ORDERING CODE - T7BB - T7BBS SERIES

Model No. T7BB or T7BBS - B10 - B10 - 1 R 00 - A 1 M1 - ..

T7BB series - 100 A2 HW
ISO 2 bolts 3019-2 mounting flange
T7BBS series - SAE B 2 bolts
Mounting flange J744

Displacement P1 and P2
Volumetric displacement (ml/rev)

B02 = 5,8	B09 = 28,0
B03 = 9,8	B10 = 31,8
B04 = 12,8	B11 = 35,0
B05 = 15,9	B12 = 41,0
B06 = 19,8	B14 = 45,0
B07 = 22,5	B15 = 50,0
B08 = 24,9	

Type of shaft T7BB - T7BBS
5 = keyed (ISO R775)

Type of shaft T7BBS
1 = keyed (non SAE)
2 = keyed (SAE BB)
3 = splined (SAE B)
4 = splined (SAE BB)

P1 P2

Modifications

Mounting w/connection variables
4 bolts SAE flange (J518)

	Metric thread T7BB - T7BBS		UNC thread T7BBS	
	M0	M1	00	01
P1	1"	3/4"	1"	3/4"
P2	3/4"			
S	2"1/2			

Seal class
1 = S1 - BUNA N
4 = S4 - EPDM
5 = S5 - VITON

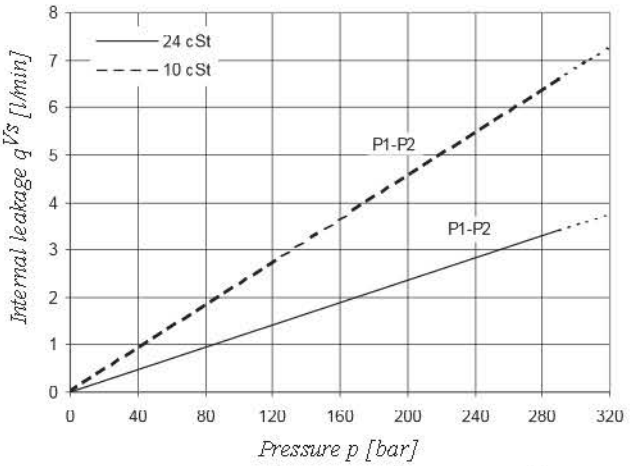
Design letter

Porting combination (see page 62)
00 = standard

Direction of rotation (view on shaft end)
R = Clockwise
L = Counter-clockwise

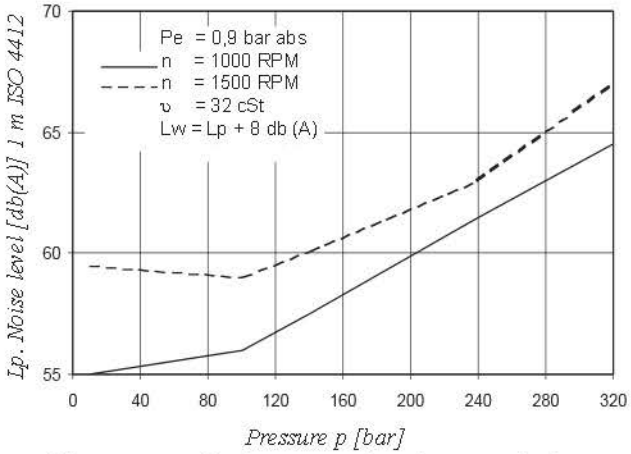
T7BBS-B08-B03-5R00-A1M

INTERNAL LEAKAGE (TYPICAL)



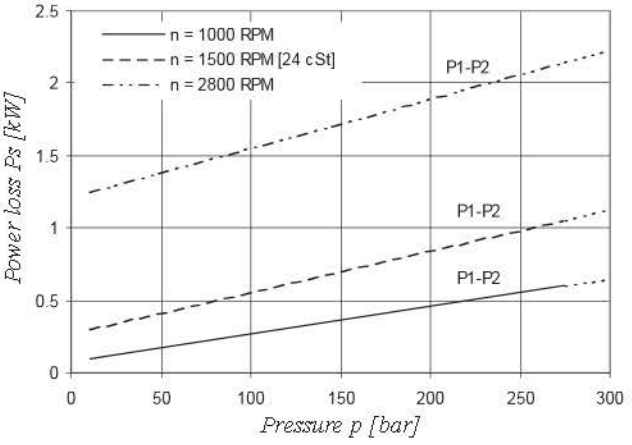
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

NOISE LEVEL (TYPICAL)
T7BB - B10 - B04



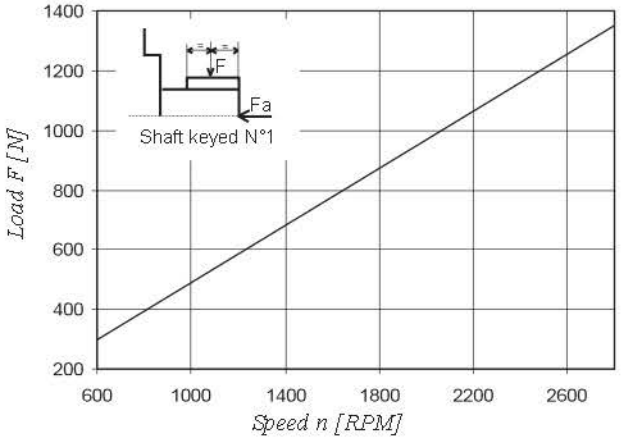
Double pump noise level is given with each section discharging at the pressure noted on the curve.

HYDROMECHANICAL POWER LOSS (TYPICAL)

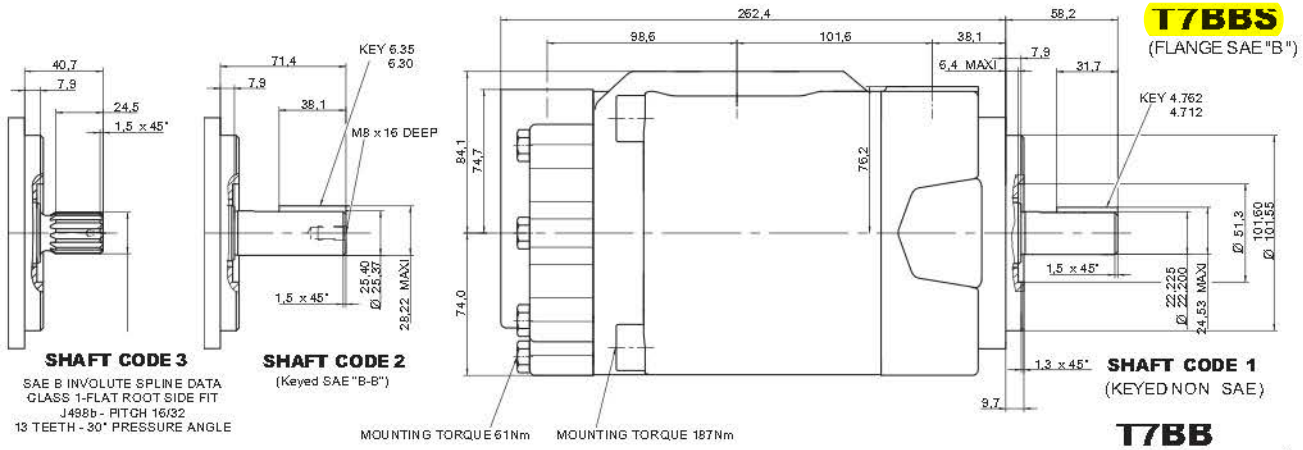


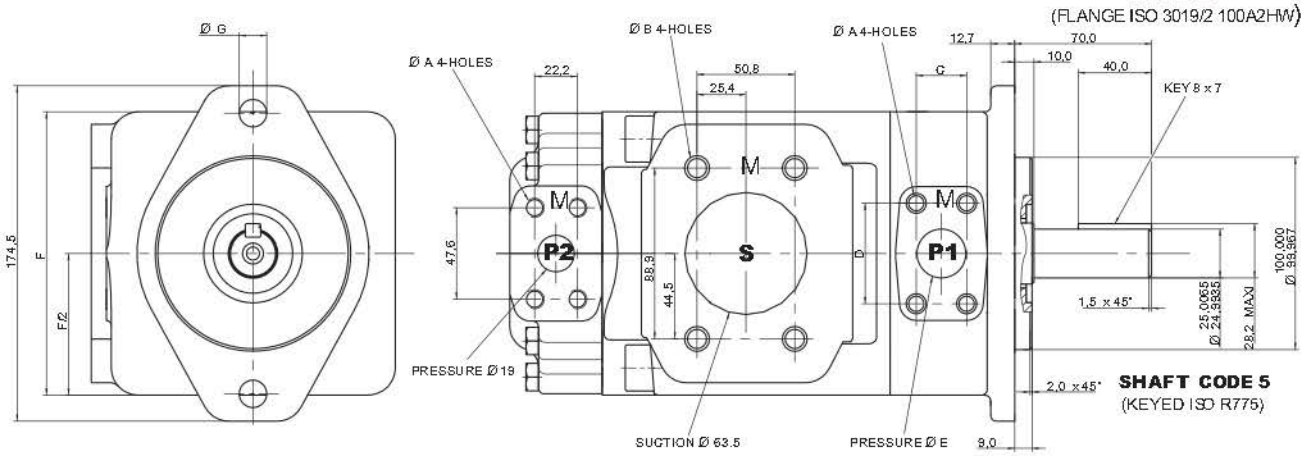
Total hydromechanical power loss is the sum of each section at its operating conditions.

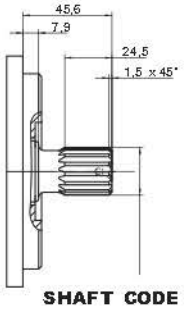
PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N







Shaft torque limits [ml/rev. x bar]	
Shaft	Vi x p max.
1	14300
2	21420
3	20600
4	32670
5	25300

	T7BBS		T7BB	
	00	01	M0	M1
Ø A	3/8" 16 UNC - 19 deep		M10 x 19 deep	
Ø B	1/2" 13 UNC - 22,4 deep		M12 x 22,4 deep	
C	26,20	22,25	26,20	22,25
D	52,4	47,65	52,4	47,65
Ø E	25,4	19,1	25,4	19,1
F	146		140	
G	73		70	
Ø H	14,3		14,0	

OPERATING CHARACTERISTICS – TYPICAL [24 cSt]

Pressure port	Series	Volumetric displacem. Vi	Flow q_{ve} [l/min] & n = 1500 RPM			Input power P [kW] & n = 1500 RPM		
			p = 0 bar	p = 140 bar	p = 320 bar	p = 7 bar	p = 140 bar	p = 320 bar
P1 & P2	B02	5,8 ml/rev	8,7	7,0	4,8	0,5	2,6	5,4
	B03	9,8 ml/rev	14,7	13,0	10,8	0,6	4,0	8,6
	B04	12,8 ml/rev	19,2	17,5	15,3	0,6	5,0	11,0
	B05	15,9 ml/rev	23,9	22,2	20,0	0,7	6,1	13,5
	B06	19,8 ml/rev	29,7	28,0	25,8	0,7	7,5	16,6
	B07	22,5 ml/rev	33,7	32,0	29,9	0,8	8,5	18,8
	B08	24,9 ml/rev	37,4	35,7	33,5	0,8	9,3	20,7
	B09	28,0 ml/rev	42,0	40,9	38,1	0,9	10,4	23,2
	B10	31,8 ml/rev	47,7	46,0	43,8	0,9	11,7	26,2
	B11	35,0 ml/rev	52,5	50,8	48,9 [1)]	1,0	12,8	27,0 [1)]
	B12	41,0 ml/rev	61,5	59,8	57,9 [1)]	1,1	14,9	31,5 [1)]
	B14	45,0 ml/rev	67,5	65,8	63,9 [1)]	1,2	13,3	34,5 [1)]
	B15	50,0 ml/rev	75,0	73,3	71,6 [2)]	1,3	18,1	35,7 [2)]

1) B11 - B12 - B14 – 300 bar max. int. 2) B15 – 280 bar max. int.