

ORDERING CODE



VST7B 1 - B09 - 1 R 00 - D 1 - *

Series

Mounting

- 1 - SAE B
- 2 - SAE C

Cam ring

Volumetric displacement cm^3/rev (in^3/rev)

- B02 = 5.7 (0.35)
- B03 = 9.8 (0.60)
- B04 = 12.8 (0.78)
- B05 = 15.9 (0.97)
- B06 = 19.8 (1.21)
- B07 = 22.5 (1.37)
- B08 = 24.9 (1.52)
- B09 = 28.0 (1.71)
- B10 = 31.8 (1.94)
- B11 = 34.9 (2.13)
- B12 = 40.9 (2.50)

Type of shaft

- 1 - Keyed
- 2 - Keyed
- 4 - Splined

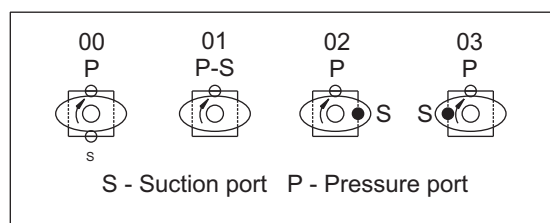
Modifications

Seal Class

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

Design Letter

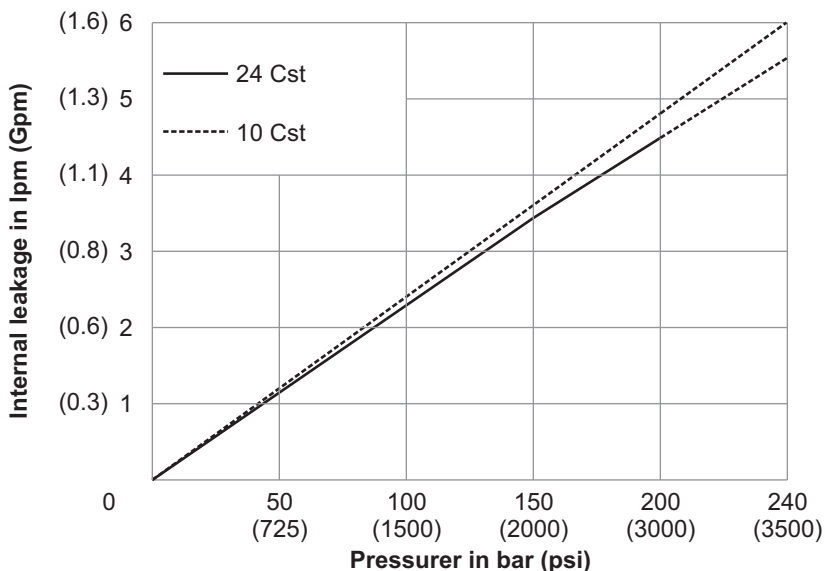
Porting combination



Direction of rotation

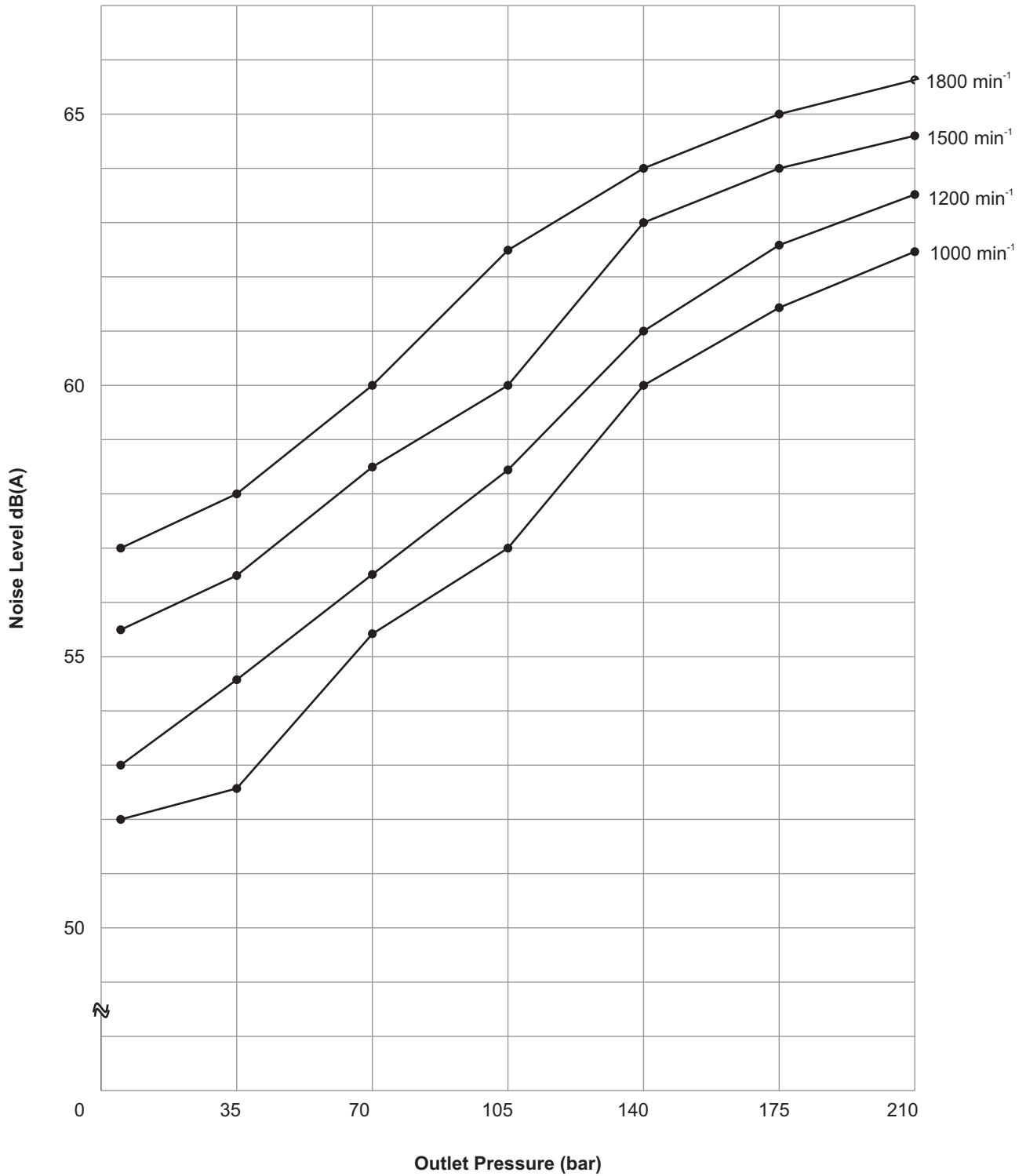
- (view on shaft end)
- R - clockwise
- L - counter-clockwise

INTERNAL LEAKAGE (TYPICAL) VST7B B02 TO B12



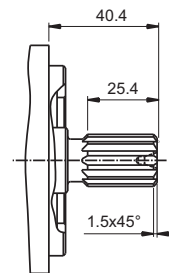
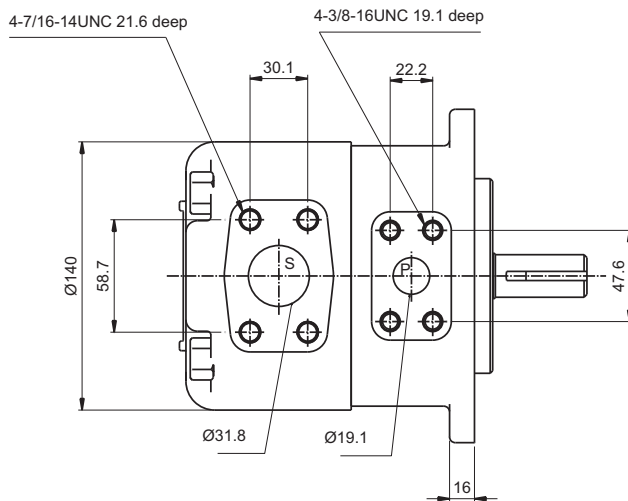
Do not operate pump for more than 5 seconds at any speed or viscosities if internal leakage is more than 50% of theoretical flow.

NOISE LEVEL (TYPICAL)
VST7B-011

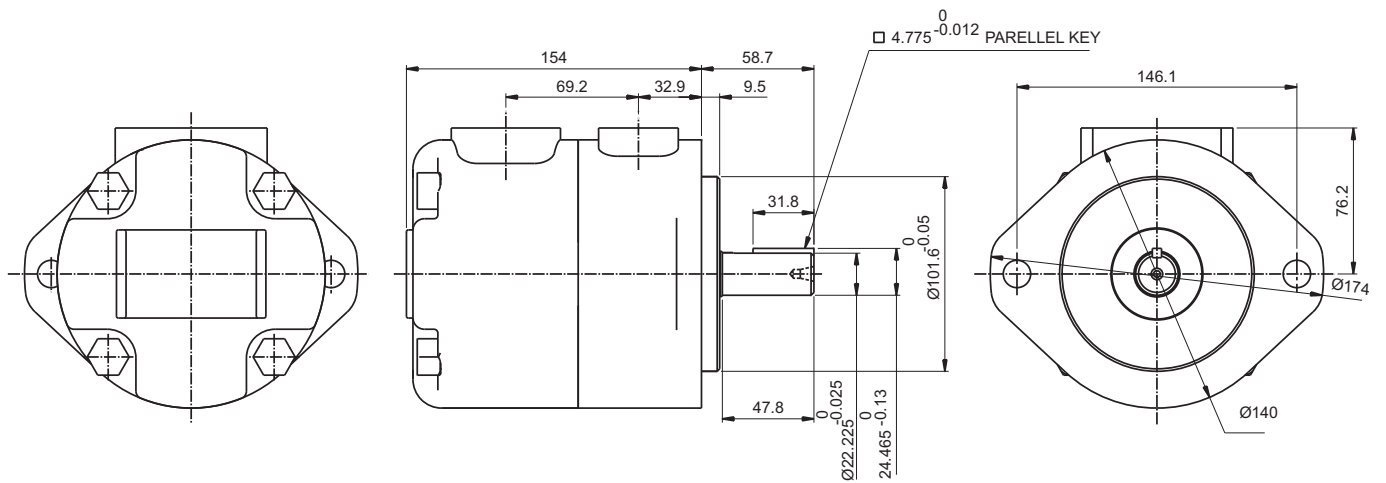


Measurement Conditions: ISO VG32 oil at 50°C and measured 1m from rear of pump cover

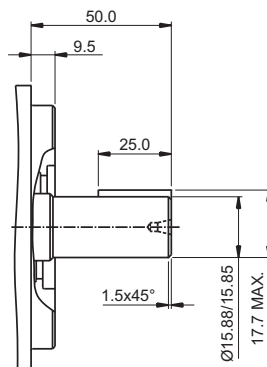
INSTALLATION DRAWING
FLANGE MOUNTING



Shaft Code 4
Involute Splined shaft
Class 1-J498b
16/32 d.p 13 teeth
30° press. angle
Flat root side fit



Shaft Code 1

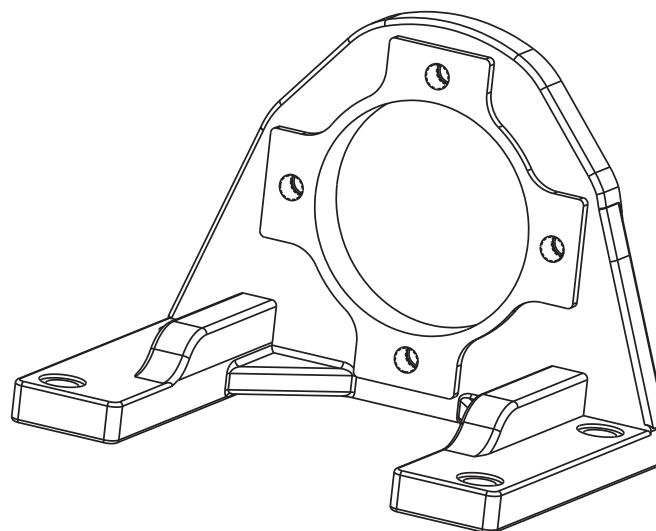
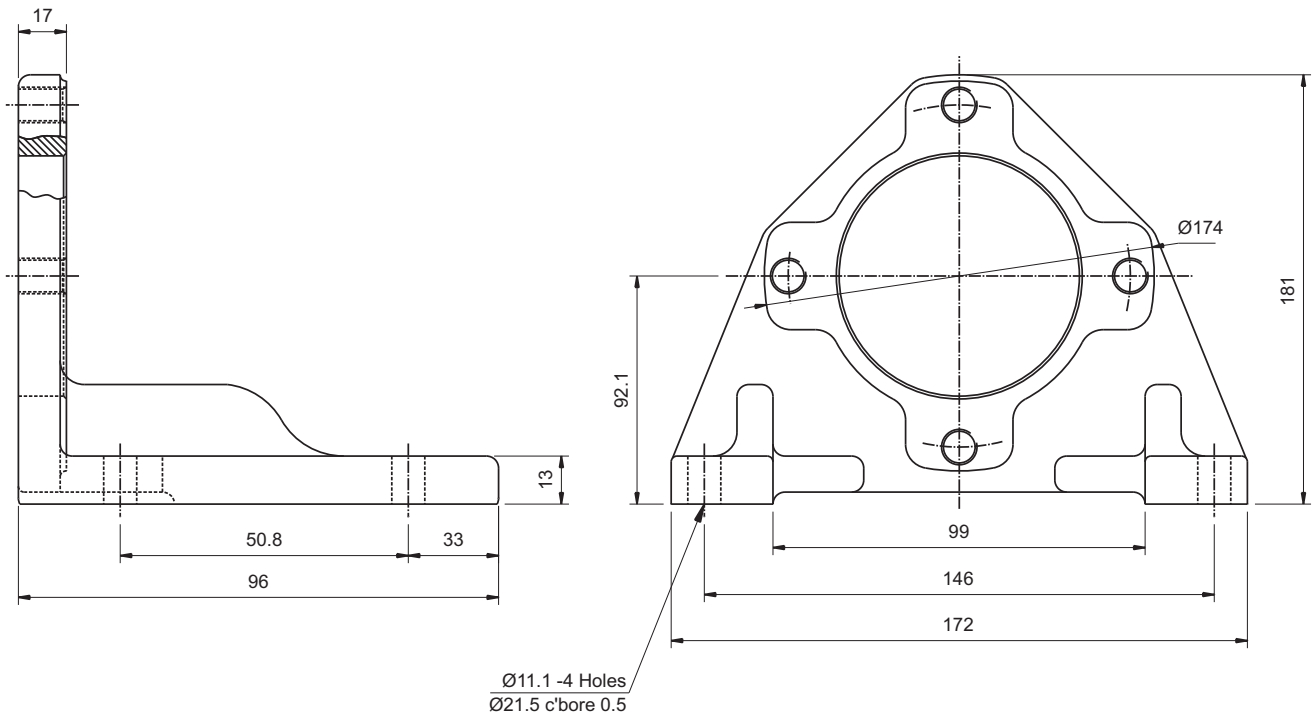


Shaft code 2

INSTALLATION DRAWING

FOOT MOUNTING

SP



Weight-3.0 Kgs.

OPERATING CHARACTERISTICS (24 cSt)

Pressure port	Series	Volumetric Displacement Vp		Flow q (lpm) & n = 1500 rpm					
				p = 0 bar (0 psi)		p=140bar(2000psi)		p=210bar(3000psi)	
		in ³ /rev	cm ³ /rev	gpm	lpm	gpm	lpm	gpm	lpm
	B02	0.35	5.8	2.30	8.70	1.4	5.9	--	--
	B03	0.59	9.8	3.88	14.7	2.9	11.9	--	--
	B04	0.78	12.8	5.08	19.2	4.33	16.4	3.97	15.0
	B05	0.97	15.9	6.31	23.8	5.55	21.0	5.18	19.6
	B06	1.21	19.8	7.85	29.7	4.12	26.9	6.66	25.2
	B07	1.37	22.5	8.92	33.7	8.17	30.9	7.80	29.5
	B08	1.52	24.9	9.89	37.4	9.15	34.6	8.78	33.2
	B09	1.71	28.0	11.11	42.0	10.37	39.2	10.00	37.8
	B10	1.94	31.8	12.61	47.7	11.87	44.9	11.51	43.5
	B11	2.13	34.9	13.85	52.3	13.09	49.5	12.72	48.1
	B12	2.50	41.0	16.27	61.5	15.53	58.7	13.90	52.5

Pressure port	Series	Volumetric Displacement Vp		Input power p & n = 1500 rpm					
				p = 7 bar (100psi)		p=140bar(2000psi)		p=210bar(3000psi)	
		in ³ /rev	cm ³ /rev	hp	kw	hp	kw	hp	kw
	B02	0.35	5.8	0.53	0.4	2.81	2.1	--	--
	B03	0.59	9.8	0.67	0.5	3.62	2.7	--	--
	B04	0.78	12.8	0.93	0.7	5.23	3.9	10.06	7.5
	B05	0.97	15.9	1.00	0.75	6.64	4.9	11.2	8.3
	B06	1.21	19.8	1.07	0.8	8.05	6.0	12.34	9.2
	B07	1.37	22.5	1.20	0.9	9.05	6.7	14.02	10.4
	B08	1.52	24.9	1.34	1.0	10.05	7.5	15.69	11.7
	B09	1.71	28.0	1.47	1.1	11.94	8.9	23.60	17.6
	B10	1.94	31.8	1.6	1.2	13.0	9.7	26.0	19.6
	B11	2.13	34.9	1.7	1.3	14.0	10.5	28.0	21.0
	B12	2.50	41.0	1.8	1.4	15.02	11.2	30.0	22.5

-- Not to use because internal leakage greater than 50 of theoretical flow.
 B12 = Max, int. pressure 210 bar(3000 psi)
 Max, cont. pressure 175 bar (2500 psi), Except B02
 Measurement Conditions: ISO VG32 oil at 50°C

CONSTRUCTION

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

