

## VT6E SERIES SINGLE VANE PUMPS

High performance pumps for industrial use,  
max pressure up to 240 bar.



# HIGH PERFORMANCE VANE PUMP VT6E



**Series** VT6E \* - 066 - 3 R 00 - A 1 \*

**Y** - Metric port connection, Omit for UNC

**Cam ring**  
 Volumetric displacement cm<sup>3</sup>/rev (in<sup>3</sup>/rev)  
 042 = 132.3 (8.07)  
 045 = 142.4 (8.69)  
 050 = 158.5 (9.67)  
 052 = 164.8 (10.06)  
 057 = 180.7 (11.02)  
 062 = 196.7 (12.00)  
 066 = 213.3 (13.02)  
 072 = 227.1 (13.86)  
 085 = 269.8 (16.46)

**Type of shaft**  
 1 - keyed (SAE CC)  
 2 - keyed (no SAE)  
 3 - splined (SAE C)  
 4 - splined (SAE CC)

**Modifications**

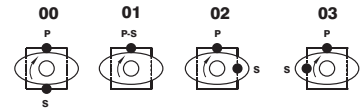
**Seal class**

- 1 - S1 (for mineral oil)
- 4 - S4 (for fire resistant fluids)
- 5 - S5 (for mineral oil and fire resistant fluids)

**Design letter**

**Porting combination**

00 - standard

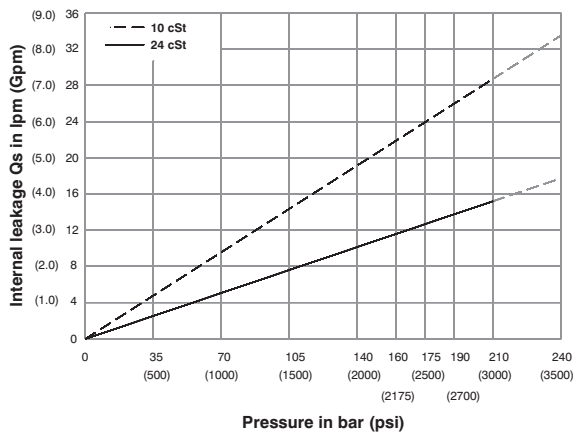


S - Suction port P - Pressure port

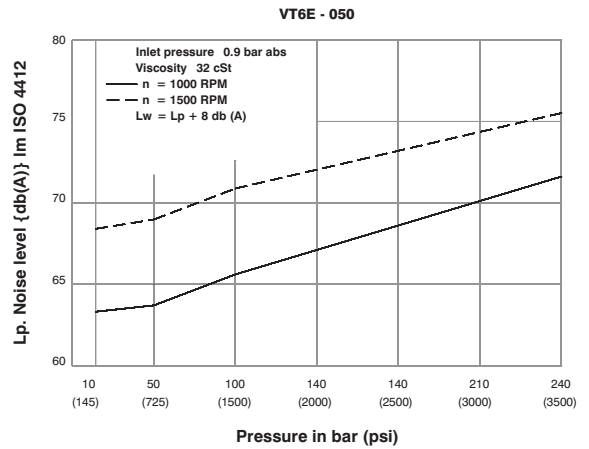
**Direction of rotation (view on shaft end)**

- R - clockwise
- L - counter-clockwise

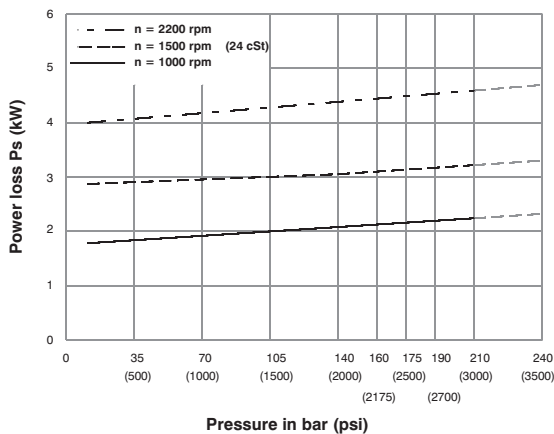
**INTERNAL LEAKAGE (TYPICAL)**



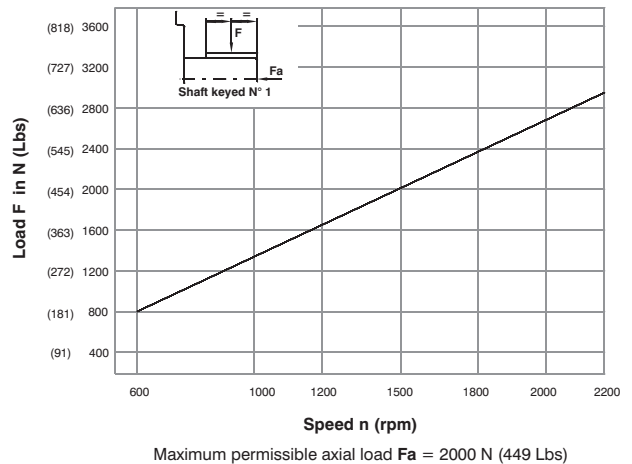
**NOISE LEVEL (TYPICAL)**



**HYDROMECHANICAL POWER LOSS (TYPICAL)**

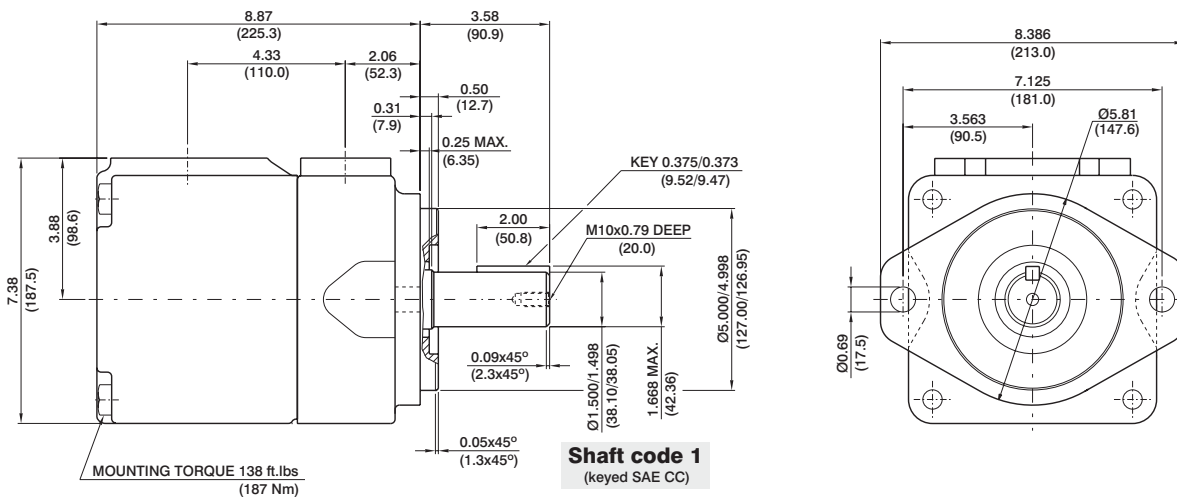
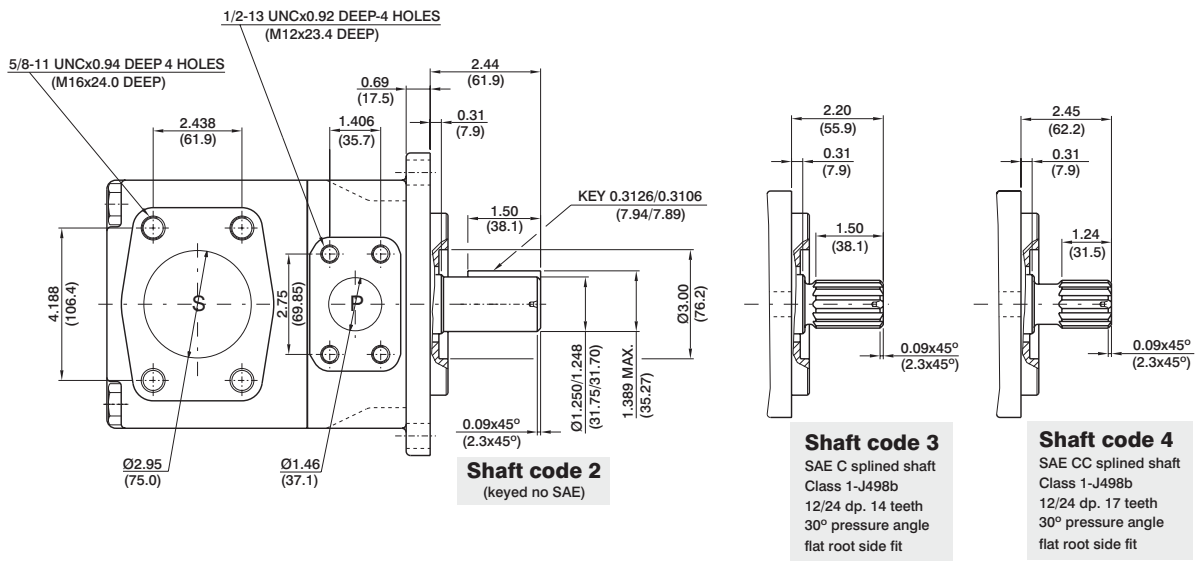


**PERMISSIBLE RADIAL LOAD**



Maximum permissible axial load Fa = 2000 N (449 Lbs)

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Shaft torque limits in <sup>3</sup> /rev x psi (ml/rev x bar)	
Shaft	Vp x p max.
1	48273 (54555)
2	30638 (34590)
3	54207 (61200)
4	54207 (61200)

## OPERATING CHARACTERISTICS - TYPICAL (24 cST)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1500 rpm						Input power p & n = 1500 rpm							
		in <sup>3</sup> /rev		cm <sup>3</sup> /rev		p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
		gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw		
VT6E	042	8.07	132.3	52.50	198.5	49.87	188.5	47.96	181.3	6.97	5.2	66.25	49.4	110.77	82.6		
	045	8.70	142.4	56.51	213.6	53.86	203.6	51.98	196.5	7.24	5.4	70.94	52.9	118.95	88.7		
	050	9.67	158.5	62.88	237.7	60.24	227.7	58.36	220.6	7.64	5.7	78.45	58.5	131.82	98.3		
	052	10.00	164.8	65.40	247.2	62.75	237.2	60.87	230.1	7.78	5.8	81.53	60.8	136.92	102.1		
	057	11.02	180.7	71.71	271.1	69.07	261.1	67.19	254.0	8.18	6.1	89.04	66.4	143.35	106.9		
	062	12.00	196.7	78.04	295.0	75.40	285.0	73.52	277.9	8.58	6.4	96.42	71.9	162.67	121.3		
	066	13.00	213.3	84.63	319.9	81.98	309.9	80.11	302.8	8.98	6.7	104.20	77.7	175.94	131.2		
	072	13.86	227.1	90.11	340.6	87.46	330.6	85.58	323.5	9.25	6.9	110.77	82.6	187.07	139.5		
	085 <sup>1)</sup>	16.40	269.8	107.00	404.7	105.21 <sup>2)</sup>	397.7 <sup>2)</sup>	--	--	9.78	7.3	87.56 <sup>2)</sup>	65.3 <sup>2)</sup>	--	--		

1) 085 = 2000 RPM max.

2) 085 = 75 bar (1100 psi) cont.

085 = 90 bar (1300 psi) max. int.