB	BB
SAE-C	18.12	SAE-C	9000	C	C	-
SAE-D	18.14	SAE-D	9000	D	D	-