

VT7A/VT7AS - B06 - 1 R 00 - D 1 02 - --

Series

VT7A series - ISO 2 bolts 3019-2
mounting flange 80 A2 HW

VT7AS series - SAE A 2 bolts
mounting flange J744C

Camring

Volumetric displacement in³/rev (cm³/rev)

B06 = 0.38 (6.1)

B10 = 0.61 (10.0)

B12 = 0.76 (12.5)

B17 = 1.10 (17.5)

B20 = 1.19 (19.5)

B22 = 1.34 (21.9)

B25 = 1.57 (25.8)

Type of shaft VT7A-VT7AS

T7A

2 - Keyed (ISO R775)

T7AS

1 = Keyed (non SAE) 19.05 Dia

3 = Splined 16/32 (SAE B) 13 Teeth

4 = Splined 16/32 (SAE A) 9 Teeth

Direction of rotation (view on shaft end)

R - clockwise

L - counter-clockwise

Modifications

Port Connections

CODE	S	P
00	4 Bolts SAE Flanges	
	1" UNC	3/4" UNC
02	SAE Thread	
	1"5/16 SAE20	1"1/16 SAE12
03	NPTF Thread	
	1"1/4 NPTF	3/4" NPTF
04	BSP Thread	
	1" BSP	3/4" BSP

Seal class

1 = S1 - (for mineral oil)

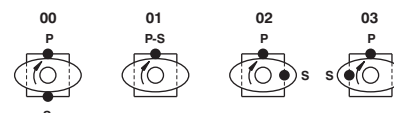
4 = S4 - (for fire resistant fluids)

5 = S5 - (for mineral oil and fire resistant fluids)

Design letter

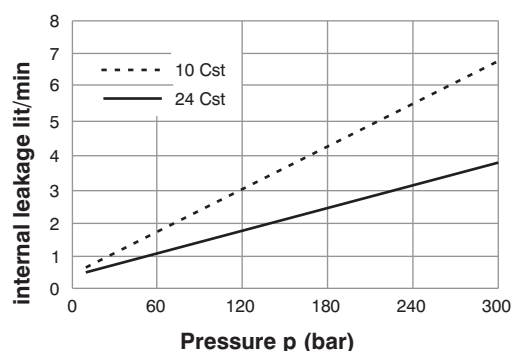
Porting combination

00 - standard



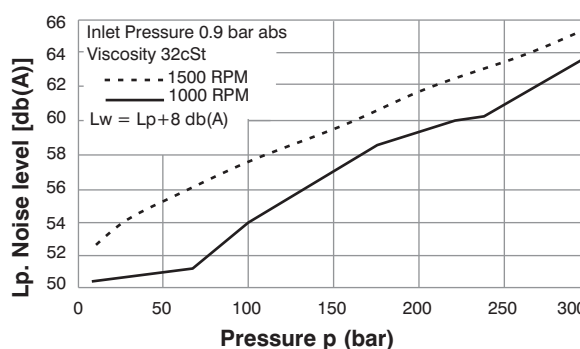
S - Suction port P - Pressure port

INTERNAL LEAKAGE (TYPICAL)

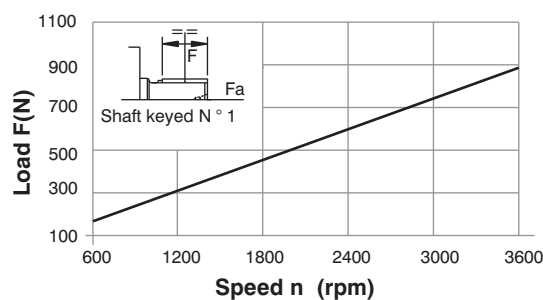


Do not operate pump more than 5 seconds
at any speed or viscosity if internal leakage
is more than 50% of theoretical flow

NOISE LEVEL

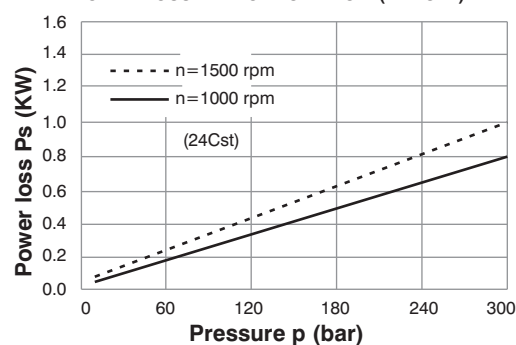


PERMISSIBLE RADIAL LOAD

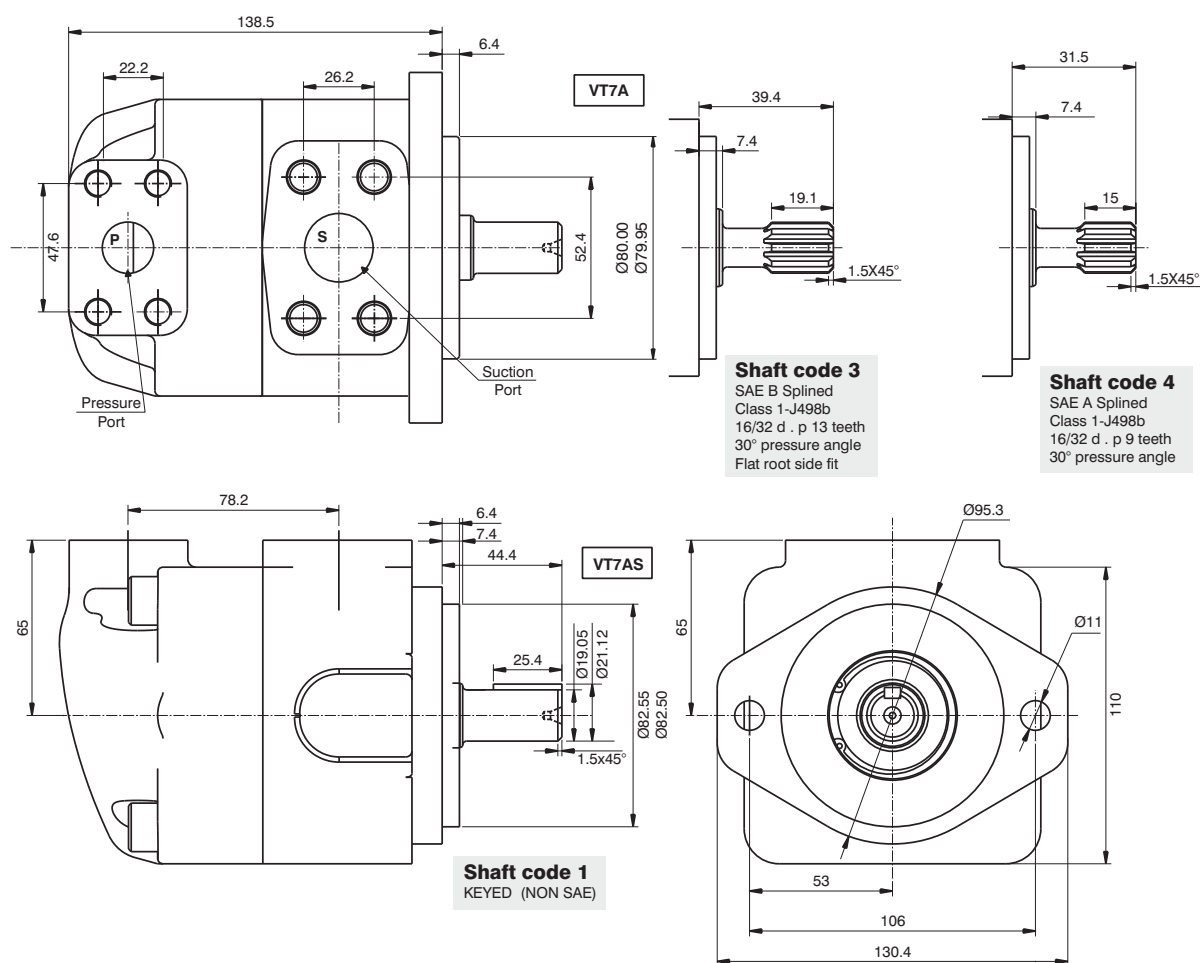


Max permissible axial load Fa=600N

POWER LOSS HYDROMECHANICAL(TYPICAL)



HIGH PERFORMANCE VANE PUMP VT7AS



VP
SP

OPERATING CHARACTERISTICS - TYPICAL (24 cST)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1500 rpm						Input power p & n = 1500 rpm					
				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 300 bar (4350 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 300 bar (4350 psi)	
		in ³ /rev	cm ³ /rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
VT7AS	B06	0.38	6.1	2.42	9.1	1.8	7.0	1.4	5.2	0.3	0.2	3.6	2.7	8.1	6.0
	B10	0.61	10.0	3.96	14.9	3.4	13.0	3.0	11.2	0.4	0.3	5.5	4.1	12.1	9.0
	B12	0.76	12.5	4.95	18.7	4.6	17.5	4.2	15.7	0.5	0.4	6.8	5.1	15.2	11.3
	B17	1.1	17.5	6.93	26.2	6.5	24.5	6.0	22.7	0.67	0.5	8.86	6.6	19.6	14.6
	B20	1.19	19.5	7.72	29.2	7.4	28.0	6.9	26.2	0.8	0.6	10.2	7.6	22.1	16.5
	B22	1.34	21.9	8.67	32.8	8.5	32.1	8.0	30.2	0.8	0.6	11.4	8.5	24.9	18.6
	B25	1.57	25.2	10.2	38.6	9.4	35.7	8.9	33.8	0.9	0.7	12.5	9.3	27.3	20.4

Cartridge	Series	Volumetric Displacement VP		Minimum Inlet Pressure (PSI Absolute/BAR) Allowed									Min. Speed	Max. Speed		Maximum Pressure					
				Speed in RPM										HF-0, HF-1, HF-2	HF-3, HF-4, HF-5	HF-0, HF-2,		HF-1, HF-4, HF-5		HF-3	
		Size	in³/rev	cm³/rev	1200	1500	1800	2100	2300	2500	2800	3000	3600	RPM			Int	Cont	Int	Cont	Int
VT7AS	B06	0.38	6.1	11.6 0.80	11.6 0.80	11.6 0.80	11.6 0.80	11.6 0.80	11.6 0.80	11.6 0.80	11.6 0.80	600	3600	1800	300	275	240	210	175	140	
	B10	0.61	10.0																		
	B12	0.76	12.5																		
	B17	1.10	17.5																		
	B20	1.19	19.5																		
	B22	1.34	21.9																		
	B25	1.57	25.8										12.3 0.85		3000		275	240			

HF-0, HF-2 = Antiwear Petroleum Base HF-1 = Non Antiwear Petroleum base HF-3 = Water in oil Emulsion HF-4 = Water Glycols
For any other information not covered in the above statement the customer may call engineering department for clarification