



Industrial Hydraulic Pumps T6CR, T6CRY

Denison Vane Technology, fixed displacement

Hydraulic Pumps

- Hydraulic Motors
- Hydraulic Valves
- Hydraulic Cylinders
- Hydraulic Filtration
- Hydraulic Accumulators



ENGINEERING YOUR SUCCESS.



Ordering Code

Model No. T6CR (Y) - 022 - 1 L 00 - A 1 0 - A 1

Series

Y = Port flanges with metric threads

Cam ring

(Delivery at 0 bar & 1500 r.p.m.)

003 = 16,2 l/min	017 = 87,4 l/min
005 = 25,8 l/min	020 = 95,7 l/min
006 = 31,9 l/min	022 = 105,4 l/min
008 = 39,6 l/min	025 = 118,9 l/min
010 = 51,1 l/min	028 = 133,2 l/min
012 = 55,6 l/min	031 = 150,0 l/min
014 = 69,0 l/min	

Type of shaft

- 1 = keyed (SAE BB)
- 2 = keyed (non SAE)
- 3 = splined (SAE B)
- 4 = splined (SAE BB)
- 5 = keyed (non SAE)

Direct. of rotation (view on shaft end)

- R = clockwise
- L = counter-clockwise

Porting combination

00 = standard

Modification

Seal class

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

Design letter

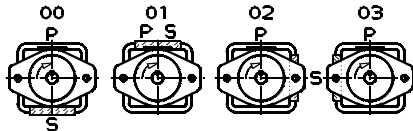
Porting adaptor

Coupling

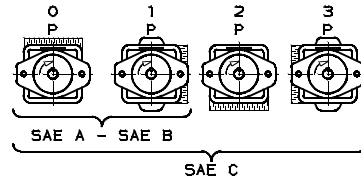
- 1 = SAE A
- 2 = SAE B
- 3 = SAE BB
- 4 = SAE C
- 5 = SAE J498b
- 16/32 - 11 teeth

Adaptor

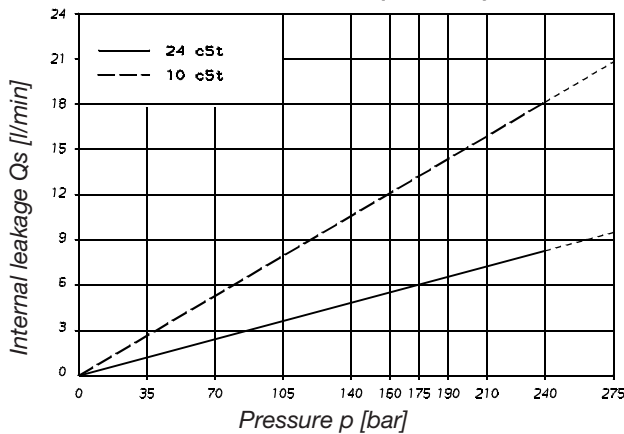
- 0 = None
- A = SAE A
- B = SAE B
- C = SAE C



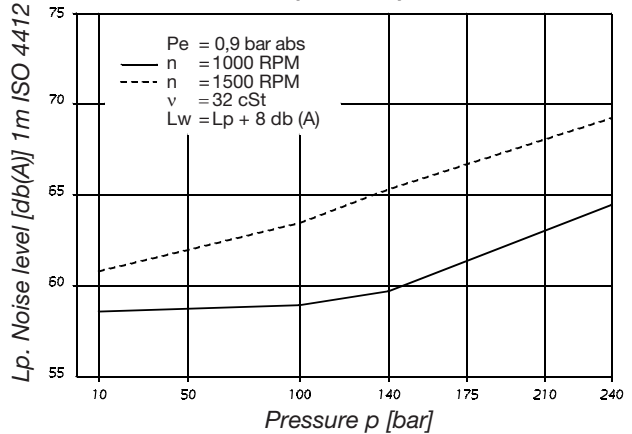
Porting adaptor



INTERNAL LEAKAGE (TYPICAL)

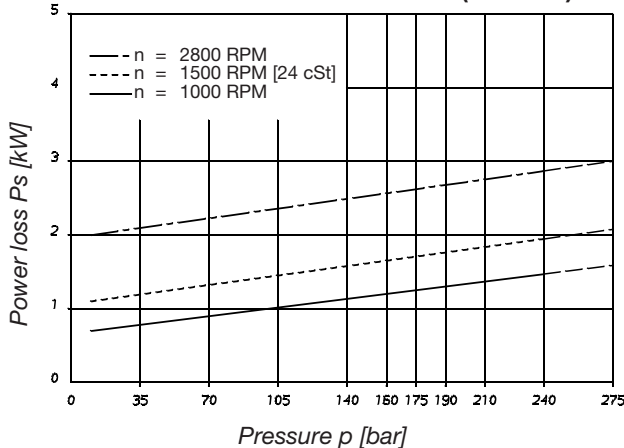


NOISE LEVEL (TYPICAL) - T6CR - 022

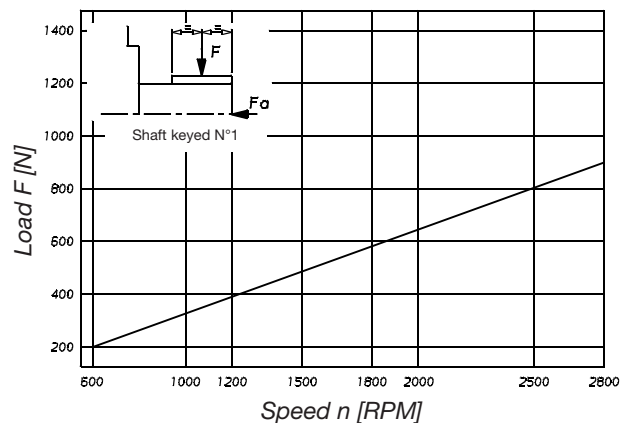


Do not operate the pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow

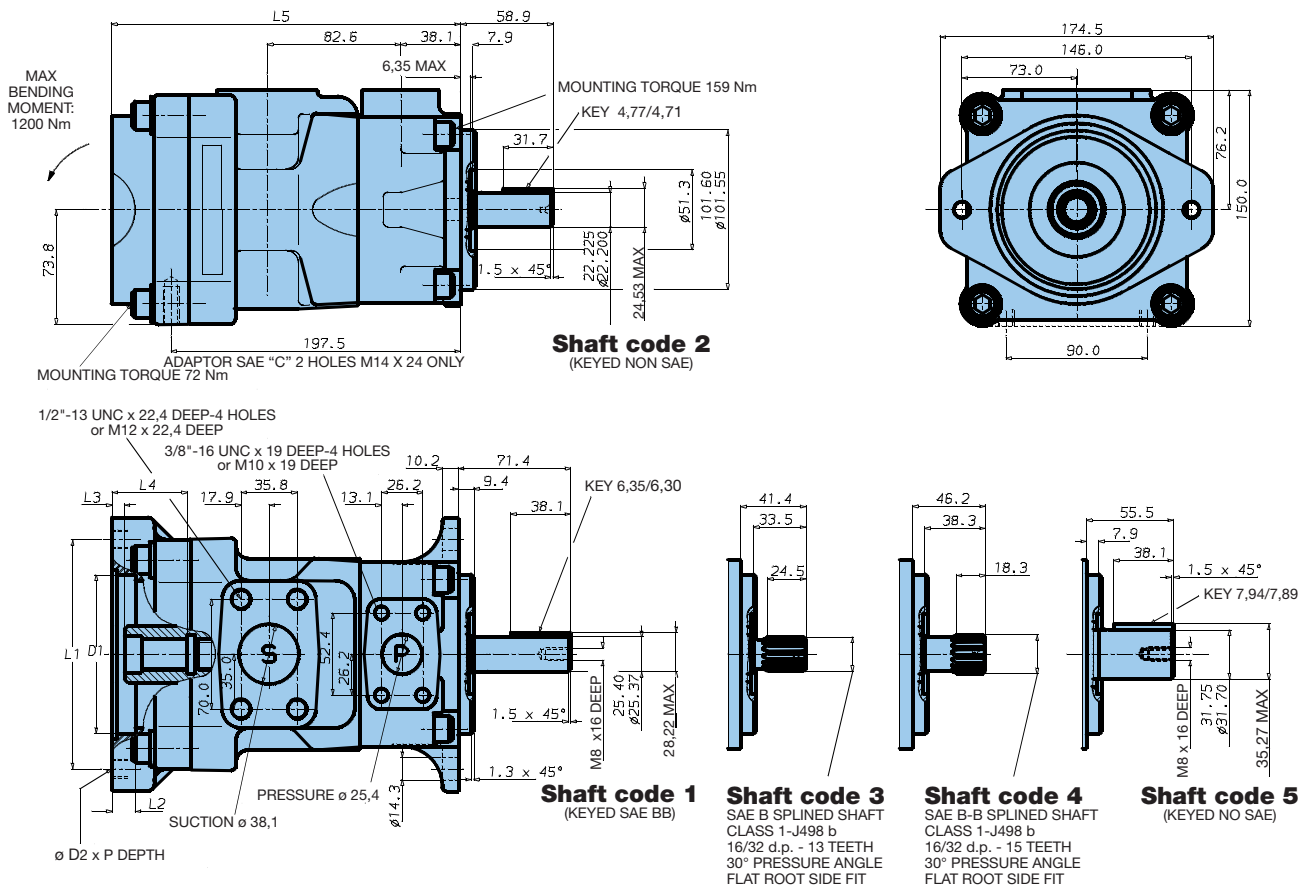
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N



Adaptor	D1	D2	P	L1	L2	L3	L4	L5
SAE A	82,65/82,60	M10	24	106,4	11,0	8,0	32,0	209,0
SAE B	101,70/101,65	M12	28	146,0	16,0	8,0	46,0	223,0
SAE C	127,10/127,05	M16	-	181,0	16,0	8,0	56,0	233,0

Weight 20,4 kg

Adaptor	SAE A			SAE B		SAE C
Coupling drive	SAE A	SAE 11 teeth	SAE B	SAE B	SAE BB	SAE C
Number of teeth	9	11	13	13	15	14
Pitch	16/32	16/32	16/32	16/32	16/32	12/24
Pressure angle	30°	30°	30°	30°	30°	30°
Major dia. (min)	15,875	19,05	22,225	22,225	25,400	31,750
Minor dia. (min)	12,700	16,017	19,134	19,134	22,268	27,589

Shaft torque limits [ml/rev x bar]			
Shaft	Vi x p max.	Coupling drive	Vi x p max.
1	21420	SAE A	11000
2	14300	SAE B	20600
3	20600	SAE BB	22050
4	32670	SAE C	22050
5	34180	SAE - 11 teeth	15850

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vi	Flow Q [l/min] & n = 1500 RPM			Input power P [kW] & n = 1500 RPM		
		p = 0 bar	p = 140 bar	p = 240 bar	p = 7 bar	p = 140 bar	p = 240 bar
003	10,8 ml/rev	16,2	11,2	7,7	1,3	5,3	8,4
005	17,2 ml/rev	25,8	20,8	17,3	1,4	7,5	12,2
006	21,3 ml/rev	31,9	26,9	23,4	1,5	8,9	14,7
008	26,4 ml/rev	39,6	34,6	31,1	1,6	10,7	17,7
010	34,1 ml/rev	51,1	46,1	42,6	1,7	13,4	22,3
012	37,1 ml/rev	55,6	50,6	47,1	1,7	14,4	24,1
014	46,0 ml/rev	69,0	64,0	60,5	1,9	17,6	29,5
017	58,3 ml/rev	87,4	82,4	78,9	2,1	21,9	36,9
020	63,8 ml/rev	95,7	90,7	87,2	2,2	23,8	40,2
022	70,3 ml/rev	105,4	100,4	96,9	2,3	26,1	44,1
025 ¹⁾	79,3 ml/rev	118,9	113,9	110,4	2,5	29,2	49,5
028 ¹⁾	88,8 ml/rev	133,2	128,2	125,8 ²⁾	2,8	32,7	48,5 ²⁾
031 ¹⁾	100,0 ml/rev	150,0	145,0	142,6 ²⁾	2,8	36,5	54,4 ²⁾

¹⁾ 025 - 028 - 031 = 2500 R.P.M. max. ²⁾ 028 - 031 = 210 bar max. int. Port connection can be furnished with metric threads.