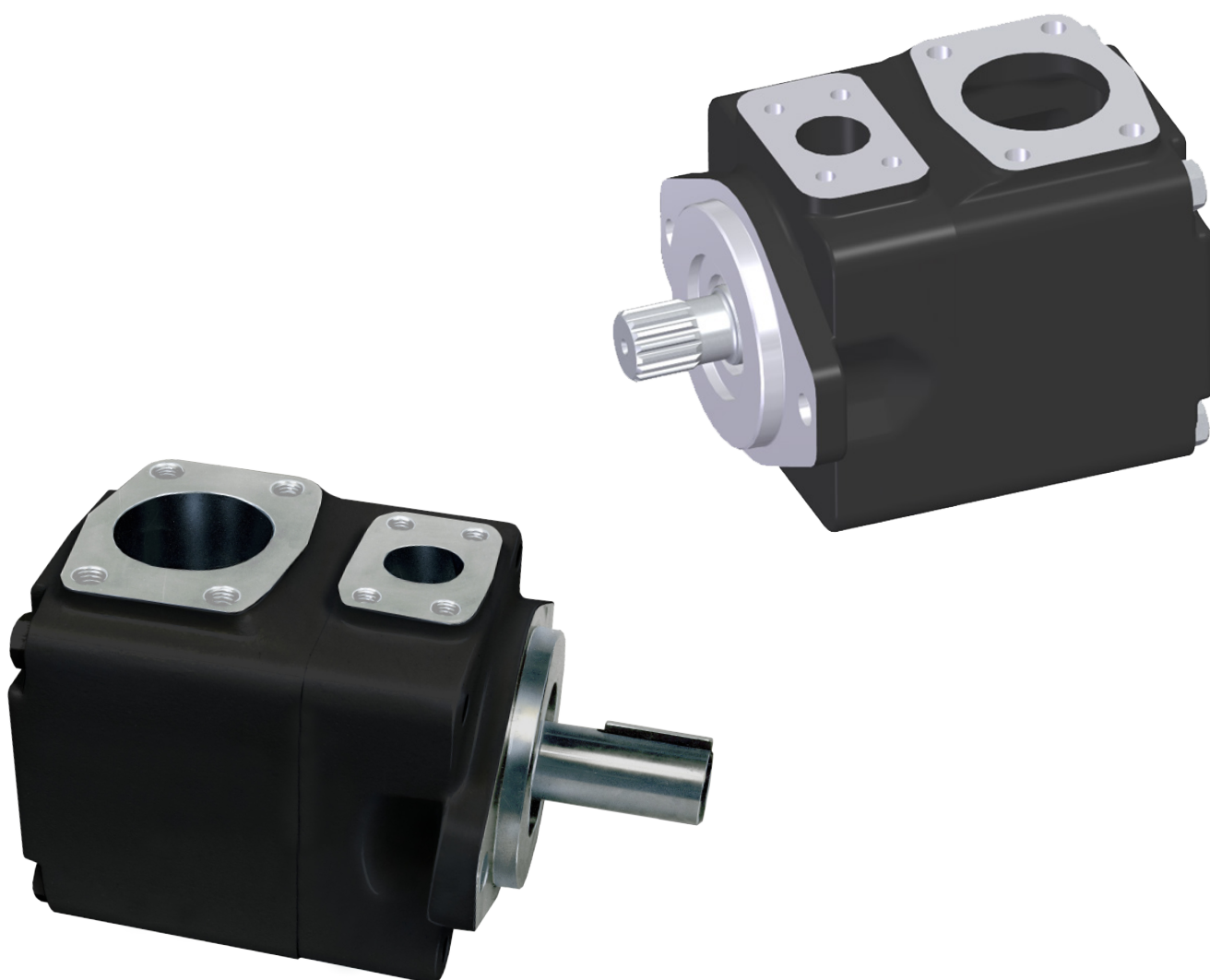


Hydraulic Pumps T7ES for variable speed drives

Denison Vane Technology



ENGINEERING YOUR SUCCESS.

Key features

Reliable performance

These T7ES hydraulic pumps have been designed especially for variable speed drives and are offering a wide speed range. Like all our T7 Series vane pumps, the performances do remain very stable over time, making this pump an ideal solution for modern electro-hydraulically operated machines.

Long lifetime

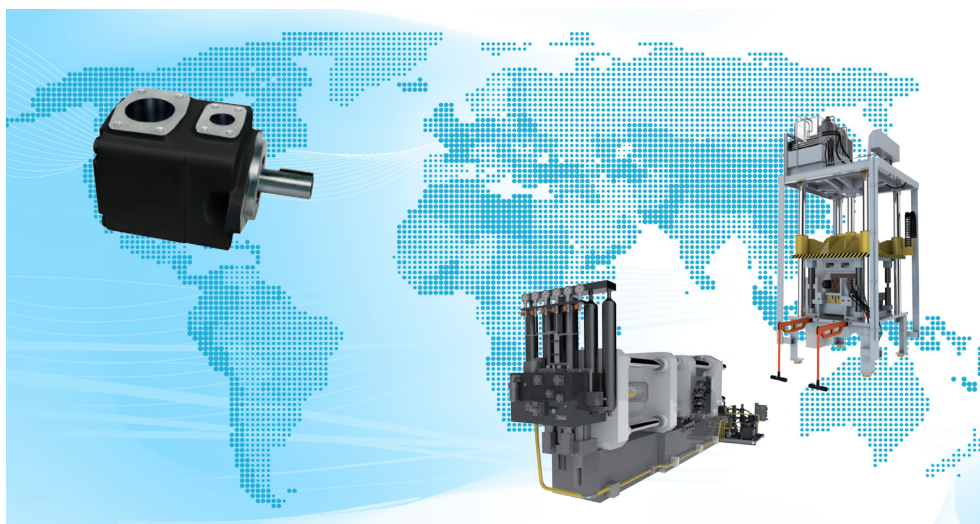
The fully pressure balanced concept increases the pump lifetime over its full operating range while double lip vanes reduce the sensitivity to fluid pollution.

Low noise

The Denison Vane Technology allows very low noise levels over the entire operating range and during the whole life of the pump.

Versatility and compactness

With 8 different displacements for the same installation size, the T7ES is a very powerful and compact single pump. The E size pumping units (cartridge kits) can also be combined with other pumping unit sizes in multiple pumps. This creates a wide range of multi flow pumps, very much adapted to the high power needs of hydraulic presses or die-casting machines.



Pump		Theoretical Displacement Vi cm³/rev.	Maximum Speed		Maximum Pressure			
			HF-0, HF-1 HF-2	HF-4, HF-5	HF-0, HF-2		HF-1, HF-4, HF-5	
Type	Ring size				Int.	Cont.	Int.	Cont.
			rpm	rpm	bar	bar	bar	bar
T7ES	E45	142,4	2200	1800	240	210	210	175
	E50	158,5						
	E52	164,8						
	E54	171,0						
	E57	183,3						
	E62	196,7						
	E66	213,3						
	E72	227,1						

HF-0, HF-2 = Antiwear Petroleum Base
 HF-4 = Water Glycols Solutions

HF-1 = Non Antiwear Petroleum Base
 HF-5 = Synthetic Fluids

Note : For further information or if the performance characteristics outlined in the table do not meet your particular requirements, please consult your local Parker office.

Model No.

T7ES - E72 - 1 R 00 - A 1 - M0 - 

T7ES series - SAE C 2 bolts

J744 mounting flange

Displacement

Volumetric displacement (cm³/rev.)

E45 = 142,4 E57 = 183,3

E50 = 158,5 E62 = 196,7

E52 = 164,8 E66 = 213,3

E54 = 171,0 E72 = 227,1

Type of shaft

1 = keyed (SAE CC)

3 = splined (SAE C) 14 teeth

4 = splined (SAE CC) 17 teeth

Direction of rotation (shaft end view)

R = Clockwise

L = Counter-clockwise

Modifications

Ex : NOP = Not painted

Ports

M0 = SAE flange J518 with Metric threads

00 = SAE flange J518 with UNC threads

S = 3" - P = 1.1/2"

Seal class

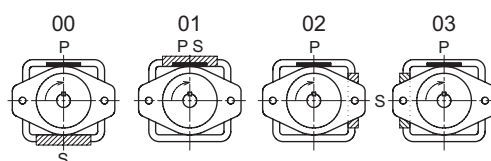
1 = S1 BUNA N

5 = S5 VITON®

Design letter

Porting combination

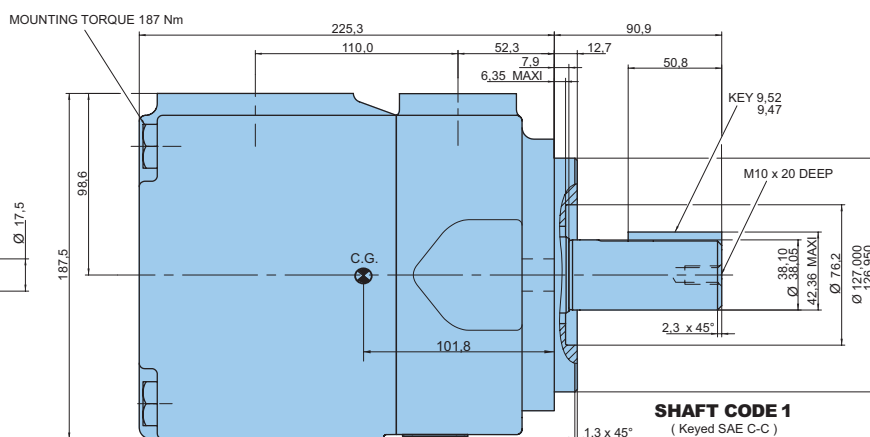
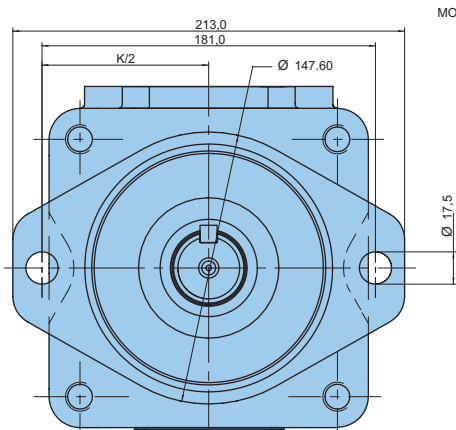
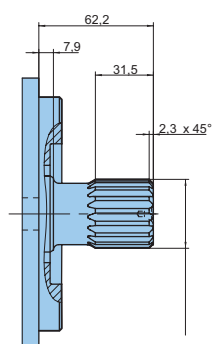
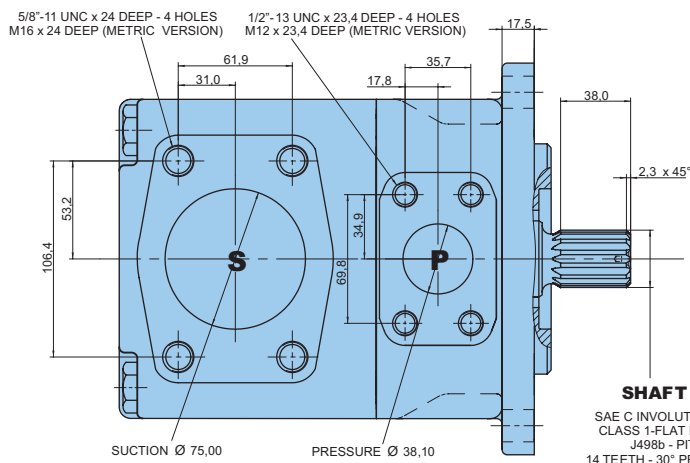
00 = standard

P = Pressure
S = Suction

Input torque limit :

Shaft	Vi [cm ³ /rev] x p max. [bar]	Nm
1	54500	867
3	61200	974
4	61200	974

Weight : 43,0 kg

Moment of inertia : 62,5 Kg·m² × 10⁻⁴**SHAFT CODE 1**
(Keyed SAE C-C)**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 3**SAE C INVOLUTE SPLINE DATA
CLASS 1-FLAT ROOT SIDE FIT
J498b - PITCH 12/24
14 TEETH - 30° PRESSURE ANGLE

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,

Dubai

Tel: +971 4 8127100

parker.me@parker.com

AT – Austria, Wiener Neustadt

Tel: +43 (0)2622 23501-0

parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt

Tel: +43 (0)2622 23501 900

parker.easteurope@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 22 33 458

parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles

Tel: +32 (0)67 280 900

parker.belgium@parker.com

BG – Bulgaria, Sofia

Tel: +359 2 980 1344

parker.bulgaria@parker.com

BY – Belarus, Minsk

Tel: +48 (0)22 573 24 00

parker.poland@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00

parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111

parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0

parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00

parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001

parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500

parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25

parker.france@parker.com

GR – Greece, Athens

Tel: +30 210 933 6450

parker.greece@parker.com

HU – Hungary, Budaoers

Tel: +36 23 885 470

parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370

parker.ireland@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21

parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000

parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal

Tel: +31 (0)541 585 000

parker.nl@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00

parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00

parker.poland@parker.com

PT – Portugal

Tel: +351 22 999 7360

parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382

parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156

parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00

parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252

parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650

parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081

parker.turkey@parker.com

UA – Ukraine, Kiev

Tel: +48 (0)22 573 24 00

parker.poland@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878

parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700

parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

(industrial)

Tel: +1 216 896 3000

US – USA, Elk Grove Village

(mobile)

Tel: +1 847 258 6200

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

ID – Indonesia, Tangerang

Tel: +62 21 7588 1906

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Fujisawa

Tel: +81 (0)4 6635 3050

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000

TW – Taiwan, New Taipei City

Tel: +886 2 2298 8987

VN – Vietnam, Ho Chi Minh City

Tel: +84 8 3999 1600

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Cachoeirinha RS

Tel: +55 51 3470 9144

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Toluca

Tel: +52 72 2275 4200

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EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

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