

Pressure relief valves UZPS 32 serve to limit pressure in a hydraulic system or in a part of it. Version UZPS 32...X is also used to unload pressure in a system.

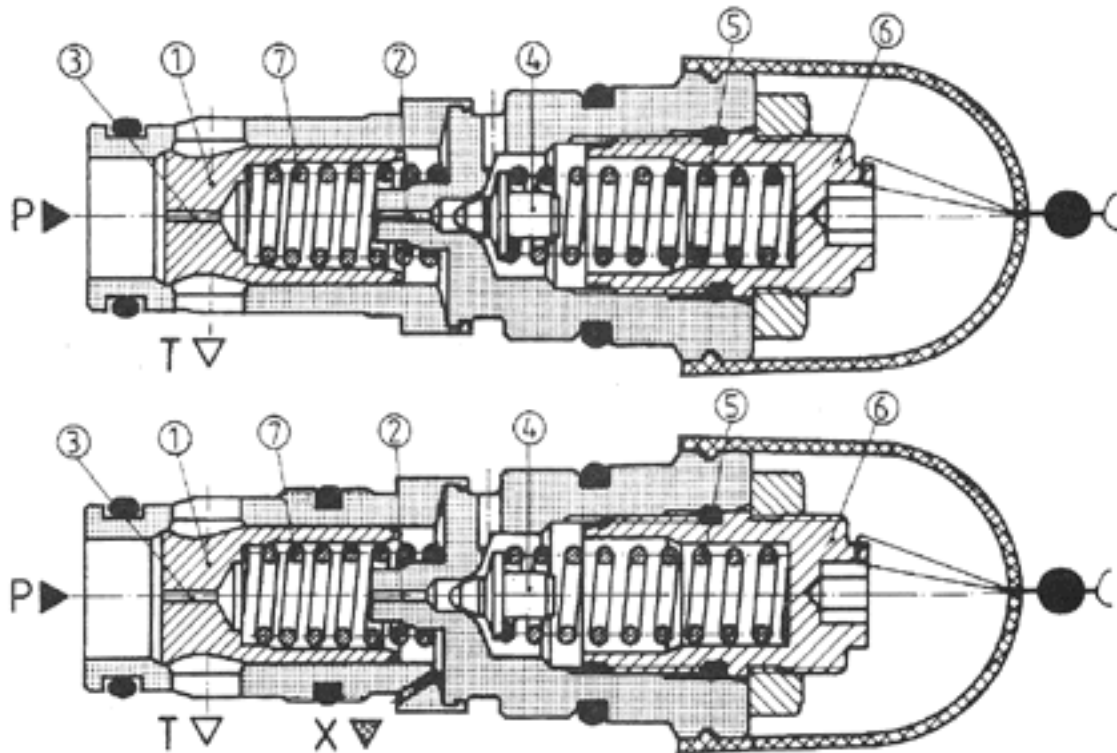
Example of application :

UZPS 32 for setting up maximum pressure in a system

UZPS 32...X for actuation of a pump without pressure



## DESCRIPTION OF OPERATION



Pilot operated pressure relief valve UZPS 32 consists of a pilot valve and main valve. Pressure of the system affects the main spool end 1 via port P and at the same time the spring loaded side of the main spool and pilot poppet 4 via jets 2, 3. At standstill, on both sides of the spools pressures are equal. The spring 5 holds the main spool in starting position.

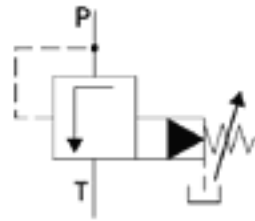
Ports P and T are separated from each other. If pressure in the system meets the value set at the adjustment 6 and determined by tension of the spring 5 in the pilot valve, fluid will flow via the jet and the pilot poppet into a tank.

Resulting pressure differential across the jet affects the both main spool surfaces. The main spool is thus pushed up allowing the excess fluid to drain out of the system into the tank.

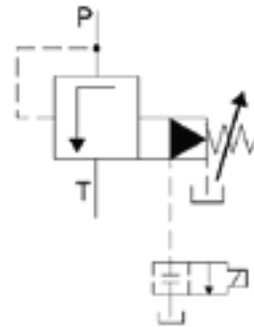
Pressure relief valve is also available with directional valve unloading UZPS32...X. In the starting position, directional control valve as a pilot valve, closes the return line X in front of the pilot poppet. The valve operated as above described. In switched position the directional valve connects the spring side of the main spool with the tank. This side of the spool is thus unloaded and the spool opens the connection from port P to port T.



# SYMBOL



Type **UZPS 32**



Type **UZPS 32...X**

## HOW TO ORDER UZPS 32

UZPS 32 / 10-350-W2- X \*

<b>Series no</b> 10 = 10 (10 - 19) = installation and connection dimensions unchanged
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<b>Pressure setting</b> up to 5 MPa = 50 up to 10 MPa = 100 up to 20 MPa = 200 up to 35 MPa = 350
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<b>Version</b> Without unloading = with no code With unloading = X
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Any further requirements in clear text ( to be agreed upon with the manufacturer )

Coding example:  
**UZPS 32/10-200-W2-X**

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