

APPLICATION

Foot pump type **UPTN5 - 02.S0454** is used to supply hydraulic systems by means of the lever driven by foot (or manually).



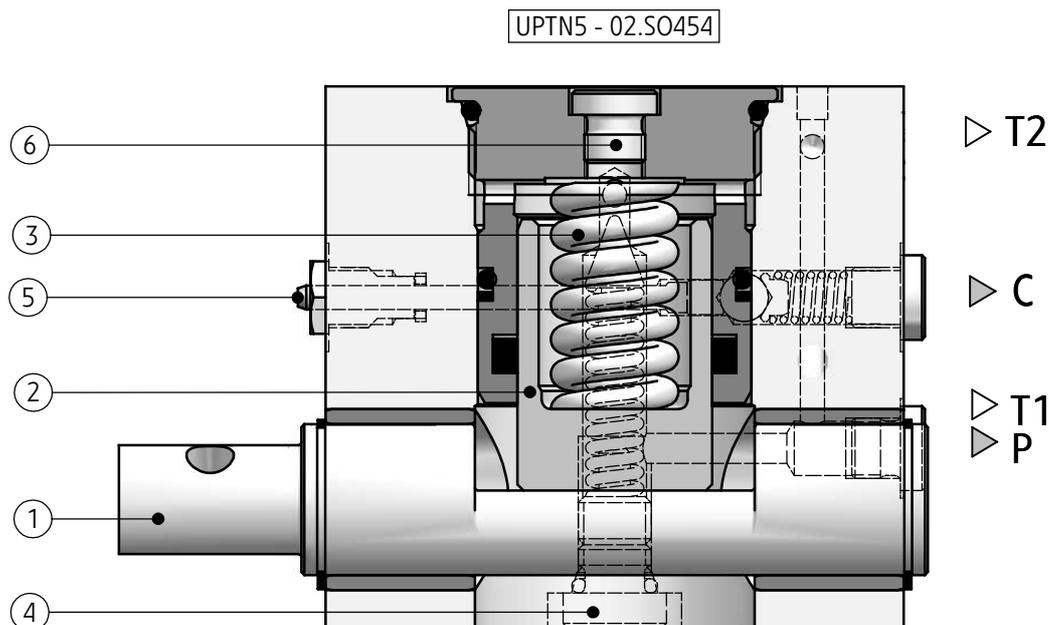
DESCRIPTION OF OPERATION

To actuate the pump, the port **P** must be connected with the receiver and port **T1** or **T2** must be connected with a tank. The shaft of the pump (1) is driven by foot or manual lever coupled with the shaft (the lever should be ordered separately). Damping is the result of rotating the shaft (1) by 50° which puts the piston in the motion (2) and oil pressure increase in port **P**. The piston return (2) and the shaft return (1) together with the lever is forced by the spring (3), and then the oil is

sucked from the tank and next working cycle of the pump is followed. The pressure of oil damping is set by means of the pressure control valve (4) within the range from **0** to **12MPa**. Excess oil can be drained to the tank via unloading valve (5), equipped with the throttle valve preventing from sudden oil outflow.

CAUTION:

Before first actuation, the pump must be bled. For this purpose, it is necessary to screw off the plug (6) and after bleeding, the plug (6) must be screwed tight.

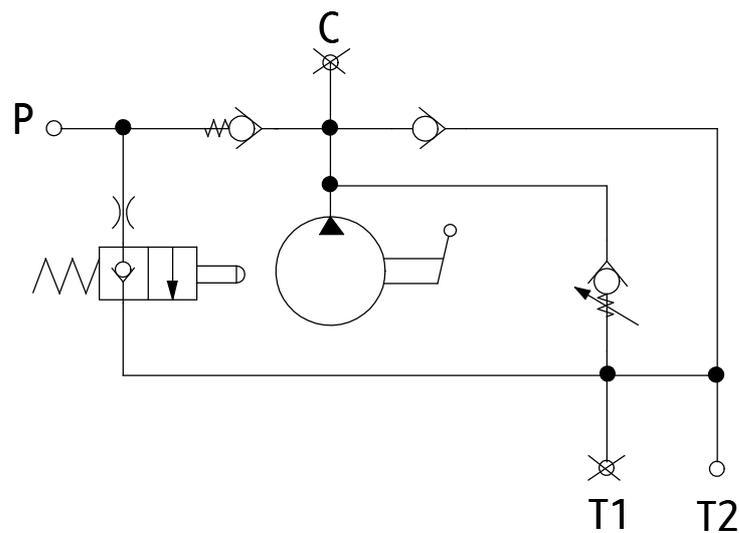


TECHNICAL DATA

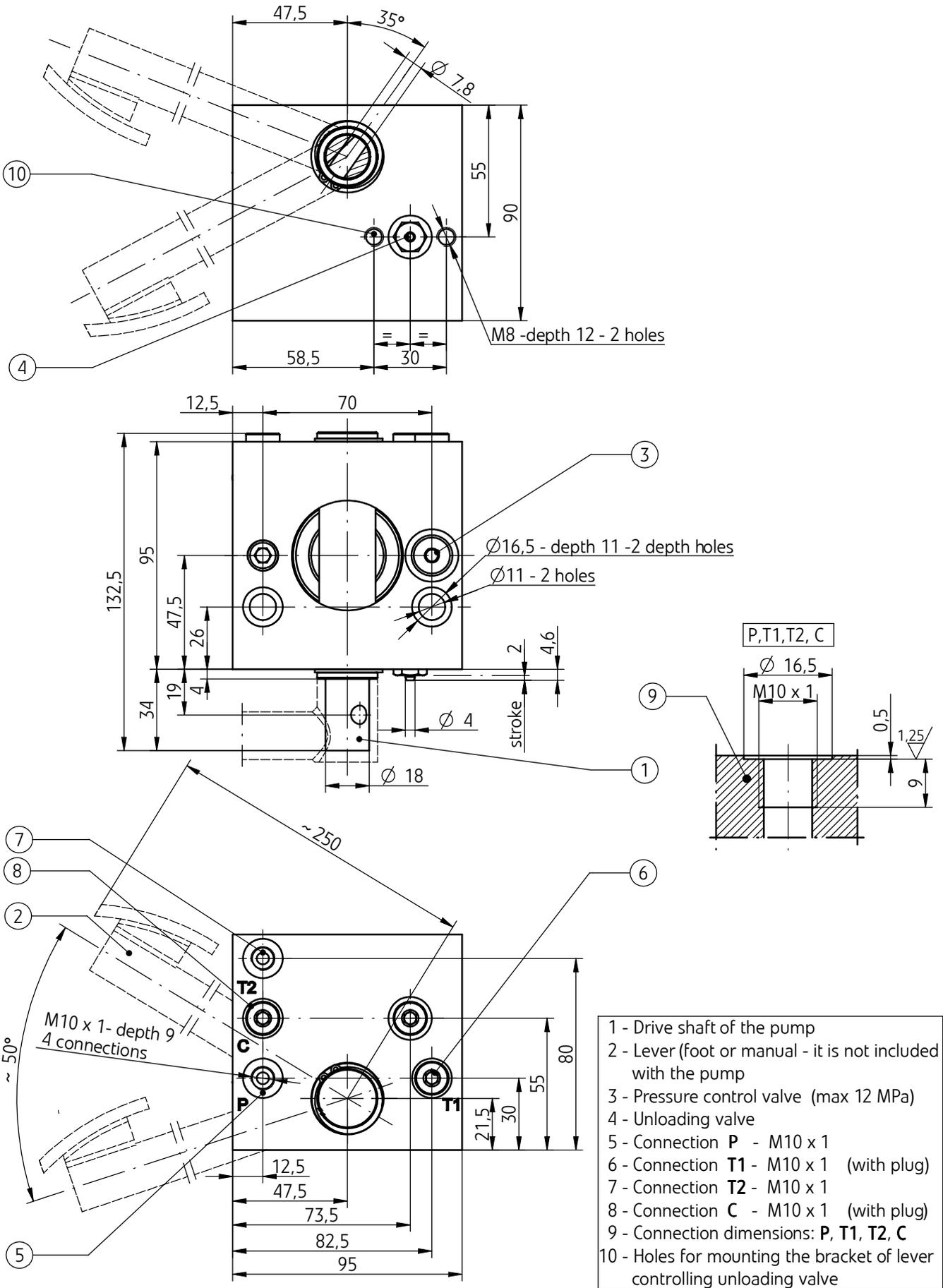
Hydraulic fluid	mineral oil	
Required filtration	up to 16 μm	
Recommended filtration	up to 10 μm	
Nominal fluid viscosity	10 up to 200 mm^2/s	
Viscosity range	2,8 up to 380 mm^2/s	
Fluid temperature range (in a tank)	recommended	40 °C up to 55 °C
	max	-20 °C up to +70 °C
Ambient temperature range	- 20 °C up to +70 °C	
Maximum operating pressure	12 MPa	
Displacement	3 up to 5 $\text{cm}^3/\text{stroke}$	
Degree of rotation of the pump shaft	~ 50°	
Weight	6 kg	

SCHEMES

Hydraulic scheme for the pump type **UPTN5 - 02.S0454**



OVERALL AND CONNECTION DIMENSIONS

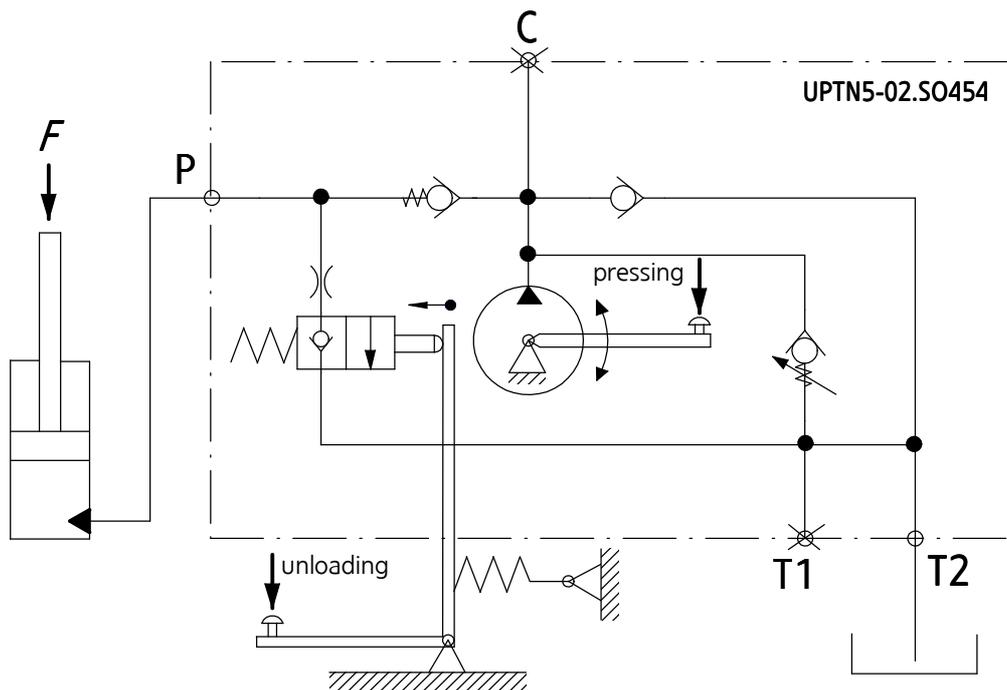


HOW TO ORDER

The pump should be ordered including the following type designation - **UPTN5 - 02.S0454**.

Example coding: foot pump type UPTN5 - 02.S0454

EXAMPLE OF APPLICATION IN HYDRAULIC SYSTEM



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