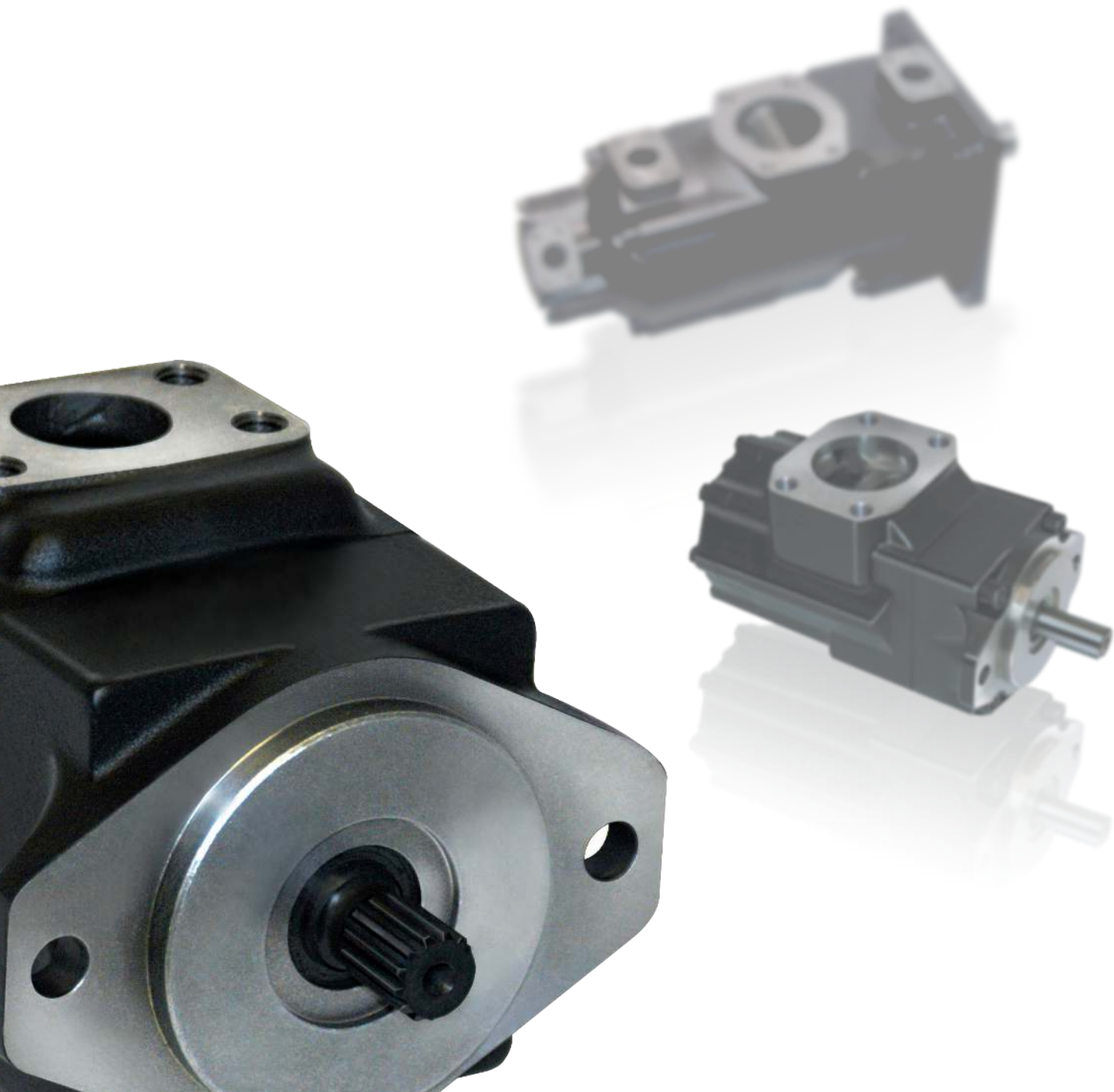




Industrial Hydraulic Pumps T7/T67/T6

Denison Vane Technology, fixed displacement



ENGINEERING YOUR SUCCESS.

GENERAL

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CHARACTERISTICS

These vane pumps have been specially designed for high/low circuits. The combination of different cartridges in double and triple pumps allows low flow at high pressure (300 bar max.) and high flow at lower pressure. This is a clever way to optimize your circuit design. This pump feature will also allow a very fast pressure cycle change with a very precise flow repeatability.

GREATER FLOW

Size A : 5,8 to 40,0 ml/rev.
 Size B : 5,8 to 50,0 ml/rev.
 Size C : 10,8 to 100,0 ml/rev.
 Size D : 44,0 to 158,0 ml/rev.
 Size E : 132,3 to 268,7 ml/rev.

HIGHER PRESSURE

A : up to 300 bar max.
 B : up to 320 bar max. (300 bar for multiple pump).
 C : up to 275 bar max.
 D : up to 280 bar max. (250 bar for multiple pump).
 E : up to 240 bar max.

WIDE SPEED RANGE

Industrial pumps : Min. : 600 RPM - Max. up to 3600 RPM

BETTER EFFICIENCY

Increases productivity, reduces heating and reduces operation costs.

LOW NOISE LEVELS

Increases operator safety and eases machines acceptances.

MOUNTING FLEXIBILITY

Single pumps : 4 different positions.
 Double pumps : 32 different positions.
 Triple pumps : 128 different positions.

CARTRIDGE DESIGN

Provides for drop-in assemblies. They permit easy conversion and service.
 A, B and D cartridges : bi-directional technology.
 C and E cartridges : uni-directional technology.

WIDE RANGE OF ACCEPTABLE VISCOSITIES

Viscosities from 860 to 10 cSt permit colder starts and hotter running. The balanced design compensates for wear and temperature changes. At high viscosity or cold temperature, the rotor to side plates gap is well lubricated and improves mechanical efficiency.

FIRE RESISTANT FLUIDS AND BIODEGRADABLE FLUIDS

Phosphate esters, organic esters, chlorinated hydrocarbons, water glycols, rapeseed may be pumped at high pressures and with long service life by these pumps.

GENERAL APPLICATIONS INSTRUCTIONS

1. Check speed range, pressure, temperature, fluid quality, fluid viscosity and pump rotation.
2. Check inlet conditions of the pump, if it can accept the application requirements.
3. Check the type of shaft : if it will support the operating torque.
4. Check the coupling must be chosen to minimize pump shaft load (weight, misalignment).
5. Filtration : must be adequate for the lowest contamination level.
6. Check the environment of the pump : as to avoid noise reflection, pollution and shocks.

Model of pump	Series	Theoretical Displacement V _i	Minimum Speed	Maximum Speed ³⁾		Maximum Pressure					
				HF-0, HF-1 HF-2	HF-3, HF-4 HF-5	HF-0, HF-2		HF-1, HF-4, HF-5		HF-3	
		ml/rev.	RPM	RPM	RPM	Int.	Cont.	Int.	Cont.	Int.	Cont.
						bar	bar	bar	bar	bar	bar
T7 <u>A</u> S ²⁾	B06	5,8	600	3600	1800	300	275	240	210	175	140
	B10	9,8									
	B11	11,0									
	B13	12,8									
	B17	17,2									
	B20	19,8									
	B22	22,5									
	B25	24,9		3000		275	240				
T7 <u>A</u> SW ²⁾	B26	26,0	600	3600	1800	300	275	240	210	175	140
	B28	28,0									
	B30	30,0									
	B32	31,8									
	B34	34,0									
	B36	36,0		3000		280	240				
	B40	40,0									
T7 <u>B</u> T7 <u>B</u> S	B02	5,8	600	3600	1800	320 ¹⁾	290	240	210	175	140
	B03	9,8									
	B04	12,8									
	B05	15,9									
	B06	19,8									
	B07	22,5									
	B08	24,9									
	B09	28,0									
	B10	31,8									
	B11	35,0									
	B12	41,0		3000		300	275				
	B14	45,0									
	B15	50,0									
T6 <u>C</u>	B03	10,8	600	2800	1800	275	240	210	175	175	140
	B05	17,2									
	B06	21,3									
	B08	26,4									
	B10	34,1									
	B12	37,1									
	B14	46,0									
	B17	58,3									
	B20	63,8									
	B22	70,3									
	B25	79,3		2500		210	160		160		
	B28	88,8									
	B31	100,0									

HF-0, HF-2 = Antiwear Petroleum Base - HF-1 = Non Antiwear Petroleum Base - HF-3 = Water in oil Invert Emulsions
 HF-4 = Water Glycols Solutions - HF-5 = Synthetic Fluids

¹⁾ Please consult Parker for application over 300 bar.

²⁾ Please be careful as these cartridge designation are now in ml/rev. (example : B22 = 22,5 ml/rev.)

³⁾ Please be sure that the inlet velocity is under 1,9 m/sec. (see page 12, start-up & check-up).

For further information, or if the performance characteristics outlined here above do not meet your particular requirements, please consult your local Parker office.

Model of pump	Series	Theoretical Displacement Vi	Minimum Speed	Maximum Speed ³⁾		Maximum Pressure					
				HF-0, HF-1 HF-2	HF-3, HF-4 HF-5	HF-0, HF-2		HF-1, HF-4, HF-5		HF-3	
		Int.				Cont.	Int.	Cont.	Int.	Cont.	
		ml/rev.	RPM	RPM	RPM	bar	bar	bar	bar	bar	bar
T7 <u>D</u> T7 <u>DS</u>	B14	44,0	600	3000	1800	300	250	240	210	175	140
	B17	55,0									
	B20	66,0									
	B22	70,3									
	B24	81,1									
	B28	90,0									
	B31	99,2		2800		280					
	B35	113,4									
	B38	120,6									
	B42	137,5					260	230			
	B45 ¹⁾	145,7					240	210			
	B50 ¹⁾	158,0					2200	210	160		
T7 <u>E</u> ²⁾ T7 <u>ES</u>	042	132,3	600	2200	1800	240	210	210	175	175	140
	045	142,4									
	050	158,5									
	052	164,8									
	054	171,0									
	057	183,3									
	062	196,7									
	066	213,3									
	072	227,1									
	085	268,7		2000		90	75	75	75	75	75

HF-0, HF-2 = Antiwear Petroleum Base

HF-1 = Non Antiwear Petroleum Base

HF-3 = Water in oil Invert Emulsions

HF-4 = Water Glycols Solutions

HF-5 = Synthetic Fluids

¹⁾ Ten vane technology.²⁾ For T7E, below 10 bar, please contact Parker.³⁾ Please be sure that the inlet velocity is under 1,9 m/sec. (see page 12, start-up & check-up).

For further information, or if the performance characteristics outlined here above do not meet your particular requirements, please consult your local Parker office.

Model of pump	Series	Theoretical Displacement Vi ml/rev.	Minimum Speed RPM	Maximum Speed ³⁾		Maximum Pressure						
				HF-0, HF-1 HF-2 RPM	HF-3, HF-4 HF-5 RPM	HF-0, HF-2		HF-1, HF-4, HF-5		HF-3		
						Int. bar	Cont. bar	Int. bar	Cont. bar	Int. bar	Cont. bar	
T7 <u>B</u> B/S T67C <u>B</u> T7D <u>B</u> /S T7E <u>B</u> /S T7D <u>B</u> B/S T7DC <u>B</u> /S T7DD <u>B</u> /S T7ED <u>B</u> /S	B02	5,8	600	2200 ²⁾	1800	T7BB T7BBS 320 ¹⁾ Other pumps 300	T7BB T7BBS 290 Other pumps 275	240	210	175	140	
	B03	9,8										
	B04	12,8										
	B05	15,9										
	B06	19,8										
	B07	22,5										
	B08	24,9										
	B09	28,0										
	B10	31,8										
	B11	35,0										
	B12	41,0										
	B14	45,0										
	B15	50,0				280	240					
T6 <u>C</u> C T67C <u>B</u> T67D <u>C</u> T67E <u>C</u> T7D <u>C</u> B/S T7D <u>C</u> C/S T67DD <u>C</u> S T67ED <u>C</u> /S T7EE <u>C</u> /S	B03	10,8	600	2200 ²⁾	1800	275	240	210	175	175	140	
	B05	17,2										
	B06	21,3										
	B08	26,4										
	B10	34,1										
	B12	37,1										
	B14	46,0										
	B17	58,3										
	B20	63,8										
	B22	70,3										
	B25	79,3										
	B28	88,8				210	160		160			
	B31	100,0										
T7D <u>B</u> /S T67D <u>C</u> T7D <u>D</u> /S T7E <u>D</u> S T7D <u>B</u> B/S T7D <u>C</u> B/S T7D <u>C</u> C/S T7D <u>D</u> B/S T67D <u>D</u> C/S T7E <u>D</u> B/S T67E <u>D</u> C/S	B14	44,0	600	2200 ²⁾	1800	300	250	240	210	175	140	
	B17	55,0										
	B20	66,0										
	B22	70,3										
	B24	81,1										
	B28	90,0										
	B31	99,2										
	B35	113,4										
	B38	120,6										
	B42	137,5										
	B45 ¹⁾	145,7										280
	B50 ¹⁾	158,0				260	210		160			
						240	160					
T7E <u>B</u> /S T67E <u>C</u> T7E <u>D</u> S T7EE/S T7EEC/S T67E <u>D</u> B/S T67E <u>D</u> C/S	042	132,3	600	2200 ²⁾	1800	240	210	210	175	175	140	
	045	142,4										
	050	158,5										
	052	164,8										
	054	171,0										
	057	183,3										
	062	196,7										
	066	213,3										
	072	227,1										
	085	268,7		2000	90	75	75	75	75	75		

HF-0, HF-2 = Antiwear Petroleum Base HF-1 = Non Antiwear Petroleum Base HF-3 = Water in oil Invert Emulsions
 HF-4 = Water Glycols Solutions HF-5 = Synthetic Fluids

¹⁾ Please consult Parker for application over 300 bar.

²⁾ Please consult Parker with higher speeds.

³⁾ Please be sure that the inlet velocity is under 1,9 m/sec. (see page 12, start-up & check-up).

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

	Mounting standard	Weight without connector and bracket - kg	Moment of inertia Kg ^m ² x 10 ⁻⁴	SAE 4 bolts - J518 - ISO/DIS6162-1		
				Suction	Pressure	
				S	P1	
T7AS	SAE J744 SAE A	9,5	2,6	1"-SAE 4 bolts J518-ISO/DIS 6162-1	3/4"-SAE 4 bolts J518-ISO/DIS 6162-1	
				SAE 16- 1.5/16"-12 UNF-2B	SAE 12- 1.1/16"-12 UNF-2B	
				NPTF threads 1.1/4" NPTF	NPTF threads 3/4" NPTF	
				1" BSP	3/4" BSP	
T7ASW	SAE J744 SAE A	11,3	3,2	1.1/4"-SAE 4 bolts J518-ISO/DIS 6162-1	3/4"-SAE 4 bolts J518-ISO/DIS 6162-1	
				SAE 20- 1.5/8"-12 UNF-2B	SAE 12- 1.1/16"-12 UNF-2B	
				NPTF threads 1.1/4" NPTF	SAE 12- 1.1/16"-12 UNF-2B	
				1.1/4" BSP	3/4" BSP	
T7B	ISO 3019-2 100 A2 HW	23,0	3,2	1.1/2"	1" or 3/4"	
T7BS	SAE J744 SAE B					
T6C	SAE J744 SAE B	15,7	7,5	1.1/2"	1"	
T7D	ISO 3019-2 125 A2 HW	26,0	19,6	2"	1.1/4"	
T7DS	SAE J744 SAE C					
T7E	ISO 3019-2 125 A2 HW	43,3	62,5	3"	1.1/2"	
T7ES	SAE J744 SAE C					
				S	P1	P2
T7BB	ISO 3019-2 100 A2 HW	32,6	6,7	2.1/2"	1" or 3/4"	3/4"
T7BBS	SAE J744 SAE B					
T6CC	SAE J744 SAE B	26,0	16,9	2.1/2" or 3"	1"	1" or 3/4"
T67CB	SAE J744 SAE B	26,0	11,4	2.1/2"	1"	3/4"
T7DB	ISO 3019-2 125 A2 HW	38,6	22,7	3"	1.1/4"	1" or 3/4"
T7DBS	SAE J744 SAE C					
T67DC	SAE J744 SAE C	38,6	26,3	3"	1.1/4"	1" or 3/4"
T7DD	ISO 3019-2 125 A2 HW 125 B4HW	56,0	36,3	4"	1.1/4"	1.1/4"
T7DDS	SAE J744 SAE C					
T7EB	ISO 3019-2 125 A2 HW	55,0	65,9	3.1/2"	1.1/2"	3/4"
T7EBS	SAE J744 SAE C					
T67EC	SAE J744 SAE C	55,0	70,8	3.1/2"	1.1/2"	1"
T7ED	ISO 3019-2 125 A2 HW	66,0	79,7	4"	1.1/2"	1.1/4"
T7EDS	SAE J744 SAE C					
T7EE	ISO 3019-2 250 B4 HW	95,0	97,4	4"	1.1/2"	1.1/2"
T7EES	SAE J744 SAE E					

	Mounting standard	Weight without connector and bracket - kg	Moment of inertia Kgm² x 10 ⁻⁴	SAE 4 bolts - J518 - 1S0/DIS6162-1			
				Suction	Pressure		
				S	P1	P2	P3
T7DBB	ISO/3019-2 125 A2 HW 125 B4 HW	61,0	26,1	4"	1.1/4"	1"	1" or 3/4"
T7DBBS	SAE J744 SAE C						
T7DCB	ISO/3019-2 125 A2 HW 125 B4 HW		29,7				
T7DCBS	SAE J744 SAE C						
T7DCC	ISO/3019-2 125 A2 HW 125 B4 HW		33,3				
T7DCCS	SAE J744 SAE C						
T7ddb	ISO/3019-2 125 A2 HW 125 B4 HW	66,0	39,5	4"	1.1/4"	1.1/4"	1" or 3/4"
T7ddbS	SAE J744 SAE C	66,0	43,1	4"	1.1/4"	1.1/4"	1" or 3/4"
T67DDCS	SAE J744 SAE C						
T7EDB	ISO 3019-2 250 B4 HW	102,0	76,6	4"	1.1/2"	1.1/4"	1" or 3/4"
T7EDBS	SAE J744 SAE E						
T67EDC	ISO 3019-2 250 B4 HW	102,0	80,2	4"	1.1/2"	1.1/4"	1" or 3/4"
T67EDCS	SAE J744 SAE E						
T7EEC	ISO/3019-2 250 B4 HW	114,8	99,1	4"	1.1/2"	1.1/2"	1" or 3/4"
T7EECS	SAE J744 SAE E						

Model No.

T7AS - B17 - 1 R 00 - A 1 - 00 - ..

T7AS series - SAE A 2 bolts
 J744 mounting flange

Displacement *

Volumetric displacement (ml/rev.)

B06 = 5,8
 B10 = 9,8
 B11 = 11,0
 B13 = 12,8
 B17 = 17,2
 B20 = 19,8
 B22 = 22,5
 B25 = 24,9

Type of shaft T7AS

1 = keyed (non SAE) Ø 19,05
 3 = splined 16/32 (SAE B) 13 teeth
 4 = splined 16/32 (SAE A) 9 teeth

Direction of rotation (shaft end view)

R = Clockwise
 L = Counter-clockwise

Modifications

Mounting w/connection variables

00 = 4 bolts SAE flanges (J518) UNC thread
 S = 1" SAE
 P = 3/4" SAE
 02 = SAE thread
 S = 1.5/16" (SAE 16)
 P = 1.1/16" (SAE 12)
 03 = NPTF thread
 S = 1.1/4" NPTF
 P = 3/4" NPTF
 04 = BSP threads
 S = 1" BSP
 P = 3/4" BSP

Seal class

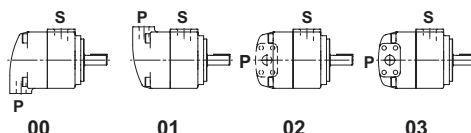
1 = S1 BUNAN - 0,7 bar max. (for mineral oil)
 5 = S5 VITON® - 0,7 bar max. (for mineral oil and fire resistant fluids)

Design letter

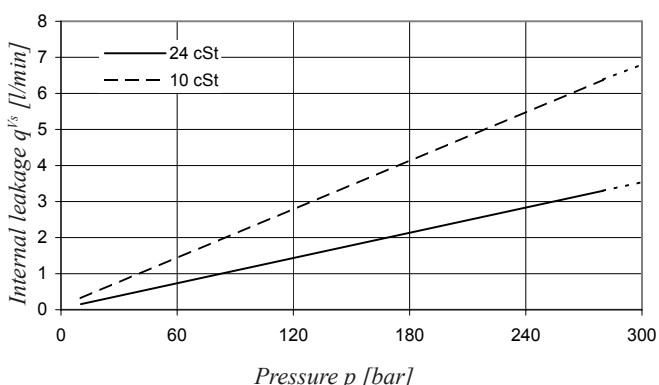
Porting combination

00 = standard

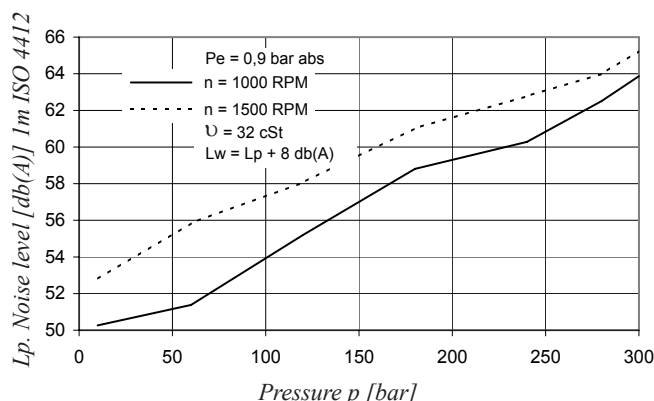
P = Pressure
 S = Suction



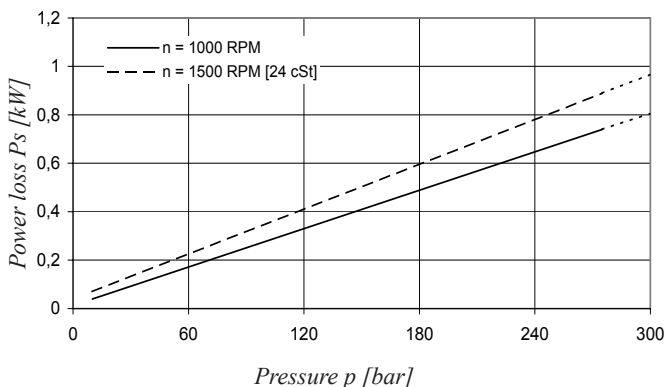
INTERNAL LEAKAGE (TYPICAL)



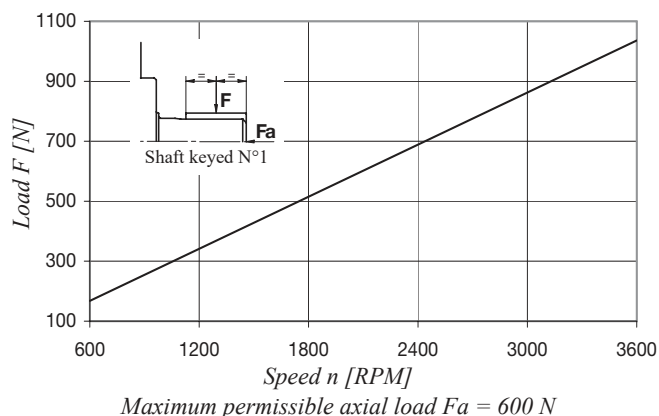
NOISE LEVEL (TYPICAL) - T7AS - B20



POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



* Cartridge designation is now in ml/rev. (example : B22 = 22,5 ml/rev.)

Model No.**T7ASW - B32 - 1 R 00 - A 1 - 00 - ..****T7ASW series - SAE A 2 bolts**

J744 mounting flange

Displacement *

Volumetric displacement (ml/rev.)

B26 = 26,0

B28 = 28,0

B30 = 30,0

B32 = 31,8

B34 = 34,0

B36 = 36,0

B40 = 40,0

Type of shaft T7ASW

1 = keyed (non SAE) Ø 19,05

3 = splined 16/32 (SAE B) 13 teeth

4 = splined 16/32 (non SAE) 11 teeth

Direction of rotation (shaft end view)

R = Clockwise

L = Counter-clockwise

Modifications**Mounting w/connection variables**

00 = 4 bolts SAE flanges (J518) UNC threads

S = 1.1/4" SAE

P = 3/4" SAE

02 = SAE thread

S = 1.5/8" (SAE 20)

P = 1.1/16" (SAE 12)

03 = NPTF & SAE threads

S = 1.1/4" NPTF

P = 1.1/16" (SAE 12)

04 = BSP threads

S = 1.1/4" BSP

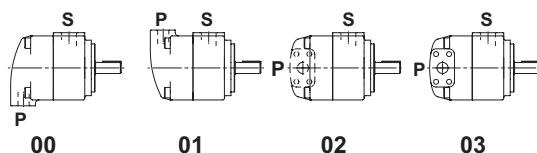
P = 3/4" BSP

Seal class

1 = S1 BUNA N - 0,7 bar max. (for mineral oil)

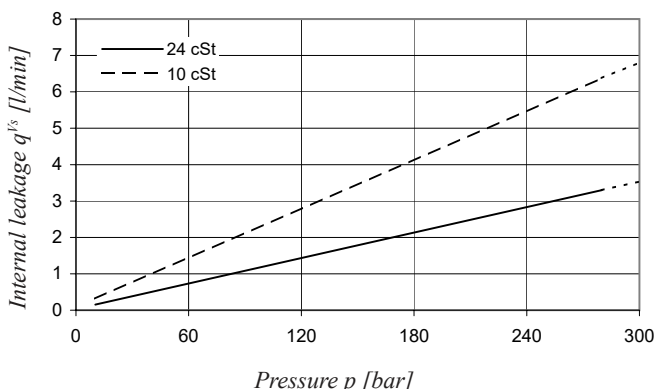
Design letter**Porting combination**

00 = standard

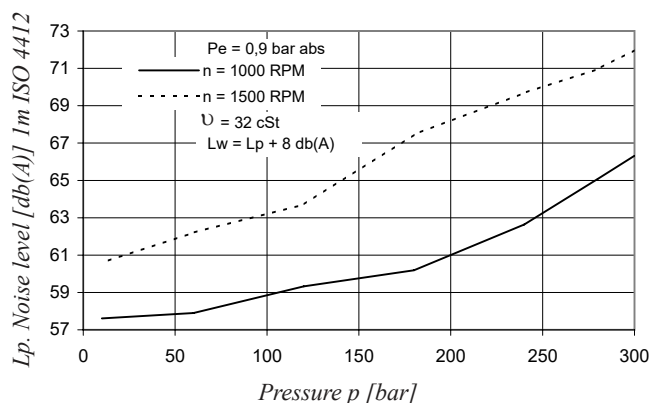
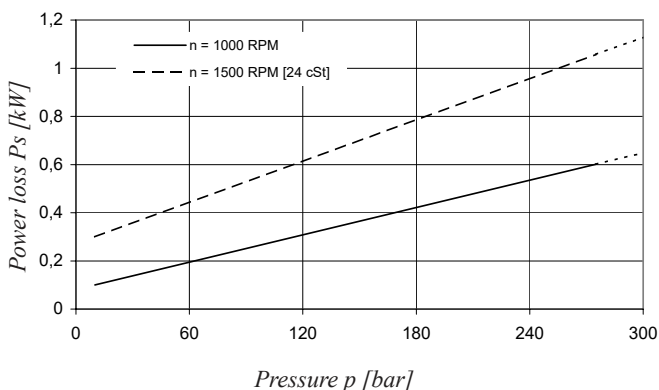


P = Pressure

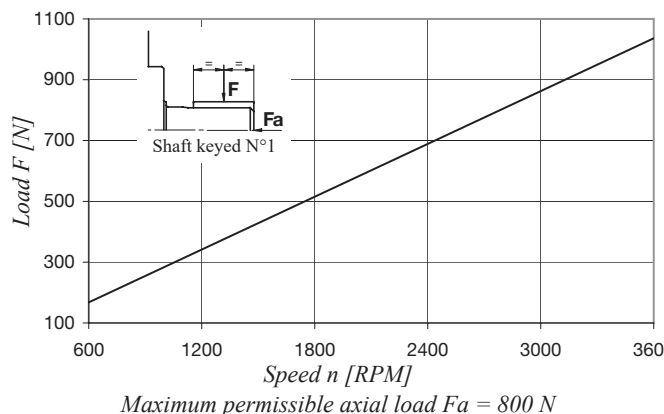
S = Suction

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) - T7ASW B28**POWER LOSS HYDROMECHANICAL (TYPICAL)**

* Cartridge designation is now in ml/rev. (example : B26 = 26 ml/rev.)

PERMISSIBLE RADIAL LOAD

Maximum permissible axial load Fa = 800 N

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
P	M0	00
S	1.1/2"	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

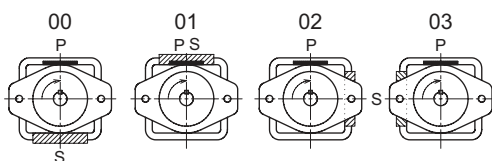
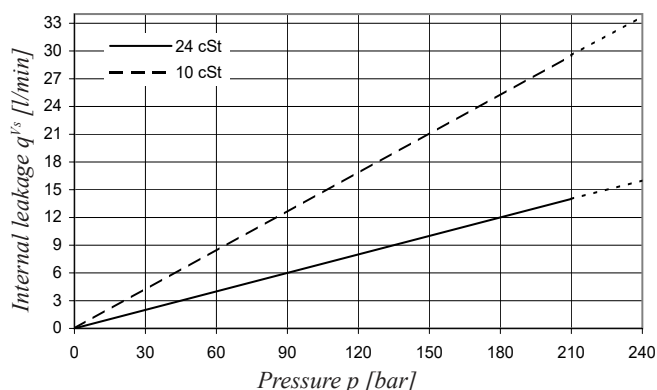
Direction of rotation (shaft end view)

R = Clockwise

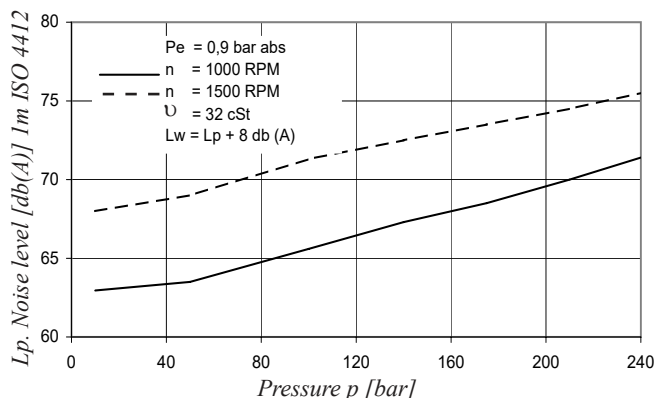
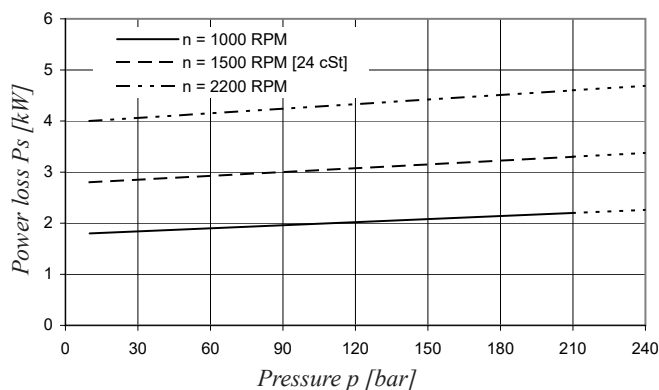
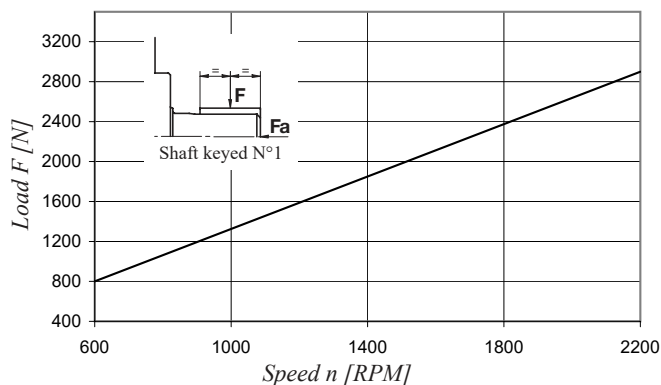
L = Counter-clockwise

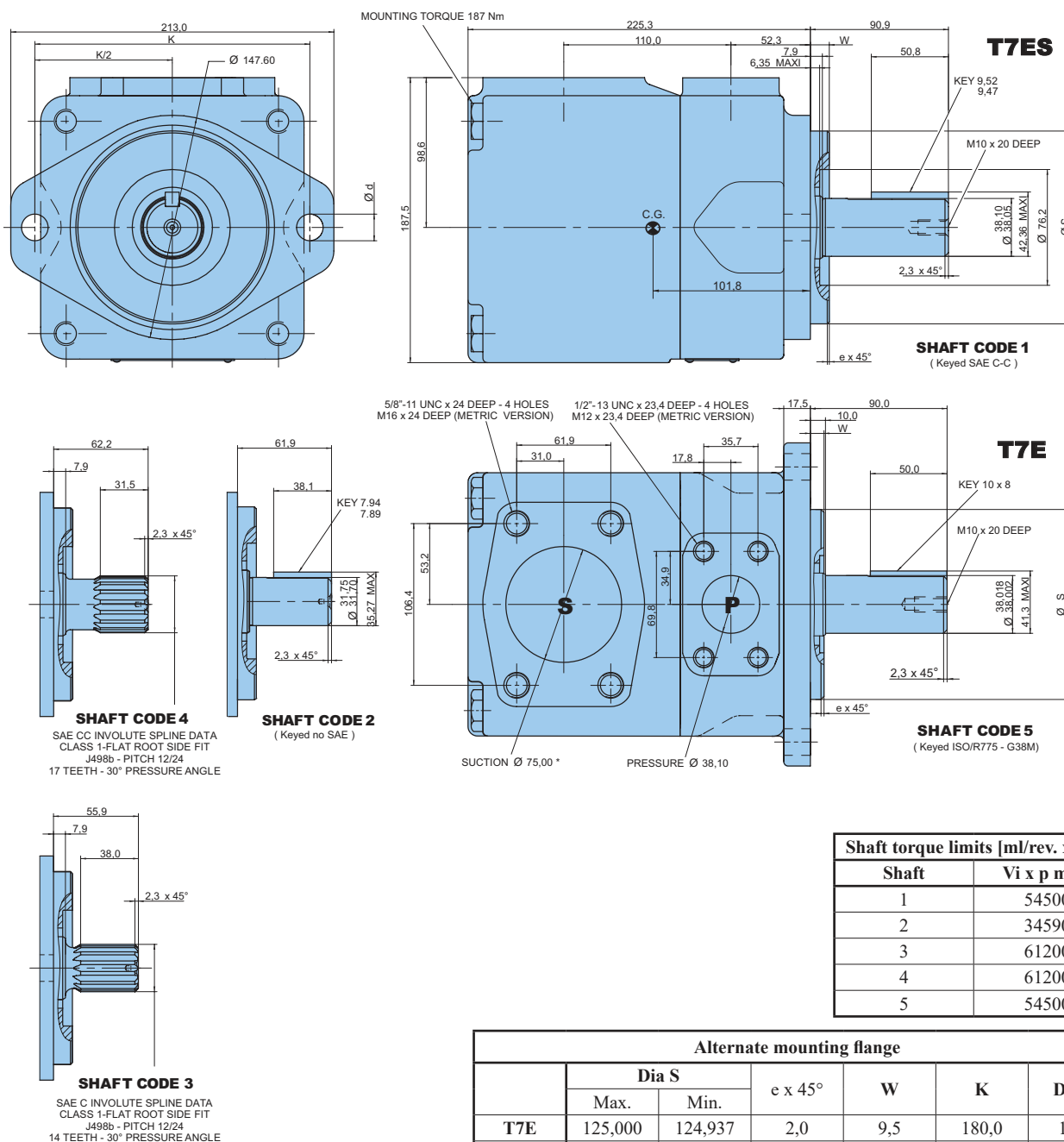
P = Pressure port

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 $F_a = 2000 \text{ N}$



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.

Model No. T7EB or T7EBS - 042 - B12 - 1 R 00 - A 1 M1 - ..**T7EB series** - ISO 2 bolts 3019-2

Mounting flange 125-A2 HW

T7EBS series - SAE C 2 bolts

J744 mounting flange

Displacement P1

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

Displacement 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 T7EBS

1 = keyed (SAE CC)

3 = splined (SAE C) 14 teeth

2 = keyed (non SAE)

4 = splined (SAE CC)

Type of shaft T7EB - T7EBS

5 = keyed (ISO /R 775 - G38 M)

Modifications**Mounting w/connection variables**

4 bolts SAE flanges J518

P1 = 1.1/2" - P2 = 3/4" - S = 3.1/2"

	Metric thread T7EB - T7EBS	UNC thread T7EBS
Code	M1	01

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)

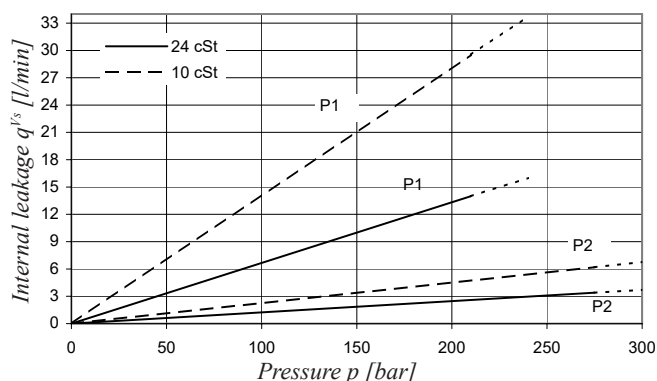
Design letter**Porting combination (see page 72)**

00 = standard

Direction of rotation (shaft end view)

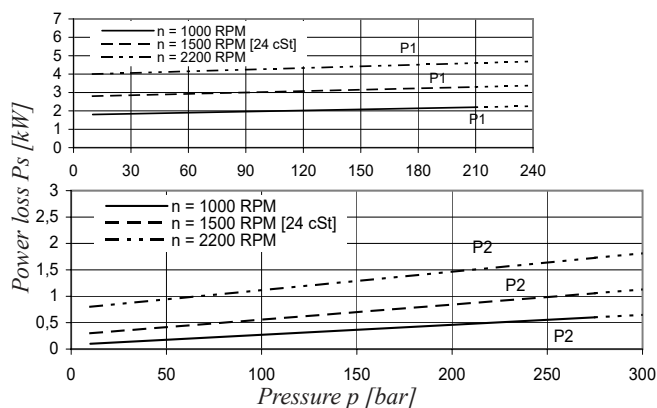
R = Clockwise

L = Counter-clockwise

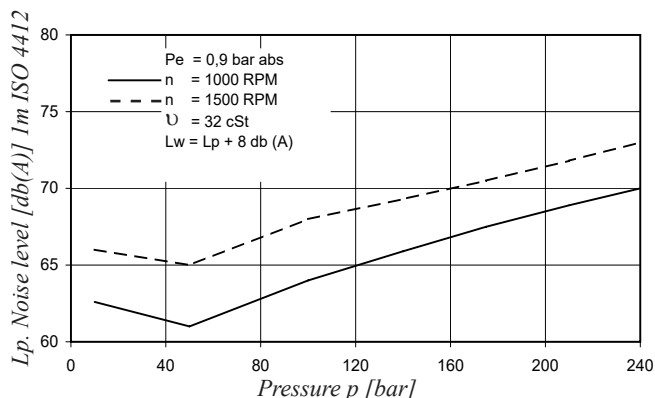
INTERNAL LEAKAGE (TYPICAL)

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

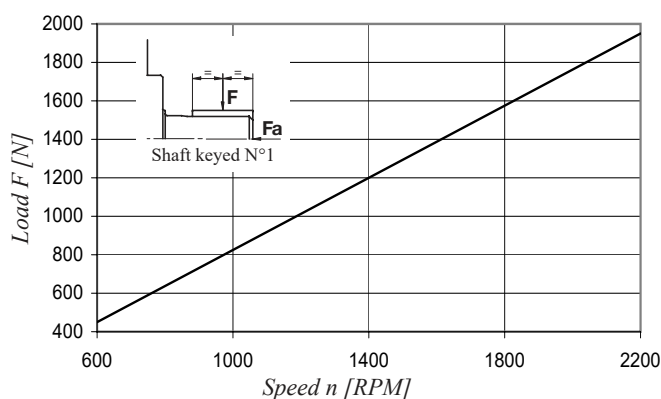
Total leakage is the sum of each section loss under its respective operating conditions.

POWER LOSS HYDROMECHANICAL (TYPICAL)

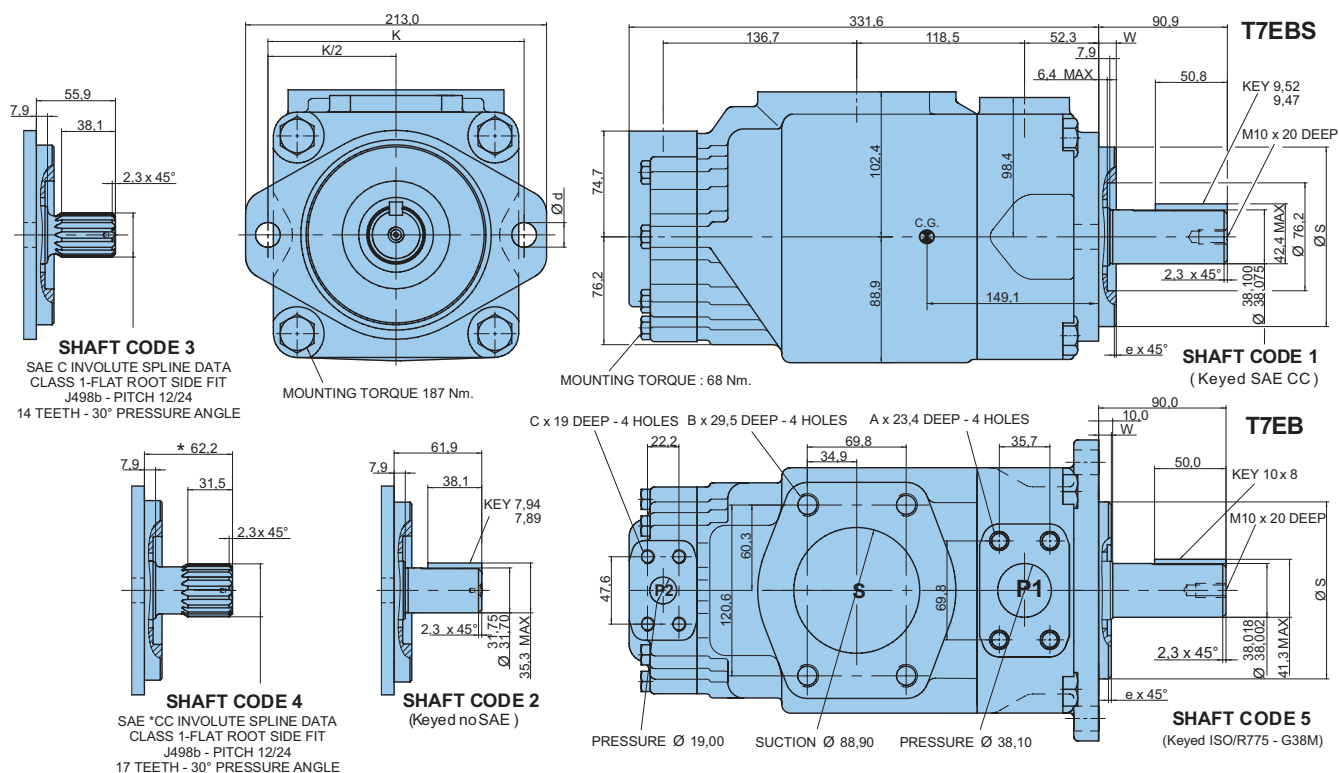
Total hydromechanical power loss is the sum of each section loss under its respective operating conditions.

NOISE LEVEL (TYPICAL) - T7EBS - 050 - B03

Double pump noise level is given with both stages discharging at the pressure value indicated on the curve.

PERMISSIBLE RADIAL LOAD

Maximum permissible axial load $F_a = 2000$ N



Alternate mounting flange						
	Dia S		e x 45°	W	K	Dia d
	Max.	Min.				
T7EB	125,000	124,937	2,0	9,5	180,0	18,0
T7EBS	127,000	126,950	1,3	12,7	181,0	17,5

Alternate connect. variables		
	01	M1
A	1/2" - 13 UNC	M12
B	5/8" - 11 UNC	M16
C	3/8" - 16 UNC	M10

Shaft torque limits [ml/rev. x bar]			
Shaft	Vi x p max.	Shaft	Vi x p max.
1	68500	4	68500
2	34590	5	68500
3	61200		

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
P1	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⁾	-
P2			p = 0 bar	p = 140 bar	p = 300 bar	p = 7 bar	p = 140 bar	p = 300 bar
	B02	5,8 ml/rev	8,7	7,0	5,1	0,5	2,6	5,1
	B03	9,8 ml/rev	14,7	13,0	11,1	0,6	4,0	8,1
	B04	12,8 ml/rev	19,2	17,5	15,6	0,6	5,0	10,4
	B05	15,9 ml/rev	23,9	22,2	20,2	0,7	6,1	12,7
	B06	19,8 ml/rev	29,7	28,0	26,1	0,7	7,5	15,6
	B07	22,5 ml/rev	33,7	32,0	30,2	0,8	8,5	17,6
	B08	24,9 ml/rev	37,4	35,7	33,7	0,8	9,3	19,5
	B09	28,0 ml/rev	42,0	40,3	38,4	0,9	10,4	21,8
	B10	31,8 ml/rev	47,7	46,0	44,1	0,9	11,7	26,2
	B11	35,0 ml/rev	52,5	50,8	48,9	1,0	12,8	27,0
	B12	41,0 ml/rev	61,5	59,8	57,9	1,1	14,9	31,5
	B14	45,0 ml/rev	67,5	65,8	63,9	1,2	16,3	34,5
	B15	50,0 ml/rev	75,0	73,3	71,6 ²⁾	1,3	18,1	35,7 ²⁾

¹⁾ 085 = 90 bar max. int.²⁾ B15 = 280 bar max. int.