Model No. **T7D* or T7DS - B42 - 1 R 00 - A 1 - M0 - ..**

T7D series - 125 A2 HW
ISO 2 bolts 3019-2 mounting flange
T7DS series - SAE C 2 bolts
J744 mounting flange
* Rear drive option available, please contact Parker

Displacement
Volumetric displacement (ml/rev.)

B14 = 44,0	B31 = 99,2
B17 = 55,0	B35 = 113,4
B20 = 66,0	B38 = 120,6
B22 = 70,3	B42 = 137,5
B24 = 81,1	B45 = 145,7
B28 = 90,0	B50 = 158,0

Type of shaft T7D - T7DS
5 = keyed (ISO 3019-2 - G32M)

Type of shaft T7DS
1 = keyed (SAE C) Ø 31,7
2 = keyed (non SAE)
3 = splined (SAE C) 14 teeth
4 = splined (non SAE)

Modifications

Mounting w/connection variables
4 bolts SAE flange J518

	P = 1.1/4" - S = 2"		
	Metric thread		UNC thread
T7D	M0		
T7DS	M0	Y0[1)]	00

[1)] 250 bar max. int.

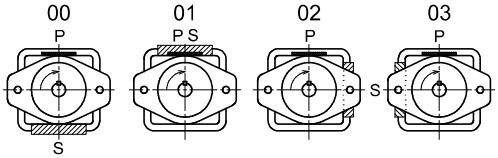
Seal class
1 = S1 BUNA N - 0,7 bar max. (for mineral oil)
4 = S4 EPDM - 7 bar max. (for fire resistant fluids)
5 = S5 VITON® - 7 bar max. (for mineral oil and fire resistant fluids)

Design letter

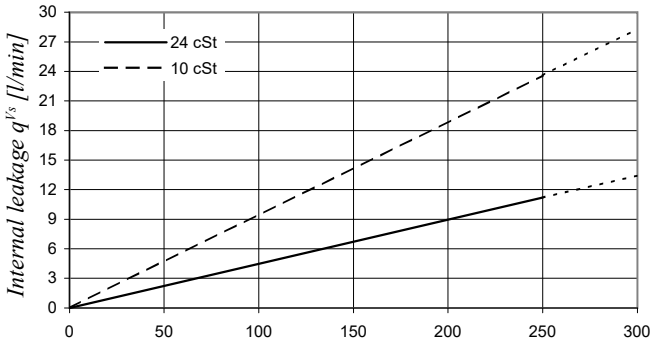
Porting combination
00 = standard

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

P = Pressure port
S = Suction port

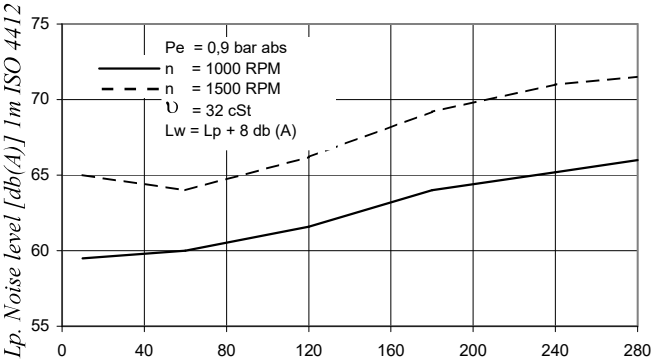


INTERNAL LEAKAGE (TYPICAL)

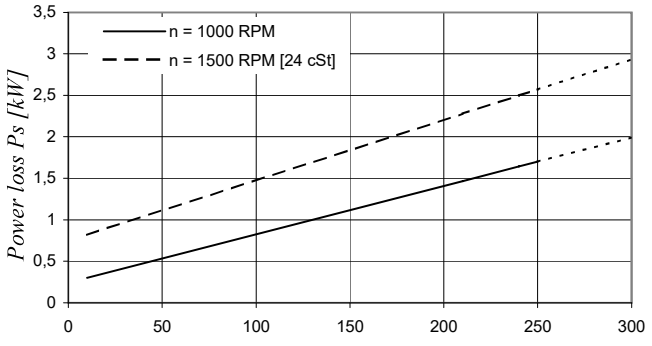


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.

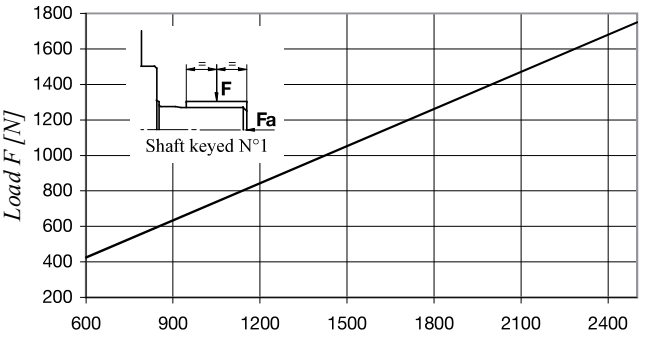
NOISE LEVEL (TYPICAL) - T7D - B31



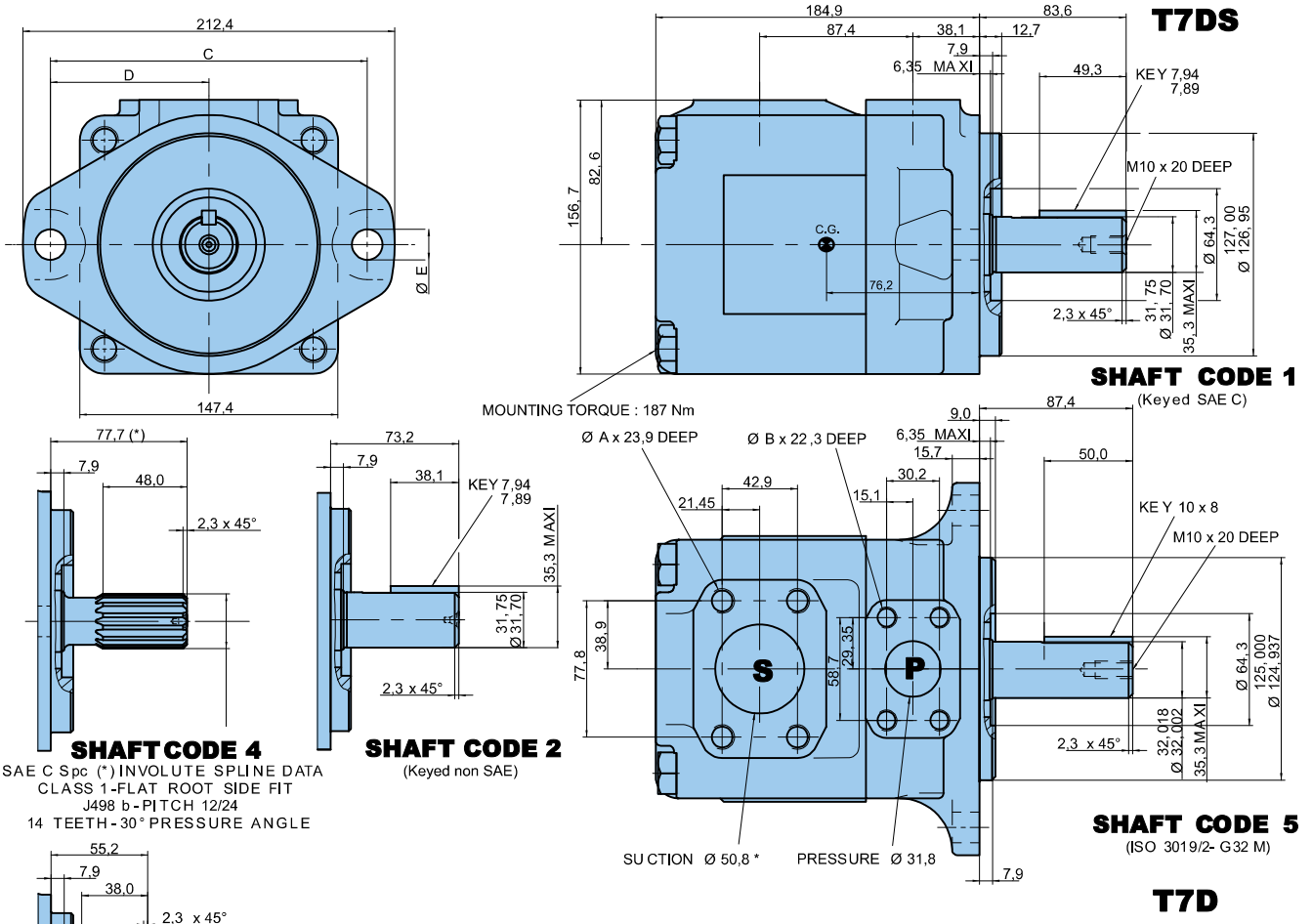
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



Model	T7D	T7DS		
Code	M0	00	M0	YO[1]
Ø A	M12	1/2" - 13 UNC	M12	M12
Ø B	M12	7/16" - 14 UNC	M12	M10
C	180,0	181,0		
D	90,0	90,5		
Ø E	18,0	17,5		

[1] *250 bar max. int.*

Shaft torque limits [ml/rev. x bar]	
Shaft	Vi x p max.
1	43240
2	34590
3	61200
4	61200
5	44300

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Vi Volumetric displacement	Flow q_{ve} [l/min] & n = 1500 RPM			Input power P [kW] & n = 1500 RPM		
			p = 0 bar	p = 140 bar	p = 300 bar	p = 7 bar	p = 140 bar	p = 300 bar
T7D T7DS	B14	44,0 ml/rev	66,0	59,4	51,9	1,5	16,6	34,2
	B17	55,0 ml/rev	82,5	75,9	68,4	1,7	20,4	42,4
	B20	66,0 ml/rev	99,0	92,4	84,9	1,9	24,3	50,7
	B22	70,3 ml/rev	105,5	98,8	91,3	2,0	25,8	53,9
	B24	81,1 ml/rev	121,7	115,0	107,5	2,2	29,5	62,0
	B28	90,0 ml/rev	135,0	128,4	120,9	2,3	32,7	68,7
	B31	99,2 ml/rev	148,8	142,2	134,7	2,5	35,9	75,6
	B35	113,4 ml/rev	170,1	163,5	156,9[1]	2,7	40,8	80,5[1]
	B38	120,6 ml/rev	180,9	174,3	167,7[1]	2,9	43,4	85,6[1]
	B42	137,5 ml/rev	206,3	199,6	194,0[2]	3,2	49,3	90,5[2]
	B45	145,7 ml/rev	218,6	209,2	202,6[3]	4,1	52,8	89,5[3]
	B50	158,0 ml/rev	237,0	227,7	223,0[4]	4,4	57,1	85,0[4]

[1] *B35 - B38 = 280 bar max. int.* [2] *B42 = 260 bar max. int.* [3] *B45 = 240 bar max. int.* [4] *B50 = 210 bar max. int.*

** special 2.1/2" (Ø 63,5) suction also available - Please contact Parker.*

Parker Hannifin
Pump & Motor Division Europe
Vierzon - France