High Performance Single Vane Pump 20 HV/HVQ Series

Specifications :

20 HV Series

Model	Delivery at 1200 r/min & 7 bar (100 psi) USgpm	Displacement cm³/r (in³/r)	Maximum Speed rpm	Maximum Pressure bar (psi)	Typical Delivery at max speed & pressure L/min (USgpm)	Typical Input Power at max speed & pressure kW (hp)	Weight kg (lb)
20HV	2	7.0 (0.42)	1800	206 (3000)	11.3 (3.0)	5.2 (7.0)	12.5 (27.5)
	5	18 (1.10)			28.4 (7.5)	11.2 (15.0)	
	8	27 (1.67)			45.4 (12.0)	17.0 (22.8)	
	9	30.2 (1.84)			51.0 (13.5)	18.7 (25.1)	
	11	36 (2.22)			56.8 (15.0)	22.6 (30.3)	
	12	40 (2.47)		158 (2300)	60.9 (16.1)	19.3 (25.83)	
	14	45 (2.78)		138 (2000)	71.3 (18.85)	18.9 (25.28)	

20 HVQ Series

Model	Delivery at 1200 r/min & 7 bar (100 psi) USgpm	Displacement cm³/r (in³/r)	Maximum Speed rpm	Maximum Pressure bar (psi)	Typical Delivery at max speed & pressure L/min (USgpm)	Typical Input Power at max speed & pressure kW (hp)	Weight kg (lb)
20HVQ	2	7.0 (0.42)	2700	206 (3000)	15.9 (4.2)	7.3 (9.8)	12.5 (27.5)
	5	18 (1.10)			41.6 (11.0)	17.9 (24.0)	
	8	27 (1.67)			64.3 (17.0)	26.1 (35.0)	
	9	30.2 (1.84)			71.5 (18.9)	32.9 (44.1)	
	11	36 (2.22)			87.1 (23.0)	35.4 (47.5)	
	12	39 (2.41)		158 (2300)	96.5 (25.5)	28.3 (38.0)	
	14	45 (2.80)		138 (2300)	113.6 (30.9)	29.1 (39.0)	

High Performance Single Vane Pump
20 HV/HVQ Series

Ordering Code : Single Pump

20 HVQ	-	11	A	-	1	C	20	L
1		2	3		4	5	6	7	8

1. Model :
   - 20 - Standard Bearing
   - 21 - Heavy Duty Bearing
     SAE B 2 bolts mounting flange J744

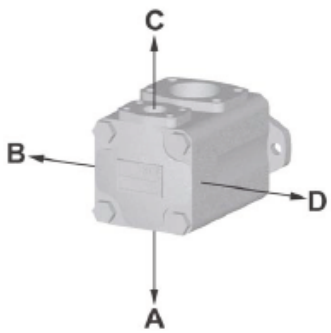
2. Series
   - HV - Industrial
   - HVQ - Mobile

3. Displacement
   Volumetric displacement cm³/rev (in³/rev)
   - 02 - 7.0 (0.43)
   - 05 - 18.0 (1.10)
   - 08 - 27.3 (1.67)
   - 09 - 30.3 (1.85)
   - 11 - 36.3 (2.22)
   - 12 - 40.4 (2.47)
   - 14 - 45.5 (2.78)

4. Port Connection (4 bolts SAE flange J518C)
   - A - UNC Port Connection
   - AM - Metric Port Connection

5. Type of shaft
   - 1 - Straight Keyed Shaft
   - 151 - Splined Shaft

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



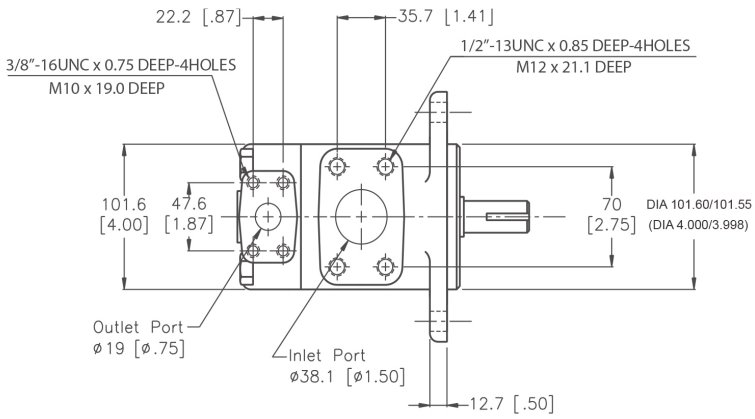
7. Design
   Subject to change. Installation dimension remain the same for designs - 20 through -29

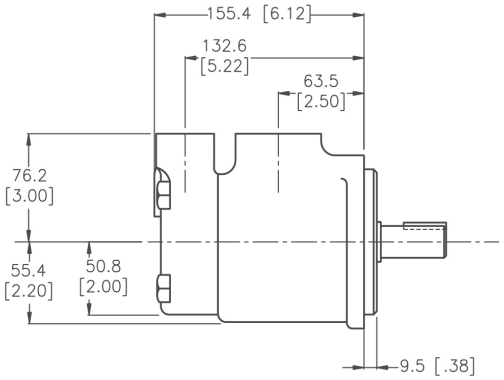
8. Shaft Rotation (viewed from shaft end)
   - R - Turn right
   - L - Turn left

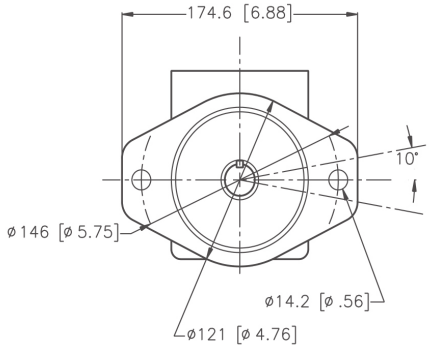
High Performance Single Vane Pump
20 HV/HVQ Series

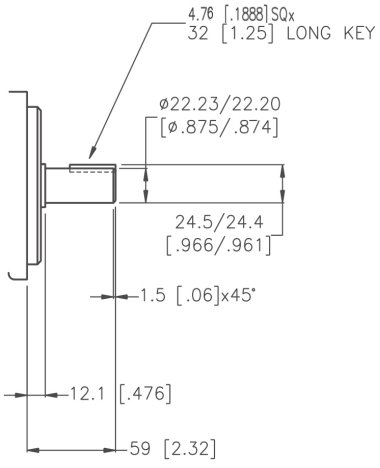
Installation Dimension mm (inch)

Single Pump 20HV/HVQ

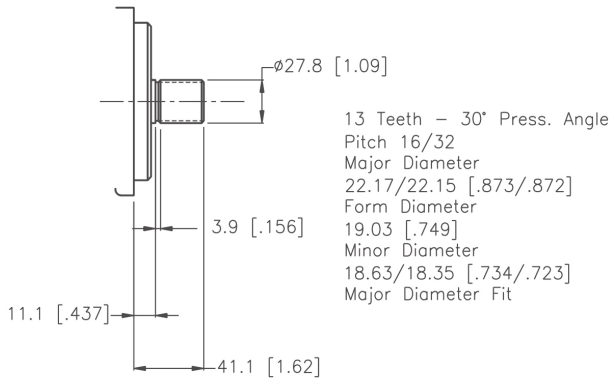








Shaft 1
Keyed Shaft



Shaft 151
Splined Shaft

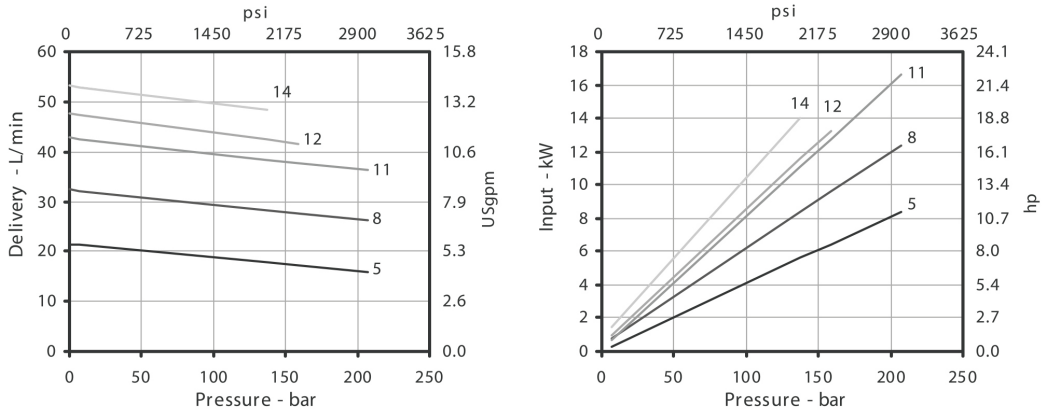
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Performance Characteristics

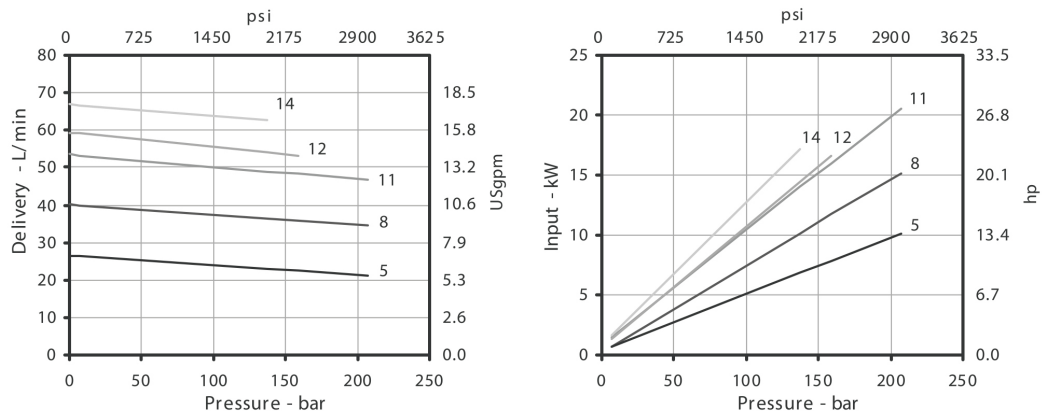
20HV, Cover End of 20HV

Based on SAE 10W Fluid at 50°C (120°F) and pump inlet at 0 PSIG (14.7 PSIA)

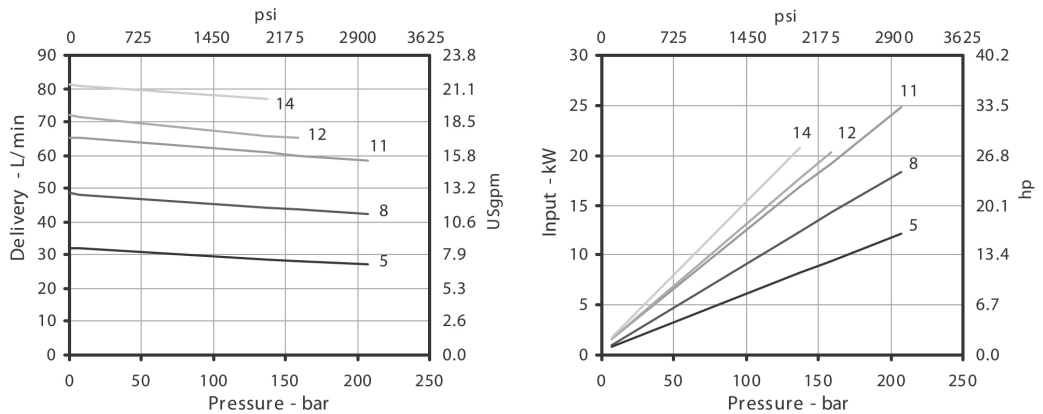
At 1200 rpm



At 1500 rpm



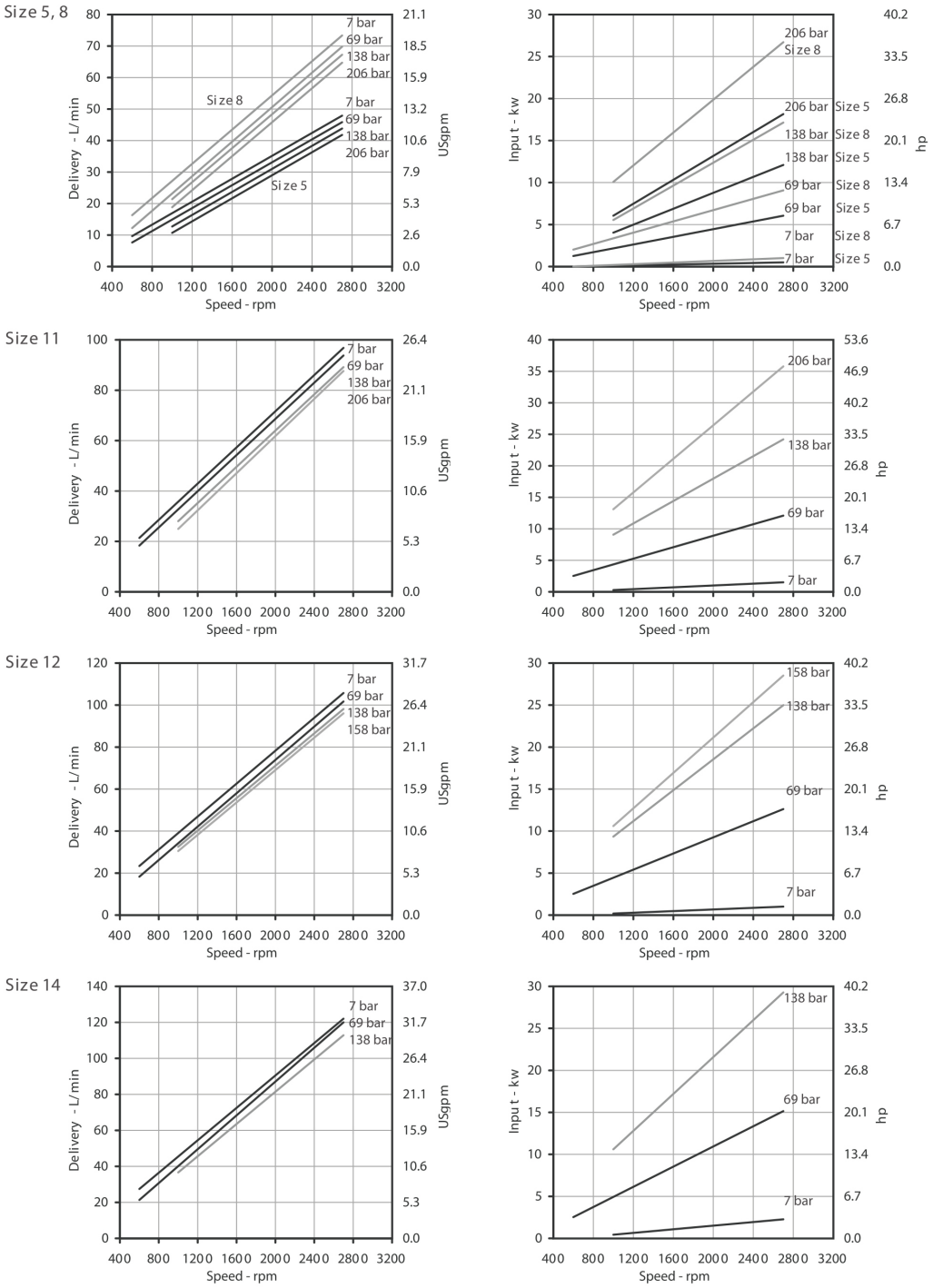
At 1800 rpm



High Performance Single Vane Pump
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20HVQ, Cover End of 20HVQ

Based on SAE 10W Fluid at 82°C (180°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