

Pilot operated sequence cartridge valve type UZKS25

WK 422 700

NS25

up to 35 MPa

up to 450 dm³/min

02.2017

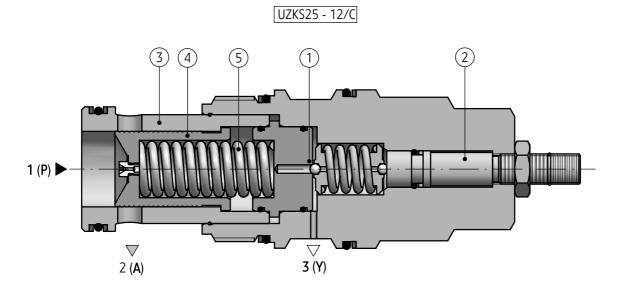
DATA SHEET - OPERATION MANUAL

APPLICATION

The valve type **UZKS25**... is intended for turning on (connecting) of a system or a part of a system after reaching a pressure set at the pressure valve. It can be used as a pressure relief valve in systems, where there is a pressure in a drain channel **A**.



DESCRIPTION OF OPERATION



The main elements of the sequence cartridge valve type UZKS25... are: initial valve (1), valve setting (2), main valve - bushing, spool (4), spring (5). When there is no pressure at port P, the spool (4) remains in starting position, where the flow to the port A is shut off. When the pressure rises in the port P above the value set by the valve setting (2),

after overcoming the force of the spring (5), the spool (4) is moved and the flow to the part of the system connected to port $\bf A$ is open. The valve keeps the pressure in port $\bf P$ independently from pressure changes in the port $\bf A$ - up to the value set by using the valve setting (2). Port $\bf Y$ is connected with the tank.

TECHNICAL DATA

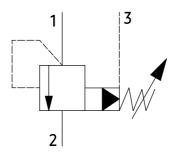
Hydraulic fluid	mineral oil	mineral oil		
Required fluid cleanliness class	ISO 4406 class 2	ISO 4406 class 20/18/15		
Nominal fluid viscosity	37 mm ² /s at te	37 mm ² /s at temperature 55 °C		
Viscosity range	2,8 up to 380 m	$2,8 \text{ up to } 380 \text{ mm}^{2}/\text{s}$		
Fluid temperature range (in a tank)	recommended	40°C up to 55°C		
	max	-20°C up to +70°C		
Ambient temperature range	-20°C up to +70	-20°C up to +70°C		
Max working pressure	35 MPa	35 MPa		
Max flow	450 dm ³ /min	450 dm ³ /min		
May ast massing	version UZKS25.	/C	version UZKS25/ D	
Max set pressure	32 MPa		10 MPa	
Min set pressure	0,9 MPa		0,2 MPa	
Weight	1,5 kg	1,5 kg		

INSTALLATION AND OPERATION REQUIREMENTS

- 1. Only fully functional and operational valve can be used.
- 2. During the period of operation must be kept fluid viscosity acc. to requirements defined in this Data Sheet Operation Manual
- 3. In order to ensure failure free and safe operation the following must be checked:
 - proper working of the valve
 - cleanliness of the hydraulic fluid
- Due to heating of valve body to high temp., the valve shall be placed in such way to eliminate the risk of
- accidental contact with the valve body during operation or to apply suitable covers acc. to 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 work parameters of the valve, specified in this Data Sheet Operation Manual.
- 6. A person that operates the valve must be thoroughly familiar with this Data Sheet Operation Manual.

DIAGRAMS

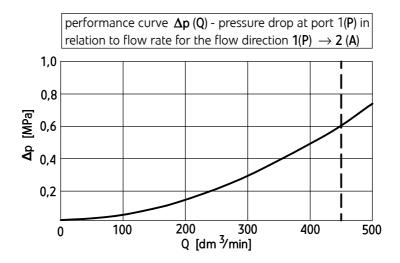
Graphic symbol for the UZKS25... valve



PERFORMANCE CURVES

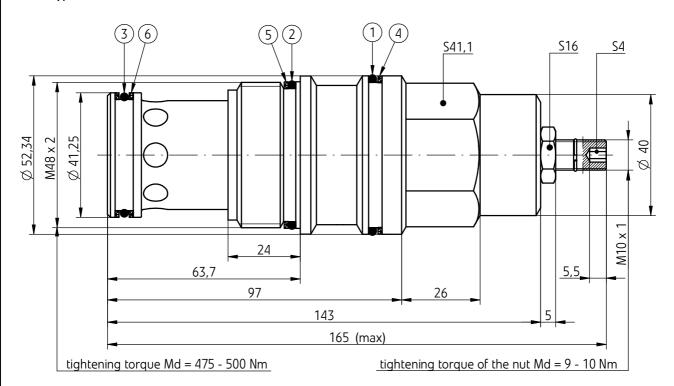
measured at oil viscosity $v = 41 \text{ mm}^2/\text{s}$ and temperature $t = 50^{\circ}\text{C}$

Flow resistance curve



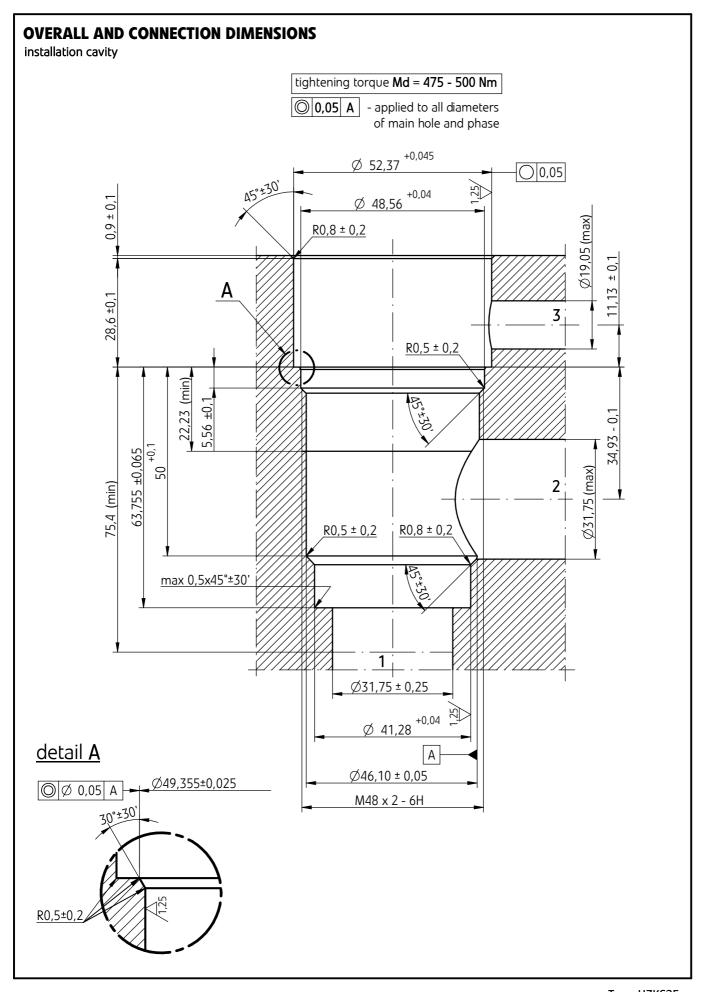
OVERALL AND CONNECTION DIMENSIONS

valve type UZKS25...

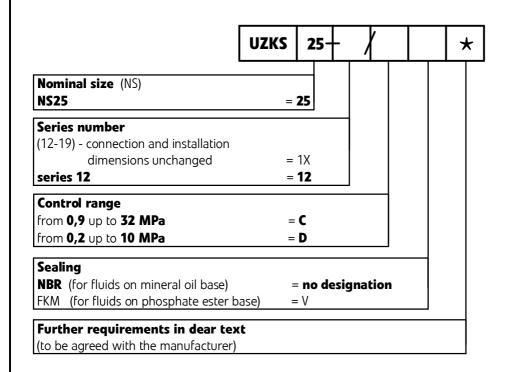


1 - Sealing ring o-ring 48 x 2,5	- pcs. 1/set
2 - Sealing ring o-ring 44 x 2,5	- pcs. 1/set
2 - Sealing ring o-ring 36 x 2,5	- pcs. 1/set
4 - Back-up ring 52,3 x 47,8 x 1,3	- pcs. 1/set
5 - Back-up ring 48,4 x 43,9 x 1,3	- pcs. 1/set
6 - Back-up ring 41,2 x 35,7 x 1,3	- pcs. 2/set

Type UZKS25 - 3 - WK 422 700 02.2017



HOW TO ORDER



NOTES:

The valve should be ordered according to the above coding.

The symbols in bold are the preferred versions available in short delivery time.

Coding example: UZKS 25 - 12/C

Type UZKS25 - 5 - WK 422 700 02.2017

PONAR Wadowice S.A. ul. Wojska Polskiego 29 34-100 Wadowice tel. +48 33 488 21 00 fax.+48 33 488 21 03 www.ponar-wadowice.pl	PONAR® wadowice