High Performance Single Vane Pump 35 HV/HVQ Series

Specifications :

35 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)
35HV	21	68.3 (4.18)	1800	172 (2500)	106.3 (28.1)	34.0 (45.5)	24.0 (52.8)
	25	81 (4.94)			124.9 (33.0)	45.5 (61.0)	
	30	97 (5.91)			154.4 (40.8)	54.5 (73.0)	
	32	100.9 (6.15)			167.0 (44.0)	56.7 (76.0)	
	35	112 (6.83)			181.7 (48.0)	61.5 (82.4)	
	38	121 (7.37)			193.8 (51.2)	65.9 (88.3)	

35 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)
35HVQ 36HVQ	21	68.3 (4.18)	2500	206 (3000)	143.8 (38.0)	55.0 (73.9)	24.0 (52.8)
	25	81 (4.98)			170.3 (45.0)	75.3 (101.0)	
	30	97 (5.96)			208.2 (55.0)	87.7 (117.5)	
	32	100.9 (6.15)	2400		218.0 (57.6)	91.2 (122.3)	
	35	112 (6.88)			227.1 (60.0)	98.5 (132.0)	
	38	121 (7.42)			246.0 (65.0)	104.4 (140.0)	

High Performance Single Vane Pump
35 HV/HVQ Series

Ordering Code : Single Pump

35	HVQ	-	30	A	-	1	C	20	L
1	2		3	4		5	6	7	8

1. Model :
   - 35 - Standard Bearing
   - 36 - Heavy Duty Bearing
     SAE C 2 bolts mounting flange J744

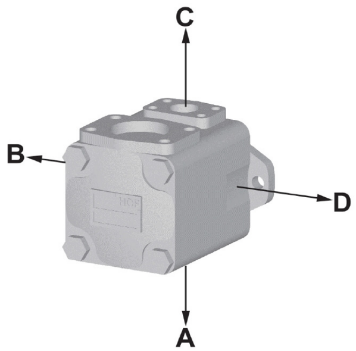
2. Series
   - HV - Industrial (Except 36)
   - HVQ - Mobile

3. Displacement
   Volumetric displacement cm³/rev (in³/rev)
   - 21 - 68.3 (4.18)
   - 25 - 81.0 (4.94)
   - 30 - 97.0 (5.91)
   - 32 - 100.9 (6.15)
   - 35 - 112.0 (6.83)
   - 38 - 121.0 (7.37)

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



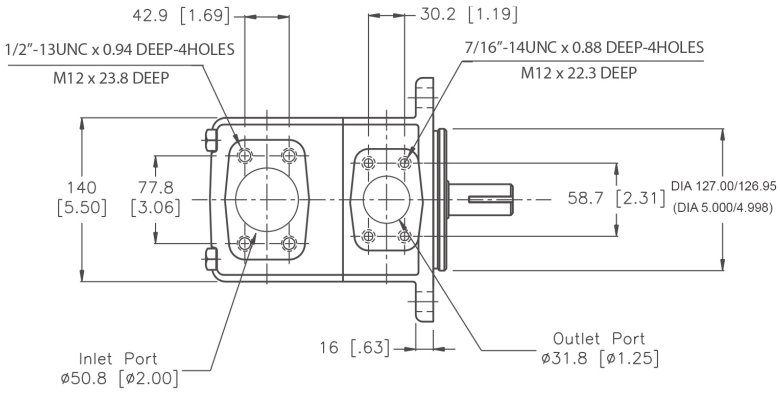
7. Design
   Subject to change. Installation dimension remain the same for designs - 20 through -29

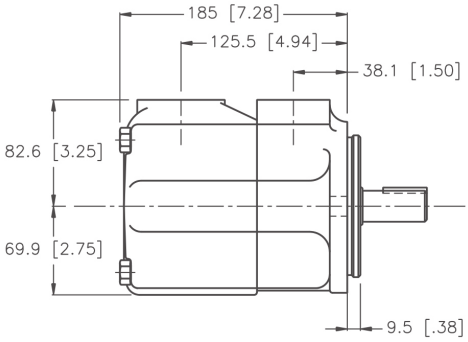
8. Shaft Rotation (viewed from shaft end)
   - R - Turn right
   - L - Turn left

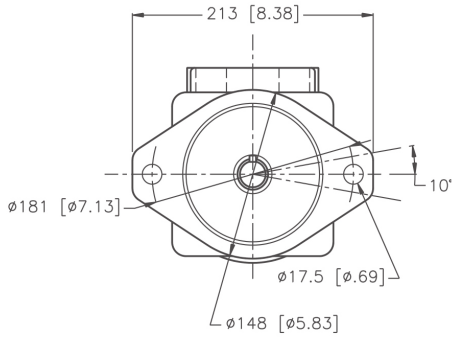
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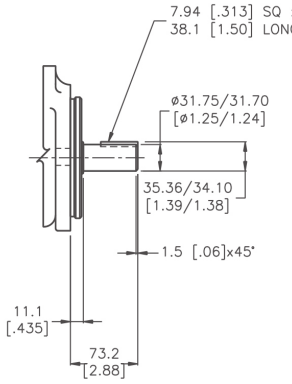
Installation Dimension mm (inch)

Single Pump 35HV/HVQ

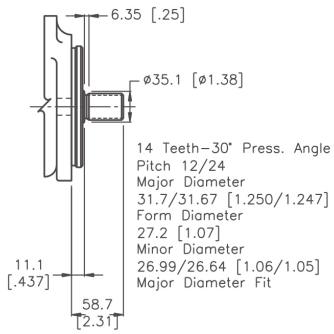




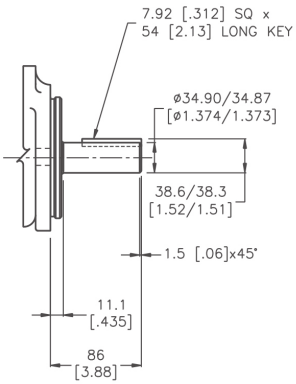




Shaft 1
Keyed Shaft



Shaft 11
Splined Shaft



Shaft 86
Heavy Duty Keyed Shaft

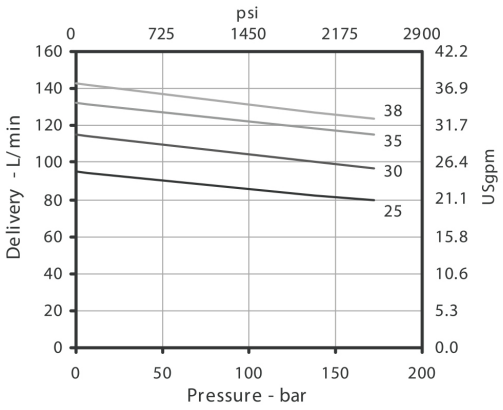
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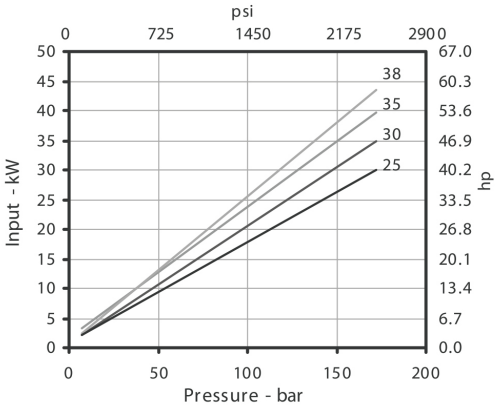
Performance Characteristics

35HV, Shaft End of 35HV, Cover End of 35HV

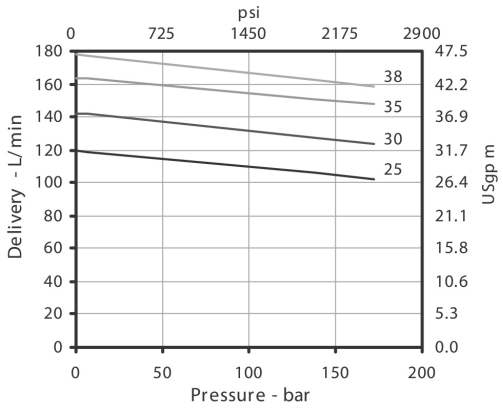
Based on SAE 10W Fluid at 50°C (120°F) and pump inlet at 0 PSIG (14.7 PSIA)

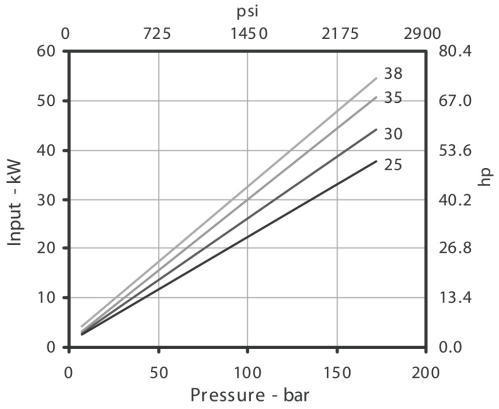
At 1200 rpm



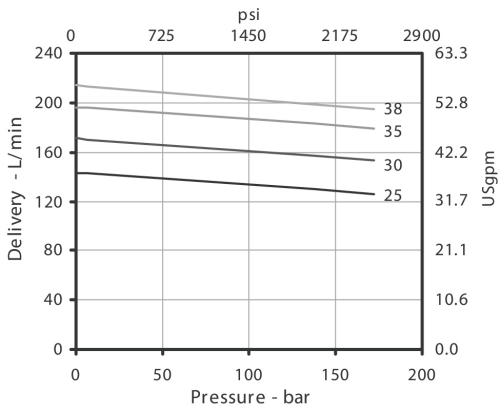


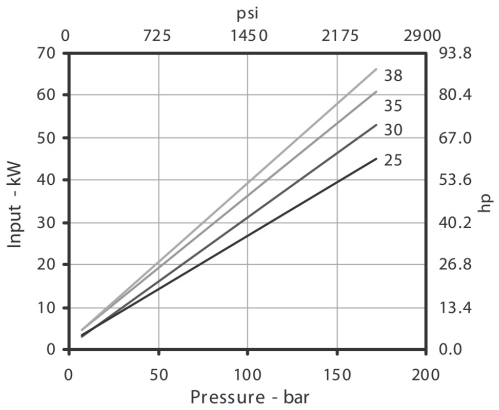
At 1500 rpm





At 1800 rpm



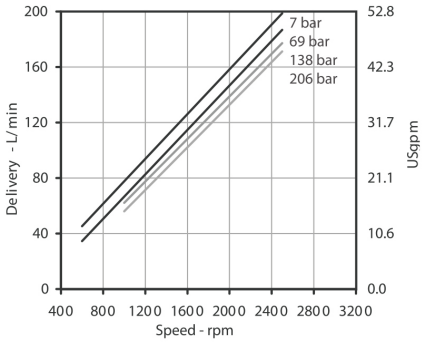


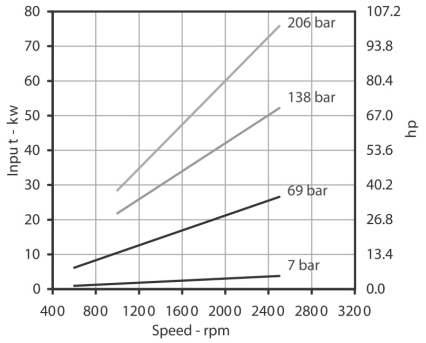
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35 HV/HVQ Series

35HVQ, Shaft End of 35HVQ, Cover End of 35HVQ

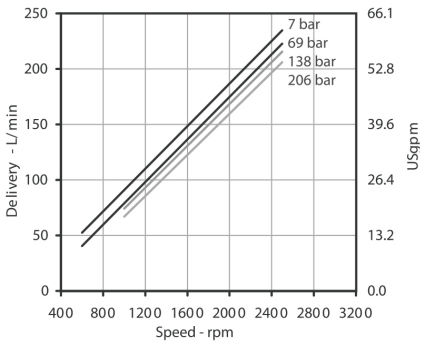
Based on SAE 10W Fluid at 82°C (180°F) and pump inlet at 0 PSIG (14.7 PSIA)

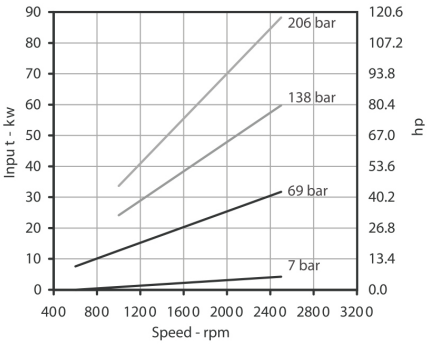
Size 25



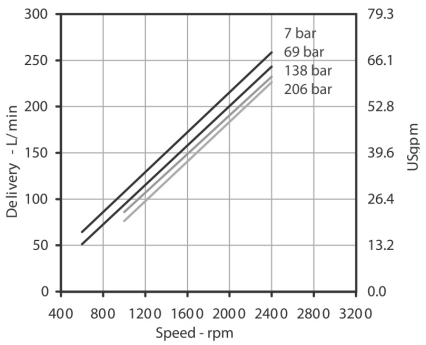


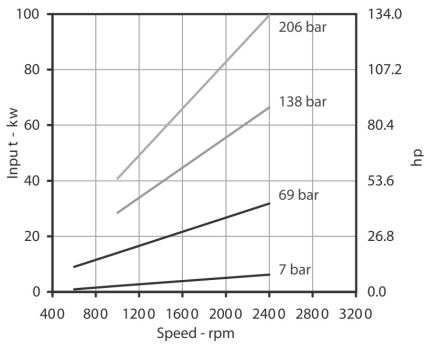
Size 30



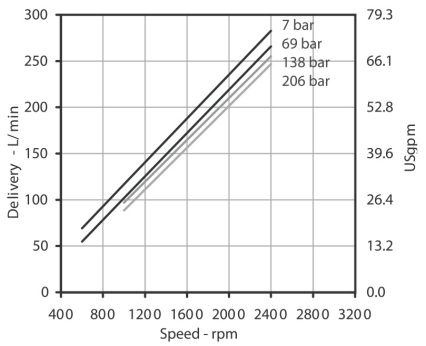


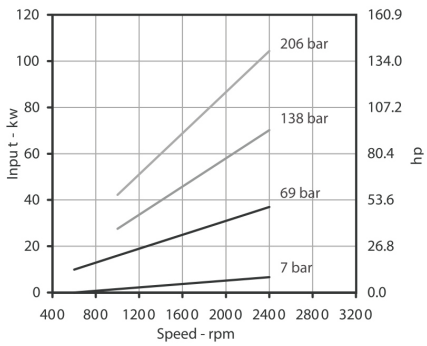
Size 35





Size 38





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