

**KVM4\*C \ KVM4\*C1 - 055 - 1 N 00 - A 1 02 \***  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① **Series external drain**

② **Series internal drain**

③ **Torque**  
 024 = 0.39 Nm/bar  
 027 = 0.45 Nm/bar  
 031 = 0.55 Nm/bar  
 043 = 0.74 Nm/bar  
 055 = 0.93 Nm/bar  
 067 = 1.13 Nm/bar  
 075 = 1.27 Nm/bar

④ **Type of shaft**  
 1-Keyed (SAE B)  
 2-Keyed ( no SAE )  
 3-Splined (SAE B)  
 4-Splined (SAE BB)  
 5-Keyed

⑤ **Rotation**  
 N - Bi-directional  
 \*S = Severe duty motor  
 KVM4C1-KVM4SC1 : Drain port is plugged

⑥ **Porting combination**  
 00-standard

⑦ **Design letter**

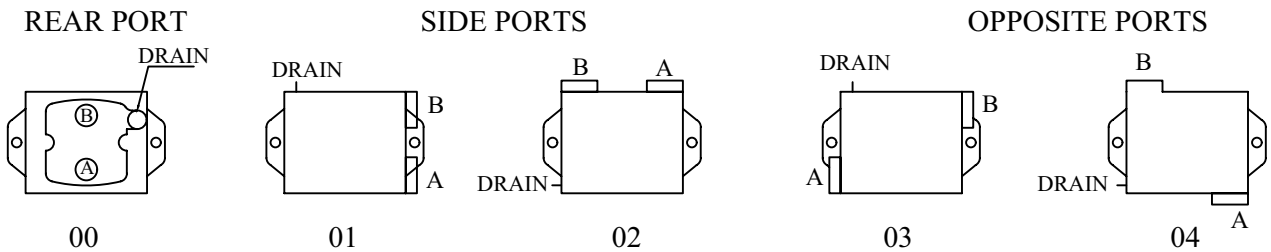
⑧ **Seal class**  
 1-S1 (KVM4C)  
 5-S5 (KVM4SC)

⑨ **Port connections**  
 01 = SAE threaded port  
     SAE drain  
 02 = SAE 4 bolt flange  
     UNC threaded - SAE drain  
 04 = SAE 4 bolt flange  
     UNC threaded - BSPP drain  
 M4 = SAE 4 bolt flange  
     metric threaded - BSPP drain

⑩ **Modifications**

**View from shaft end**

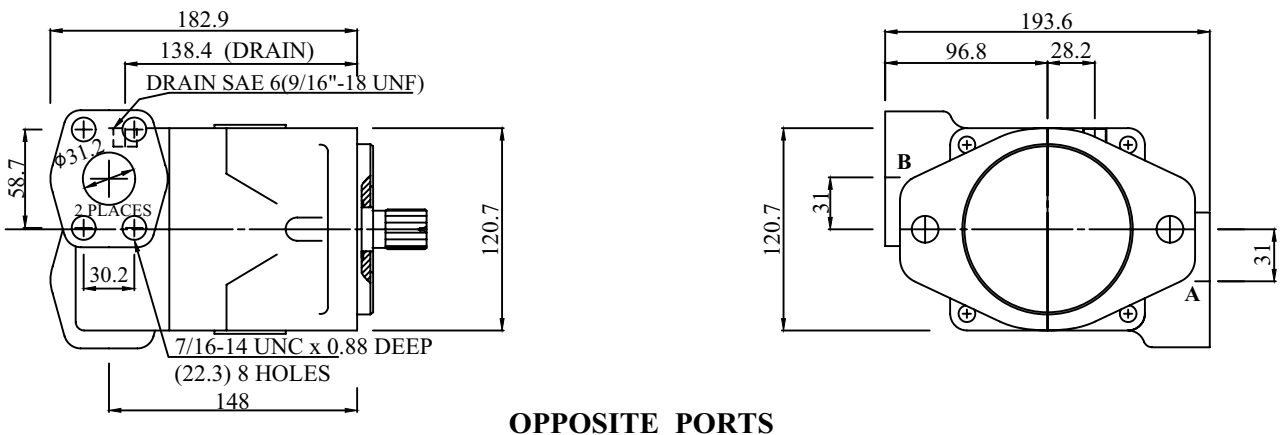
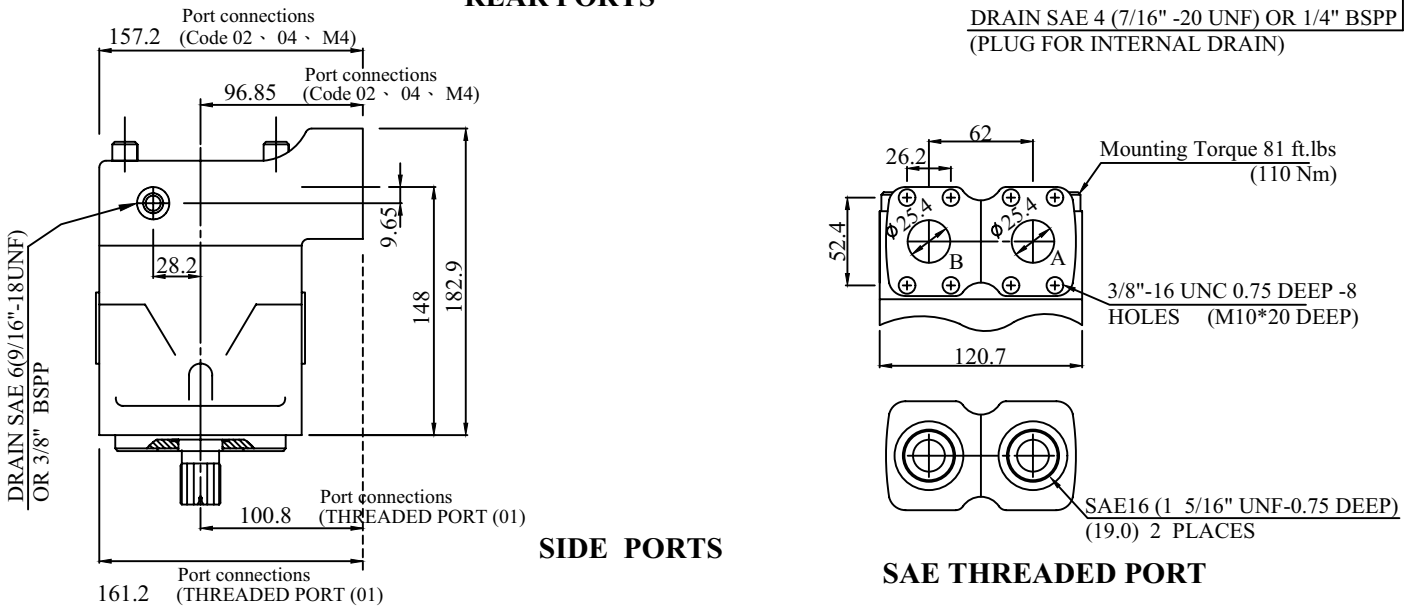
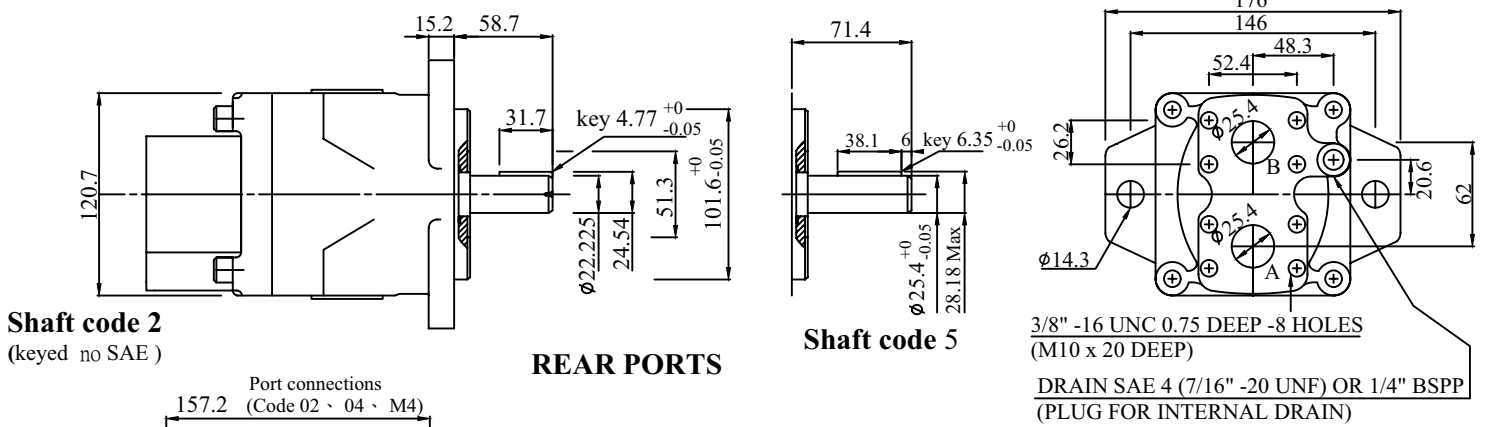
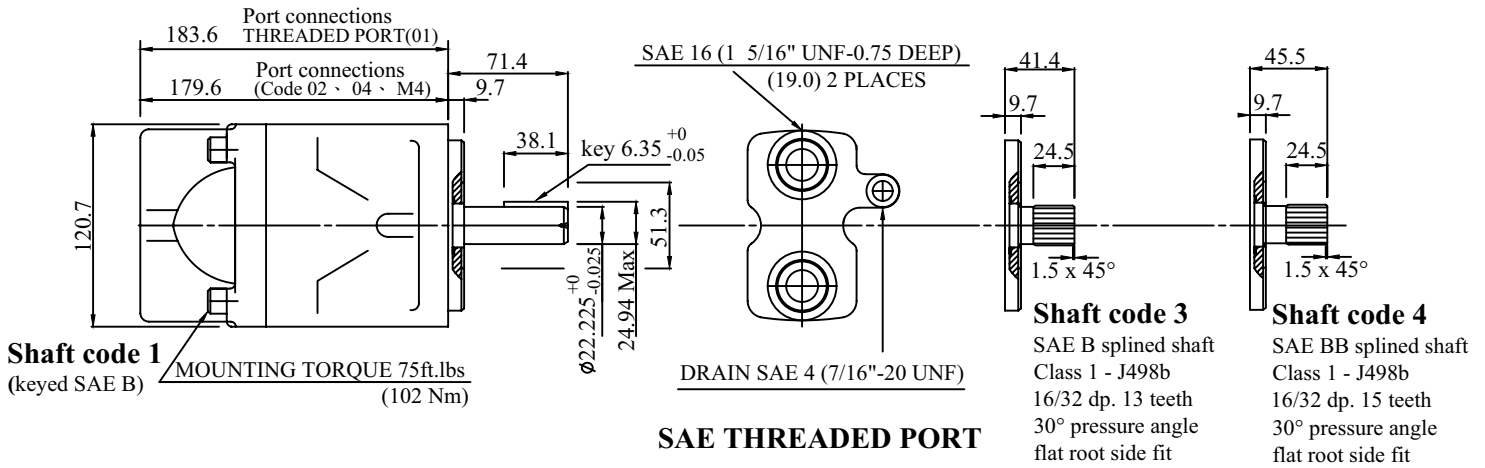
CW rotation    A = inlet    B = outlet  
 CCW rotation    A = outlet    B = inlet



**Porting combination**

**OPERATING CHARACTERISTICS - TYPICAL (24 cST)**

MODEL	Series	Volumetric Displacement Vi	Input flow at n=2000 rpm		Torque T at =2000 rpm		Power output at =2000 rpm		P Max Kg/cm <sup>2</sup>	Max r.p.m
			Theoretical	at 175 bar (2500psi) Δp	at 175 bar (2500psi) Δp	at 175 bar (2500psi) Δp				
		cm <sup>3</sup> /rev	ℓ / min	ℓ / min	in.lbs	Nm	HP	Kw		
KVM4C KVM4SC	024	24.4	49.0	67.0	535.4	60.5	17.0	12.7	175	4000
	027	28.2	56.0	74.0	619.5	70.0	19.7	14.7		
	031	34.5	69.0	87.0	768.0	86.8	24.0	18.0		
	043	46.5	93.0	111.0	1062.0	120.0	33.6	25.1		
	055	58.8	118.0	136.0	1318.6	149.0	41.8	31.2		
	067	71.1	142.0	160.0	1504.5	170.0	47.7	35.6		
	075	80.1	160.0	178.0	1752.2	198.0	55.6	41.5		



**KVM4\*D \ KVM4\*D1 - 138 - 1 N 00 - B 1 02 \***  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① **Series external drain**

② **Series internal drain**

③ **Torque**

- 062 = 1.04 Nm/bar
- 074 = 1.22 Nm/bar
- 088 = 1.45 Nm/bar
- 102 = 1.68 Nm/bar
- 113 = 1.86 Nm/bar
- 128 = 2.11 Nm/bar
- 138 = 2.30 Nm/bar

④ **Type of shaft**

- 1-Keyed (SAE C)
- 3-Splined (SAE C)
- S-Splined (SAE J718C)

⑤ **Rotation**

N - Bi-directional

\*S = Severe duty motor

VM4D1-VM4SD1 : Drain port is plugged

**View from shaft end**

- CW rotation A = inlet B = outlet
- CCW rotation A = outlet B = inlet

⑥ **Porting combination**

00-standard

⑦ **Design letter**

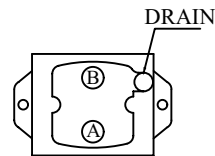
⑧ **Seal class**

- 1-S1 (KVM4D)
- 5-S5 (KVM4SD)

⑨ **Port connections**

- 01 = SAE threaded port  
SAE drain
- 02 = SAE 4 bolt flange  
UNC threaded - SAE drain
- 04 = SAE 4 bolt flange  
UNC threaded - BSPP drain
- M4 = SAE 4 bolt flange  
metric threaded - BSPP drain

⑩ **Modifications**



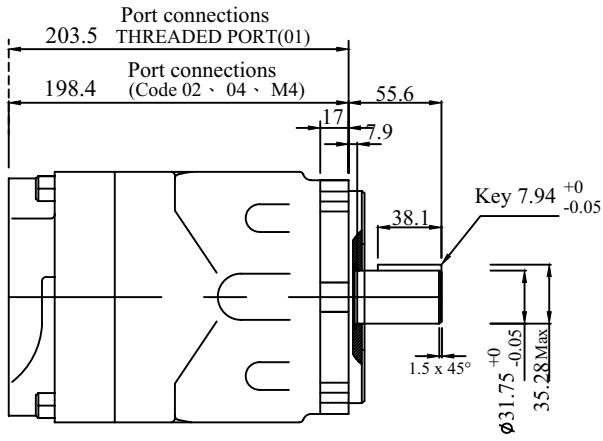
00

**Porting combination**

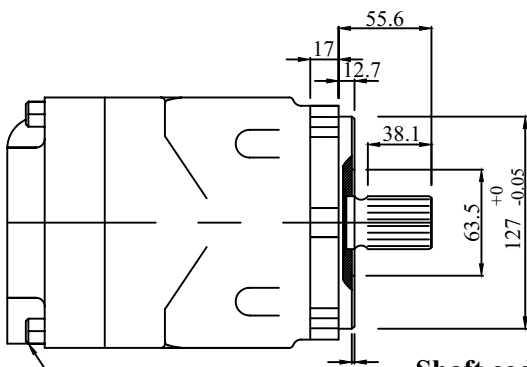
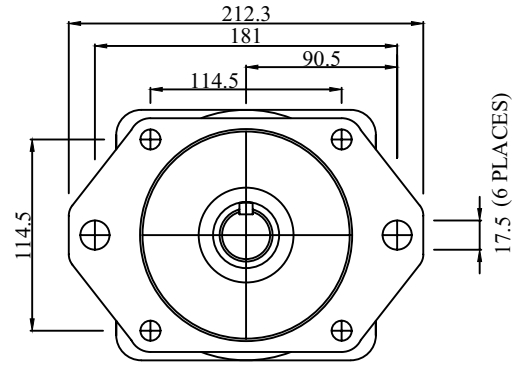
00-standard

**OPERATING CHARACTERISTICS - TYPICAL (24 cST)**

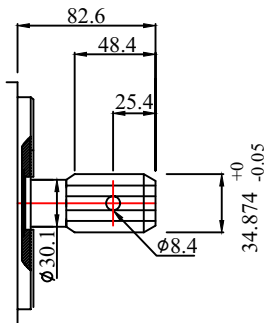
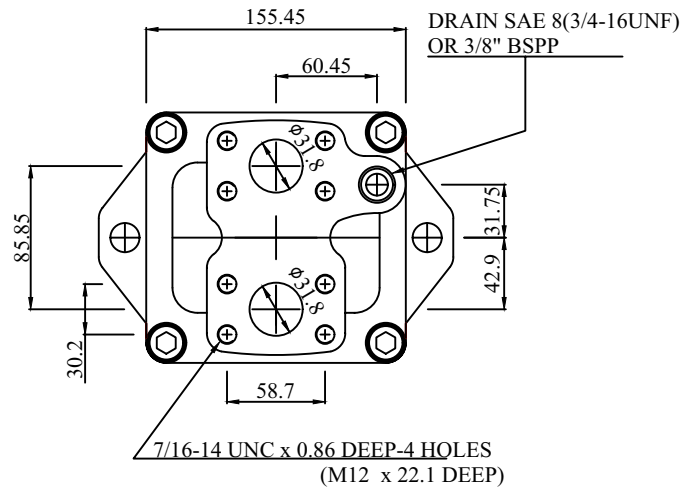
MODEL	Series	Volumetric Displacement Vi	Input flow at n=2000 rpm		Torque T n =2000 rpm		Power output n =2000 rpm		P Max Kg/cm <sup>2</sup>	Max r.p.m
			Theoretical	at 175 bar (2500psi) Δp	at 175 bar (2500psi) Δp	at 175 bar (2500psi) Δp				
		cm <sup>3</sup> /rev	ℓ / min	ℓ / min	in.lbs	Nm	HP	Kw		
KVM4D KVM4SD	062	65.1	130.0	154.0	1460.0	165.0	46.4	34.6	175	4000
	074	76.8	154.0	178.0	1770.0	200.0	56.2	41.9		
	088	91.1	182.0	206.0	2088.5	236.0	66.2	49.4		
	102	105.5	211.0	241.0	2336.3	264.0	74.1	55.3		
	113	116.7	233.0	257.0	2655.0	300.0	84.2	62.8		
	128	132.4	265.0	289.0	3009.0	340.0	95.5	71.2		
	138	144.4	289.0	313.0	3292.0	372.0	104.5	77.9		



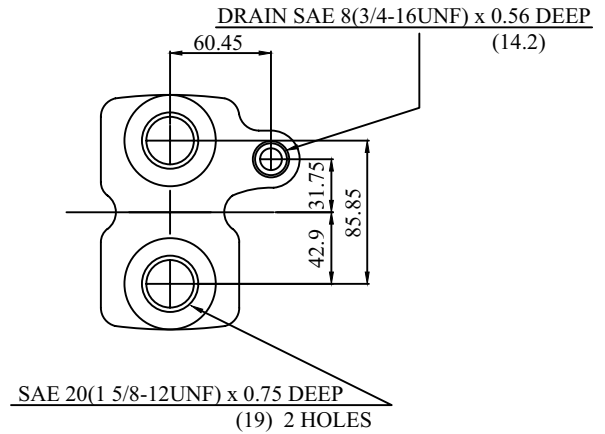
**Shaft code 1**  
(keyed SAE B)



**Shaft code 3**  
SAE C splined shaft  
Class 1 - J498b  
12/24 dp. 14 teeth  
30° pressure angle  
flat root side fit



**Shaft code S**  
ISO 500-3  
splined shaft  
16/32 dp. 21 teeth  
30° pressure angle  
flat root side fit.



**SAE THREADED PORT**

**KVM4\*E \ KVM4\*E1 - 214 - 1 N 00 - B 5 02 \***  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① **Series external drain**

② **Series internal drain**

③ **Torque**

153 = 2.52 Nm/bar  
 185 = 3.05 Nm/bar  
 214 = 3.53 Nm/bar

④ **Type of shaft**

1-Keyed (SAE C)  
 3-Splined (SAE C)

⑤ **Rotation**

N - Bi-directional

\*S = Severe duty motor  
 VM4E1-VM4SE1 : Drain port is plugged

**View from shaft end**

CW rotation A = inlet B = outlet  
 CCW rotation A = outlet B = inlet

⑥ **Porting combination**

00-standard

⑦ **Design letter**

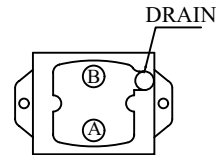
⑧ **Seal class**

5-S5

⑨ **Port connections**

01 = SAE threaded port  
 SAE drain  
 02 = SAE 4 bolt flange  
 UNC threaded - SAE drain  
 04 = SAE 4 bolt flange  
 UNC threaded - BSPP drain

⑩ **Modifications**



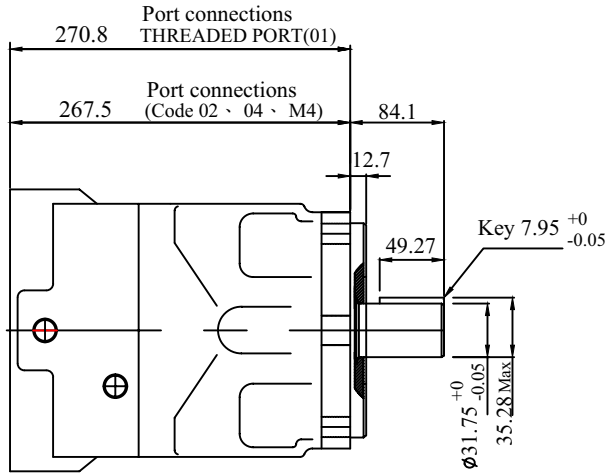
00

**Porting combination**

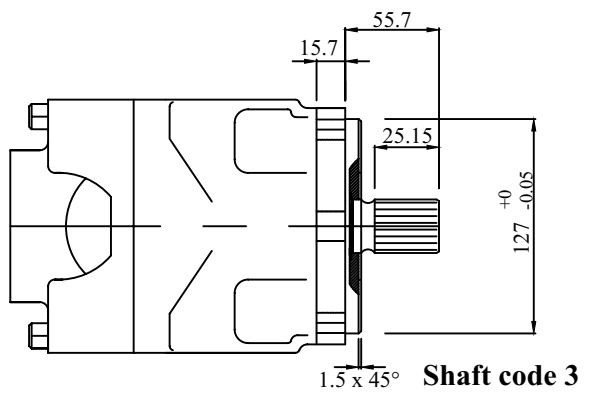
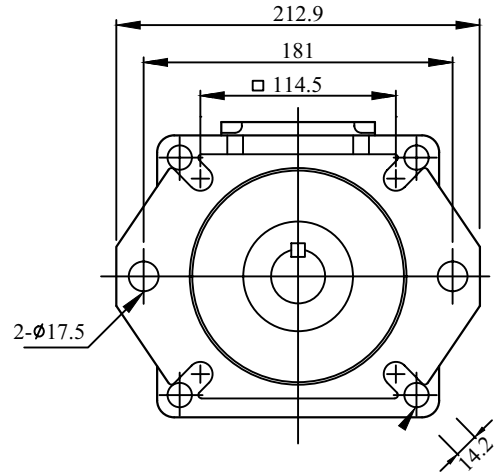
00-standard

**OPERATING CHARACTERISTICS - TYPICAL (24 cST)**

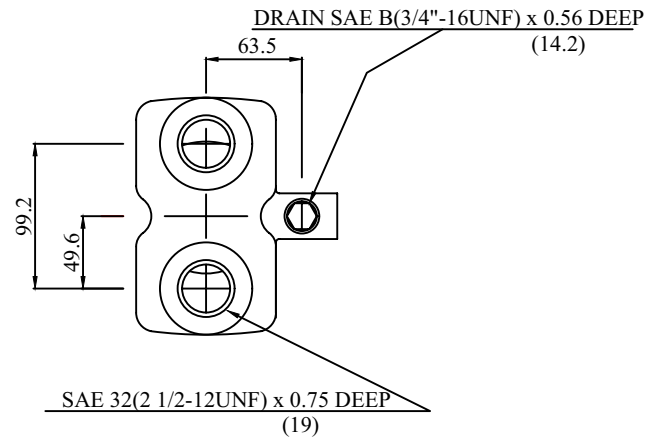
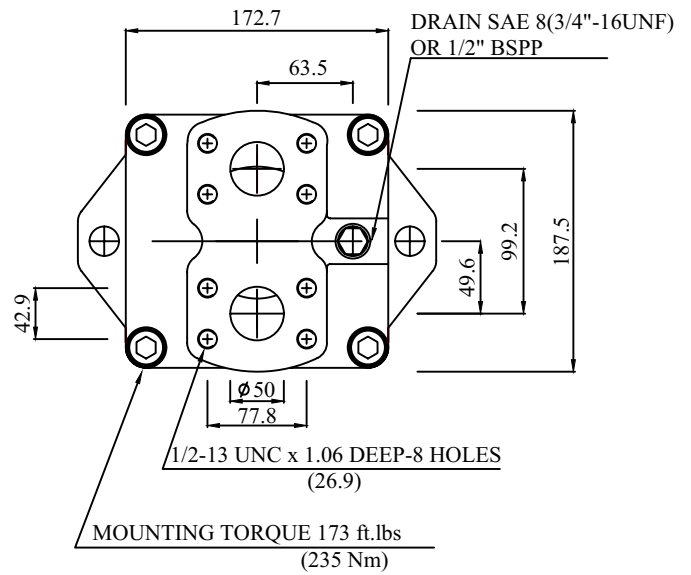
MODEL	Series	Volumetric Displacement $V_i$	Input flow at $n=2000$ rpm		Torque T $n=2000$ rpm		Power output $n=2000$ rpm		P Max $\text{Kg/cm}^2$	Max r.p.m
			Theoretical	at 175 bar (2500psi) $\Delta p$	at 175 bar (2500psi) $\Delta p$	at 175 bar (2500psi) $\Delta p$	at 175 bar (2500psi) $\Delta p$			
		$\text{cm}^3/\text{rev}$	$\ell / \text{min}$	$\ell / \text{min}$	in.lbf	Nm	HP	Kw		
KVM4E KVM4SE	153	158.5	316.4	343.0	3522.0	398.0	111.8	83.4	175	3600
	185	191.6	382.5	409.0	4283.2	484.0	136.0	101.4		
	214	222.0	443.4	470.0	5017.7	567.0	159.3	118.8		



**Shaft code 1**  
(keyed SAE C)



**Shaft code 3**  
SAE C splined shaft  
Class 1 - J498b  
12/24 dp. 14 teeth  
30° pressure angle  
flat root side fit



**SAE THREADED PORT**