

HV20 Series



Specifications

Model	Ring Size Delivery at 1200 r/min & 7 bar (100 psi)	Geometric Displacement	Delivery at 1500 r/min & 7 bar (100 psi)	Maximum Pressure	Maximum Speed	Minimum Speed	Weight
	USgpm	cm ³ /r (in ³ /r)	L/min (USgpm)	bar (psi)	rpm	rpm	kg (lb)
HV 20	5	16.4 (1.00)	23.60 (6.25)	172 (2500)	3400	650	HV20 7.50 - 8.50 (16.50 - 18.70)
	6	19.5 (1.19)	28.39 (7.50)		3400		
	7	22.8 (1.39)	33.11 (8.75)		3000		
	8	26.5 (1.62)	37.85 (10.00)		2800		
	9	29.7 (1.81)	42.57 (11.25)		2800		
	10	34.1 (2.08)	47.30 (12.51)		2500		
	11	36.4 (2.22)	52.04 (13.75)		2500		
	12	39.0 (2.38)	56.77 (15.00)	152 (2200)	2400		HV20F, HV20P 9.30 - 10.60 (20.46 - 23.32)
	13	42.4 (2.59)	61.50 (16.25)		2400		



HV20 Series



Ordering Code : Single Pump

HV20 - 1 S 9 S - 1 C - 20 - L

1	2	3	4	5	6	7	8	9
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1. Model :

HV20 - Standard Cover
SAE A 2 bolts mounting flange J744

2. Mounting

1 - Bolt Flange

3. Inlet Port Connection

S - 1" 5/8 - 12 UN(SAE#20)
P - 1" 1/4 NPT
B - 1" 1/4 BSP

4. Displacement (at 1200 rpm)

Volumetric displacement cm³/rev (in³/rev)

5 - 16.4 (1.00)
6 - 19.5 (1.19)
7 - 22.8 (1.39)
8 - 26.5 (1.62)
9 - 29.7 (1.81)
10 - 34.1 (2.08)
11 - 36.4 (2.22)
12 - 39.0 (2.38)
13 - 42.4 (2.59)

5. Outlet Port Connection

S - 1" 1/16 - 12 UN(SAE#12)
P - 3/4" NPT
B - 3/4" BSP

6. Type of shaft

1 - Straight Keyed Shaft
3 - Threaded with woodruff Keyed Shaft
6 - Woodruff Keyed stub Shaft
11 - Splined Shaft
15 - Splined Shaft
38 - Splined Shaft
62 - Splined Shaft
123 - Threaded with woodruff Keyed 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

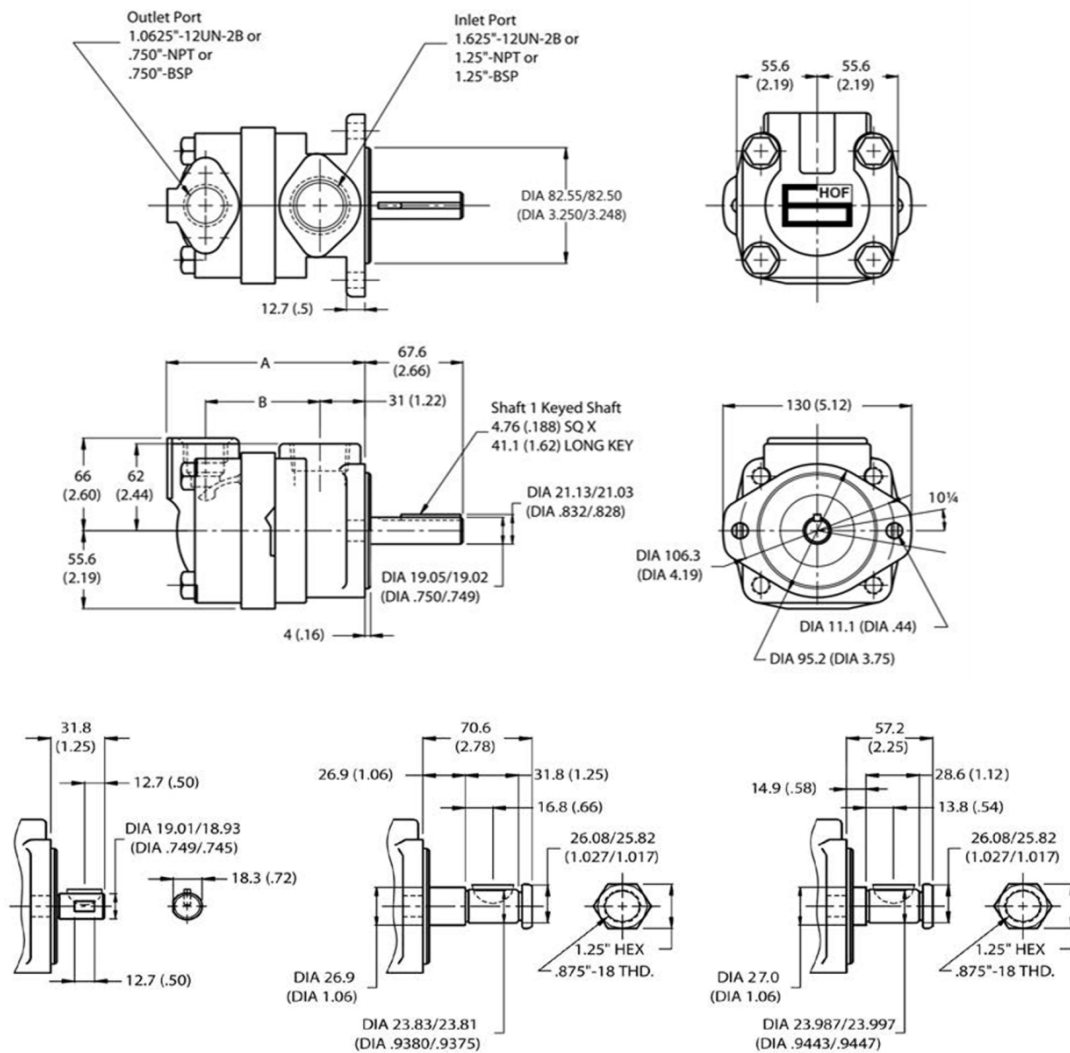


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Installation Dimension mm (inch)

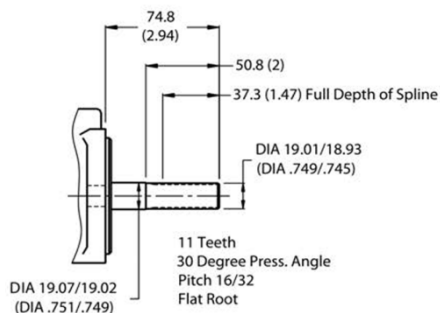
HV20



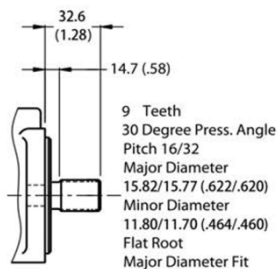
Shaft 6 Straight Stub Keyed Shaft Shaft 3 Threaded with #6 Woodruff Key Shaft 123 Threaded with #13 Woodruff Key



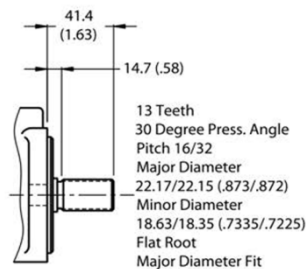
HV20 Series



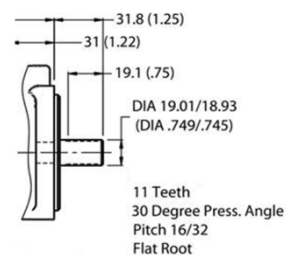
Shaft 11 Splined Shaft 11 Teeth



Shaft 62 Splined Shaft 9 Teeth



Shaft 15 Splined Shaft 13 Teeth



Shaft 38 Splined Shaft 11 Teeth

Delivery @ 1200 rpm & 7 bar (100psi)	Dimension	
	A	B
5, 6	125.2 (4.93)	71.1 (2.80)
7, 8, 9	131.6 (5.18)	77.5 (3.05)
10, 11	136.7 (5.38)	82.6 (3.25)
12, 13	140.2 (5.52)	86.1 (3.39)

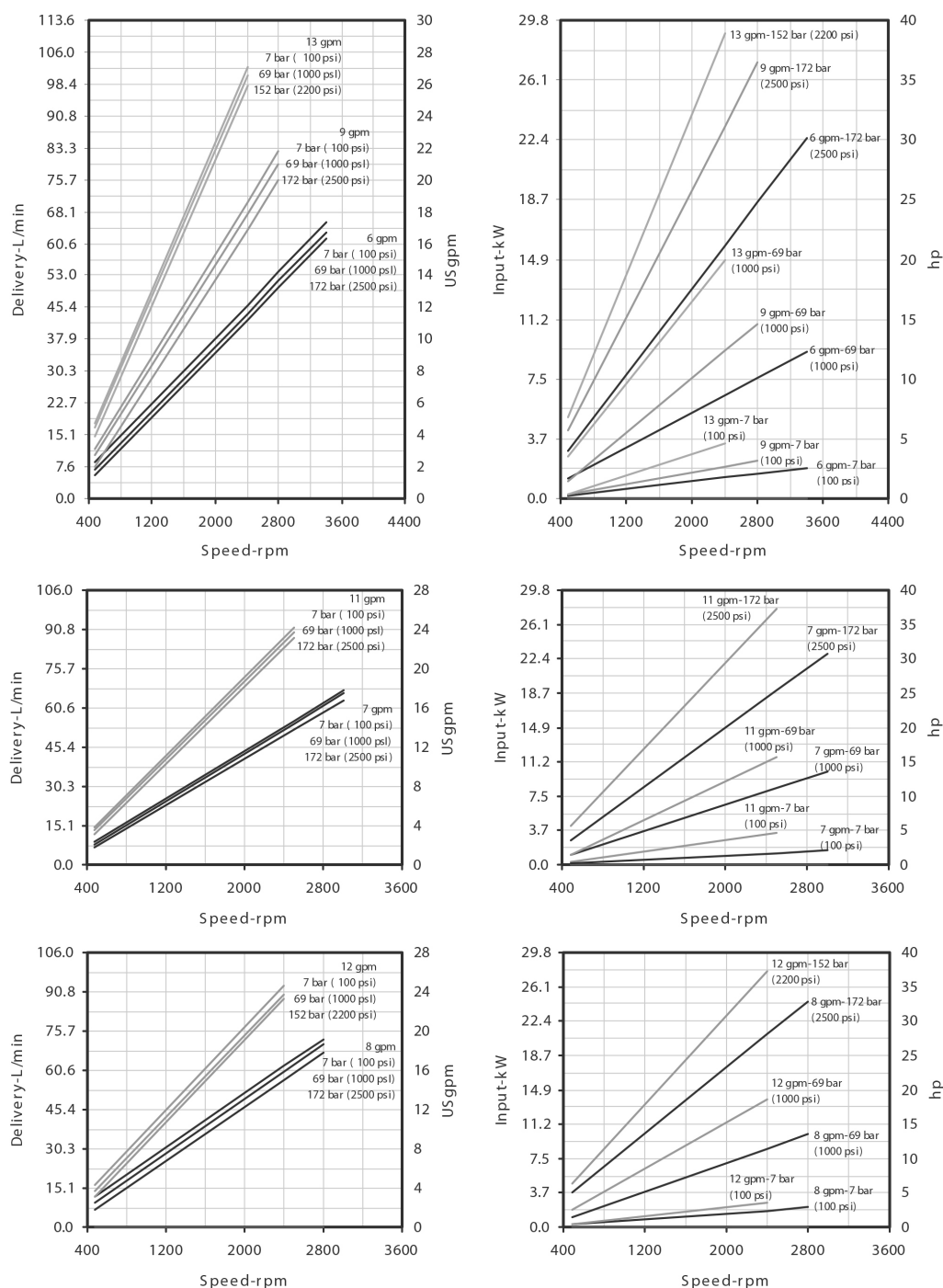
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Performance Characteristics

HV20, Shaft End of HV20, Cover End of HV2020

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.