

Series **VT6D** * * * - **B45** - **1** **R** **00** - **C** **1** *

N - Shaft seal installed reverse
Q - Special mounting cap with ear orientation of 20° from standard
M = Mobile 1 shaft seal
P = Mobile 2 shaft seal
Y - Metric port connection (not for code 'Q')
 Omit for UNC

Cam ring
 Volumetric displacement cm³/rev (in³/rev)
 *B14/R14 = 47.6 (2.90) B35/R35 = 110.0 (6.77)
 B17/R17 = 58.2 (3.55) B38/R38 = 120.3 (7.34)
 B20/R20 = 66.0 (4.03) B42/R42 = 136.0 (8.30)
 B24/R24 = 79.5 (4.85) B45/R45 = 145.7 (8.89)
 B28/R28 = 89.7 (5.47) B50/R50 = 158.0 (9.64)
 B31/R31 = 98.3 (6.00) B61/R61 = 190.5 (11.62)
 *'B' - for Mobile 'R' - for Mobile - spring assisted

Type of shaft
M version
 1 - keyed (SAE C)
 2 - keyed (no SAE)
 3 - splined (SAE C)
 4 - splined (no SAE)
 T - splined (SAE J718c)

P version
 3 - splined (no SAE)
 2 - keyed (no SAE)

Modifications

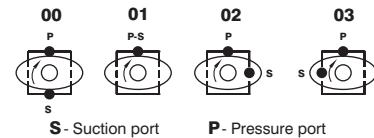
Seal class

- 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

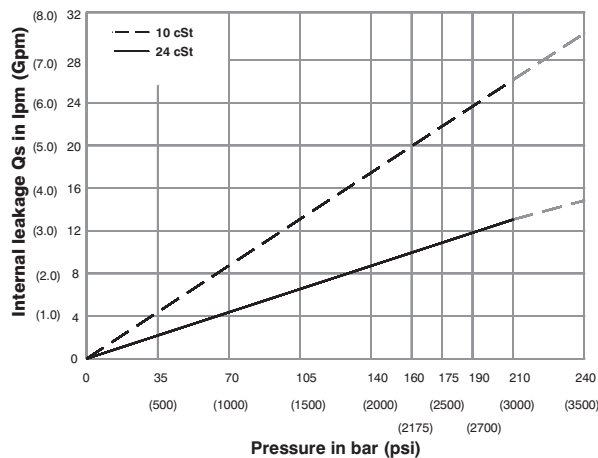


Direction of rotation (view on shaft end)

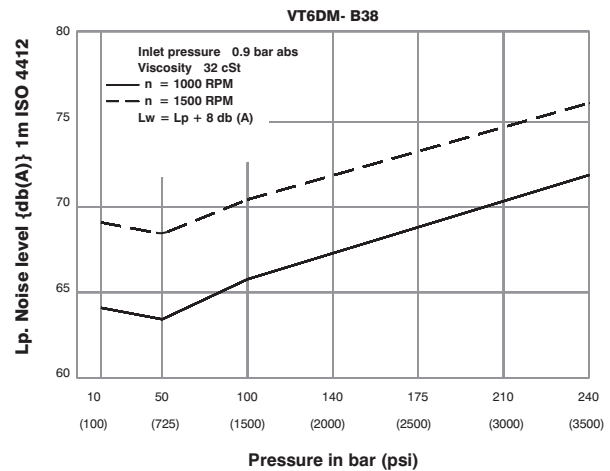
- R - clockwise
- L - counter-clockwise

VP
SP

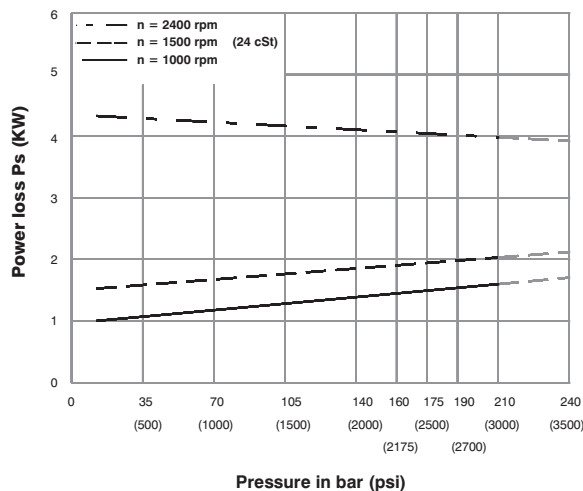
INTERNAL LEAKAGE (TYPICAL)



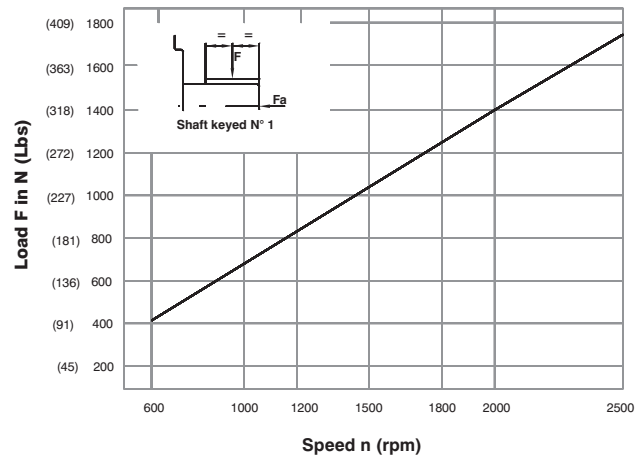
NOISE LEVEL (TYPICAL)



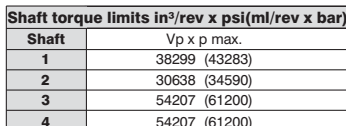
HYDROMECHANICAL POWER LOSS (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load F_a = 1200 N (270 Lbs)



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 = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
		in ³ /rev	cm ³ /rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
VT6DM VT6DP	B14	2.90	47.6	18.88	71.4	16.42	62.1	14.78	55.9	3.08	2.3	24.81	18.5	41.03	30.6
	B17	3.55	58.2	23.1	87.3	20.6	78.0	18.99	71.8	3.35	2.5	29.77	22.2	49.62	37.0
	B20	4.00	66.0	26.19	99.0	23.73	89.7	22.08	83.5	3.75	2.8	33.39	24.9	55.92	41.7
	B24	4.80	79.5	31.56	119.3	29.10	110.0	27.46	103.8	4.02	3.0	39.69	29.6	66.78	49.8
	B28	5.50	89.7	35.58	134.5	33.12	125.2	31.48	119.0	4.29	3.2	44.52	33.2	74.96	55.9
	B31	6.00	98.3	39.00	147.5	36.53	138.1	34.89	131.9	4.42	3.3	48.54	36.2	81.80	61.0
	B35	6.80	111.0	44.04	166.5	41.58	157.2	39.94	151.0	4.69	3.5	54.58	40.7	92.13	68.7
	B38	7.30	120.3	47.72	180.4	45.26	171.1	43.62	164.9	4.96	3.7	58.87	43.9	99.64	74.3
	B42 ¹⁾	8.30	136.0	53.96	204.0	51.50	194.7	49.86	188.5	5.36	4.0	66.25	49.4	112.24	83.7
	B45 ¹⁾	8.89	145.7	57.80	218.5	55.34	209.2	53.70	203.0	5.50	4.1	70.81	52.8	120.02	89.5
	B50 ^{1,2)}	9.64	158.0	62.69	237.0	60.23	227.7	59.25	224.0	5.90	4.4	76.44	57.0	113.98	85.0
	B61 ^{1,3)}	11.62	190.5	76.25	285.7	73.54	278.0	--	--	6.16	4.6	81.26	60.6	--	--

061 = 80 bar (1160 psi) cont.