



DTA
Damen Technical Agencies



Industrial Hydraulic Pumps T7E, T7ES

Denison Vane Technology, fixed displacement

Hydraulic Pumps

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



ENGINEERING YOUR SUCCESS.

We are doing our parts to keep you moving!

DTA your 1 Stop Shop for Hydraulics, Pneumatics and Power Transmissions.

DECLARATION OF CONFORMITY

DTA Hydraulics is a tradename of Damen Technical Agencies BV, supplying hydraulic parts to various industries since 1990. As a Certified Distributor Hydraulics by Parker Hannifin and Authorized Denison Vane Pump Assembler, we guarantee the use of original parts and components. As such we provide you with vane pumps of the same level of quality and warranty conditions as the factory does.

We highly recommend to **use genuine Denison Hydraulics spare parts only** in order to ensure smooth operation and longer service life. Spare parts that we have on stock include pump cartridge kits, shaft and bearing assemblies, seal kits and non-wearing parts of both the T6 and T7 series vane pumps.



**ALL VANE PUMPS SUPPLIED OR REPAIRED BY
DTA HYDRAULICS HAVE BEEN ASSEMBLED ACCORDING
TO THE LATEST FACTORY SPECIFICATIONS WITH
BRAND NEW AND GENUINE DENISON HYDRAULICS PARTS**

We are able to provide you a large variety of options of the original Parker Denison single, double, and triple vane pumps. We can build any customized vane pump from our stock of genuine parts. You can now easily configure that vane pump yourself with the Denison Hydraulics Vane Pump Configurator.

vanepump.eu/vanepumps

Use advanced search to filter results based on configurable options and select any of the 25,000 vane pumps that are listed in our online catalogue. Most of the models are available from stock and ready for shipment to any place in the world instantly. We can supply **Any part, Anytime, Anywhere!**



Model No.

T7E* or T7ES - 072 - 1 R 00 - A 1 - M0 - ..

T7E series - 125 A2 HW
ISO 2 bolts 3019-2 mounting flange
T7ES series - SAE C 2 bolts
J744 mounting flange
* Rear drive option available, please contact Parker.

Displacement
Volumetric displacement (ml/rev.)
042 = 132,3 057 = 183,3
045 = 142,4 062 = 196,7
050 = 158,5 066 = 213,3
052 = 164,8 072 = 227,1
054 = 171,0 085 = 268,7

Type of shaft T7E - T7ES
5 = keyed (ISO R775 - G38M)

Type of shaft T7ES
1 = keyed (SAE CC)
2 = keyed (non SAE)
3 = splined (SAE C) 14 teeth
4 = splined (SAE CC) 17 teeth

Modifications

Mounting w/connection variables
4 bolts SAE flange J518

	T7E - T7ES Metric thread	T7ES UNC thread
	M0	00
P	1.1/2"	
S	3"	

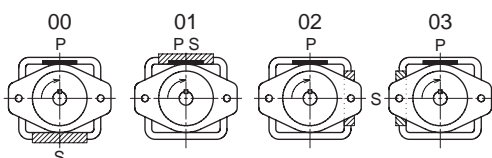
Seal class
1 = S1 BUNA N - 0,7 bar max. (for mineral oil)
4 = S4 EPDM - 7 bar max. (for fire resistant fluids)
5 = S5 VITON® - 7 bar max. (for mineral oil and fire resistant fluids)

Design letter

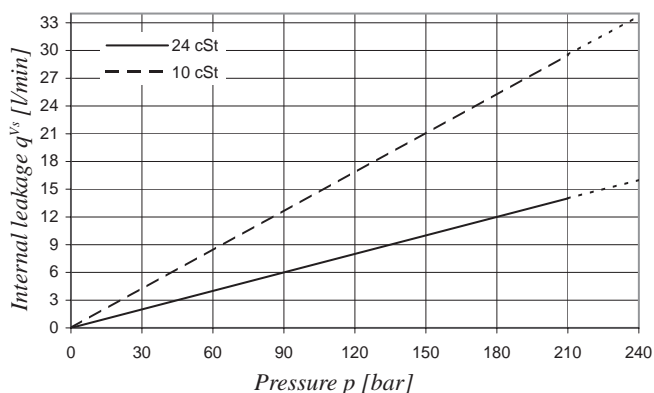
Porting combination
00 = standard

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

P = Pressure port
S = Suction port

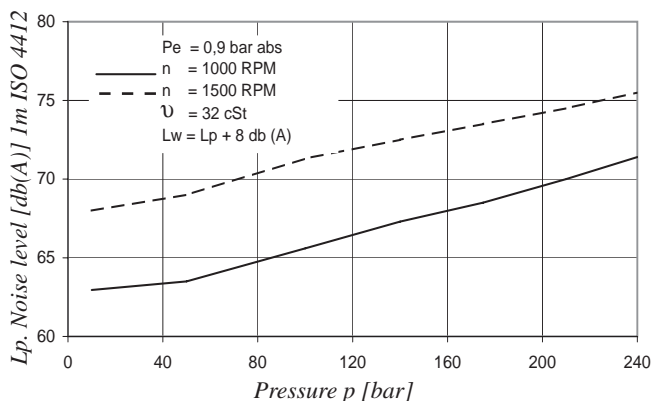


INTERNAL LEAKAGE (TYPICAL)

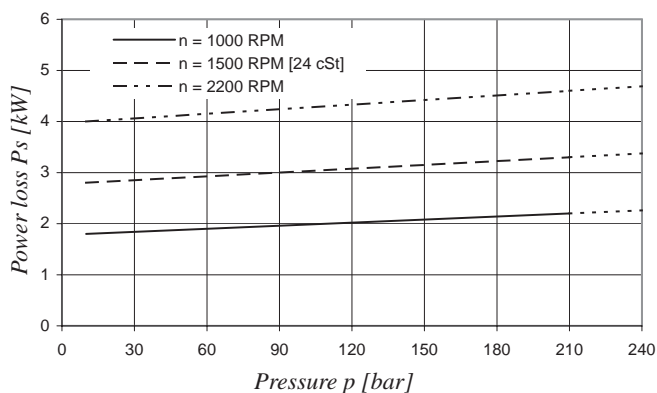


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.

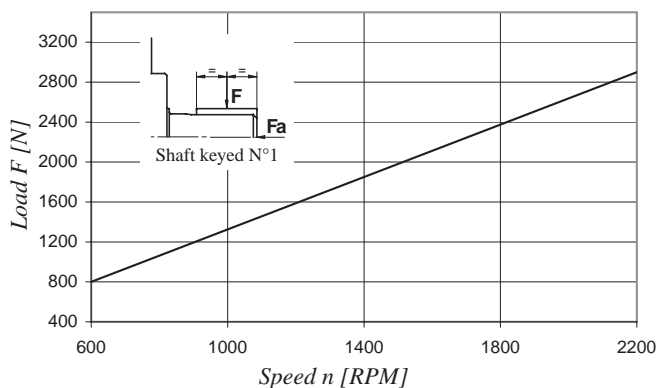
NOISE LEVEL (TYPICAL) - T7ES - 050



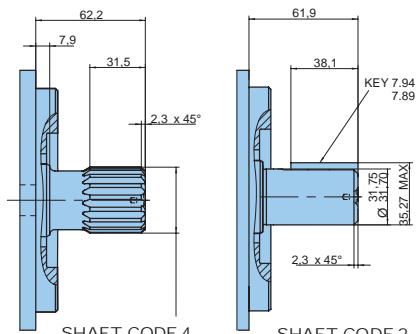
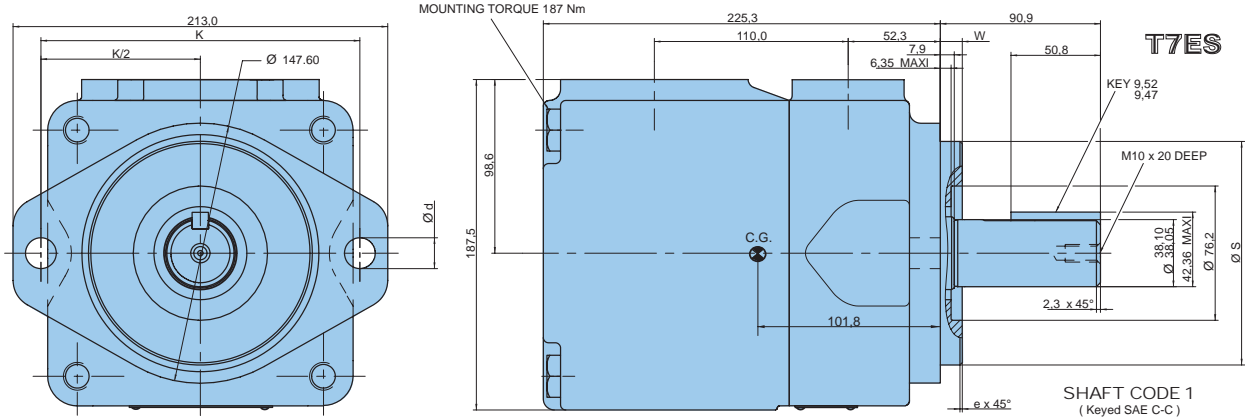
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD

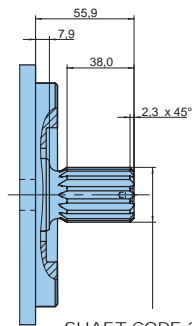


Maximum permissible axial load Fa = 2000 N

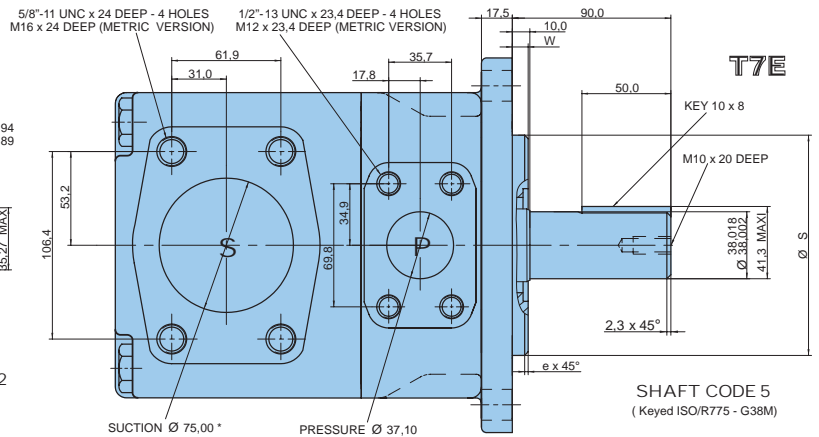


SHAFT CODE 4
SAE CC INVOLUTE SPLINE DATA
CLASS 1-FLAT ROOT SIDE FIT
J498b - PITCH 12/24
17 TEETH - 30° PRESSURE ANGLE

SHAFT CODE 2
(Keyed no SAE)



SHAFT CODE 3
SAE C INVOLUTE SPLINE DATA
CLASS 1-FLAT ROOT SIDE FIT
J498b - PITCH 12/24
14 TEETH - 30° PRESSURE ANGLE



SUCTION Ø 75,00 *

PRESSURE Ø 37,10

SHAFT CODE 5
(Keyed ISO/R775 - G38M)

Shaft torque limits [ml/rev. x bar]	
Shaft	Vi x p max.
1	54500
2	34590
3	61200
4	61200
5	54500

Alternate mounting flange						
	Dia S		e x 45°	W	K	Dia d
	Max.	Min.				
T7E	125,000	124,937	2,0	9,5	180,0	18,0
T7ES	127,000	126,950	1,3	12,7	181,0	17,5

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Vi Volumetric displacement	Flow q _v [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
T7E T7ES	042	132,3 ml/rev	198,5	188,5	181,3	5,2	49,4	82,6
	045	142,4 ml/rev	213,6	203,6	196,5	5,4	52,9	88,7
	050	158,5 ml/rev	237,7	227,7	220,6	5,7	58,5	98,3
	052	164,8 ml/rev	247,2	237,2	230,1	5,8	60,8	102,1
	054	171,0 ml/rev	256,5	246,5	239,4	5,9	63,0	105,8
	057	183,3 ml/rev	275,0	265,0	257,9	6,1	67,3	113,2
	062	196,7 ml/rev	295,0	285,0	277,9	6,4	71,9	121,3
	066	213,3 ml/rev	319,9	309,0	302,8	6,7	77,7	131,2
	072	227,1 ml/rev	340,6	330,6	323,5	6,9	82,6	139,5
	085	268,7 ml/rev	403,0	392,0 ¹⁾	-	9,1	65,8 ¹⁾	-

¹⁾ 085 = 90 bar max. int.

* special 3"1/2 (Ø 88,9) suction also available - Please contact Parker.



DTA

Damen Technical Agencies

OVER 25 YEARS

we are doing our parts to keep you moving!

DTA your ONE Stop Shop

for Hydraulics, Pneumatics and Power Transmissions

Damen Technical Agencies B.V.

Prins Willemstraat 10 - 4791 JR Klundert - The Netherlands

+31 - 168 - 407 144

info@vanepump.eu - vanepump.eu - dta.eu



DTA

Damen Technical Agencies