

HIGH PERFORMANCE VANE PUMP HUT7B / HUT7BS

SP

HUT7B or HUT7BS - B10 - 1 R 00 - A 1 M0 -

Series

VT7B series-100 A2 HW
ISO 2 bolts 3019-2 mounting flange
VT7BS series- SAE B 2 bolts
Mounting flange J744

Camring

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

B02 = 5.7 (0.35) B09 = 28.0 (1.71)
B03 = 9.8 (0.60) B10 = 31.8 (1.94)
B04 = 12.8 (0.78) B11 = 34.9 (2.13)
B05 = 15.9 (0.97) B12 = 40.9 (2.50)
B06 = 19.8 (1.21) B14 = 45.1 (2.75)
B07 = 22.5 (1.37) B15 = 50.0 (3.05)
B08 = 24.9 (1.52)

Type of shaft VT7B-VT7BS

2 - Keyed (ISO R775)

Type of shaft VT7BS

1 - Keyed (SAE B)
3 - Splined (SAE B)
4 - Splined (SAE BB)

Direction of rotation (view on shaft end)

R - clockwise
L - counter-clockwise

Modifications

Mounting W/connection variables

4 bolts SAE flange (J518C)

	UNC VT7BS		METRIC VT7B-VT7BS	
	00	01	M0	M1
P	1"	3/4"	1"	3/4"
S	1 1/2"			

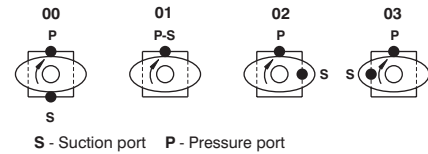
Seal class

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

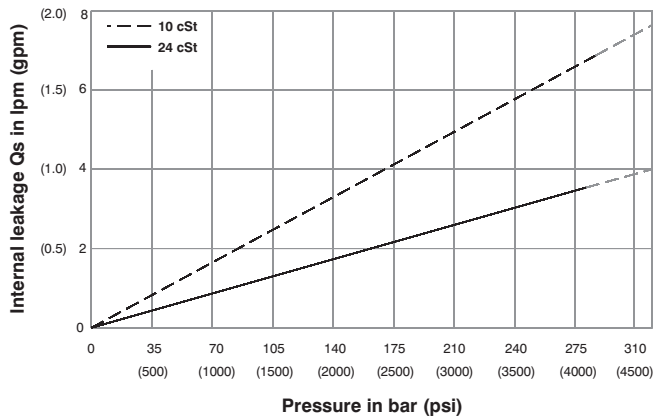
Design letter

Porting combination

00 - standard

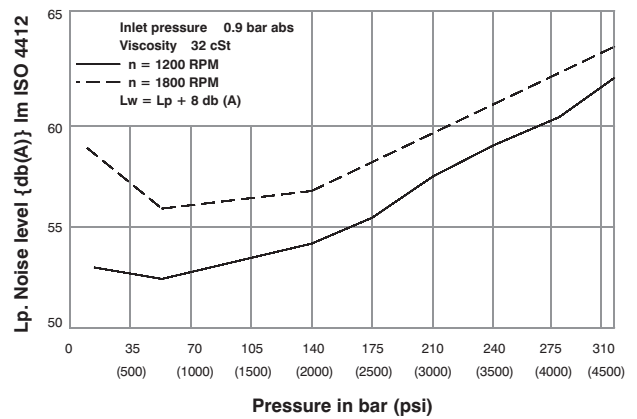


INTERNAL LEAKAGE (TYPICAL)

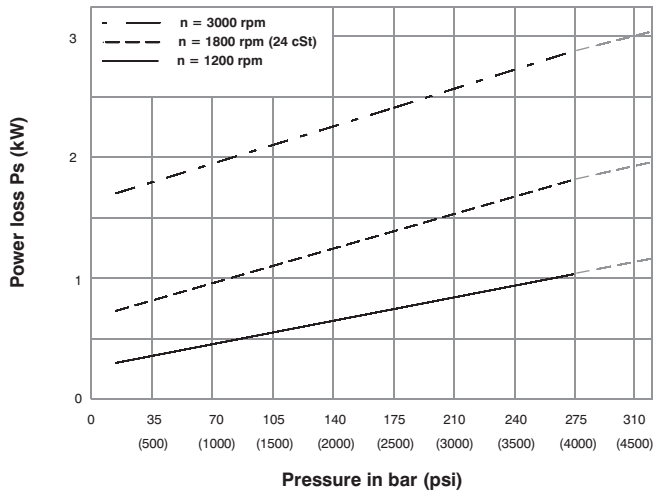


NOISE LEVEL (TYPICAL)

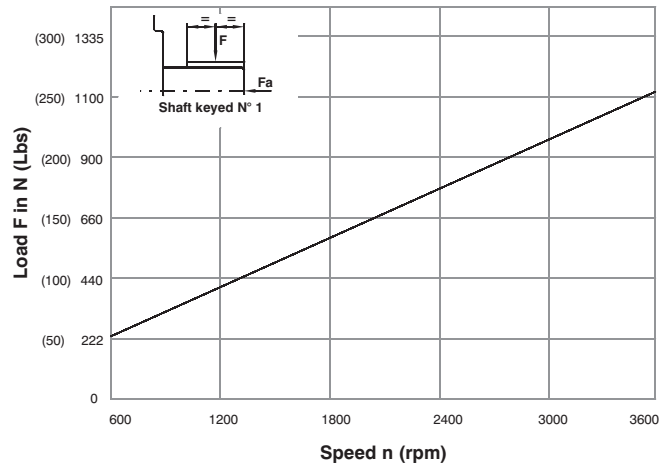
VT7B-B10



HYDROMECHANICAL POWER LOSS (TYPICAL)



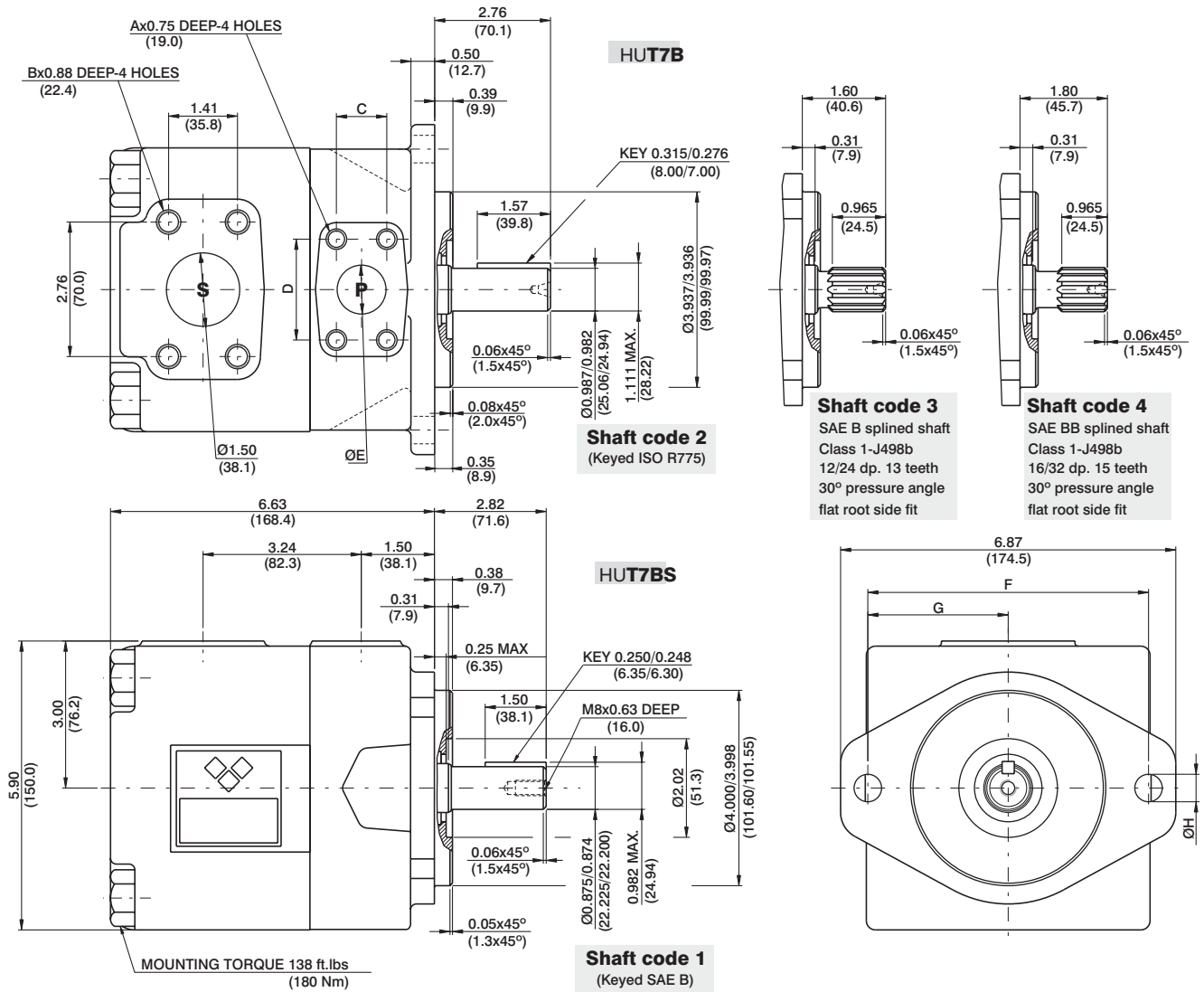
PERMISSIBLE RADIAL LOAD



Maximum axial load permissible $F_a = 800 \text{ N}$ (180 Lbs)

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SP



	HUT7BS		HUT7B	
	00	01	M0	M1
A	3/8-16 UNC		M10	
B	1/2-13 UNC		M12	
C	1.03 (26.2)	0.874 (22.2)	1.03 (26.2)	0.874 (22.2)
D	2.06 (52.4)	1.874 (47.6)	2.06 (52.4)	1.874 (47.6)
ØE	1.00 (25.4)	0.75 (19.05)	1.00 (25.4)	0.75 (19.05)
F	5.75 (146.0)		5.51 (140.0)	
G	2.87 (73.0)		2.75 (70.0)	
ØH	0.56 (14.3)		0.55 (14.0)	

Shaft torque limits in ³ /rev x psi (ml/rev x bar)	
Shaft	Vp x p max.
1	14615 (16516)
2	18246 (20620)
3	18246 (20620)
4	18246 (20620)

OPERATING CHARACTERISTICS - TYPICAL (24 cST)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1800 rpm						Input power p & n = 1800 rpm					
				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 320 bar (4650 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 320 bar (4650 psi)	
		in ³ /rev	cm ³ /rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
HUT7B HUT7BS	B02	0.35	5.7	2.76	10.4	2.33	8.8	1.73	6.5	0.74	0.55	4.02	2.99	8.59	6.40
	B03	0.60	9.8	4.66	17.6	4.23	15.9	3.70	13.7	0.85	0.63	6.24	4.65	13.75	10.25
	B04	0.78	12.8	6.09	23.0	5.66	21.4	5.06	19.2	0.94	0.70	7.90	5.89	17.62	13.13
	B05	0.97	15.9	7.56	28.6	7.13	26.9	6.53	24.7	1.02	0.76	9.62	7.17	21.62	16.12
	B06	1.21	19.8	9.42	35.6	8.99	33.9	8.39	31.7	1.13	0.84	11.79	8.79	26.66	19.88
	B07	1.37	22.5	10.70	40.4	10.27	38.8	9.67	36.5	1.20	0.89	13.29	9.91	30.14	22.47
	B08	1.52	24.9	11.84	44.7	11.41	43.1	10.81	40.9	1.27	0.94	14.62	10.90	33.24	24.78
	B09	1.71	28.0	13.31	50.3	12.87	48.6	12.28	46.4	1.36	1.01	16.35	12.19	37.25	27.77
	B10	1.94	31.8	15.12	57.2	14.69	55.5	14.09	53.4	1.46	1.11	18.45	13.75	42.14	31.42
	B11	2.13	34.9	16.64	62.9	16.19	61.2	15.61 ¹⁾	59.0 ¹⁾	1.55	1.15	20.17	15.04	43.22 ¹⁾	32.22 ¹⁾
	B12	2.50	40.9	19.50	73.7	19.07	72.1	18.54 ¹⁾	70.1 ¹⁾	1.72	1.28	23.55	17.56	50.58 ¹⁾	37.71 ¹⁾
	B14	2.75	45.1	21.40	80.8	20.95	79.2	20.37 ¹⁾	77.0 ¹⁾	1.83	1.36	25.80	19.23	55.48 ¹⁾	41.37 ¹⁾
	B15	3.05	50.0	23.78	89.8	23.35	88.3	22.88 ²⁾	86.5 ²⁾	1.97	1.47	28.55	21.28	57.35 ²⁾	42.76 ²⁾

1) B11-B12-B14 = 300 bar (4350 psi) max. int

2) B15 = 280 bar (4060 psi) max. int