

Main elements of the valve type **UZUC6**... are body (1), spool (2), spring (3) and logic valve (4) used to select higher control pressure from port **A** or **B**. For version UZUC6...**P**... (2-way version) the difference of pressures between port P and ports **A** or **B** acts on the spool (2), and after the initial spring (3) tension is overcome, the

way in port P - P1 is opened. The flow in port P is being kept on the permanent level (see the valve characteristics) independently of pressure change in the system. Additionally for version UZUC6...PT... (3-way version) the compensator operation consists in draining the excess operating fluid from port P to port T (drain).

## **TECHNICAL DATA**

Hydraulic fluid	mineral oil					
Required fluid cleanliness class	ISO 4406 class 20/18/15					
Nominal fluid viscosity	$37 \text{ mm}^{2}/\text{s}$ at temperature 55 °C					
Viscosity range	2,8 up to 380 mm <sup>2</sup> /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					
Max operating pressure	35 MPa					
Max flow rate	30 dm <sup>3</sup> /min					
Weight	1,3 kg					

### **INSTALLATION AND OPERATION REQUIREMENTS**

- 1. Only fully functional and operational valve can be used.
- 2. During the operation one must maintain the recommended fluid viscosity acc. to requirements defined in this Data Sheet Operation Manual.
- 3. In order to provide failure-free and safe operation of the valve, one should systematically check:
  - proper working of the valve
  - cleanliness of the hydraulic fluid
- 4. Due to heating of the valve body to high temperature, the valve should be placed in such a way to eliminate the risk of accidental contact with the valve body

during operation or one should provide suitable covers compliant with the requirements of European standards: PN - EN ISO 13732 - 1 and PN - EN 4413.

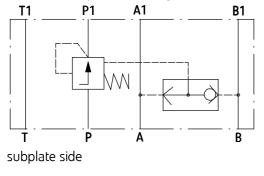
- 5. In order to provide tightness of the valve connection to the hydraulic system, one should keep the dimensions of the sealing rings, tightening torques and valve operation parameters specified in this Data Sheet - Operation Manual.
- A person operating the valve must be thoroughly familiar with the content of this Data Sheet -Operation Manual.

# DIAGRAMS

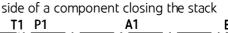
Hydraulic diagrams of valves type UZUC6...

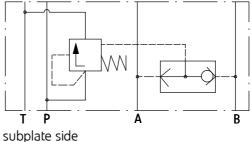
version UZUC6...P...

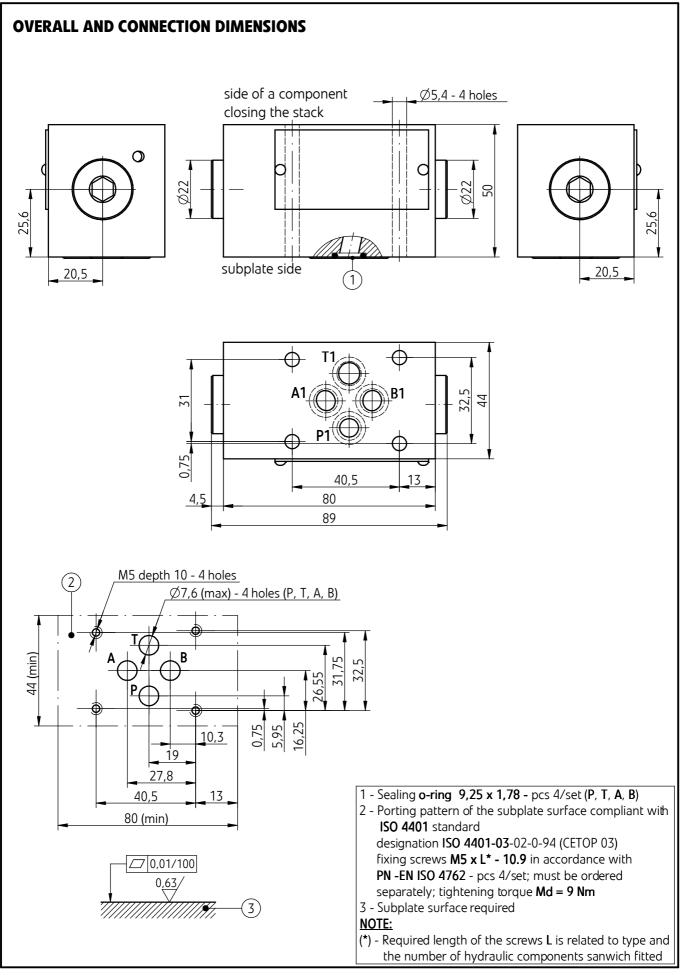
side of a component closing the stack



version UZUC6...**PT**...





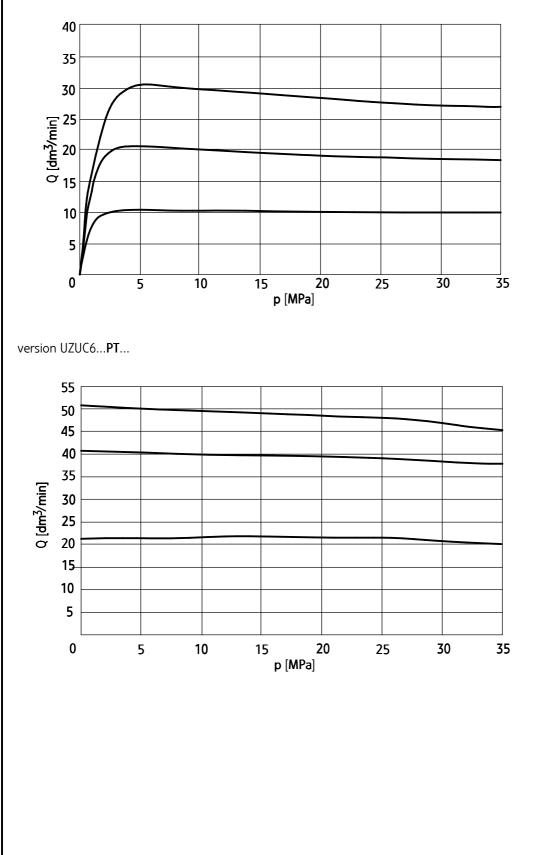


# PERFORMANCE CURVES

measured at viscosity  $v = 41 \text{ mm}^2/\text{s}$  and temperature  $t = 50^{\circ}\text{C}$ 

#### Pressure curves

version UZUC6...**P**...



### **HOW TO ORDER**

	UZUC	6 -	-	/	10	*
Nominal size (NS)		-				
NS6		= 6				
Series number						
(20-29) - connection and installation dime	ensions uncha	nged =	2X			
series 22		=	22			
Pressure compensation						
2-way		=	Р			
3-way		=	PT			
Pressure compensation range						
∆ p - 1 MPa		=	10			
Sealing						
NBR (for fluids on mineral oil base)		=	no •	design	ation	
FKM (for fluids on phosphate ester base	1	-	= V			

(to be agreed with the manufacturer)

#### NOTES:

The valve should be ordered according to the above coding. The symbols in bold are the preferred versions in short delivery time. Coding example: UZUC6 - 22/P 10

## SUBPLATES AND FIXING SCREWS

Subplates must be ordered according to data sheet WK 496 480. Subplate symbols: G 341/01 - threaded connections G 1/4 G 342/01 - threaded connections G 3/8 G 502/01 - threaded connections G 1/2 G 341/02 - threaded connections M14 x 1,5 G 342/02 - threaded connections M16 x 1,5 The subplate symbol in bold is the preferred version available in short delivery time. Subplates and screws fixing the valve M5 x L\* - 10,9 in acordance with PN - EN ISO 4762 - pcs 4/set <u>must be</u> <u>ordered separately.</u> Tightening torque Md = 9 Nm <u>NOTE:</u>

(\*) - Required length of the screws L is related to type and the number of hydraulic cpomponents sanwich fitted

