Single Vane Pump
HV10 Series

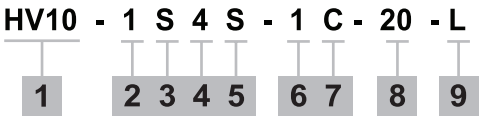
Specifications

Model	Ring Size Delivery at 1200 r/min & 7 bar (100 psi) USgpm	Geometric Displacement cm³/r (in³/r)	Delivery at 1500 r/min & 7 bar (100 psi) L/min (USgpm)	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	Max. Speed rpm	Min. Speed rpm	Weight kg (lb)
HV 10	1	3.3 (0.20)	4.70 (1.25)	175 (2500)	160 (2250)	4800	650	5.4 - 5.8 (11.88 - 12.76)
	2	6.6 (0.40)	9.40 (2.50)			4500		
	3	9.8 (0.60)	14.20 (3.75)			4000		
	4	13.1 (0.80)	18.90 (5.00)			3400		
	5	16.4 (1.00)	23.60 (6.25)			3200		
	6	19.5 (1.19)	28.40 (7.50)	150 (2200)	140 (2000)	3000		
	7	22.8 (1.39)	33.10 (8.75)	140 (2000)	140 (2000)	2800		

** A transient (peak) pressure 10% over the continuous pressure rating for 0.5 seconds or less duration is allowed.*

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Ordering Code : Single Pump



1. Model :
   HV10 - Standard Cover
   SAE A 2 bolts mounting flange J744
2. Mounting
   1 - Bolt Flange

3. Inlet Port Connection
   S - 1" 5/16 - 12 UN(SAE#16)
   P - 1" NPT
   B - 1" BSP

4. Displacement (at 1200 rpm)
   Volumetric displacement cm³/rev (in³/rev)
   1 - 3.3 (0.20)
   2 - 6.6 (0.40)
   3 - 9.8 (0.60)
   4 - 13.1 (0.80)
   5 - 16.4 (1.00)
   6 - 19.5 (1.19)
   7 - 22.8 (1.39)

5. Outlet Port Connection
   S - 3/4" - 16 UNF(SAE#8)
   P - 1/2" NPT
   B - 1/2" BSP

6. Type of shaft
   1 - Straight Keyed Shaft
   3 - Threaded with woodruff Keyed Shaft
   11 - Splined Shaft
   12 - Splined Shaft
   38 - Splined Shaft

7. Outlet Port Position (Viewed from cover end)
   A - Opposite inlet
   B - 90° CCW from inlet
   C - Inline with inlet
   D - 90° CW from inlet

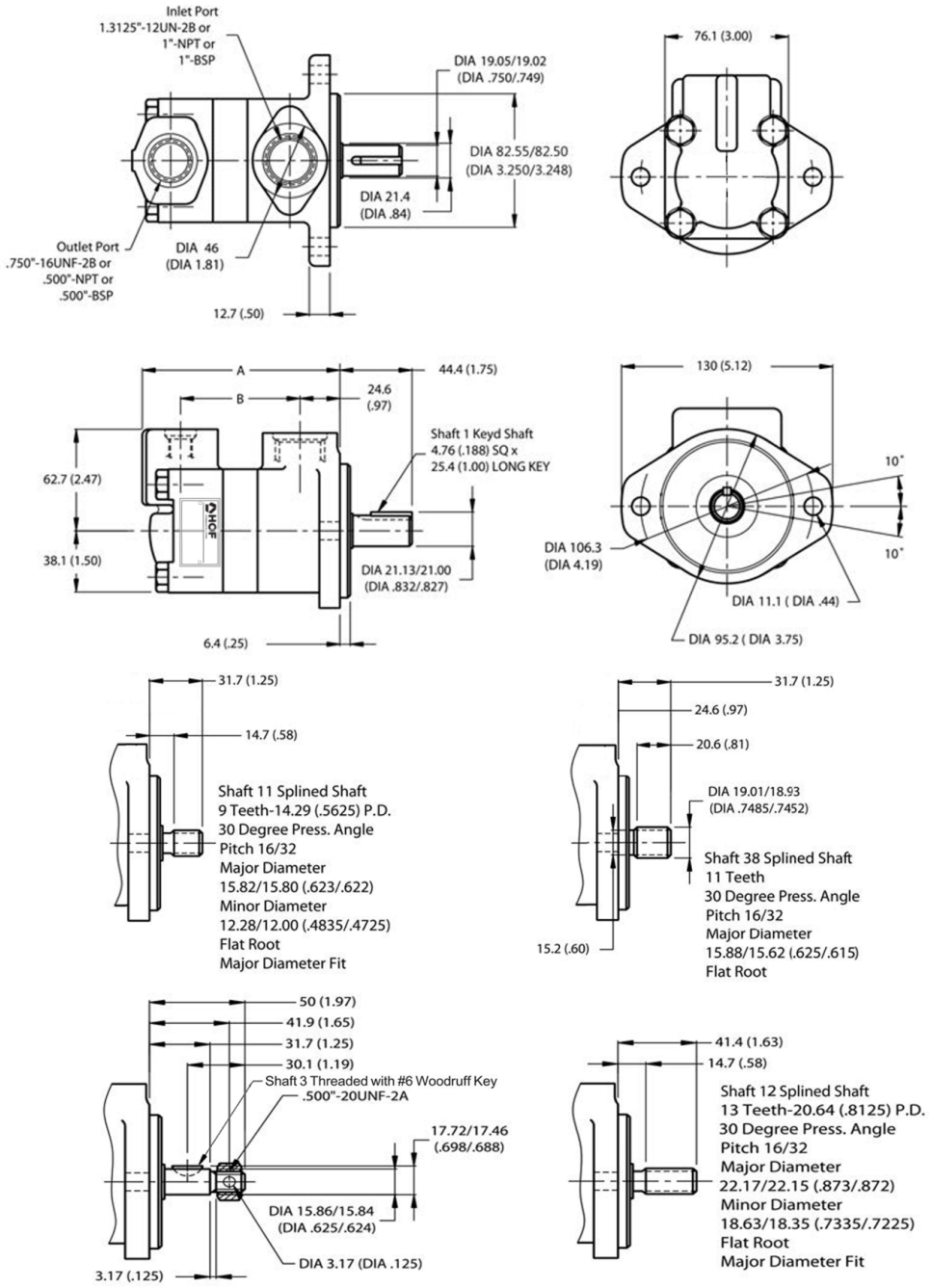
8. Design
   Subject to change. Installation dimension remain the same for designs - 20 through -29

9. Shaft Rotation (viewed from shaft end)
   R - Turn right
   L - Turn left

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Installation Dimension mm (inch)

HV10



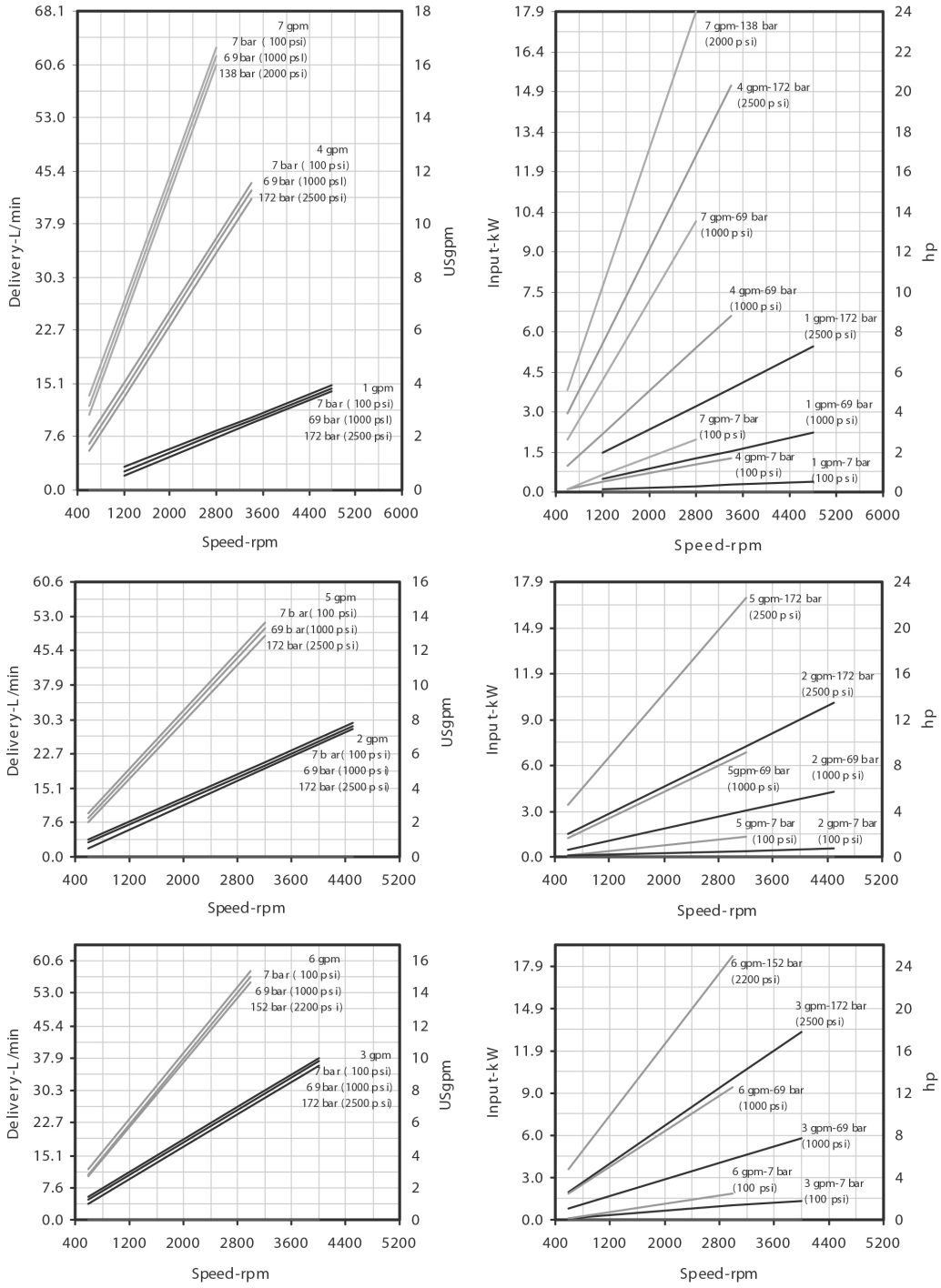
Delivery @ 1200 rpm & 7 bar (100psi)	Dimension	
	A	B
1, 2, 3	115.6 (4.55)	67.3 (2.65)
4, 5	121.9 (4.80)	73.7 (2.90)
6, 7	127.0 (5.00)	78.7 (3.10)

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Performance Characteristics

HV10, Cover End of HV2010

Based on viscosity 32 cSt (150 SSU) oil at 49°C (120°F) and pump inlet at 0 PSIG (14.7 PSIA)



For the Cover End cartridge, the speed could not exceed the maximum speed of the shaft End Cartridge.