# Pressure cartridge relief valve type UZPS6

NS 6 |  $p_{max}$  35 MPa |  $Q_{max}$  60 dm<sup>3</sup>/min | WK 492 860



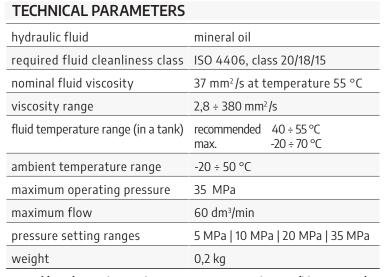
## DATA SHEET - OPERATION MANUAL

#### **APPLICATION**

Pressure relief valve **UZPS6...** type is designed to limit pressure in hydraulic systems.

#### **DESCRIPTION OF OPERATION**

The valve **UZPS6...** type is a pilot pressure relief valve and consists of a pilot valve and main valve. Regulated pressure affects the lower surface of the main valve spool **1** and at the same time through the nozzle **2** affects the upper surface of the main valve spool. The pressure also affects the pilot valve cone **4** through the nozzle **3**. In neutral position, the pressure on both sides of the main spool **1** is the same. The spring **5** holds the spool **1** in rest position (closed position). The ports **1** (P) and **2** (T) are separated from each other. When the pressure in the system reaches the value set by spring tension **6**, the pilot valve **4** opens and the oil flows through the nozzles **3** and **2**. At the nozzle **2** arises the pressure difference which affects both the upper and lower surface of the spool. As a result, the spool **1** lifts and the excessive oil can be drained to the tank.

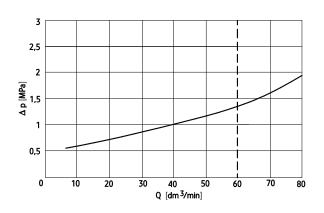


assembly and operation requirements at www.operating-conditions.ponar.pl

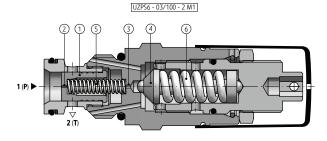
#### **PERFORMANCE CURVES**

measured at viscosity  $\nu$  = 41 mm<sup>2</sup>/s and temperature t = 50 °C

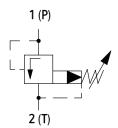
#### for flow resistance (the lowest settable pressure)



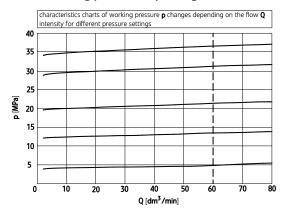




### **DIAGRAMS**



#### for the working pressure depending on the flow

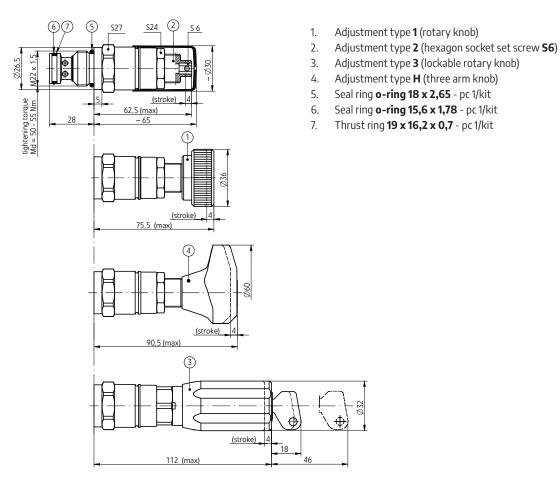


1/4

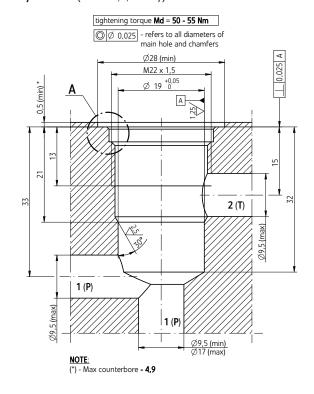


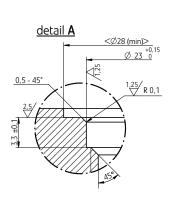
#### **OVERALL AND CONNECTION DIMENSIONS**

version UZPS6...M1...



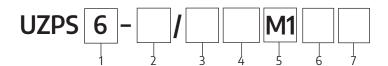
version UZPS6...M1... connection cavity M-06-2 (M22 x 1,5; 2-way)







#### **HOW TO ORDER**



**1 Nominal size** WN6 =

2 Series number

(02-09) - connection and installation dimensions unchanged = 0X series 03= 03

3 Settable pressure range

up to 5 MPa=	50
up to 10 MPa=	100
up to 20 MPa=	200
up to 35 MPa=	350

4 Adjustment element

rotary knob = 1

set screw with internal hexagon = 2

lockable rotary knob = 3

three arm knob = H

5 Mechanical connection type thread M22 x 1,5 = M 6 Sealing NBR (for fluids on mineral oil

**base) =** Ø FKM (for fluids on phosphate ester base) = V

**7 Further requirements = \*** (to be agreed with the manufacturer)

The symbols in **bold** are preferred versions available in short delivery time.  $\emptyset$  symbol means the field should be left blank.

6

Coding example: UZPS6-03/100-2M1



## CONTACT

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