

# **TECHNICAL DATA**

Hydraulic fluid	mineral oil	mineral oil							
Required fluid cleanliness class	ISO 4406 class	ISO 4406 class 20/18/15							
Nominal fluid viscosity	37 mm <sup>2</sup> /s at t	37 mm $^{2}$ /s at temperature 55 $^{\circ}$ C							
Viscosity range	2,8 up to 380	2,8 up to 380 mm <sup>2</sup> /s							
Fluid temperature range (in a tank)	recommended	recommended 40°C up to 55°C							
	max	max -20°C up to +70°C							
Ambient temperature range	- 20°C up to +	- 20°C up to +70°C							
	0,03 MPa	0,1 MPa*	0,15 MPa*	0,3 MPa	0,5 MPa				
Cracking pressure Max operating pressure	31,5 MPa	31,5 MPa							
Max flow rate	30 dm <sup>3</sup> /min	30 dm <sup>3</sup> /min							
Weight	0,06 kg								

#### NOTE:

(\*) - option available only for version UZZD4A...

# INSTALLATION AND OPERATION REQUIREMENTS

- Only fully functional and operational valve must be used.
- During the operation one must maintain the recommended fluid viscosity acc. to requirements defined in this Data Sheet - Operation Manual
- In order to ensure failure free and safe operation the following must be systematically 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

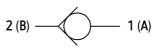
operation or suitable covers shall be applied acc. to European standards PN - EN ISO 13732 - 1 and PN - EN 4413

- 5. In order to provide proper tightness of the valve connection to the hydraulic system, one should keep the dimensions of the sealing rings, the dimensions of cavity, tightening torques values and valve operation parameters, 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 valve type UZZD4...

version UZZD4A...

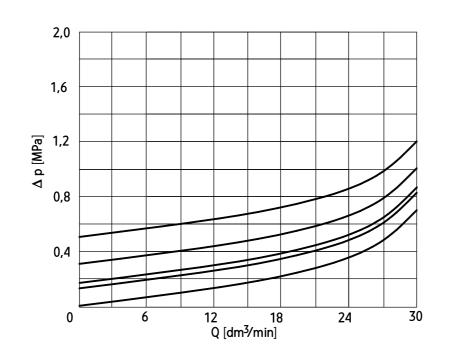


version UZZD4**B**...

## **PERFORMANCE CURVES**

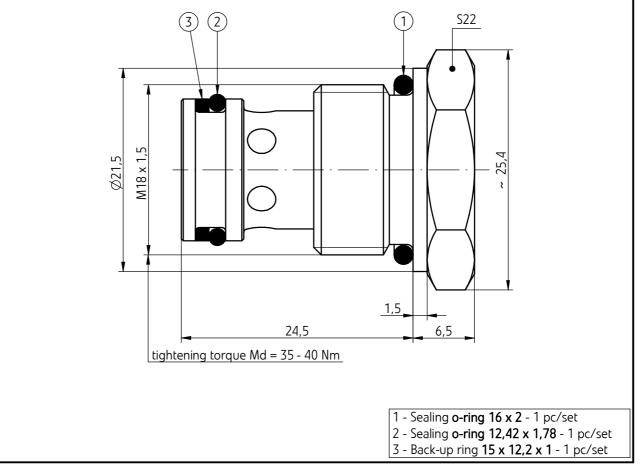
measured at viscosity  $v = 41 \text{ mm}^2/\text{s}$  and temperature  $t = 50^{\circ}\text{C}$ 

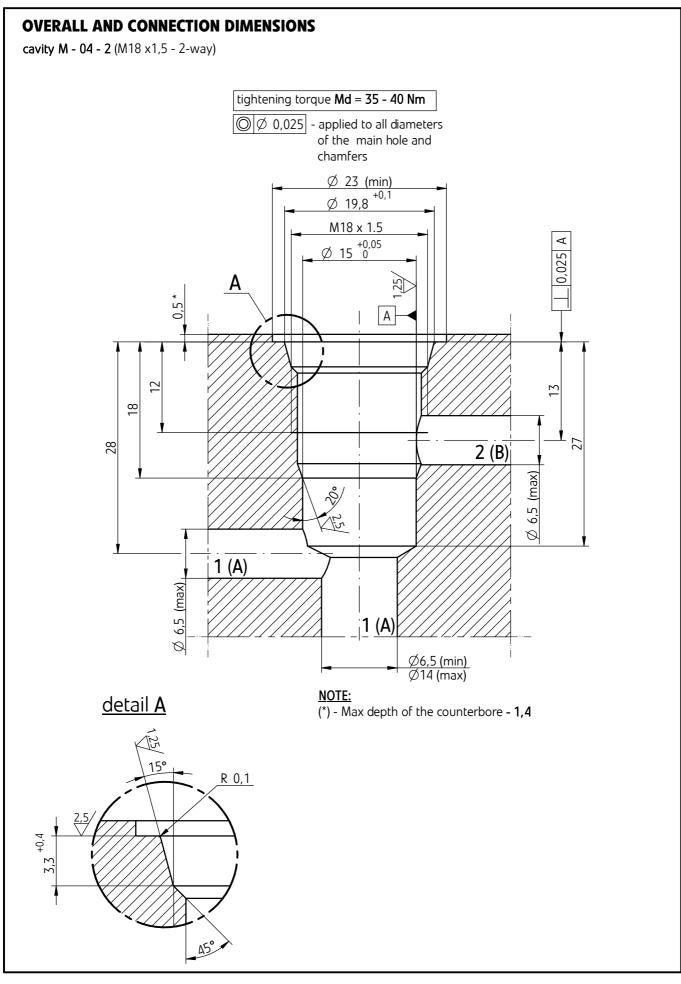
Flow curves



# **OVERALL AND CONNECTION DIMENSIONS**

valve type UZZD4...





## **HOW TO ORDER**

	UZZD	4		/	M1	*
Nominal size (NS) NS4	=	4				
Flow direction from 1 to 2 from 2 to 1	=					
Series number (12 - 19) - connection and installa dimensions unchanged series 12			= 1X = <b>12</b>			
Cracking pressure 0,03 MPa 0,1 MPa* 0,15 MPa* 0,3 MPa 0,5 MPa <u>NOTE</u> : (*) - option available only for vers	ion UZZD4 <b>4</b>		= <b>03</b> = 10 = 15 = 30 = 50			
Type of connection cavity M18 x 1,5			= M1	J		
Sealing NBR (for fluids on mineral oil bas FKM (for fluids on phosphate est	,		= <b>no d</b> = V	esignatio	n	
Further requirements in clear tex (to be agreed with the manufactu						

#### 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: UZZD4 A 12/03 M1

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