High Performance Single Vane Pump 25 HV/HVQ Series

Specifications :

25 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)
25HV	12	39 (2.47)	1800	172 (2500)	62.1 (16.4)	22.9 (30.8)	14.8 (32.5)
	14	45 (2.78)			69.6 (18.4)	25.7 (34.5)	
	17	55 (3.39)			86.3 (22.8)	29.8 (40.0)	
	19	60.8 (3.72)			96.1 (25.4)	32.5 (43.5)	
	21	67 (4.13)			106.0 (28.0)	34.0 (45.6)	

25 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)
25HVQ 26HVQ	12	40 (2.45)	2700	206 (3000)	87.1 (23.0)	41.0 (55.0)	14.8 (32.5)
	14	45 (2.77)			102.2 (27.0)	46.6 (62.5)	
	17	55 (3.37)	2500		117.3 (31.0)	51.8 (69.5)	
	19	60.8 (3.72)			133.5 (34.5)	53.0 (71.0)	
	21	67 (4.12)			143.8 (38.0)	61.9 (83.0)	

High Performance Single Vane Pump
25 HV/HVQ Series

Ordering Code : Single Pump

25	HVQ	-	17	A	-	1	C	20	L
1	2		3	4		5	6	7	8

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

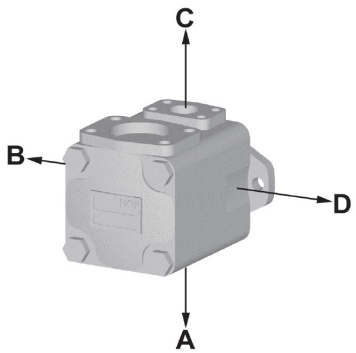
2. Series
   - HV - Industrial (Except 26)
   - HVQ - Mobile

3. Displacement
   Volumetric displacement cm³/rev (in³/rev)
   - 12 - 39.0 (2.47)
   - 14 - 45.0 (2.78)
   - 17 - 55.3 (3.39)
   - 19 - 60.8 (3.72)
   - 21 - 67.0 (4.13)

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

5. Type of shaft
   - 1 - Straight Keyed Shaft
   - 11 - Splined Shaft
   - 86 - Heavy Duty Straight Keyed 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



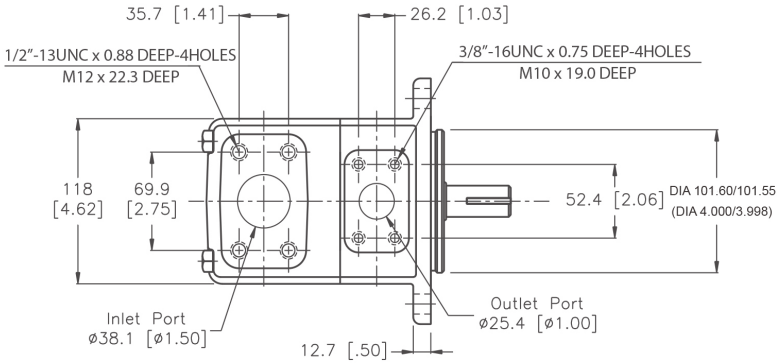
7. Design
   Subject to change. Installation dimension remain the same for designs - 20 through -29

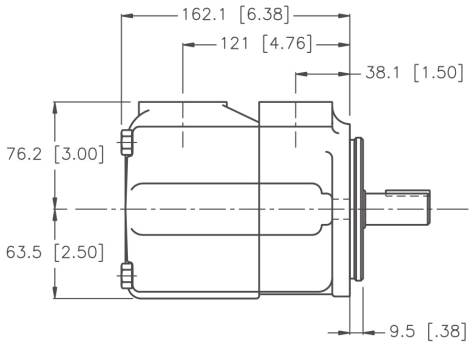
8. Shaft Rotation (viewed from shaft end)
   - R - Turn right
   - L - Turn left

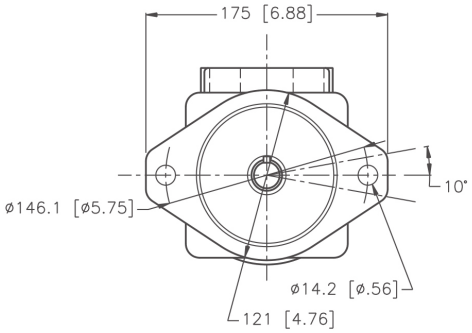
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25 HV/HVQ Series

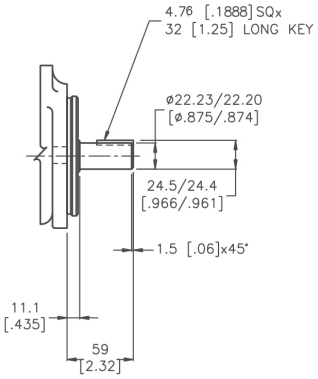
Installation Dimension mm (inch)

Single Pump 25HV/HVQ

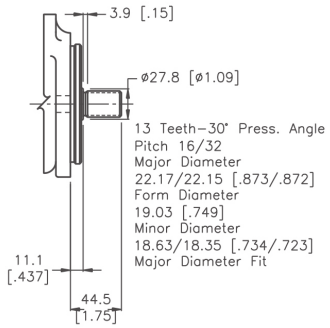




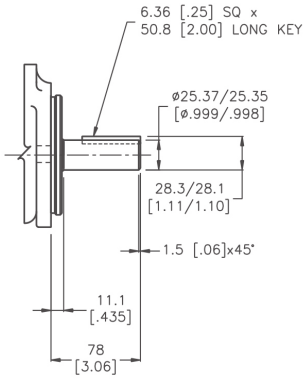




Shaft 1
Keyed Shaft



Shaft 11
Splined Shaft



Shaft 86
Heavy Duty Keyed Shaft

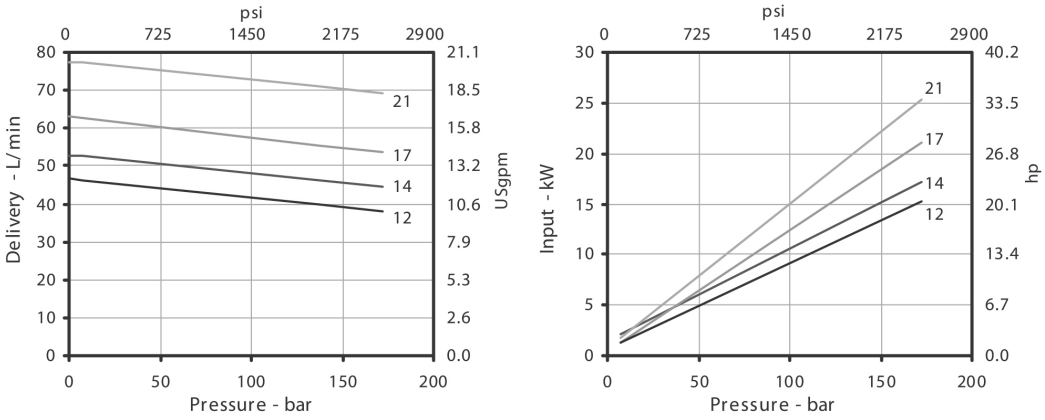
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Performance Characteristics

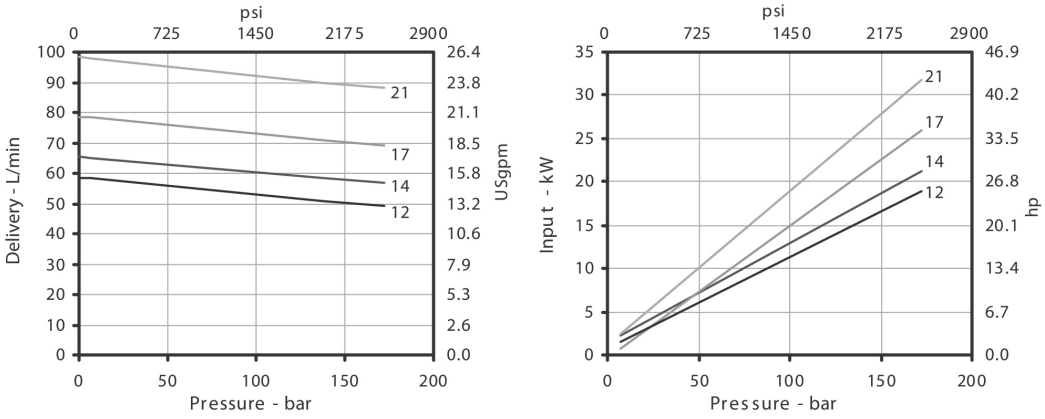
25HV, Shaft End of 25HV, Cover End of 25HV

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

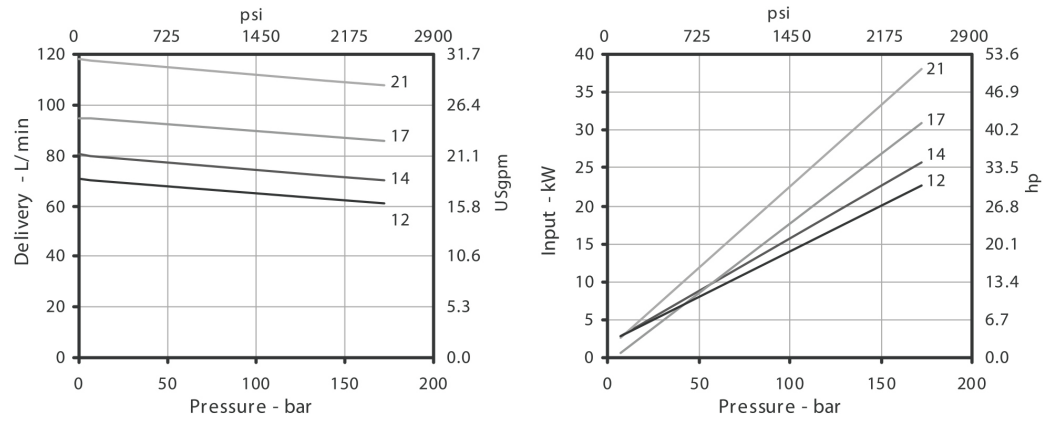
At 1200 rpm



At 1500 rpm



At 1800 rpm

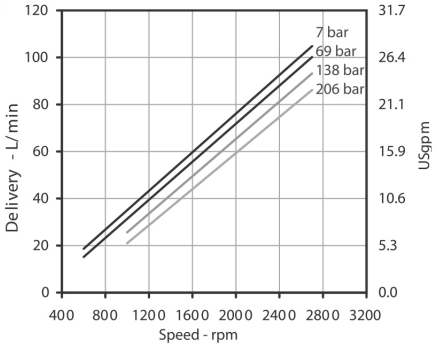


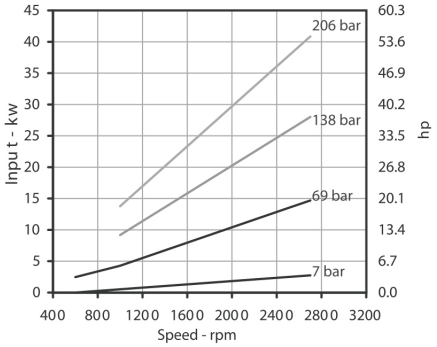
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25 HV/HVQ Series

25HVQ, Shaft End of 25HVQ, Cover End of 25HVQ

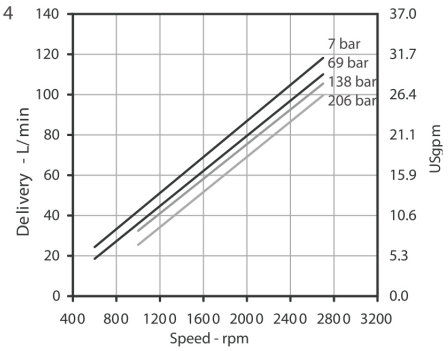
Based on SAE 10W Fluid at 50°C (120°F) and pump inlet at 0 PSIG (14.7 PSIA)

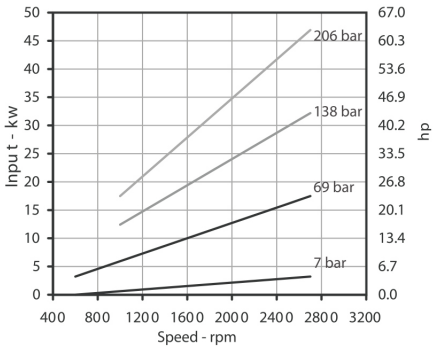
Size 12



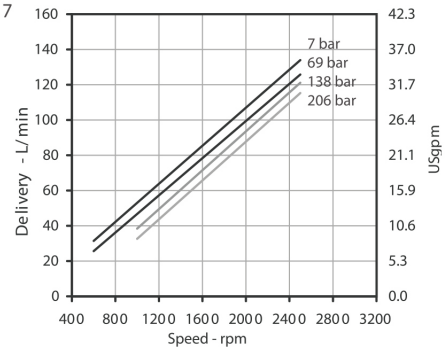


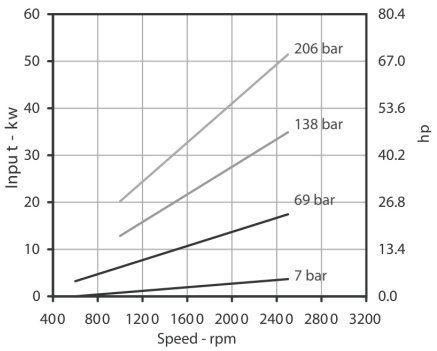
Size 14



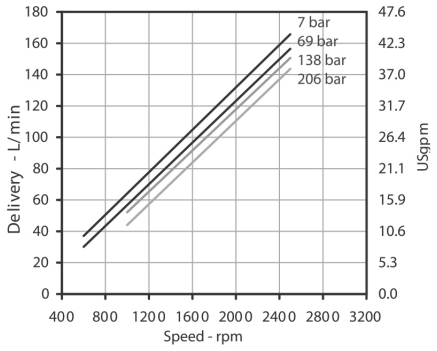


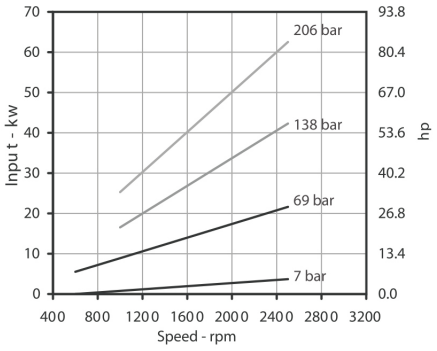
Size 17





Size 21





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