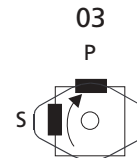
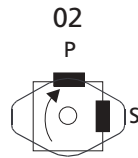
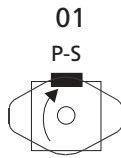
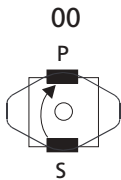
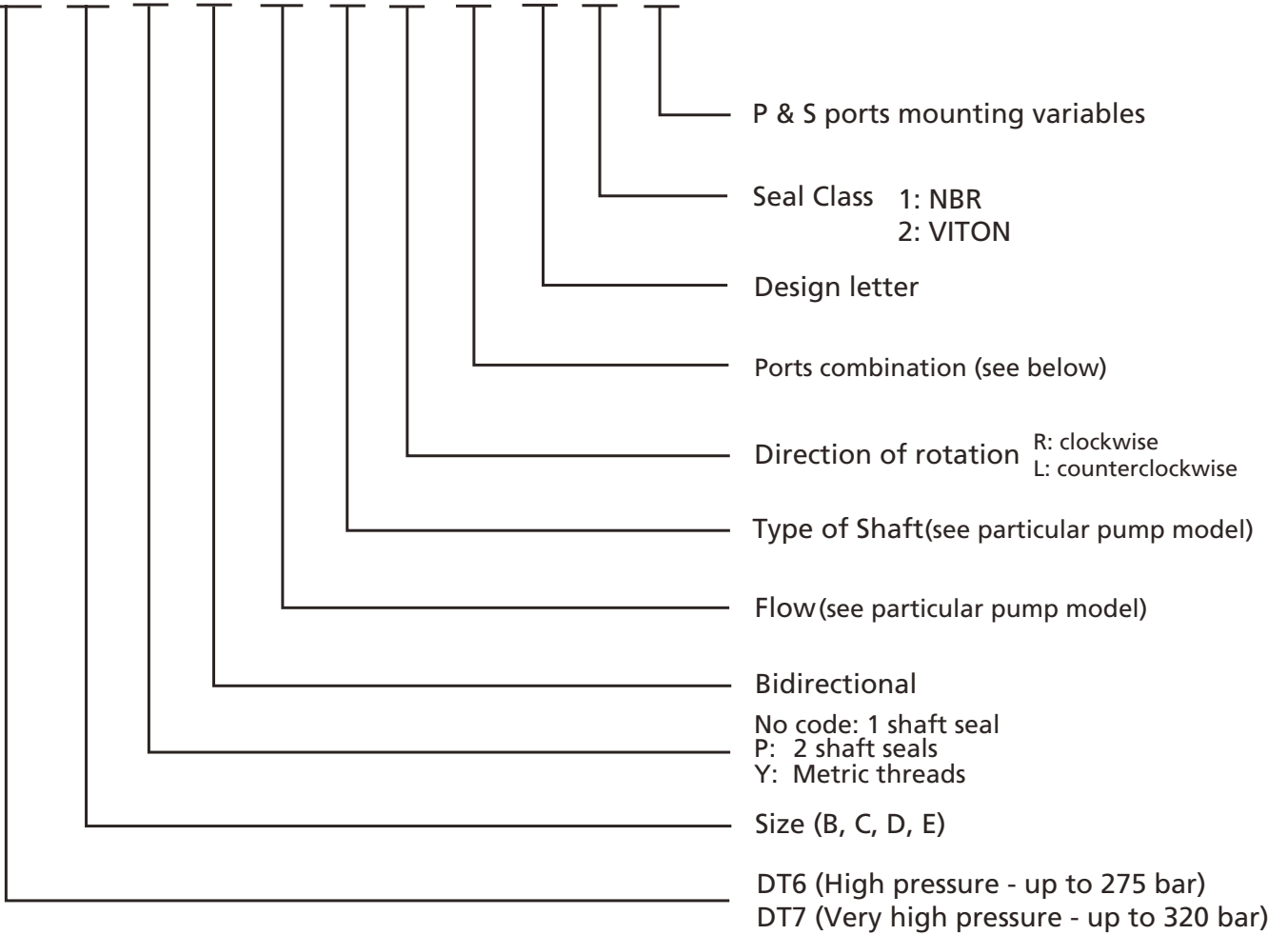


**DT6/7 SINGLE VANE PUMPS ORDERING CODE**

**DT\* - C - \*\* - B - 17 - 1 - R - 00 - B - 1 - \***



## DT6/7 SINGLE VANE PUMPS - GENERAL CHARACTERISTICS

Pump Model	Cartridge Model	Theoretical displacement (cm <sup>3</sup> /rev)	Maximum Pressure int./cont. (bar)	Max.speed (rpm)	Min. speed (rpm)	Weight (Kg)	Front flange Standard SAE j744c ISO 3019-4	SAE 4 holes flange								
								Suction S	Pressure P							
DT7BS	002	6	320/290	3600	600 200 <sup>(1)</sup>	23	SAE B	1 ½"	¾"							
	003	10														
	004	13														
	005	16														
	006	20														
	007	23														
	008	25														
	009	28														
	010	32														
	011	35														
	012	41	300/275	3000												
	014	45														
	015	50														
DT7DS	014	44	300/250	3000	600	29	SAE C	2" 2 ½"	1 ¼"							
	017	55														
	020	66														
	022	70														
	024	81														
	028	90														
	031	99														
	035	113	280/250	2800												
	038	121														
	042	138	260/230	2500												
	045	146														
	050	158	240/210	2200												
	050	158														
061	191	120/80	1800													
DT6C	003	11	275/240	2800	500	15	SAE B	1 ½"	1"							
	005	17														
	006	21														
	008	26														
	010	34														
	012	37														
	014	46														
	017	58														
	020	64														
	022	70														
	025	79														
	028	89	210/160	2500												
	031	100														
	DT6CP Pump model only mount B14 to B31 cartridges															
DT6D	014	48	240/210	2500	500	24	SAE C	2"	1 ¼"							
	020	66														
	024	80														
	028	90														
	031	98														
	035	111														
	038	120														
	042	136														
	045	146														
	050	158								210/160	2200					
	050	158														
061	191	120/80	1800													
DT6E	042	132	240/210	2200		44	SAE C	3"	1 ½"							
	045	142														
	050	159														
	052	165														
	062	197														
	066	213														
	072	227														
	085	270								90/75	2000					

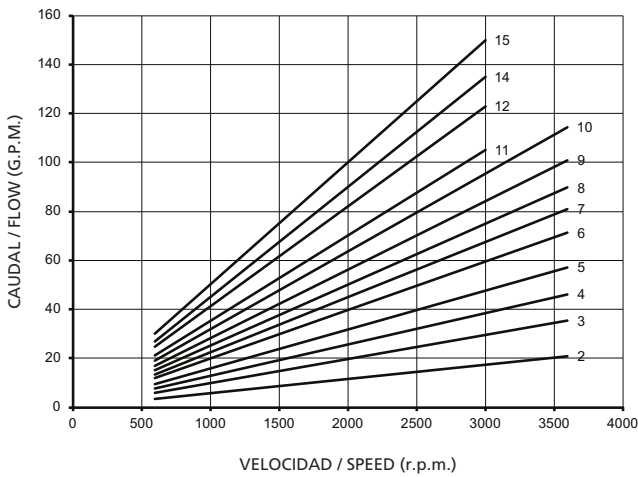
<sup>(1)</sup> Lower speed can be achieved depending of pressure, temperature, oil viscosity. Consult our technical department

## DT7BS OPERATING CHARACTERISTICS

DATA SHEET

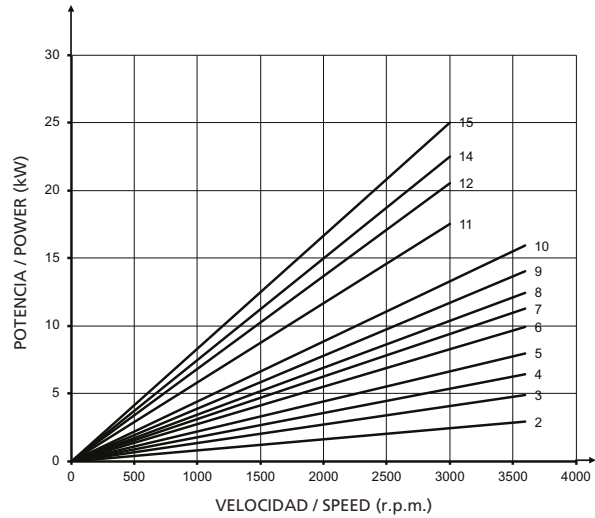
	FLOW														SPEED (rpm)		PRESSURE (bar)		WEIGHT (Kgs.)
	Lts/min.at 1000 rpm	6	10	13	16	20	22	25	28	32	35	41	45	50	Mín.	Máx.	Intermit.	Contin.	
Gal/min.at 1200 rpm	2	3	4	5	6	7	8	9	10	11	12	14	15	500	3600*	320	290*	23	

\* See page 41 for further information about speed & pressure.



### Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).



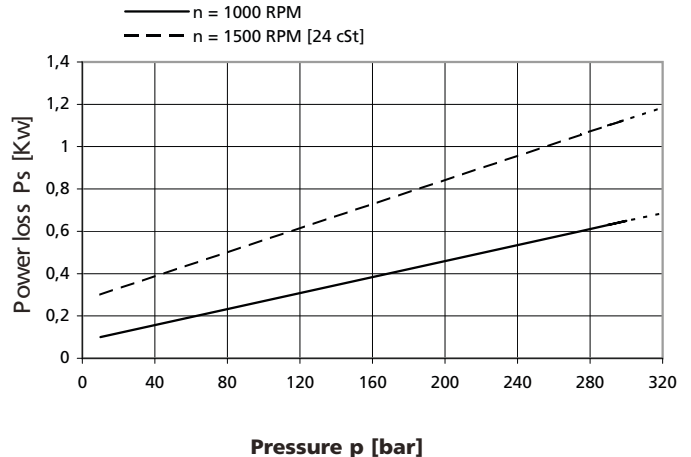
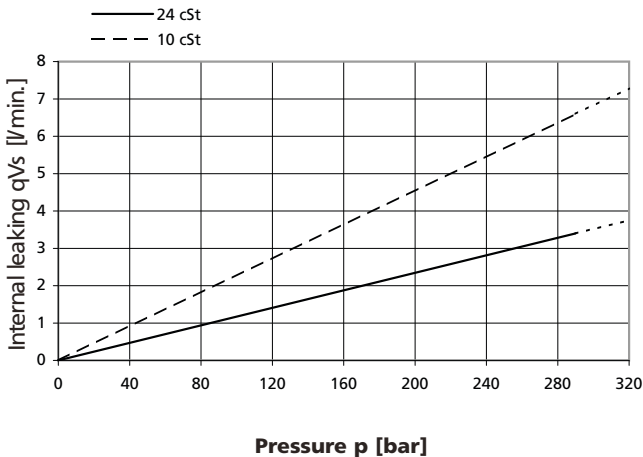
### Theoretical Input Power at 300 Bar

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

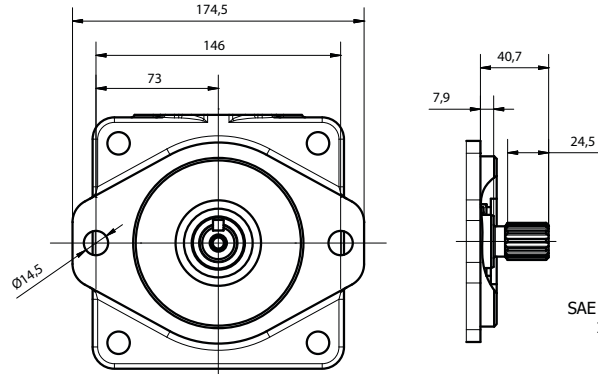
To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).



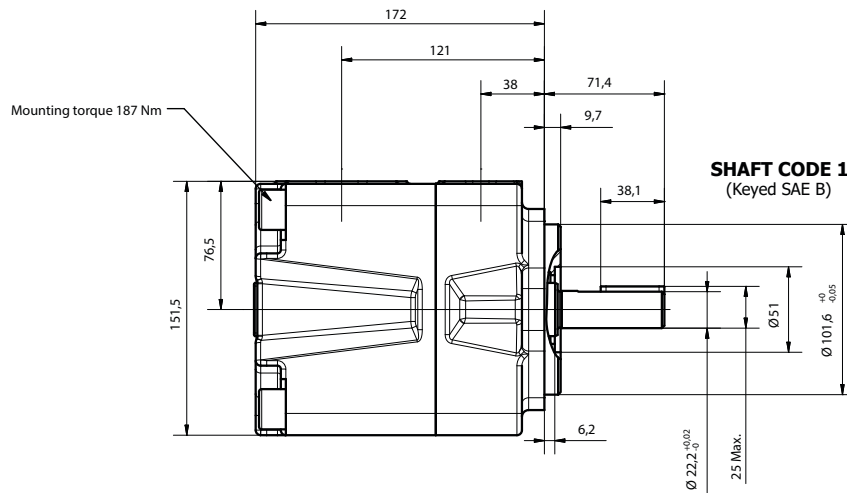
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow

## DIMENSIONS - SINGLE VANE PUMPS DT7BS

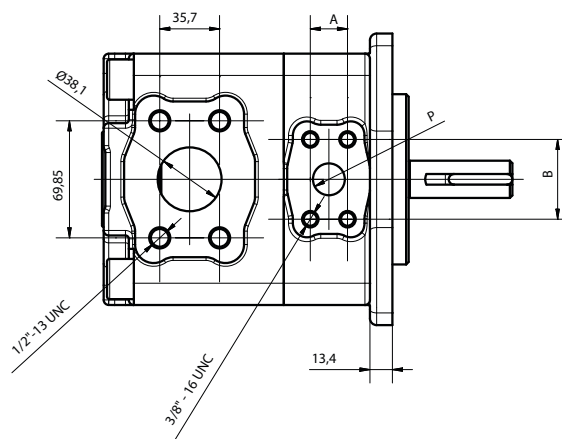
DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm



**SHAFT CODE 3**  
SAE B Splined shaft 1-J498b  
16/32 d.p. - 13 teeth  
30° pressure angle



**SHAFT CODE 1**  
(Keyed SAE B)



	UNC			METRIC	
	00	01	03	M0	M1
P	1"	3/4"		1"	3/4"
S	1 1/2"		1 1/4"		1 1/2"

CODE	00	01
P	25,4	19,1
A	26,2	22,2
B	54,2	47,6

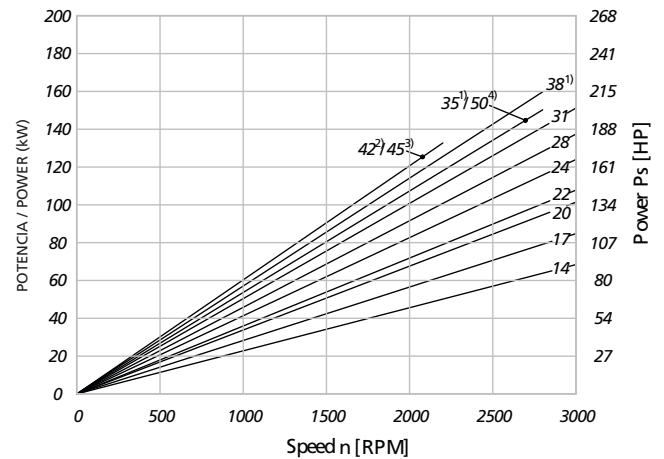
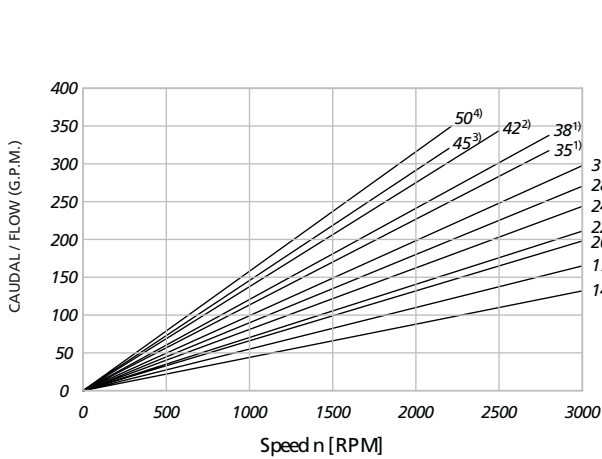
Shaft torque limits (ml/rev. x bar)	
Shaft	Vi x p max.
1	16500
3	20600

## DT7DS OPERATING CHARACTERISTICS

DATA SHEET

	FLOW											SPEED (rpm)		PRESSURE (bar)		WEIGHT (kgs)		
	Lts/min.at 1000 rpm	44	55	66	70	81	90	99	113	121	138	146	158	191	Min.		Max.	Intermit.
Gal/min.at 1200 rpm	14	17	20	22	24	28	31	35	38	42	45	50	61	600	3000*	300*	250	29

\* See page 41 for further information about speed & pressure.



### Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

- <sup>1</sup>B35 - B38 = 280 bar max. int. / 2800 rpm max.
- <sup>2</sup>B42 = 260 bar max. int. / 2500 rpm max.
- <sup>3</sup>O45 = 240 bar max. int. / 2200 rpm max.
- <sup>4</sup>O50 = 210 bar max. int. / 2200 rpm max.

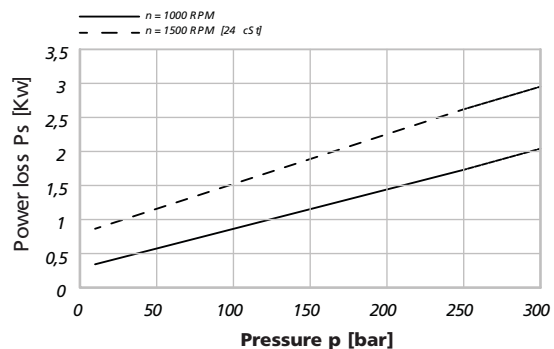
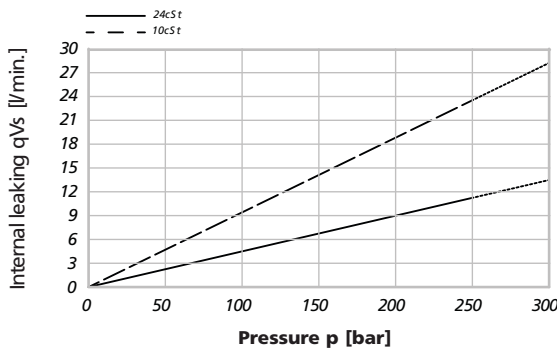
### Theoretical Input Power at 300 Bar

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

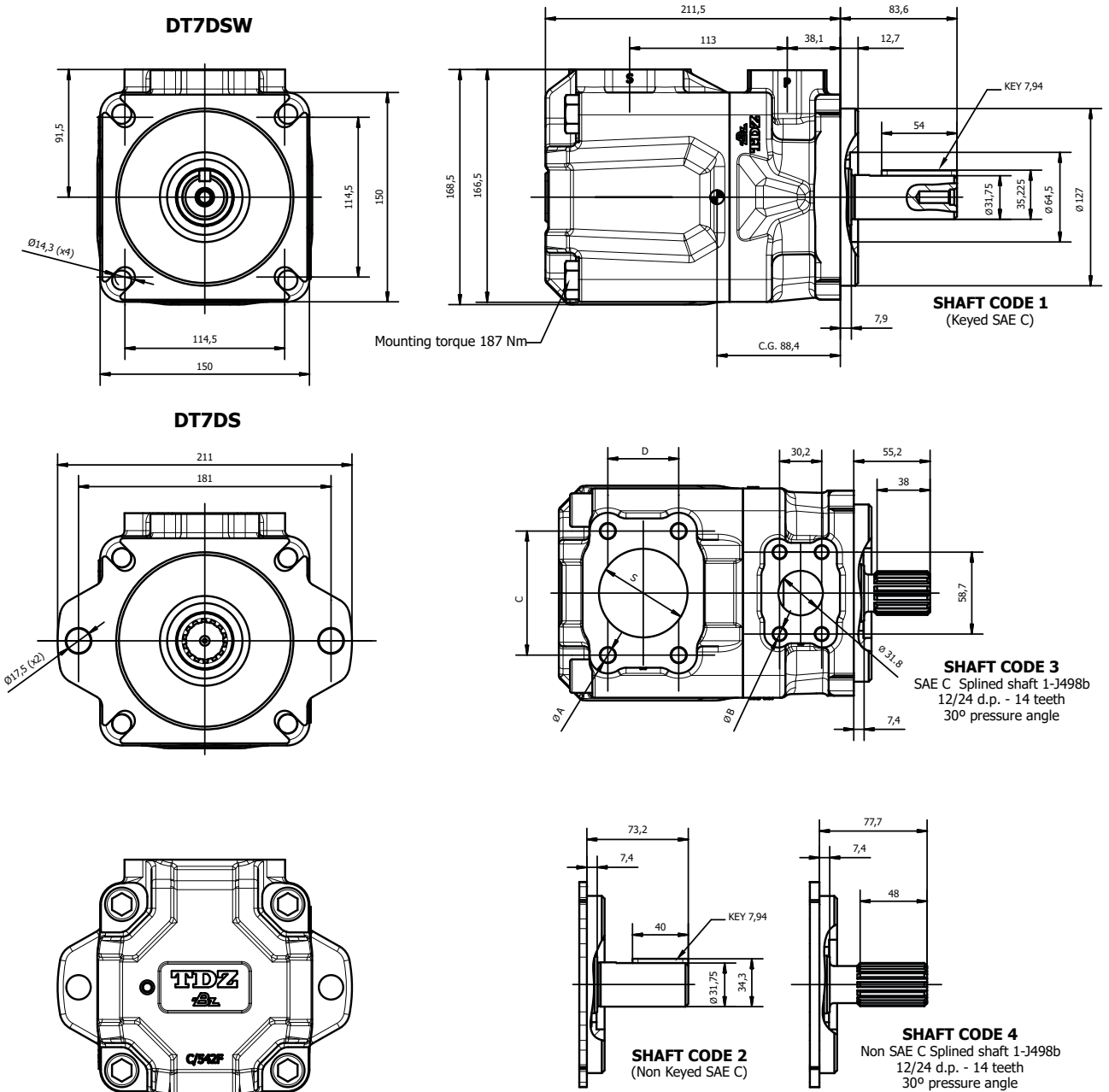
Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).



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

## DIMENSIONS - SINGLE VANE PUMPS DT7DS



	Metric thread		UNC thread
T7DSW	M0	Y0 <sup>1)</sup>	00
T7DS	M0	Y0 <sup>1)</sup>	00

<sup>1)</sup> 250 bar max. int.

Model	T7DS			T7DSW		
	00	M0	Y0 <sup>1)</sup>	W1	M0	Y0 <sup>1)</sup>
Ø A	1/2" - 13 UNC	M12	M12	1/2" - 13 UNC	M12	M12
Ø B	7/16" - 14 UNC	M12	M10	7/16" - 14 UNC	M12	M10
C		77,8			88,9	
D		42,9			50,8	
S		50,8			63,5	

<sup>1)</sup> 250 bar max. int.

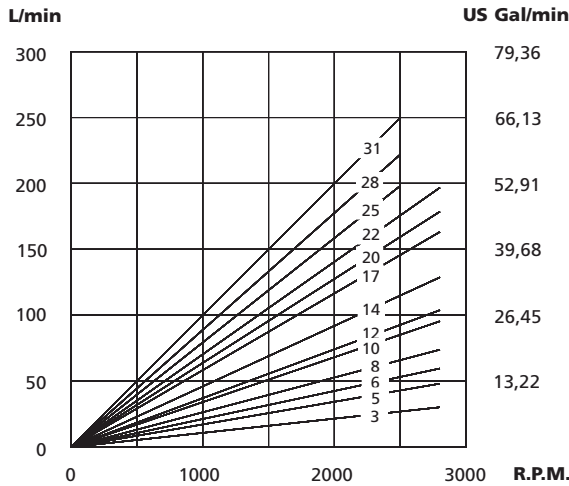
Shaft torque limits [ml/rev. x bar]	
Shaft	Vi x p max.
1	43240
2	34590
3	61200
4	61200

## DT6C OPERATING CHARACTERISTICS

DATA SHEET

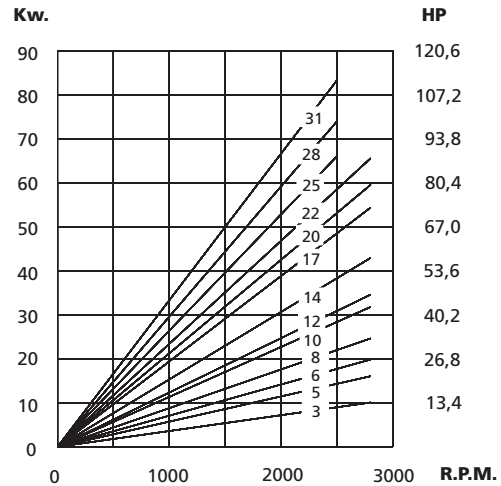
FLOW										SPEED (rpm)		PRESSURE (bar)		WEIGHT (Kgs.)													
										Min.	Máx.	Intermit.	Contin.														
Lts/min.at 1000 rpm										11	17	21	26	34	37	46	58	64	70	79	89	100	500	2800*	275	240*	15
Gal/min.at 1200 rpm										3	5	6	8	10	12	14	17	20	22	25	28	31					

\* See page 41 for further information about speed & pressure.



**Theoretical Flow (0 Bar)**

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).



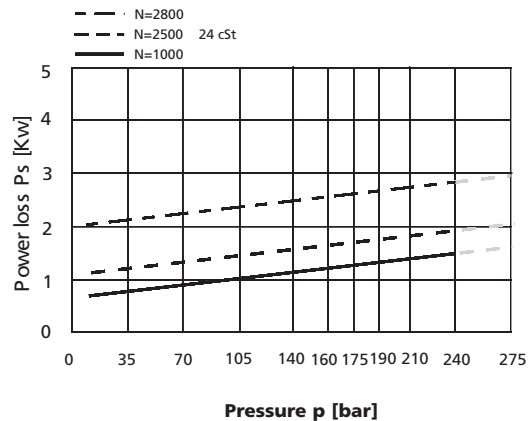
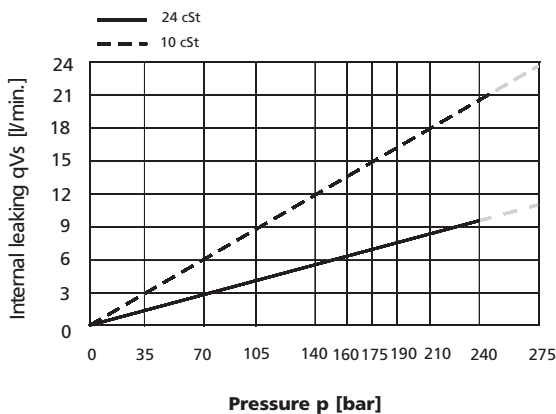
**Theoretical Input Power at 200 Bar**

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

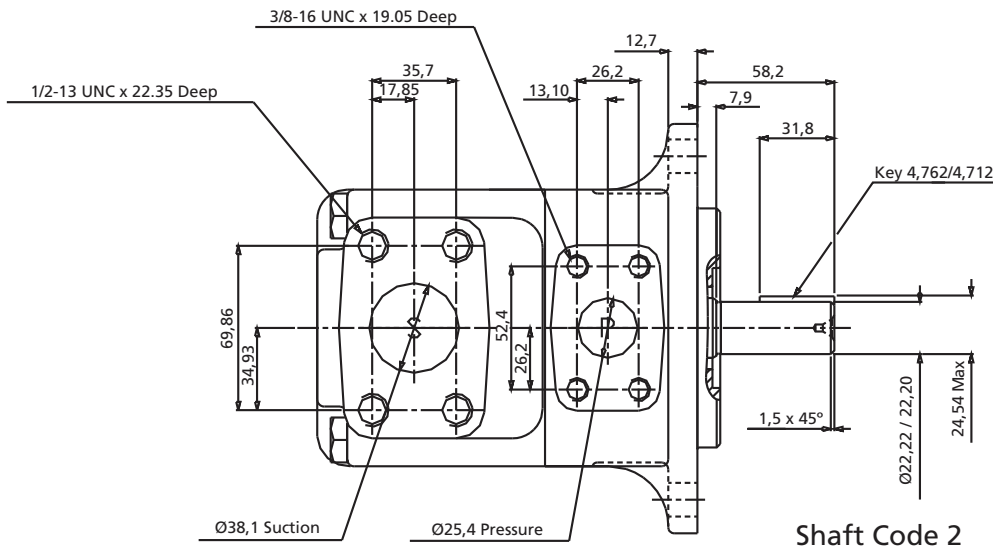
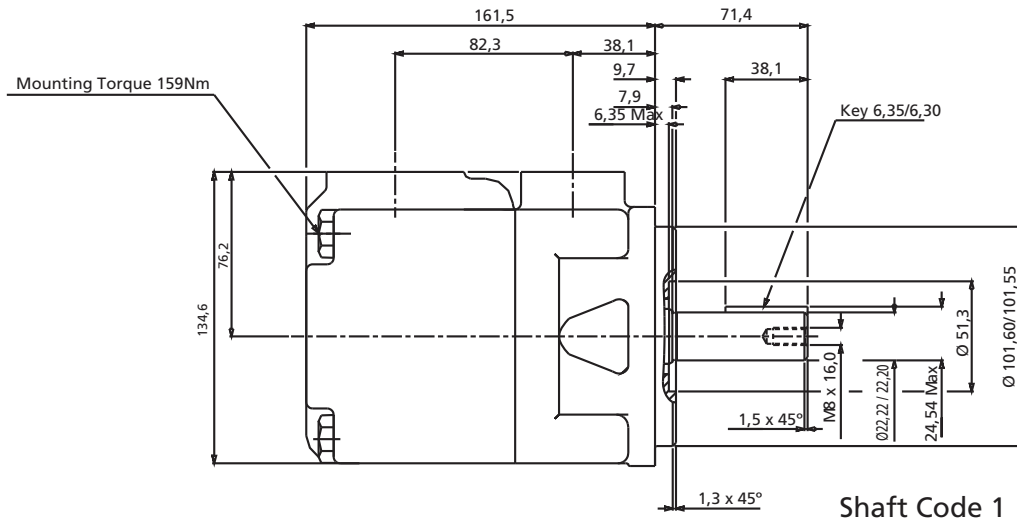
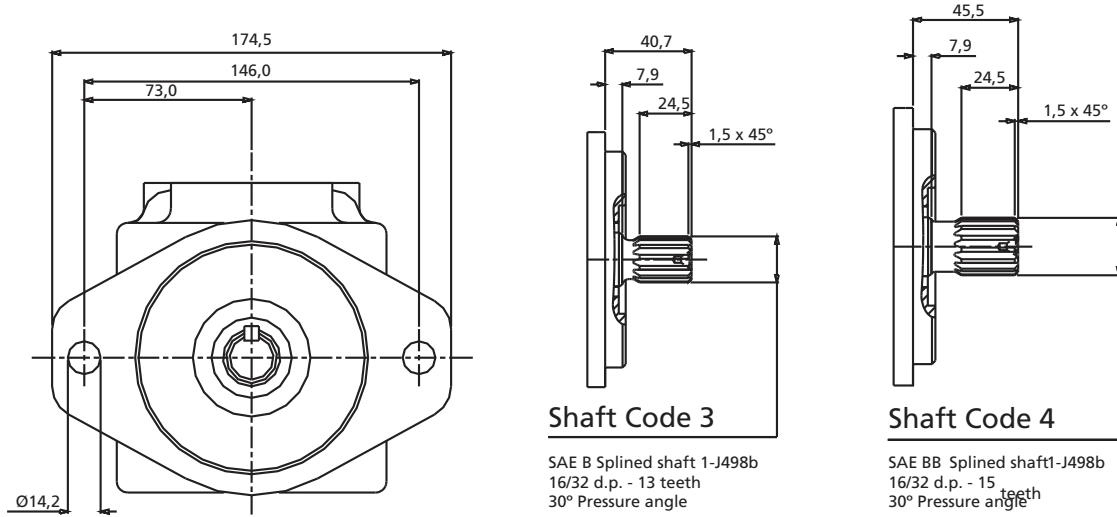
To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).



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

**DIMENSIONS - SINGLE VANE PUMPS DT6C**

DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm



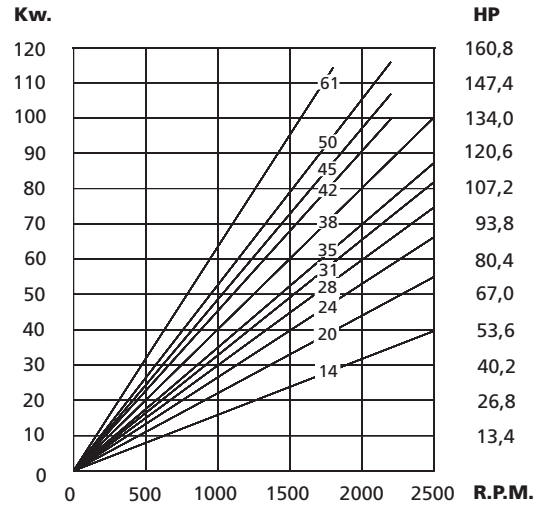
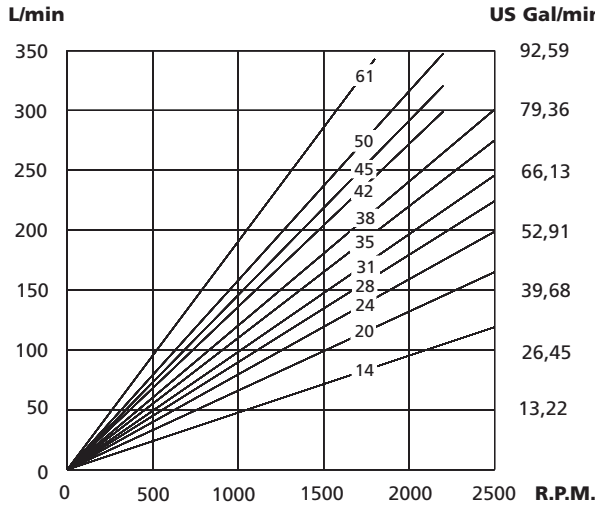


## DT6D OPERATING CHARACTERISTICS

DATA SHEET

FLOW	SPEED (rpm)		PRESSURE (bar)		WEIGHT (Kgs.)								
	Min.	Máx.	Intermit.	Contin.									
Lts/min.at 1000 rpm	48	66	80	90	98	111	120	136	146	158	191	50	24
Gal/min.at 1200 rpm	14	20	24	28	31	35	38	42	45	50	61		

\* See page 41 for further information about speed & pressure.



**Theoretical Flow (0 Bar)**

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

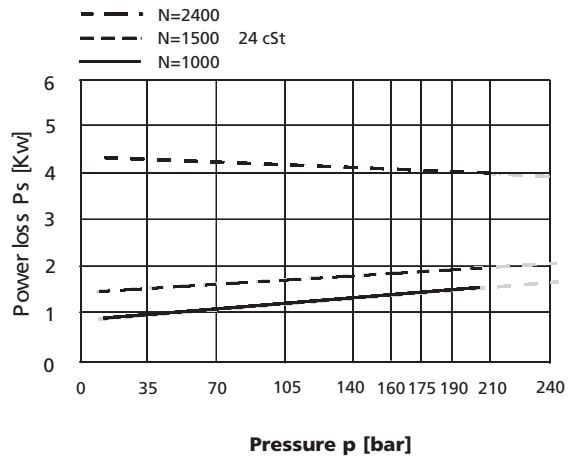
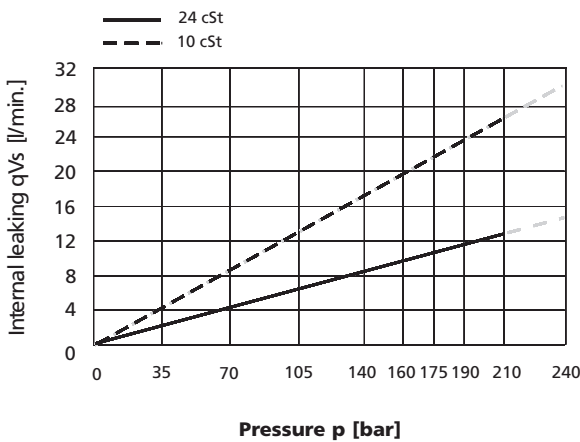
**Theoretical Input Power at 200 Bar**

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(\text{Kw}) = \frac{Q(\text{L/min.}) \times P(\text{Bar})}{600}$$

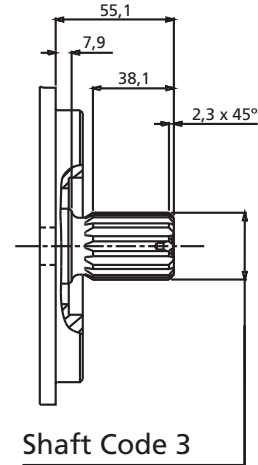
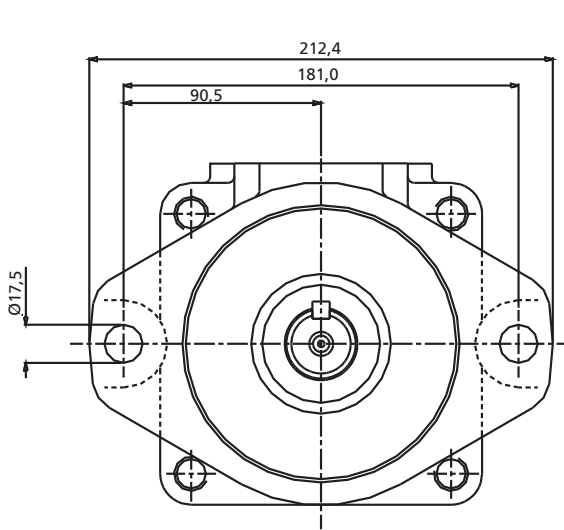
Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).

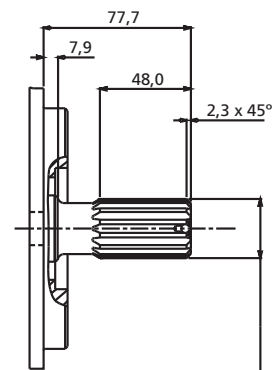
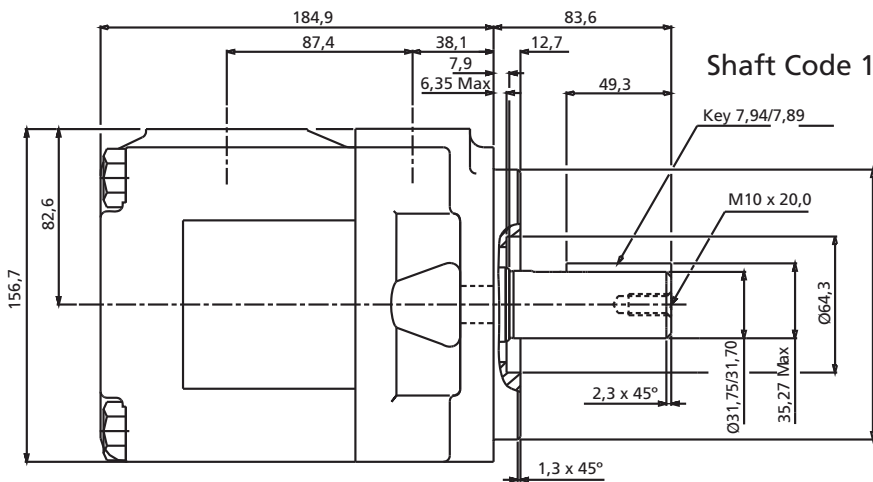


**DIMENSIONS - SINGLE VANE PUMPS DT6D**

DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm

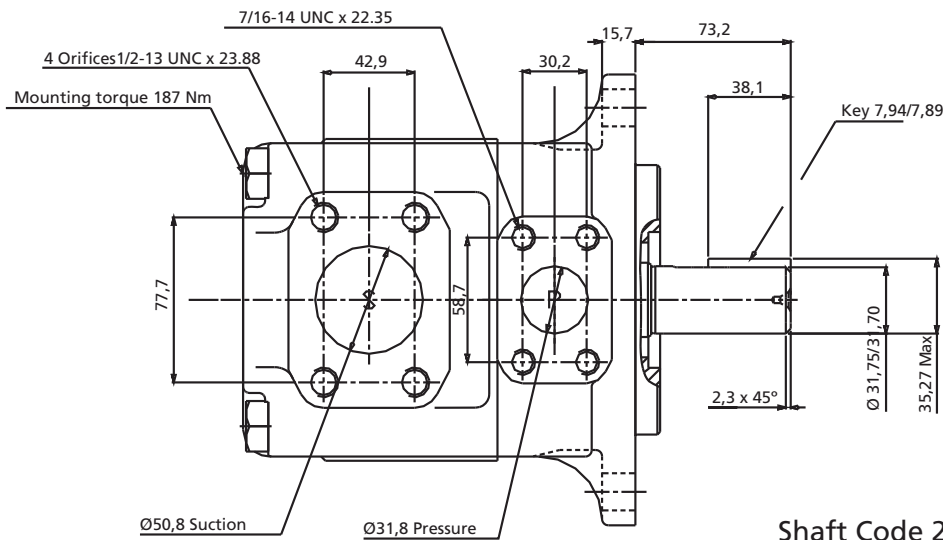


SAE C Splined shaft 1-J498b  
12/24 d.p. - 14 Teeth  
30° Pressure angle



**Shaft Code 4**

No SAE Splined shaft 1-J498b  
12/24 d.p. - 14 Teeth  
30° Pressure angle



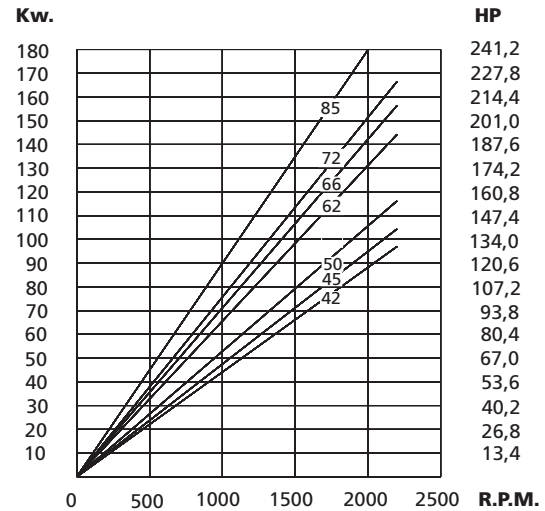
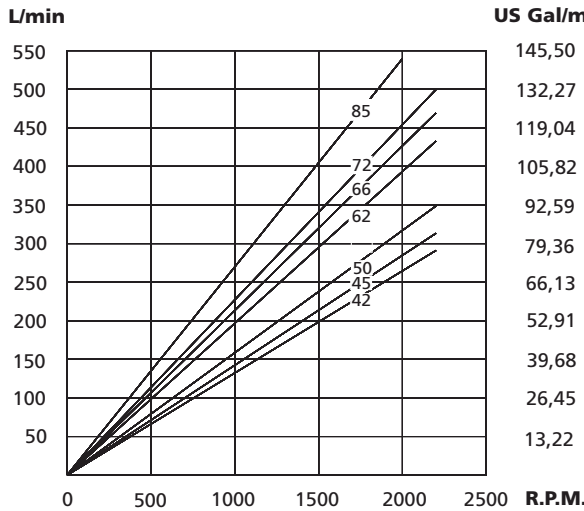
**Shaft Code 2**

## DT6E OPERATING CHARACTERISTICS

DATA SHEET

FLOW	SPEED (rpm)							PRESSURE (bar)		WEIGHT (Kgs.)		
	Lts/min.at 1000 rpm	132	142	156	197	213	227	270	Min.		Máx.	Intermit.
Gal/min.at 1200 rpm	42	45	50	62	66	72	85	500	2200*	240	210	44

\* See page 41 for further information about speed & pressure.



### Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

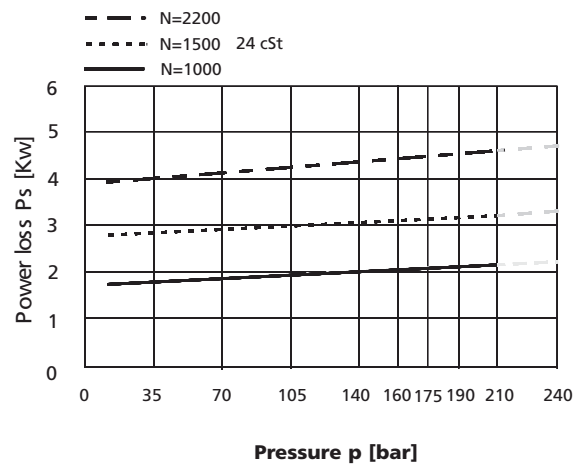
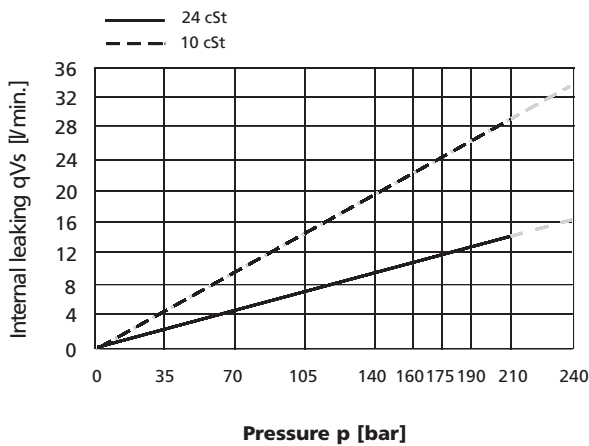
### Theoretical Input Power at 200 Bar

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

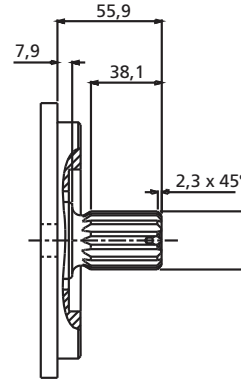
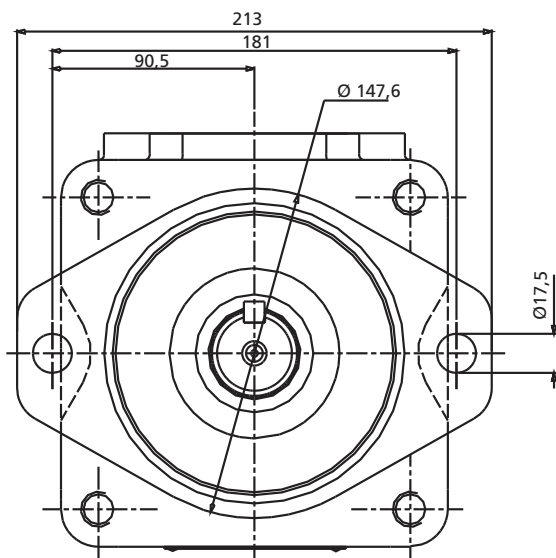
Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).



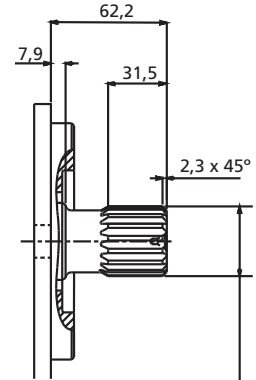
**DIMENSIONS - SINGLE VANE PUMPS DT6E**

DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm



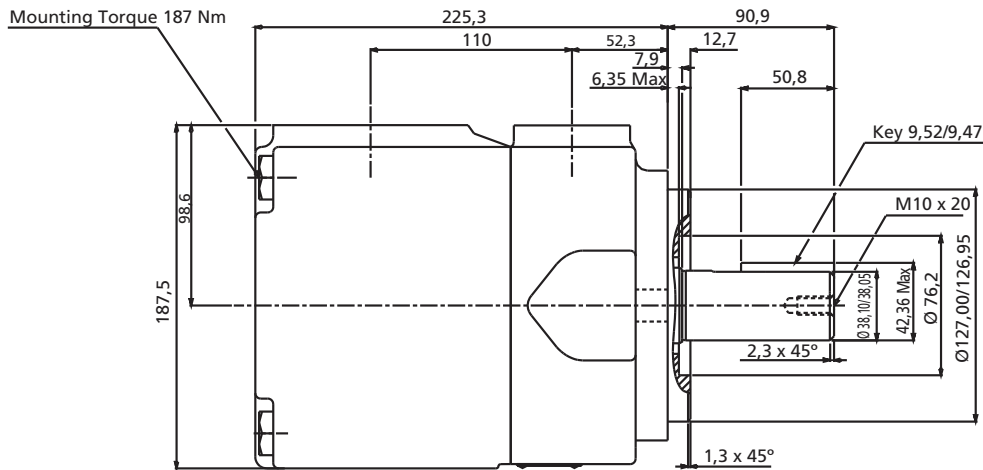
**Shaft Code 3**

SAE C Splined shaft 1-J498b  
12/24 d.p. - 14 Teeth  
30° Pressure angle

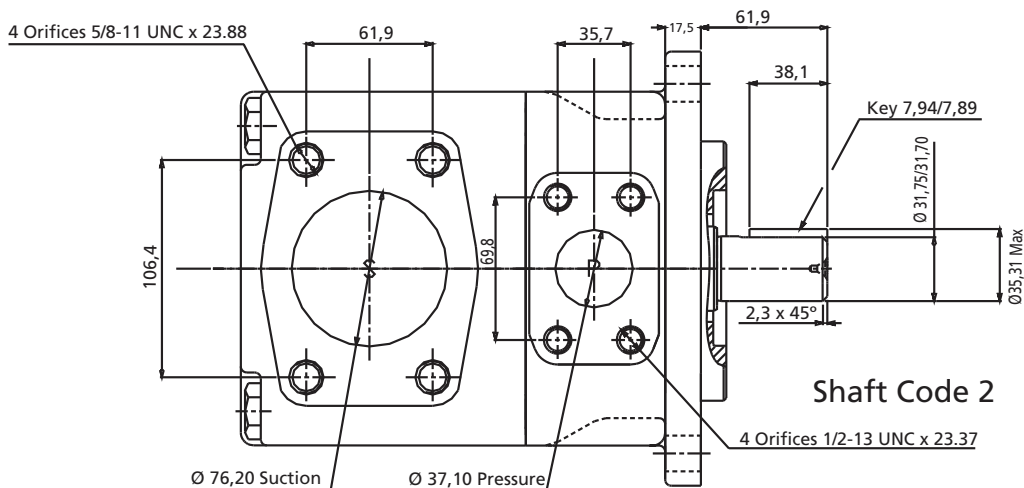


**Shaft Code 4**

SAE C-C Splined shaft  
1-J498b 12/24 d.p. -  
17 Teeth  
30° Pressure angle



**Shaft Code 1**  
SAE C-C



**Shaft Code 2**