

# TXVA series

variable displacement  
piston pumps  
SAE version

## ► Characteristics

Pump ref.	Direction of rotation	Max. displacement <sup>(1)</sup>		Maximum operating pressure		Max. peak pressure (intermittent: 5%)		Torque at 300 bar (4350 psi) <sup>(2)</sup>		Max. speed at full displacement <sup>(3)</sup>	Max. speed in stand-by	Weight		Overhang torque <sup>(4)</sup>	
		cu.in/rev	(cc/rev)	psi	(bar)	psi	(bar)	lbf ft	(N.m)	rpm	rpm	lbs	(kg)	lbf ft	(N.m)
<b>TXVA 75</b>	CC CCW	4.60	(75)	5800	(400)	6090	(420)	310	(420)	2000	3000	64	(29)	26	(35.2)
<b>TXVA 92</b>	CC CCW	5.60	(92)	5500	(380)	5800	(400)	380	(515)	1900	3000	64	(29)	26	(35.2)

(1) TXV pumps can be set for smaller maximum displacements (see page 39).

(2) For a mechanical efficiency at 85%.

(3) Higher speed - at full displacement - possible depending on flow required : please contact us.

(4) Value of the overhang torque of the only pump.

## ► Configurator for TXVA pumps

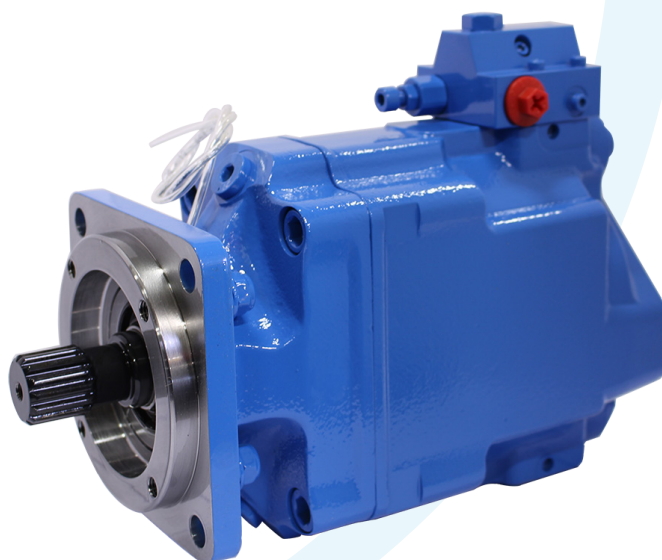
To obtain order code for your pump, fill in the parameters (2, 3, 4, 5, 6, 7)

depending on the options required,

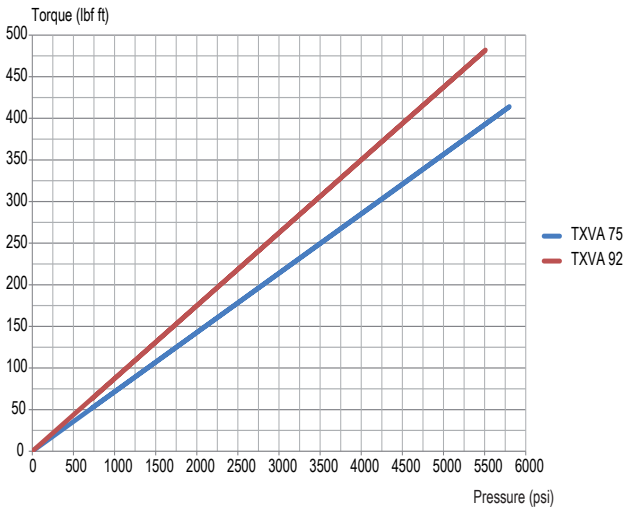
using the table below.

TXVA	...	...	...	...	...	...
1	2	3	4	5	6	7

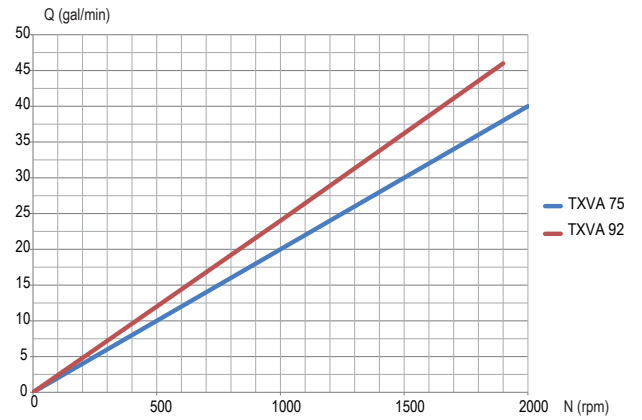
1	<b>TXVA pump</b>				
2	<b>Displacement</b>	75	92	...	
3	<b>Direction of rotation</b>	CW CCW			
4	<b>Flange</b>	SAE C - 2 bolts SAE C - 4 bolts	C1 C2		
5	<b>Shaft end</b>	Splined SAE J744 Keyed SAE J744	14T 12/24 DP - SAE C Ø 1 1/4" UNF 2A - SAE C	S1 K1	
6	<b>Ports</b>	UNF Threaded BSP Threaded	Inlet : 1 7/8" 12UN 2B Outlet : 1 1/16" 12UN 2B Inlet : G1 1/2" Outlet : G 3/4"	U1 G1	
7	<b>Control types</b>	Constant Pressure Flow-Pressure Regulator Closure Plate			PC LS PF



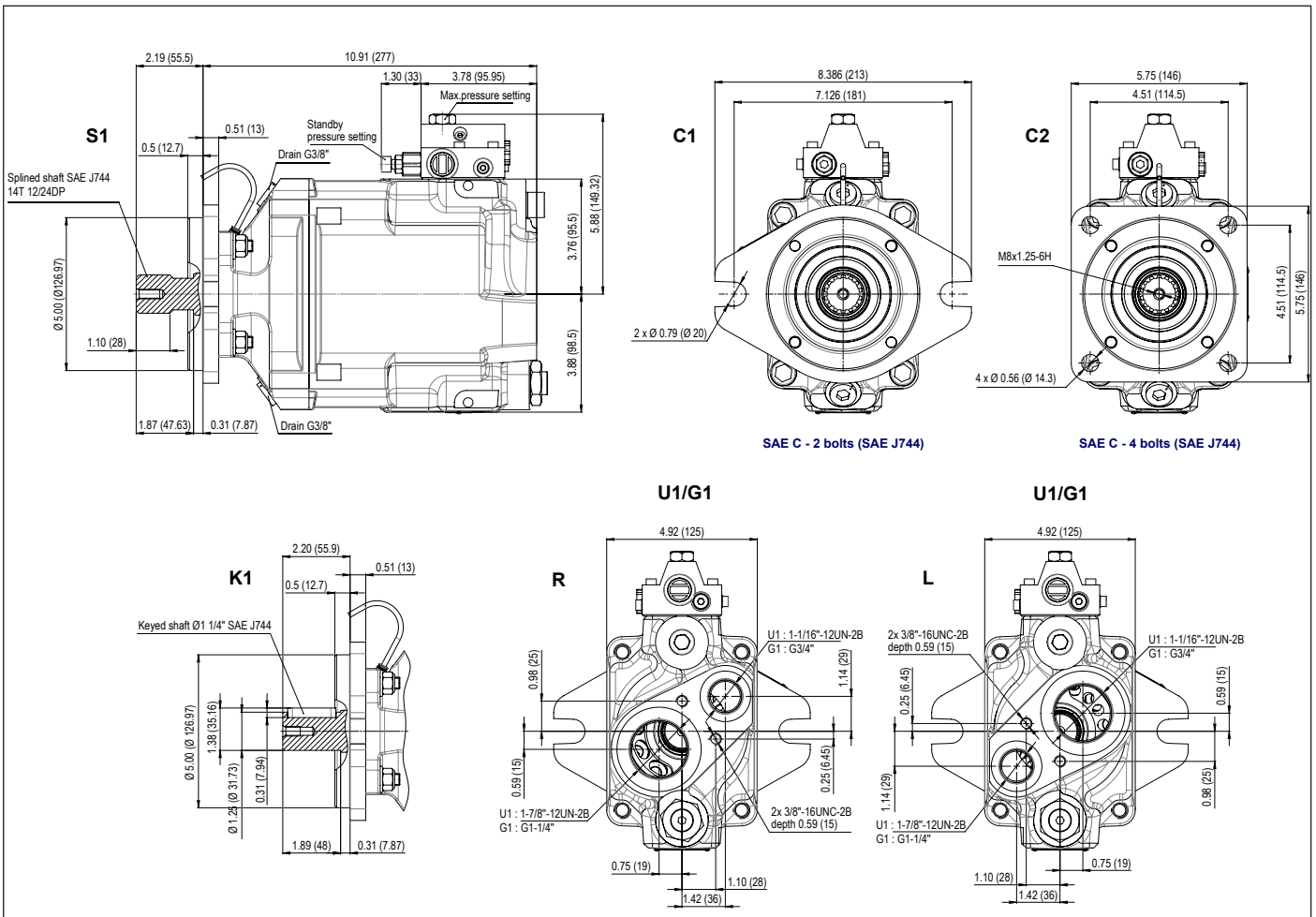
► **Torque absorbed as a function of pump output pressure (with a mechanical efficiency considered at 85%)**



► **Flow**



► **Dimensions**



Dimensions in inches (mm).

## PC | Constant Pressure

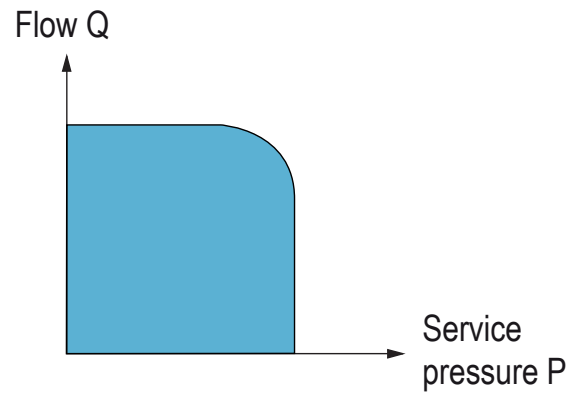
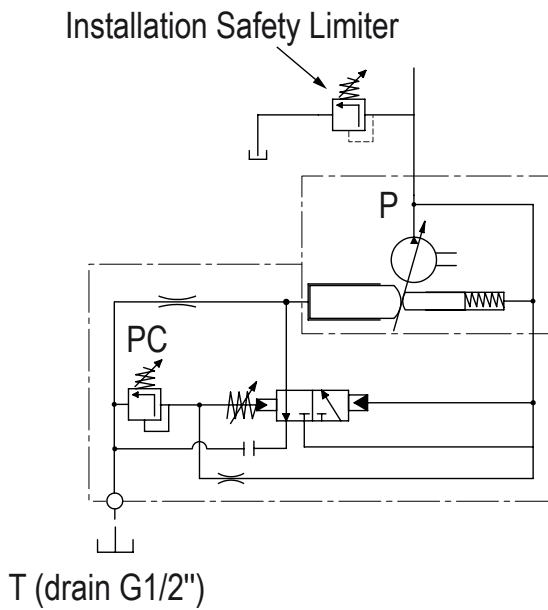
The constant pressure regulator maintains the pressure within a hydraulic receiver. As soon as the set pressure is reached, the pump's flow adjusts automatically to match the receiver's consumption. This arrangement prevents overheating and power consumption for all pressure maintenance applications.

### Examples:

- Hydraulic press
- Compression molds
- Manufacturing of bonded composites

### IMPORTANT:

Without further specifications in the order:  
PC set at 100 bar.



LS | Flow-Pressure Regulator

► Control of Q and P (LS: "Load-Sensing")

**IMPORTANT:**  
Without further specifications in the order:  
PC set at 100 bar, Stand-by at 30 bar.

This regulation (LS) allows continuous control of the flow and maximum discharge pressure of the pump. With this arrangement, it is easy to envision all possible combinations:

- High flow and low pressure,
- High pressure and low flow.

