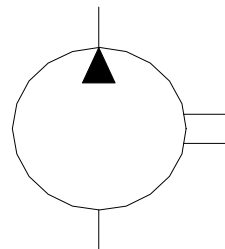
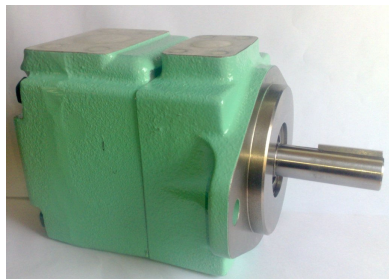


□ **HPV2M SERIES – HIGH PRESSURE HIGH SPEED SINGLE PUMPS**

These HPV2M pumps are designed for high-pressure applications. Suitable for mobile applications like Cranes, Pressure Die Castings, Hydraulic Presses, Railways & Construction Equipments.



Graphical Symbol

Ratings

Model Number	Y	Nominal Displacement	Geometric Displacement cm ³ /rev (in ³ /rev)	Max. Opt. Pressure Kgf/cm ²	Output Flow and Input Power	Shaft Speed Range RPM		Mass (Approx.) Kg.	
						Max.	Min.	Flange Mounting	Foot Mounting
HPV2M	Port connection	03	10.8 (0.66)	280	Ref. Page nos. 4, 5, 6 & 7.	2800	400	15.5	19.8
		05	17.2 (1.05)						
		06	21.3 (1.30)						
		08	26.4 (1.61)						
		10	34.1 (2.08)						
		12	37.1 (2.26)						
		14	46.0 (2.81)						
		15	50.5 (3.08)						
		17	58.3 (3.56)						
		20	63.8 (3.89)						
		22	70.3 (4.29)						
		25'	79.3 (4.84)						
		28'	88.8 (5.42)	210		2500			
		31'	100.0 (6.10)						

● **Model Number Designation**

HPV2M	Y	-12	-F	-R	A	A	-K1	-10
Series Number	Port connection	Nominal Displacement	Type of Mounting	Direction of Rotation	Discharge Port Position	Suction Port Position	Type of Shaft	Design* Number
					As viewed from shaft end			
HPV2M	Y : Metric port connection, Omit for UNC.	03 05 06 08 10 12 14 15 17 20 22 25 28 31	F: Flange Mtg.	R: Clockwise (Normal) L: Anti-clockwise			K1-Keyed (SAE-B) K2-Keyed S1- Splined (SAE-B) S2- Splined (SAE BB)	10

* Design numbers subject to change but installation dimensions remain as shown.

B

Notes:

1. For Cartridge Kit, Refer Table: 1
2. For Seal Kit, Refer Table: 2
3. For Flange kit, (Optional) Refer Table: 3
4. For Foot Mounting Bracket, Refer Table: 4

Table – 1: Cartridge Kit Model Number

CHPV2M	-12	-R	-10
Pump Series	Nominal Displacement	Shaft Rotation	Design Number
CHPV2M	03	R: Clockwise (Normal) L: Anti-Clockwise	10
	05		
	06		
	08		
	10		
	12		
	14		
	15		
	17		
	20		
	22		
	25		
28			
31			

Table - 2: Seal Kit Model Number (KS-HPV2-10)

Sl.No.	Name of Part	Part Number	Qty
1	'O' Ring	PKH4-0207	1
2	'O' Ring	PKH4-0206	1
3	'O' Ring	PKH4-0205	1
4	Back-Up Ring	PKH4-0184	1
5	Oil seal (NOK)	25.4x38.1x6.35	1

Table - 3: Flange Kit Model Number

HPV2	-F	-S	-T	-10
Pump Series	Flange	Port	Flange Type	Design Number
HPV2	F	S: 1 ½” Suction Port	T: Threaded Flange (SG Iron) W: Welding Flange (MS)	10
		D: 1” Delivery Port		

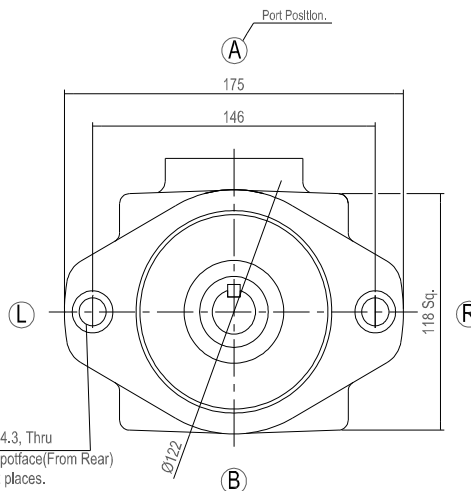
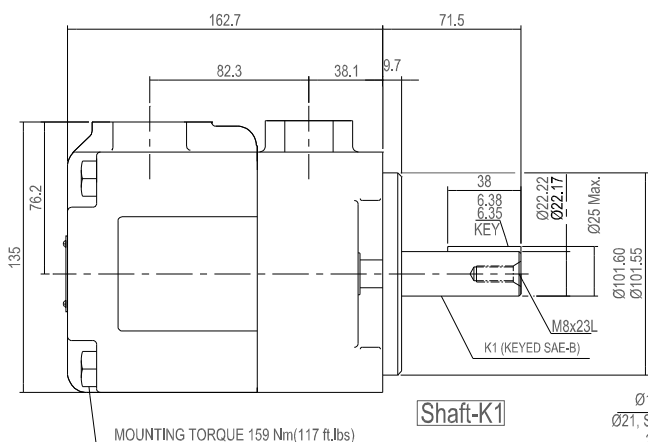
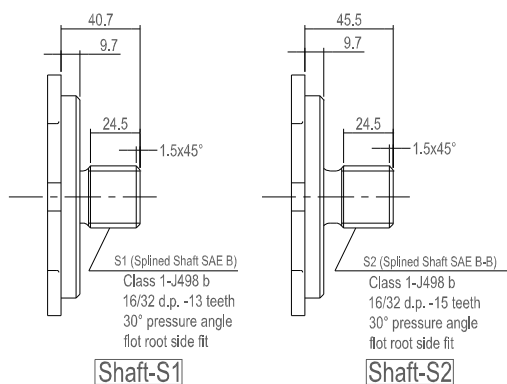
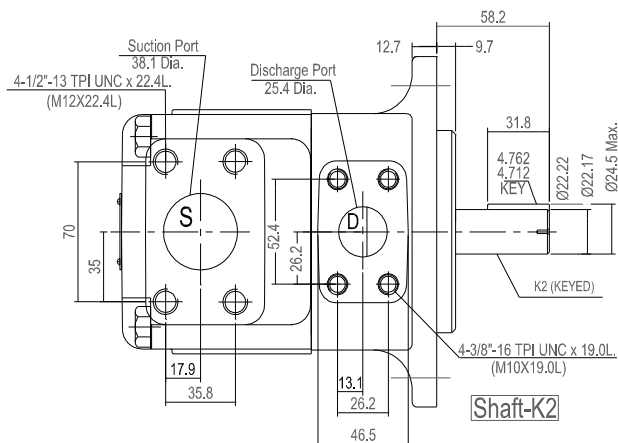
Table – 4: Foot Mounting Bracket Model Number (HPV2-L-10)

1. Mounting Bracket - PK2-10513-8 = 1 No.
2. Socket Head Cap Screw – M12x35L = 2 Nos.
3. Spring Washer – WS-A-12 = 2 Nos.

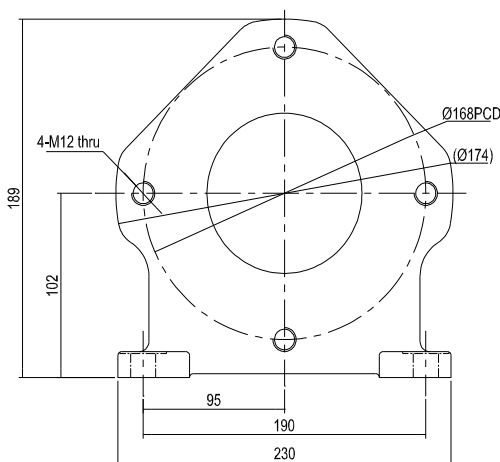
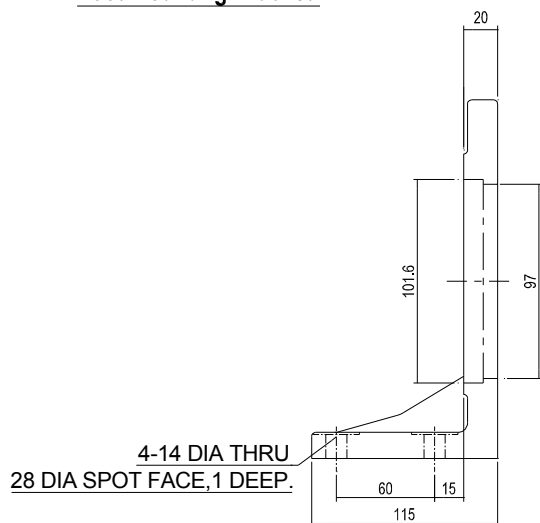
□ **Mounting Details- HPV2M *-_*-*_*_*_*_-10**

DIMENSIONS IN MILLIMETRES

Flange Mounting



Foot Mounting Bracket:

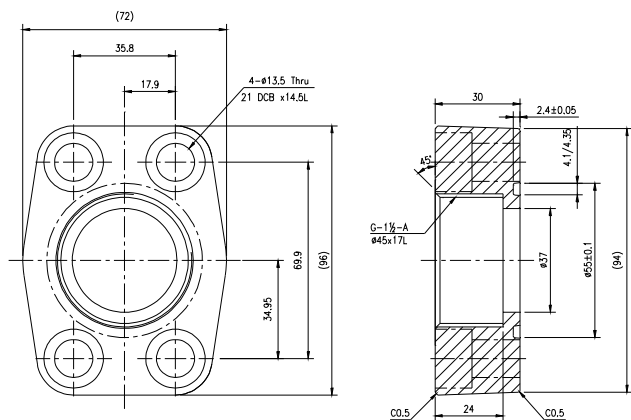


B

Flanges: -

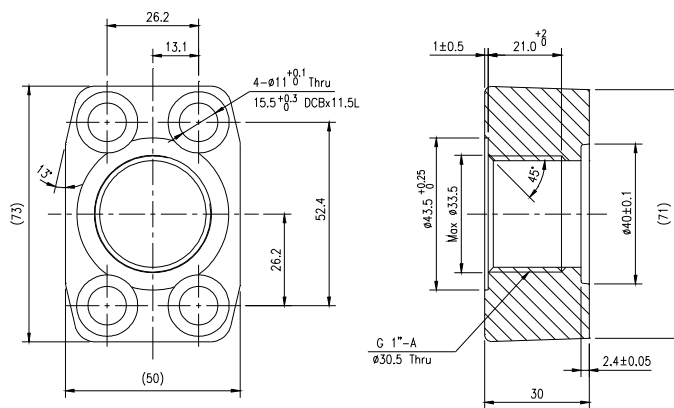
Threaded Type: -

DIMENSIONS IN MILLIMETRES



Suction Flange (1 1/2")

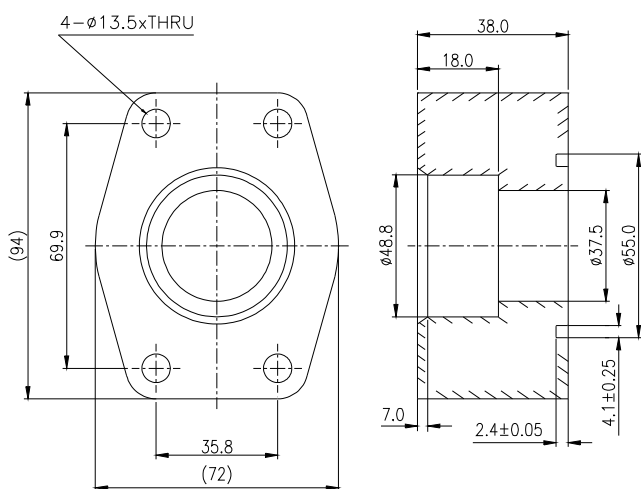
Model Code: - HPV2-F-S-T-10



Delivery Flange (1")

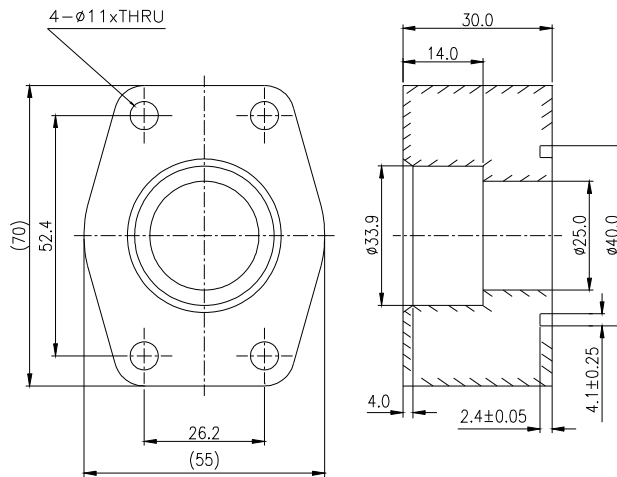
Model Code: - HPV2-F-D-T-10

Welded Type: -



Suction Flange (1 1/2")

Model Code: - HPV2-F-S-W-10



Delivery Flange (1")

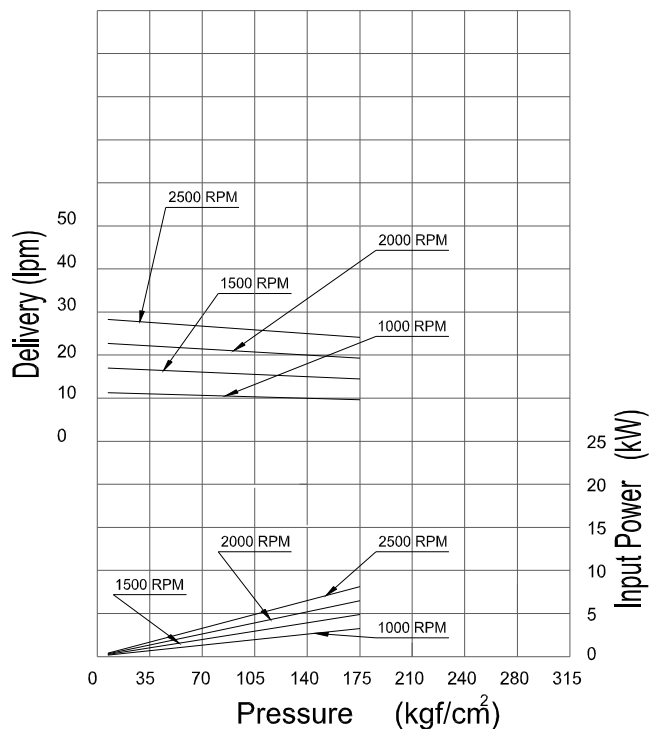
Model Code: - HPV2-F-D-W-10

B

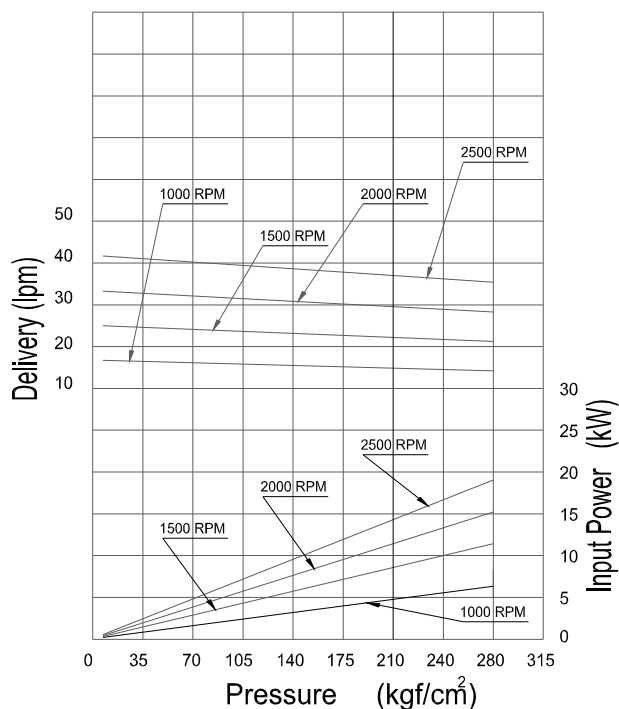
Typical Pump Characteristics at viscosity 20 cSt (100 SSU) [ISO VG32, 50°C]

B

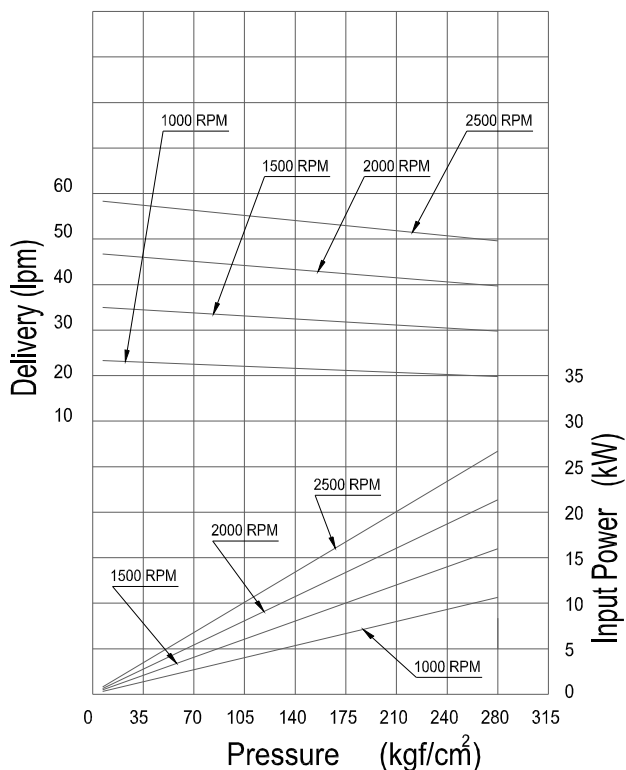
HPV2M - 03



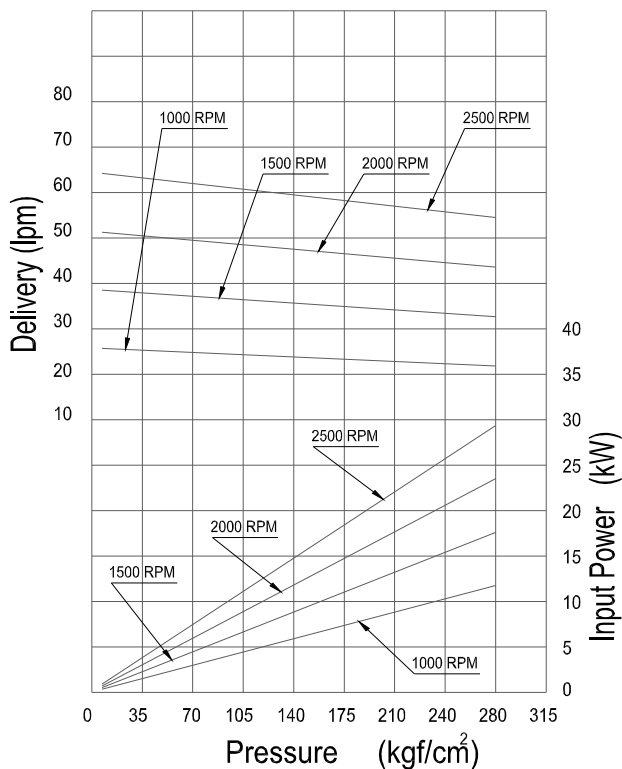
HPV2M - 05



HPV2M - 06

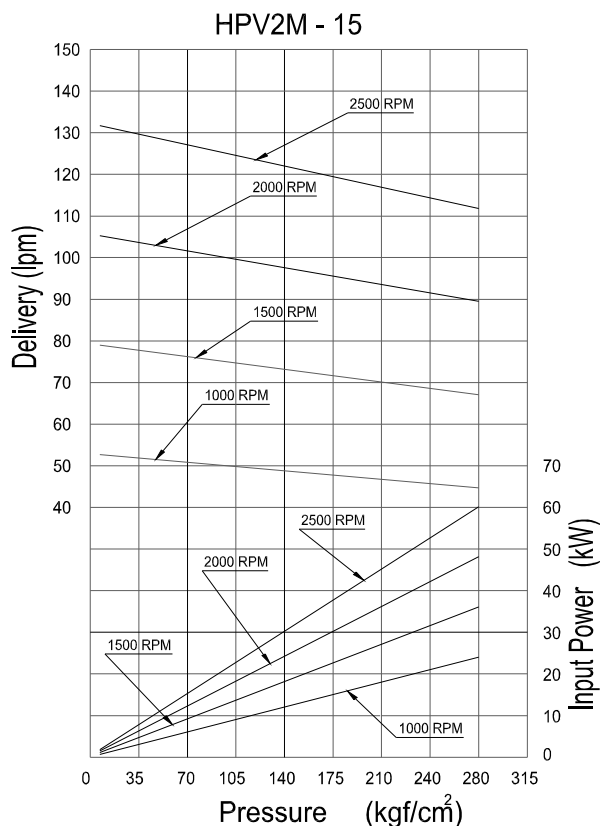
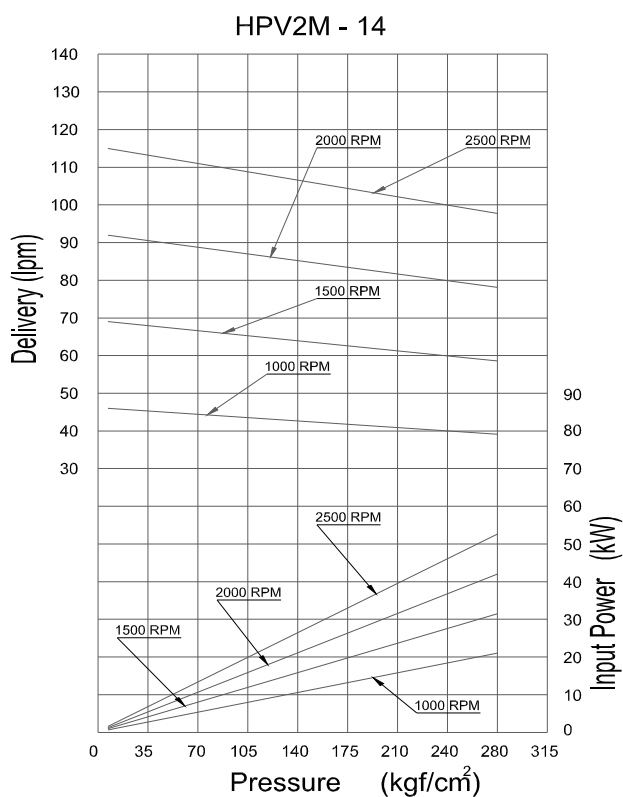
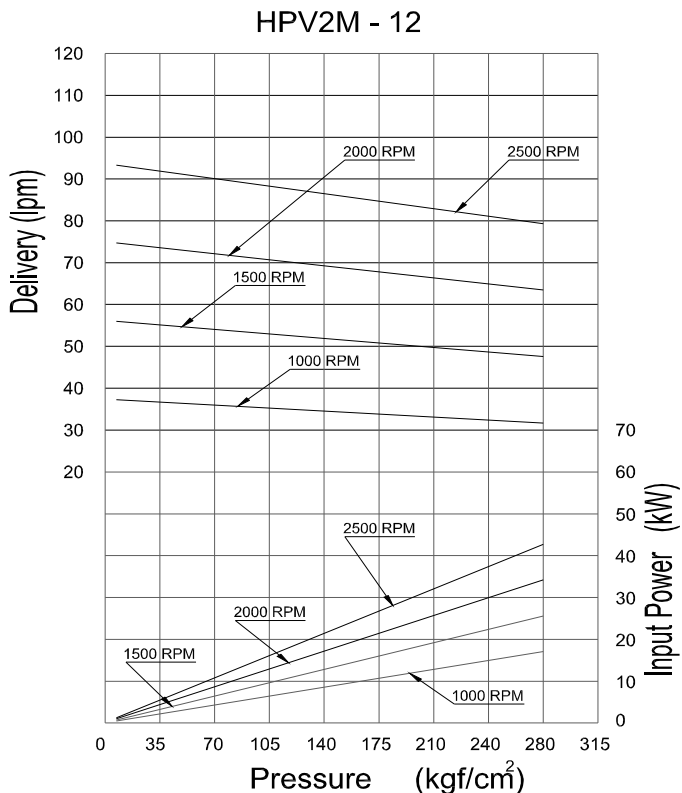
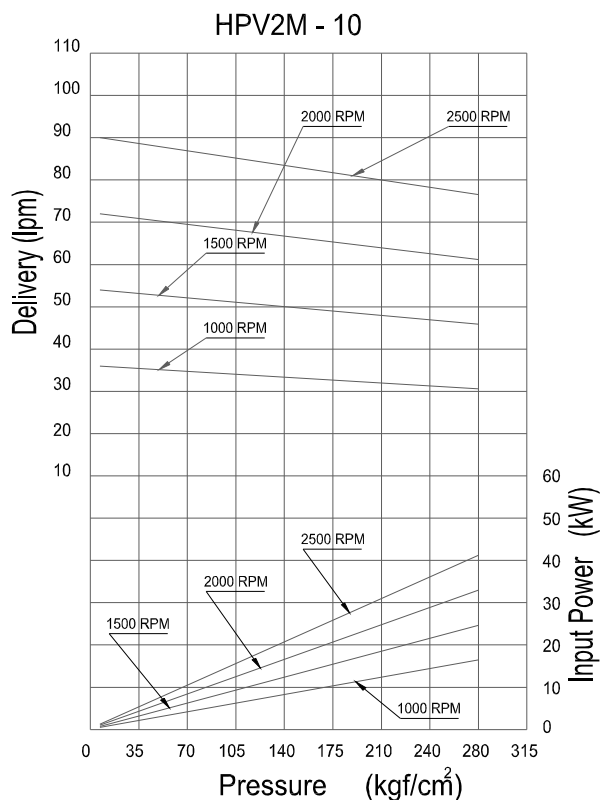


HPV2M - 08



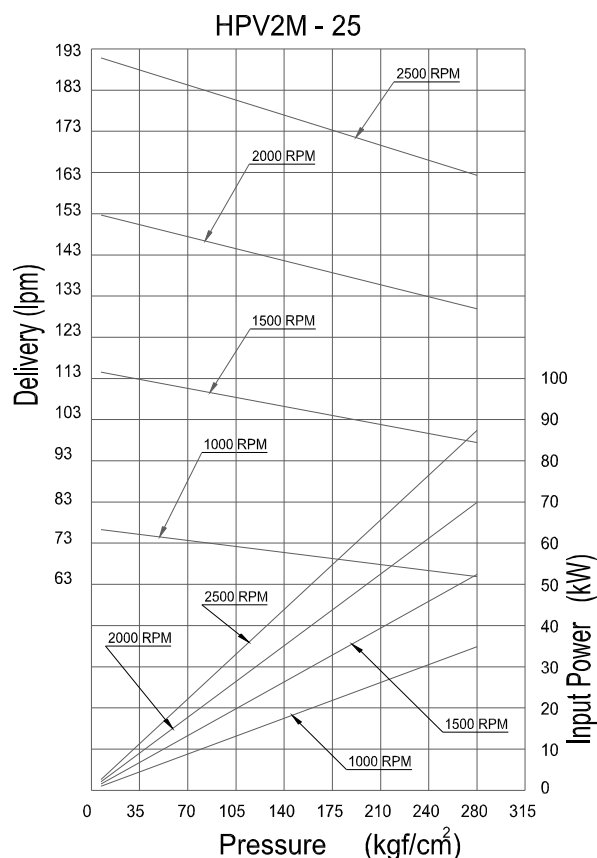
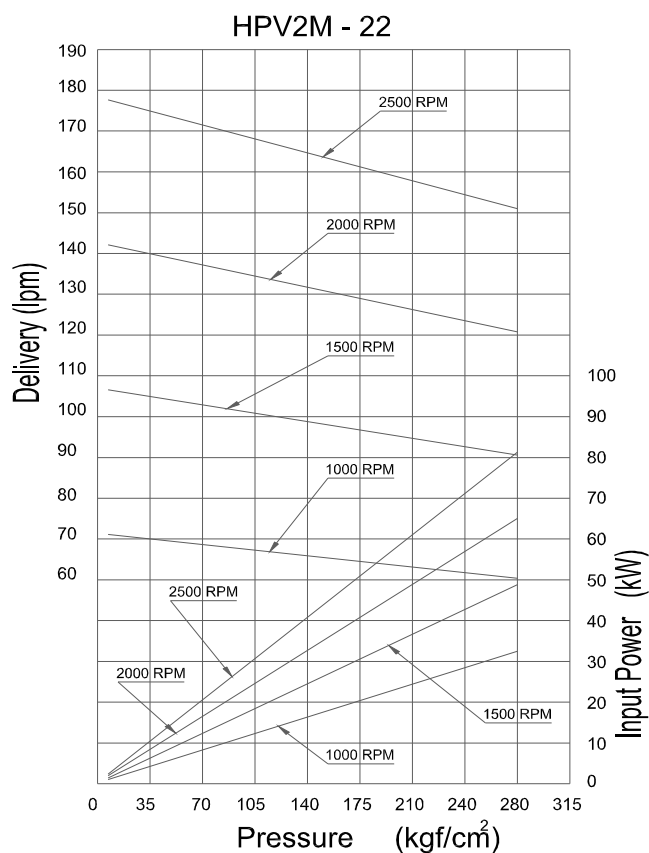
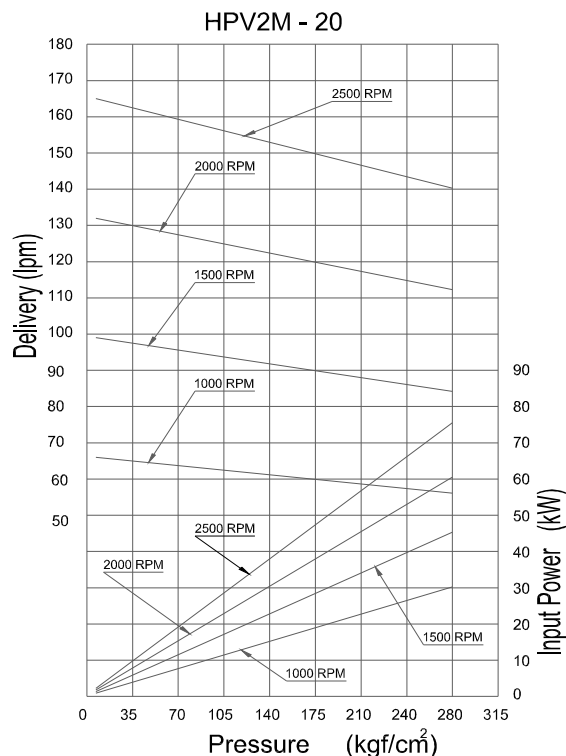
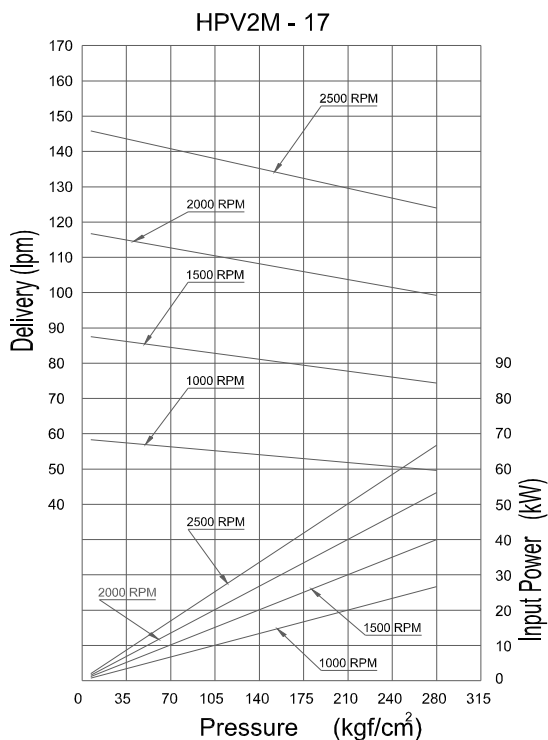
Typical Pump Characteristics at viscosity 20 cSt (100 SSU) [ISO VG32, 50°C]

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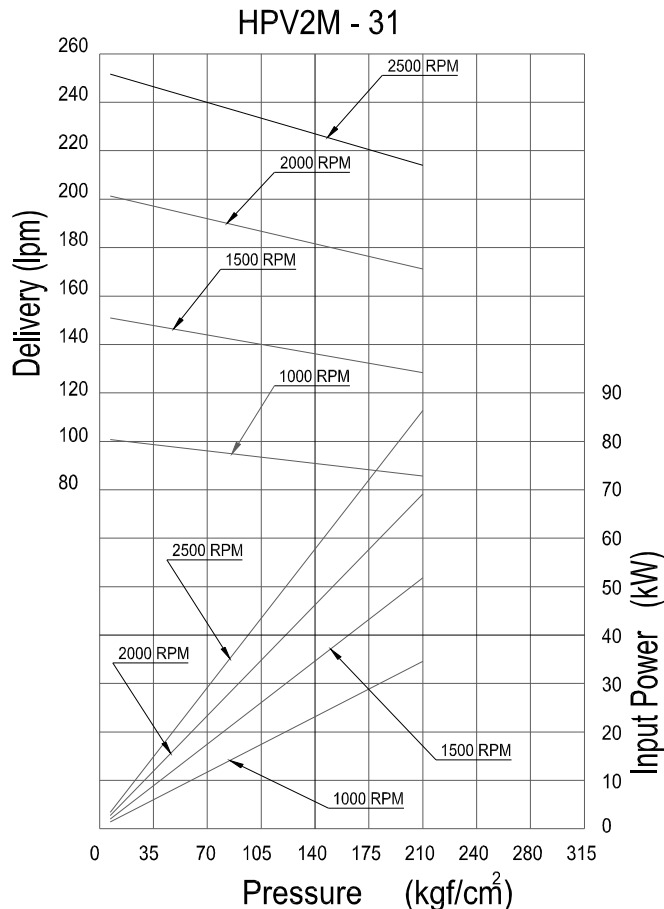
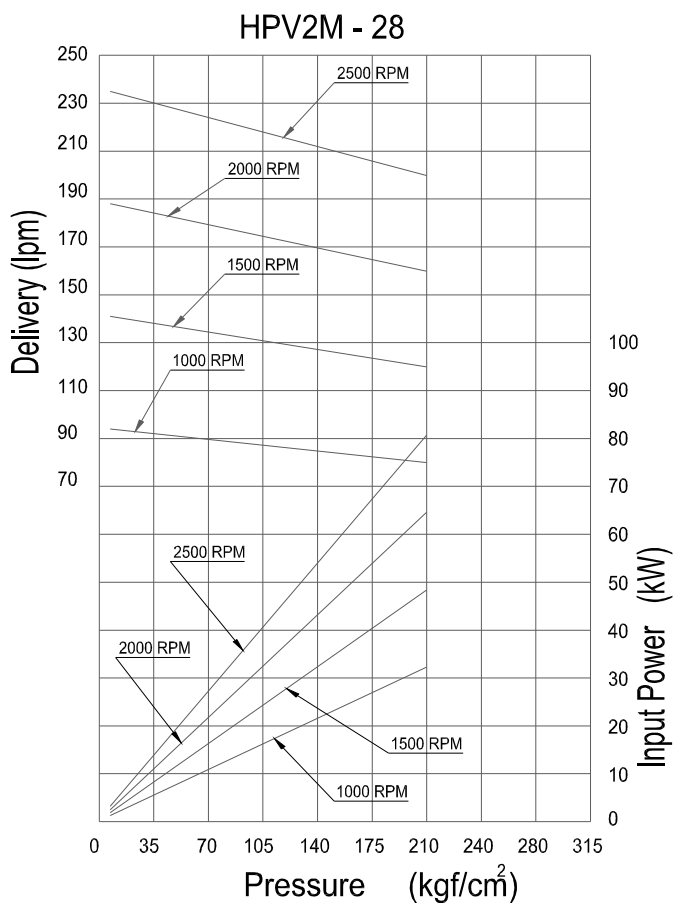


Typical Pump Characteristics at viscosity 20 cSt (100 SSU) [ISO VG32, 50°C]

B



Typical Pump Characteristics at viscosity 20 cSt (100 SSU) [ISO VG32, 50°C]



□ Hydraulic Fluids:

1. Suction Pressure: -

Suction line pressure limit -2.90 PSI to +4.35 PSI.

2. Cleanliness: -

Contamination level should be within NAS class 9. Use of 100 µm (150 mesh) tank filter on suction side, above 50mm away from the tank bottom.

3. Alignment of Shaft: -

Employ a flexible coupling whenever possible & avoid stress from bending or thrust. Maximum permissible misalignment is less than 0.1mm (0.004 inches) TIR & maximum permissible misangular is less than 0.2°.

B