

ORDERING CODE

VST7D - 014 - 1 R 00 - B 1 - *

Series _____

Cam ring _____

Volumetric displacement cm³/rev (in³/rev)

014 = 43.9 (2.68)

017 = 55.0 (3.36)

020 = 66.0 (4.03)

022 = 70.3 (4.29)

024 = 81.1 (4.95)

028 = 89.9 (5.49)

031 = 99.1 (6.05)

035 = 113.4 (6.92)

038 = 120.6 (7.36)

042 = 137.5 (8.39)

Type of shaft _____

1 - Keyed

2 - Keyed (no SAE)

3 - Splined (SAE-C)

4 - Splined (no SAE)

5 - Keyed (ISO R775)

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 P	01 P-S	02 P	03 P
S - Suction port P - Pressure port			

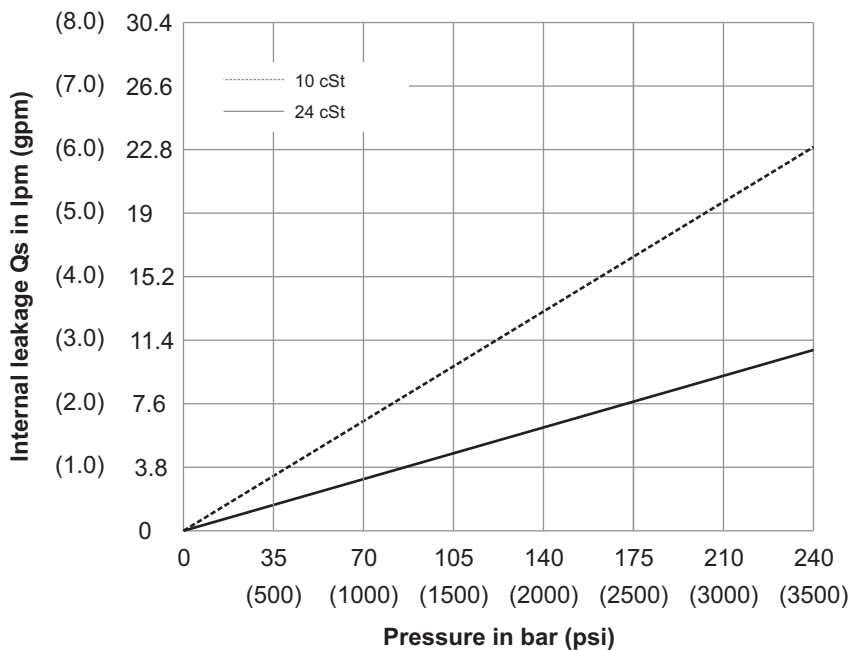
Direction of rotation
(view on shaft end)

R - clockwise

L - counter-clockwise

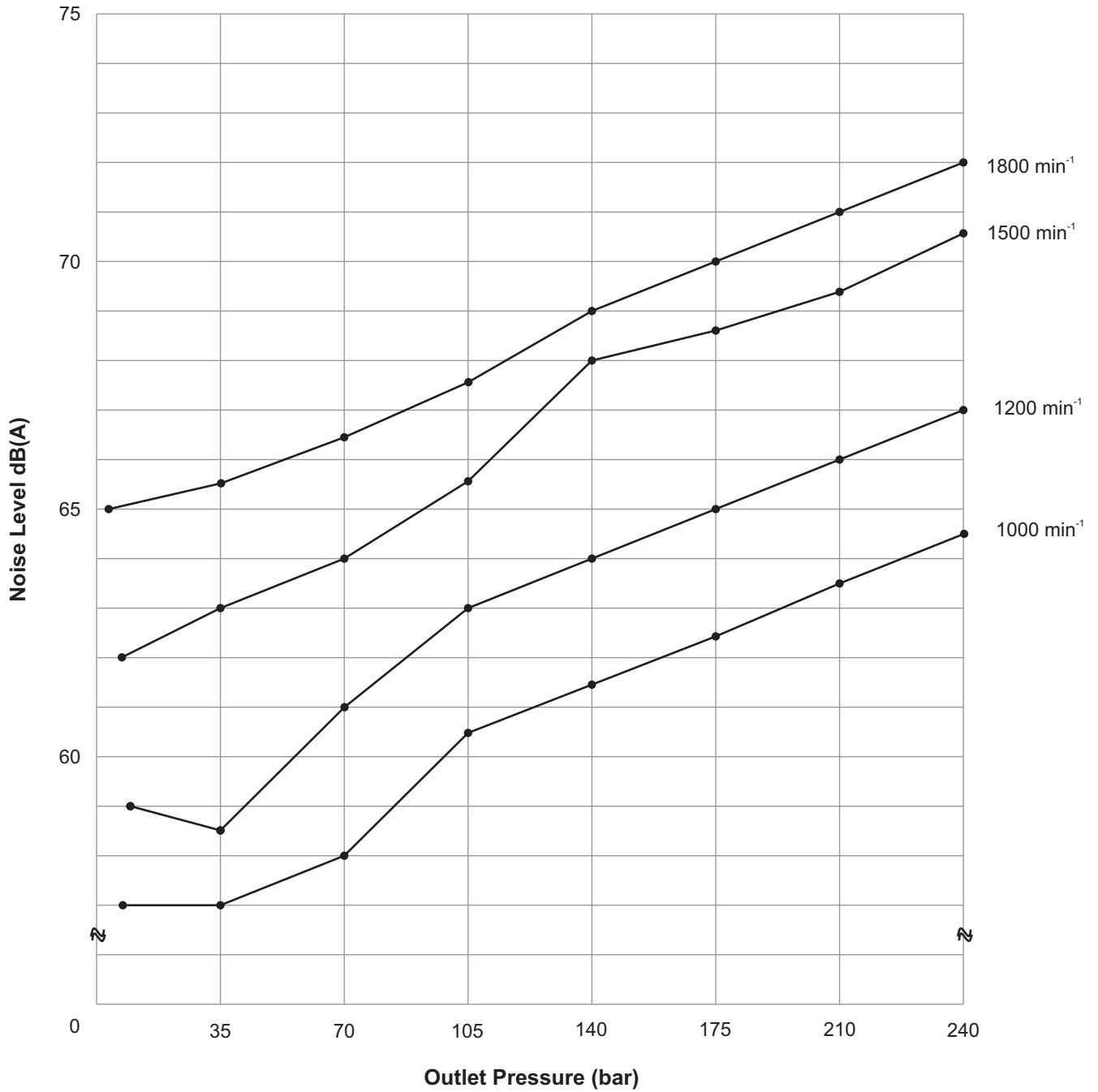
INTERNAL LEAKAGE (TYPICAL)

VST7D 014 TO 042



NOISE LEVEL (TYPICAL)
VST7D-038

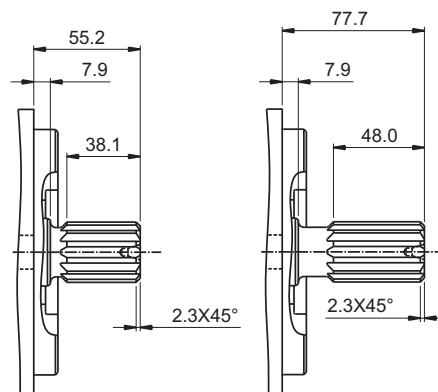
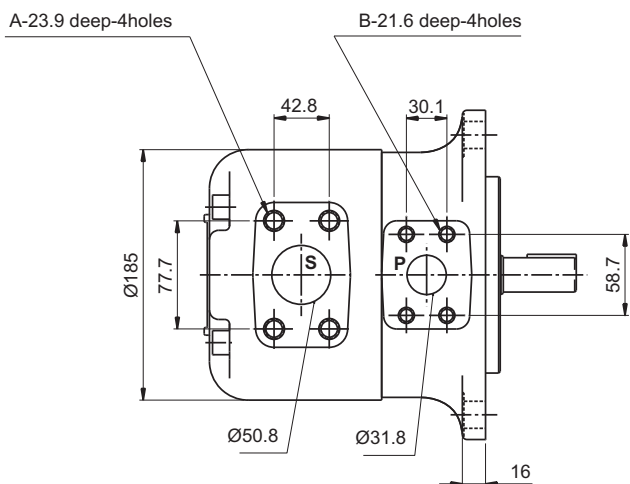
SP



Measurement Conditions: UIISO VG32 oil at 50°C and measured 1m from rear of pump cover

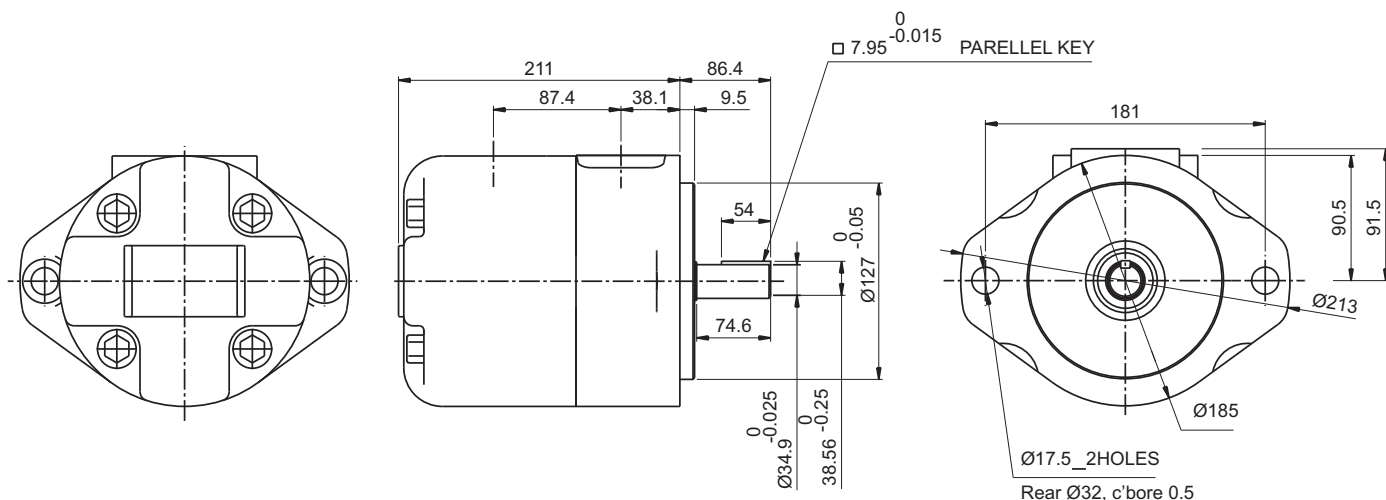
INSTALLATION DRAWING
FLANGE MOUNTING

SP



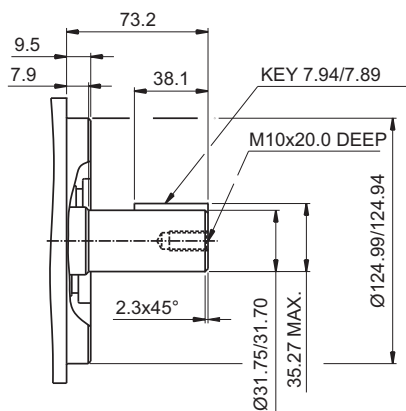
Shaft code 3
SAE C splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
flat root side fit

Shaft code 4
SAE C spc(*) splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
flat root side fit

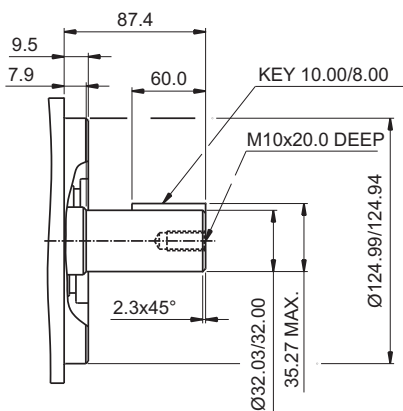


Shaft code 1
(Keyed)

Weight-35.0 Kgs.



Shaft code 2
(Keyed no SAE)



Shaft code 5
(Keyed ISO R775)

Shaft torque limits in³/rev x psi(ml/revxbar)

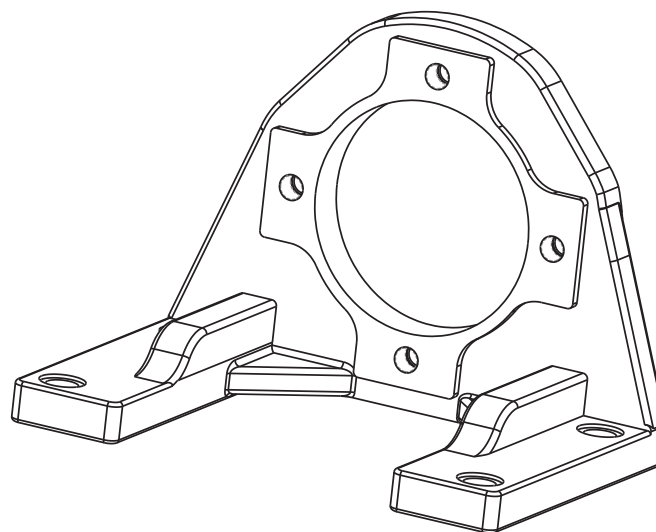
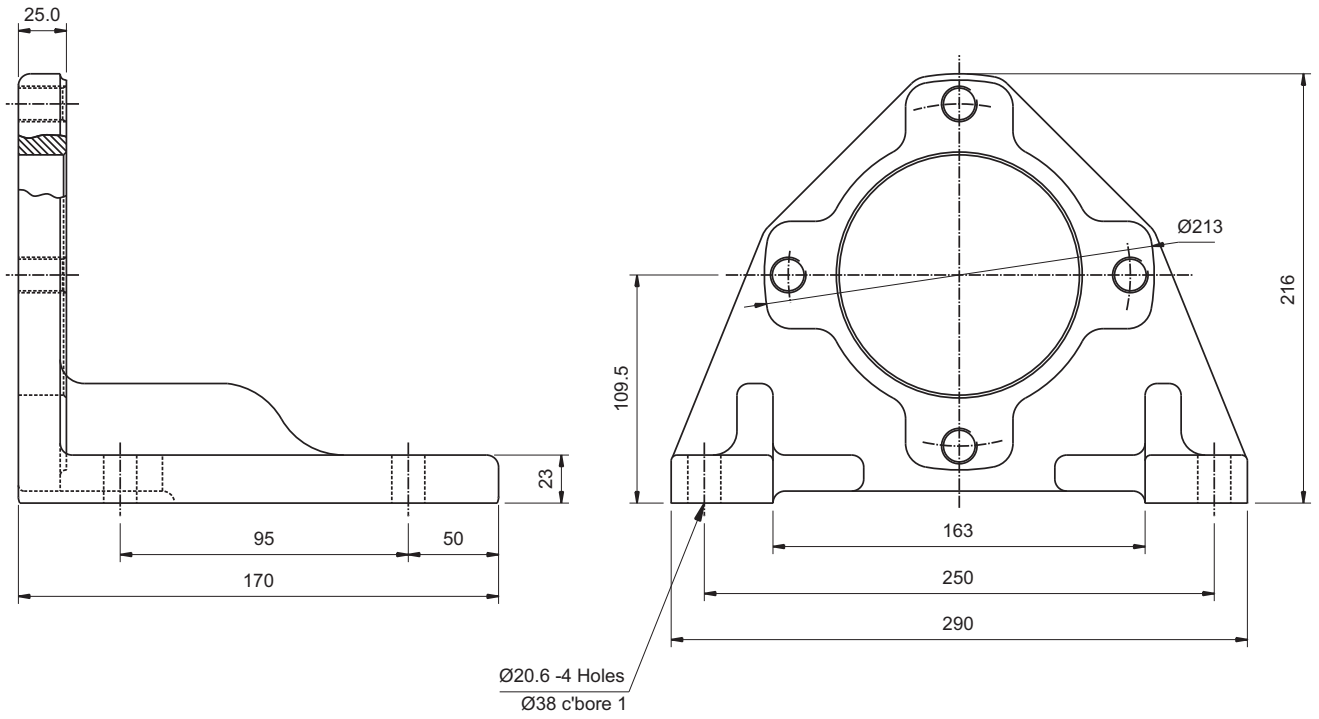
Shaft	Vp x p max.
1	38299 (43283)
2	30638 (34590)
3	54207 (61200)
4	54207 (61200)
5	39238 (44344)

VST7D		
	M0	00
A	M12	1/2-13 UNC
B	M12	7/16-14 UNC

1) 250 bar (3630 psi) max.int

INSTALLATION DRAWING

FOOT MOUNTING



Weight-9.5 Kgs.

OPERATING CHARACTERISTICS (24 cSt)

Pressure port	Series	Volumetric Displacement V _p		Flow q (lpm) & n = 1500 rpm					
				p = 0 bar (0 psi)		p=140bar(2000psi)		p=240bar(3500psi)	
		in ³ /rev	cm ³ /rev	gpm	lpm	gpm	lpm	gpm	lpm
	014	2.68	43.9	18.88	71.4	16.42	62.10	14.78	55.95
	017	3.36	55.0	23.10	87.3	20.60	78.00	18.99	71.88
	020	4.03	66.0	26.19	99.00	23.73	89.70	22.08	83.58
	022	4.29	70.3	28.85	109.21	26.41	99.97	25.31	95.81
	024	4.95	81.1	31.56	119.30	29.10	110.00	27.46	103.95
	028	5.49	89.9	35.58	134.50	33.12	125.20	31.48	119.16
	031	6.05	99.1	39.00	147.50	36.53	138.10	34.89	132.07
	035	6.92	113.4	44.04	166.50	41.58	157.20	39.94	151.18
	038	7.36	120.6	47.72	180.40	45.26	171.10	43.62	165.12
	042	8.39	137.5	53.96	204.00	51.50	194.70	49.86	188.74

Pressure port	Series	Volumetric Displacement V _p		Input power p & n = 1500 rpm					
				p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
		in ³ /rev	cm ³ /rev	hp	kw	hp	kw	hp	kw
	014	2.68	43.9	3.08	2.3	24.81	18.5	41.03	30.6
	017	3.36	55.0	3.35	2.5	29.77	22.2	49.62	37.0
	020	4.03	66.0	3.75	2.8	33.39	24.9	55.92	41.7
	022	4.29	70.3	4.00	2.9	36.50	27.7	63.80	46.6
	024	4.95	81.1	4.02	3.0	39.69	29.6	66.78	49.8
	028	5.49	89.9	4.29	3.2	44.52	33.2	74.96	55.9
	031	6.05	99.1	4.42	3.3	48.54	36.2	81.80	61.0
	035	6.92	113.4	4.69	3.5	54.58	40.7	92.13	68.7
	038	7.36	120.6	4.96	3.7	58.87	43.9	99.64	74.3
	042	8.39	137.5	5.36	4.0	66.25	49.4	112.24	83.7

Max, int. pressure 240 bar
 Max, cont. pressure 210 bar
 Measurement Conditions: ISO VG32 oil at 50°C

CONSTRUCTION



1. Key
2. Shaft
3. Shaft Seal
4. Bearing
5. Retaining Ring
6. Mounting Flange
7. Cartridge
8. Housing
9. Bolts

