

### DATA SHEET - SERVICE MANUAL

## APPLICATION

Pressure sequence valve type **UZK...** is designated for sequence switching of parts of a hydraulic system (connecting circuits when set pressure is reached). Version **UZK...W...** of the valve is mainly used as counterbalance valve. In version **UZK...Y...** is used as sequence valve (line B does not affect the setting). Versions **UZK...Z...** and **UZK...X...** can be supplied with control pressure from other circuit. Because of this these versions can be used for unloading function.

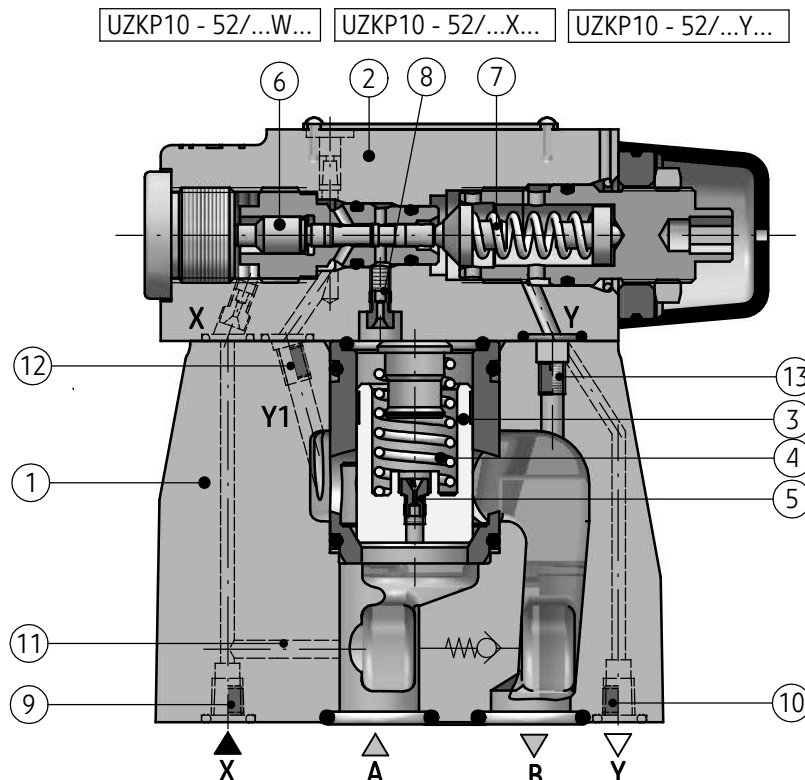
The valve is complied with the regulations of directive 2006/95/WE for the following voltages:

- 50 – 250 V for AC
- 75 – 250 V for DC



## DESCRIPTION OF OPERATION

versions: UZK.../...W...; UZK.../...X...; UZK.../...Y...



Pilot operated pressure sequence valve type **UZK...** comprises of the main valve (1) and the pilot valve (2). Pressure in line **A** acts both sides of the main spool (3) via hole in the main spool (3) and the jet (5). The

spring (4) holds the main spool and closes flow from line **A** to **B**. Simultaneously pressure via line **X** affects the pilot spool (6), the spring (7) tensioned according to pressure setting holds the pilot spool in closed position.

## DESCRIPTION OF OPERATION

versions: UZK.../...W...; UZK.../...X...; UZK.../...Y...

When set pressure is exceeded, the pilot spool (6) moves towards the pressure adjustment. When using the valve as pilot or sequence valve it allows fluid to drain from spring chamber of the main spool (3) via jet and control line (8), line Y1 to line B. Fluid flow via the jet (5) causes pressure difference between the lower and the upper side of the main spool (3). The main spool (3) moves upward. Connection from A to B is open and system pressure remains unchanged. The function of the valve in a system depends on the way of connection of control pressure.

In version UZK.../...W... with internal pilot supply and internal pilot drain lines (11), (12), (13) are open;

lines (9), (10) are plugged – the valve has function of counterbalance valve in a system because pressure in line B affects the adjustment and the other side of pilot spool.

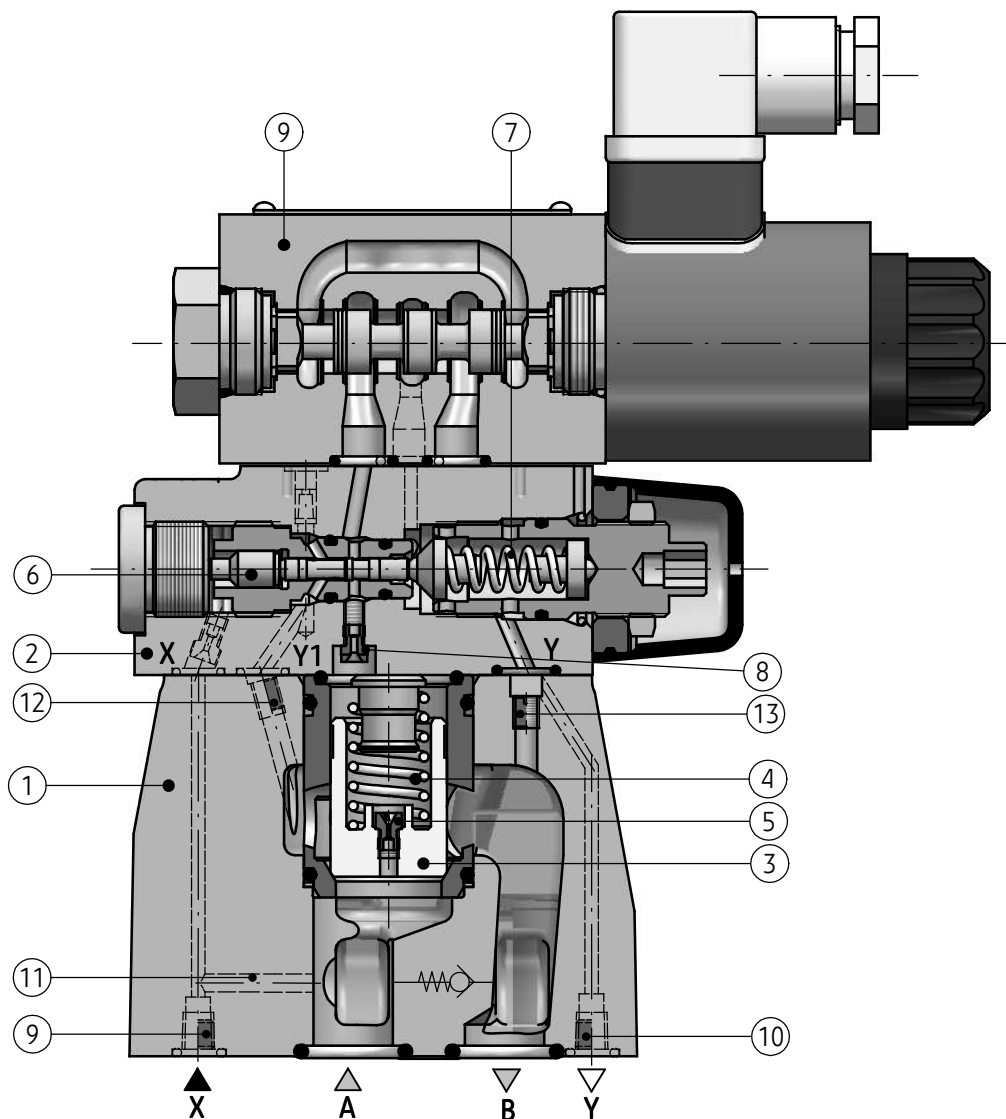
In version UZK.../...X... with external pilot supply and internal pilot drain to line B lines (9), (11), (12), (13) are open; line (10) is plugged.

In version UZK.../...Y... pilot valve is supplied internally, leakage is drained without pressure via separated line Y, supply oil is drained via line (12) to line B. Lines (10), (11), (12), (13) are open; line (9) is plugged – valve has function of sequence valve in a system.

## DESCRIPTION OF OPERATION

versions: UZK.../...W...E... UZK.../...X...E... UZK.../...Y...E...

UZKP10 - 52/...W...E... UZKP10 - 52/...X...E... UZKP10 - 52/...Y...E...

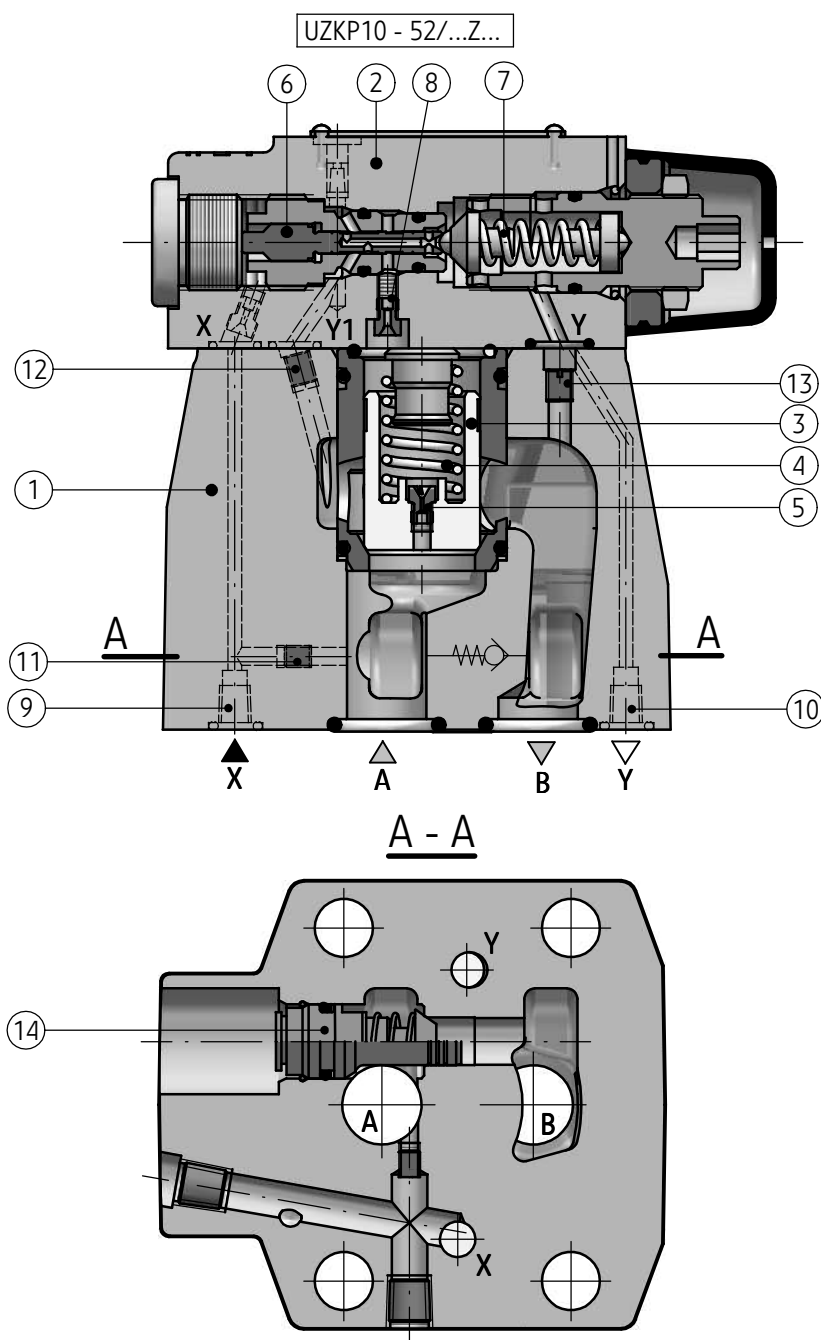


The pressure sequence valve type UZK... is also available in version with electrical pressure unloading. Directional valve (9) in neutral position shuts off the drain line before the pilot spool. The valve functions as described before. After switching directional valve (9) the chamber of the

spring of the main spool (3) is connected with a tank. The main spool (3) unloaded from the top side moves opening connection from line A to B. The valve is available in two versions: opened and closed in de-energized position.

## DESCRIPTION OF OPERATION

version UZK.../...Z...



In version UZK.../...Z... the pilot valve is supplied via separated line **X**, leakage is drained without pressure via separated line **Y** - lines (9), (10) are open; lines (11), (12), (13) are plugged. Control pressure is supplied to chamber of the pilot spool (6) via separated line **X** (9). Simultaneously pressure in line **A** acts via the jet (5) on the side of the main spool (3) loaded by spring (4). When pressure set by adjustment of the pilot valve (2) is exceeded in line **X** (9), the pilot spool (6) moves rightward against the spring (7). As a result of this oil flows from the side of the main spool (3) loaded by

spring (4), via the jet (8) and a hole in the pilot spool (6) to the chamber of the spring (7) in the pilot valve (2). Fluid flow via the jet (5) causes pressure difference between the lower and the upper side of the main spool (3). The main spool (3) moves upward. Connection from **A** to **B** is open. This allows flow of the main stream from line **A** to **B** with minimum pressure difference. Control pressure is drained without pressure to the tank via separated line **Y** (10). The valve has function of unloading valve in a system. To allow free flow from line **B** to **A** the check valve (14) can be installed optionally.

## TECHNICAL DATA

|                                                           |                                            |                    |                           |                                       |          |             |          |
|-----------------------------------------------------------|--------------------------------------------|--------------------|---------------------------|---------------------------------------|----------|-------------|----------|
| Hydraulic fluid                                           | mineral oil                                |                    |                           |                                       |          |             |          |
| Required filtration                                       | up to 16 µm                                |                    |                           |                                       |          |             |          |
| Recommended filtration                                    | up to 10 µm                                |                    |                           |                                       |          |             |          |
| Nominal fluid viscosity                                   | 37 mm <sup>2</sup> /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                                 | version UZK...                             | -20°C up to +70°C  |                           |                                       |          |             |          |
|                                                           | version UZK...E...                         | -20 °C up to +50°C |                           |                                       |          |             |          |
| Maximum operating pressure                                | 31,5 MPa                                   |                    |                           |                                       |          |             |          |
| Maximum inlet pressure (lines: A, X)                      | 31,5 MPa                                   |                    |                           |                                       |          |             |          |
| Maximum outlet pressure (line B)                          | version UZK...                             | 31,5 MPa           |                           |                                       |          |             |          |
|                                                           | version UZK...E...                         | 21,5 MPa           |                           |                                       |          |             |          |
| Maximum backpressure (line Y)                             | version UZK...                             | 31,5 MPa           |                           |                                       |          |             |          |
|                                                           | version UZK...E...                         | 21,5 MPa           |                           |                                       |          |             |          |
| Maximum flow rate                                         | nominal size                               | NS10               | 150 dm <sup>3</sup> / min |                                       |          |             |          |
|                                                           |                                            | NS20               | 300 dm <sup>3</sup> / min |                                       |          |             |          |
|                                                           |                                            | NS30               | 450 dm <sup>3</sup> / min |                                       |          |             |          |
| Weight                                                    | nominal size                               | version            |                           |                                       |          |             |          |
|                                                           |                                            | UZKP...            | UZKP...E                  | UZKS...                               | UZKS...E | UZKB...     | UZKB...E |
|                                                           | WN10                                       | 3,8 kg             | 5,3 kg                    |                                       |          | 1,6 kg      | 3,1 kg   |
|                                                           | WN20                                       | 5,7 kg             | 7,2 kg                    |                                       |          |             |          |
|                                                           | WN30                                       | 8,4 kg             | 9,9 kg                    | 1,6 kg                                | 3,1 kg   |             |          |
| Type of a directional valve (only for version UZK...E...) | WE6... according to data sheet WK 499 502  |                    |                           |                                       |          |             |          |
| Nominal supply voltage for solenoid                       | DC                                         |                    |                           | AC (plug-in connector with rectifier) |          |             |          |
|                                                           | 12V                                        | 24V                | 110V                      | 230V - 50Hz                           |          | 110V - 50Hz |          |
| Supply voltage tolerance                                  | ±10%                                       |                    |                           |                                       |          |             |          |
| Power requirement (DC)                                    | 30 W                                       |                    |                           |                                       |          |             |          |
| Insulation                                                | IP 65                                      |                    |                           |                                       |          |             |          |
| Temperature of solenoid coil                              | max 150 °C                                 |                    |                           |                                       |          |             |          |

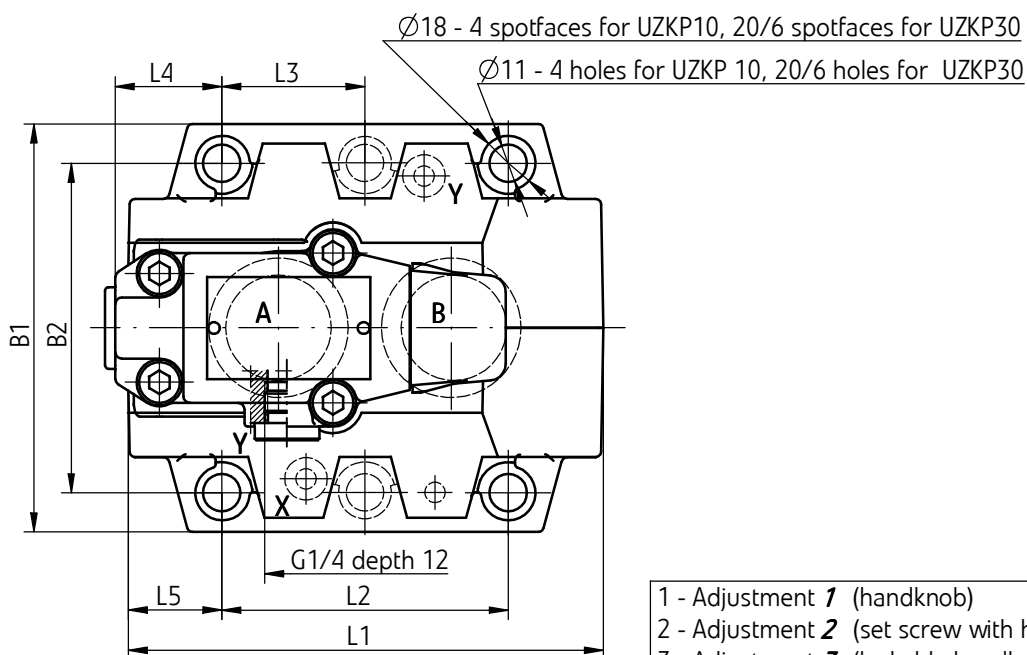
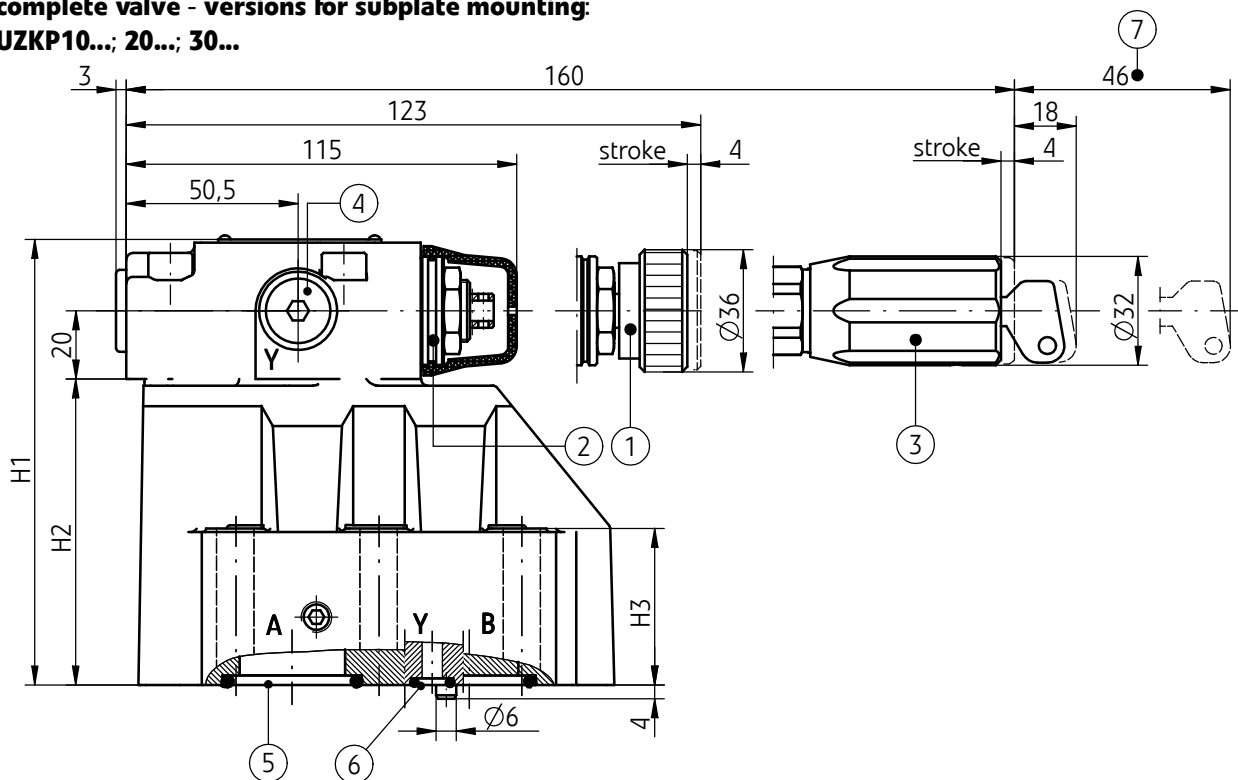
## ASSEMBLY AND APPLICATION REQUIREMENTS

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Only valve working properly and suitably installed may be connected to an electric system. Only skilled workers are allowed to connect and disconnect electric system.</p> <p>2. Ground connection (⏏) must be connected with protective earth wire (⏏ PE) in supply system according to appropriate instructions.</p> <p>3. It is forbidden to apply the valve if the supply cable in the gland of plug-in connector is not properly tightened.</p> | <p>4. It is forbidden to apply the valve if the plug-in connector is not properly tightened to the solenoid socket and is not secured by screwing bolt tightly.</p> <p>5. Due to heating solenoid coil, the valves should be placed in order to eliminate the possibility of incidental touch while using, or, they should be equipped with the coil covers (in accordance with the European standards PN - EN ISO 13732-1 and PN - EN 982).</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# OVERALL AND CONNECTION DIMENSIONS

complete valve - versions for subplate mounting:

UZKP10...; 20...; 30...



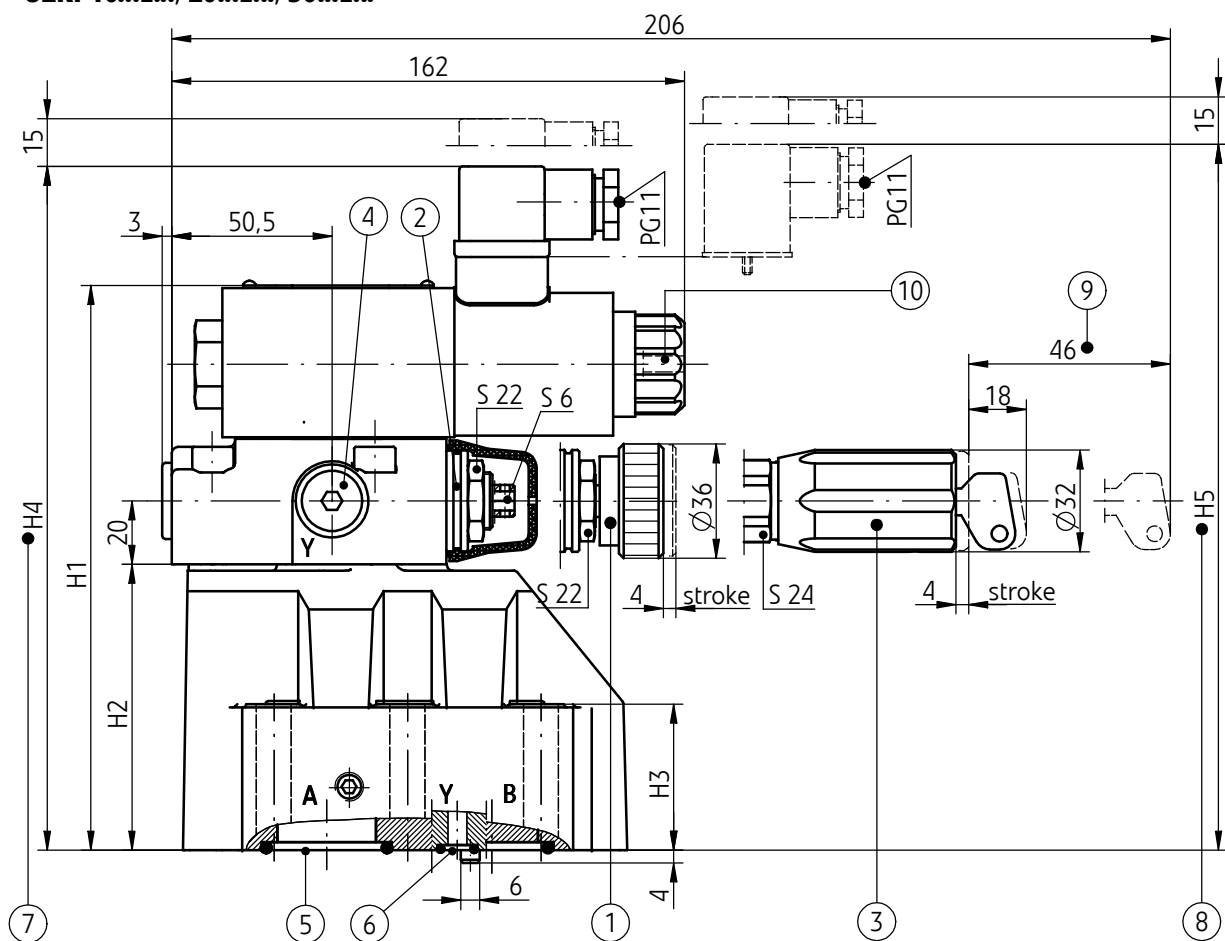
- 1 - Adjustment **1** (handknob)
- 2 - Adjustment **2** (set screw with hexagon socket)
- 3 - Adjustment **3** (lockable handknob)
- 4 - Additional external port **Y** (G1/4 plug)
- 5 - Sealing ring **o-ring** -2 pcs/kit (**A**, **B**) - according to table
- 6 - Sealing ring **o-ring** -2 pcs/kit (**X**, **Y**) - according to table
- 7 - Space required to remove the key from the lock of the adjustment item 3

| version   | o-ring item 5 | o-ring item 6 | B1  | B2   | H1  | H2 | H3 | L1  | L2   | L3   | L4   | L5   |
|-----------|---------------|---------------|-----|------|-----|----|----|-----|------|------|------|------|
| UZKP10... | 17,1 x 2,6    | 9,2 x 1,8     | 85  | 66,7 | 113 | 72 | 28 | 96  | 42,9 | -    | 34,6 | 35,6 |
| UZKP20... | 28,2 x 3,5    |               | 102 | 79,4 | 123 | 82 | 38 | 112 | 60,3 | -    | 36,9 | 33,5 |
| UZKP30... | 34,5 x 3,5    |               | 120 | 96,8 | 131 | 90 | 46 | 140 | 84,2 | 42,1 | 31,3 | 28   |

## OVERALL AND CONNECTION DIMENSIONS

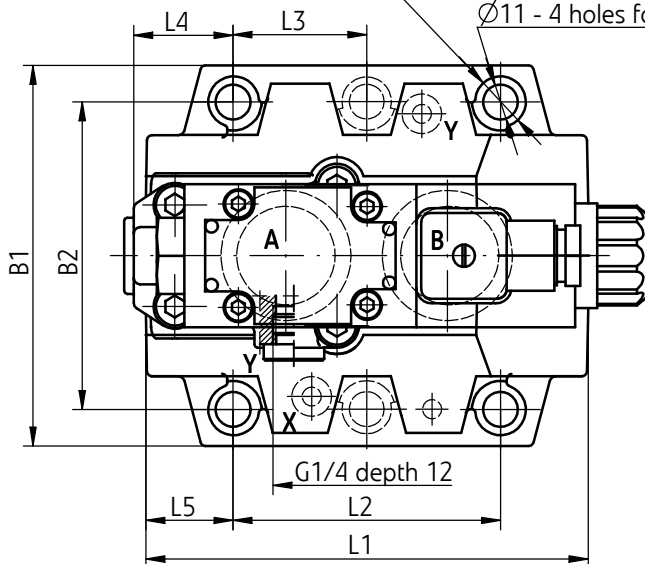
complete valve - versions for subplate mounting:

UZKP10...E...; 20...E...; 30...E...



Ø18 - 4 spotfaces for UZKP10...E, 20...E/6 spotfaces for UZKP30...E

Ø11 - 4 holes for UZKP10...E, 20...E/6 holes for UZKP30...E



- 1 - Adjustment **1** (handknob)
- 2 - Adjustment **2** (set screw with hexagon socket)
- 3 - Adjustment **3** (lockable handknob)
- 4 - Additional external port **Y** (G1/4 plug)
- 5 - Sealing ring **o-ring** - 2 pcs/kit (**A, B**) - according to table
- 6 - Sealing ring **o-ring** - 2 pcs/kit (**X, Y**) - according to table
- 7 - Dimension for the valve with electrical connection of a directional valve **12V, 24V, 110V DC** (plug-in connector type **DIN 43650/ISO 4400**)
- 8 - Dimension for the valve with electrical connection of a directional valve **110V, 230V AC** (plug-in connector type **DIN 43650/ISO 4400** with rectifier)
- 9 - Space required to remove the key from the lock of the adjustment item 3
- 10 - Manual override

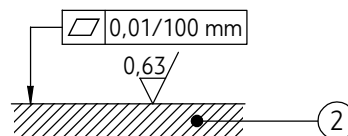
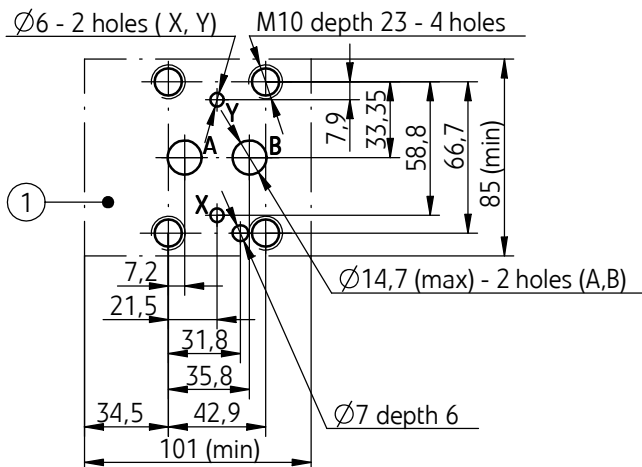
| version       | o-ring item 5 | o-ring item 6 | B1  | B2   | H1  | H2 | H3 | H4  | H5  | L1  | L2   | L3   | L4   | L5   |
|---------------|---------------|---------------|-----|------|-----|----|----|-----|-----|-----|------|------|------|------|
| UZKP10...E... | 17,1 x 2,6    | 9,2 x 1,8     | 85  | 66,7 | 160 | 72 | 28 | 198 | 205 | 96  | 42,9 | -    | 34,6 | 35,6 |
| UZKP20...E... | 28,2 x 3,5    |               | 102 | 79,4 | 170 | 82 | 38 | 208 | 215 | 112 | 60,3 | -    | 36,9 | 33,5 |
| UZKP30...E... | 34,5 x 3,5    |               | 120 | 96,8 | 178 | 90 | 46 | 216 | 223 | 140 | 84,2 | 42,1 | 31,3 | 28   |

## OVERALL AND CONNECTION DIMENSIONS

versions for subplate mounting: UZKP10...; 20...; 30...

porting pattern on subplate

### version UZKP10...

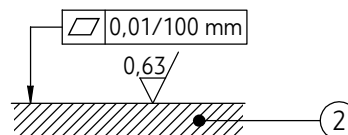
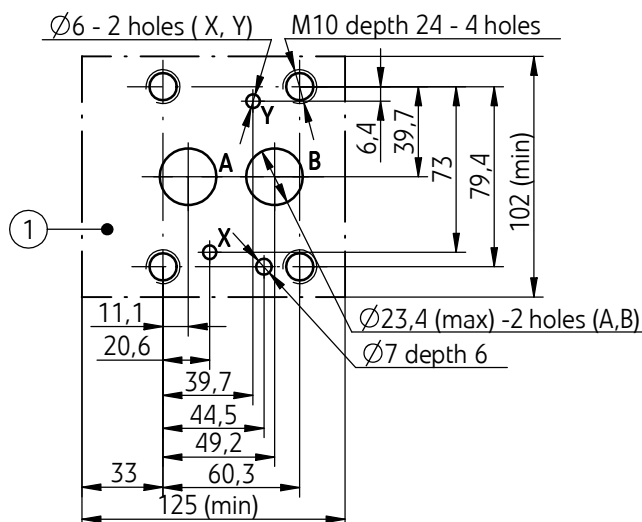


1 -Porting pattern on subplate according to:

- CETOP- RP 121H  
identified by CETOP - 4.4.5-2-06  
nominal size CETOP 06
- PN - ISO 5781  
mounting bolts M10 x 50 - 10.9 - 4 pcs/kit  
in accordance with PN - EN ISO 4762  
tightening torque Md = 73 Nm

2 - Subplate surface required

### version UZKP20...

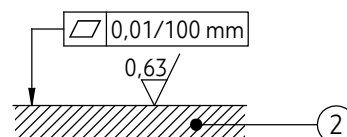
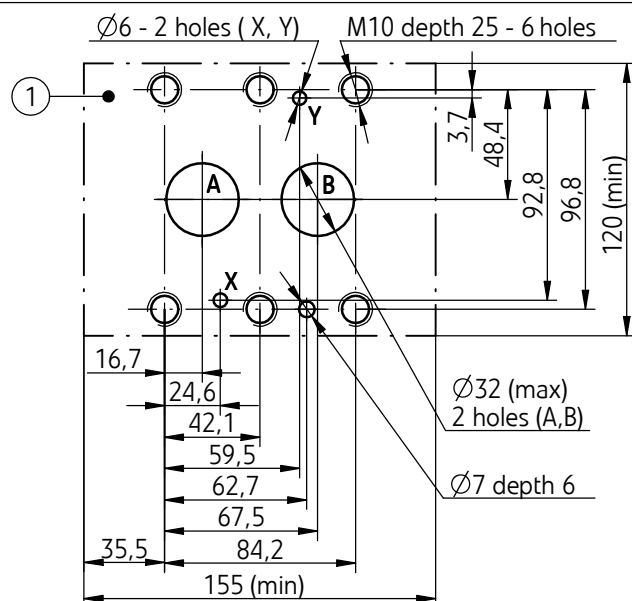


1 -Porting pattern on subplate according to:

- CETOP- RP 121H  
identified by CETOP - 4.4.5-2-08  
nominal size CETOP 08
- PN - ISO 5781  
mounting bolts M10 x 60 - 10.9 - 4 pcs/kit  
in accordance with PN - EN ISO 4762  
tightening torque Md = 73 Nm

2 - Subplate surface required

### version UZKP30...



1 -Porting pattern on subplate according to:

- CETOP- RP 121H
- PN - ISO 5781  
mounting bolts M10 x 70 - 10.9 -6 pcs/kit  
in accordance with PN - EN ISO 4762  
tightening torque Md = 73 Nm

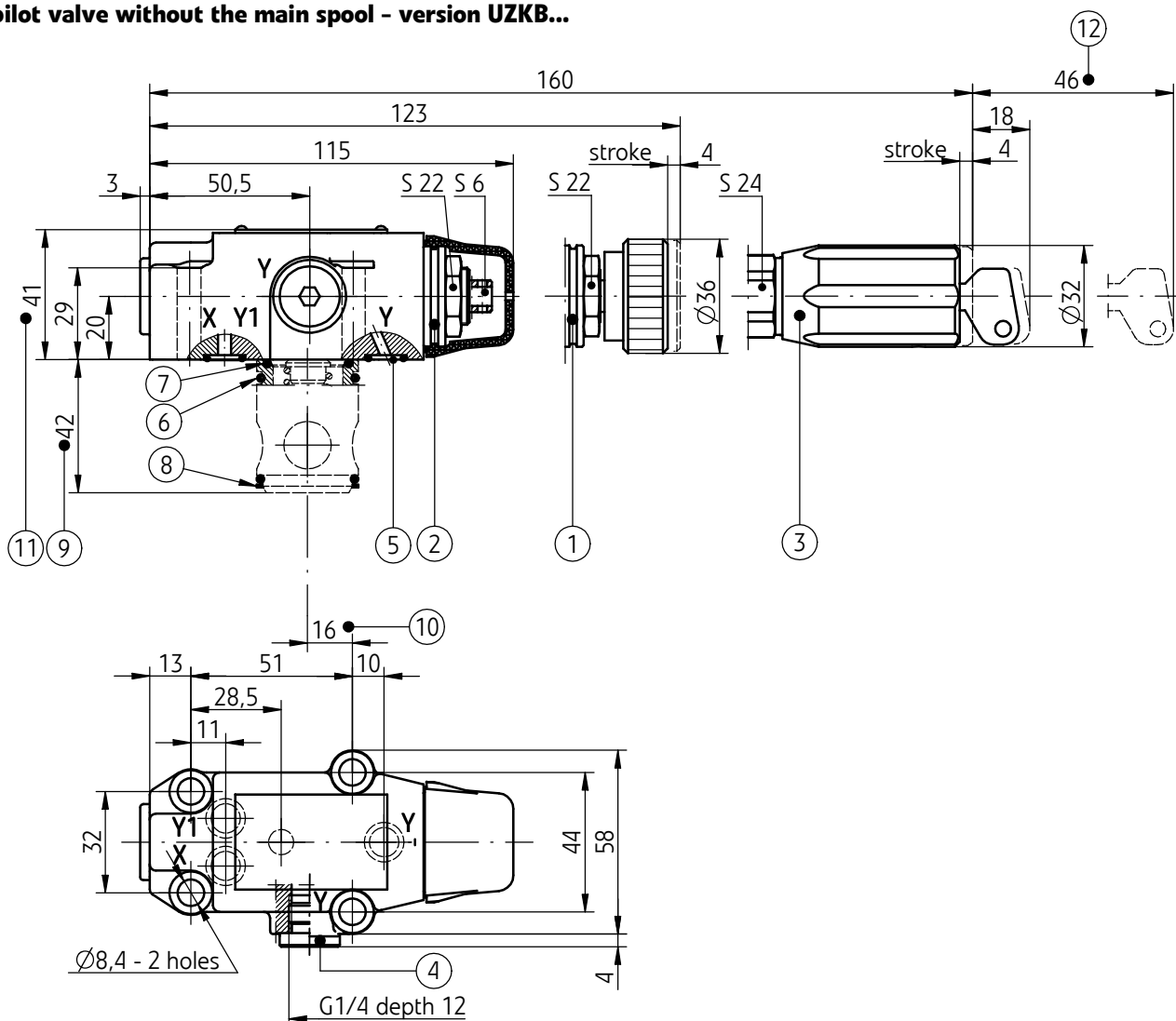
2 - Subplate surface required

## OVERALL AND CONNECTION DIMENSIONS

pilot valve with the main spool - version **UZKS30...**

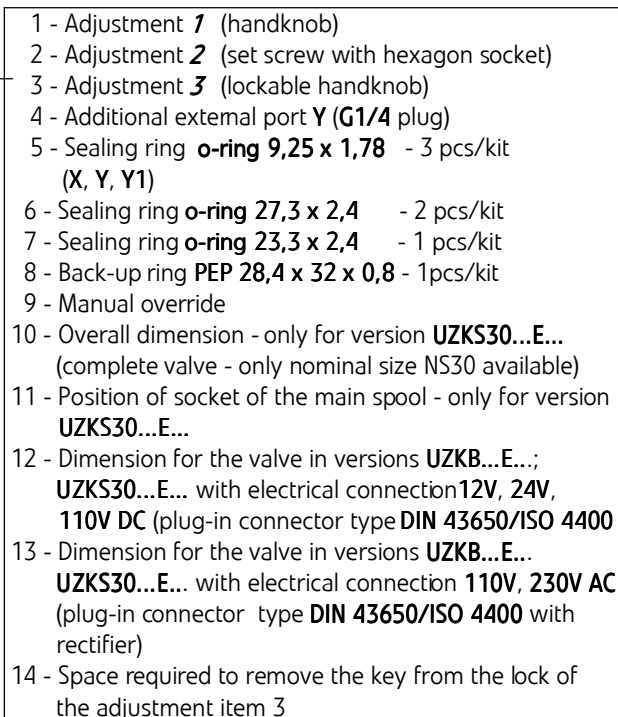
for manifold block mounting

pilot valve without the main spool - version **UZKB...**



- 1 - Adjustment **1** (handknob)
- 2 - Adjustment **2** (set screw with hexagon socket)
- 3 - Adjustment **3** (lockable handknob)
- 4 - Additional external port **Y** (G1/4 plug)
- 5 - Sealing ring **o-ring 9,25 x 1,78** - 3 pcs/kit  
(X, Y, Y1)
- 6 - Sealing ring **o-ring 27,3 x 2,4** - 2 pcs/kit
- 7 - Sealing ring **o-ring 23,3 x 2,4** - 1 pcs/kit
- 8 - Back-up ring **PEP 28,4 x 32 x 0,8** - 1pcs/kit
- 9 - Overall dimension - only for version **UZKS30...**  
(complete valve - only nominal size NS30 available)
- 10 - Position of socket of the main spool - only for version **UZKS30...**
- 11 - Overall dimension for version **UZKB...**  
(pilot valve without the main spool - do not state nominal size)
- 12 - Space required to remove the key from the lock of the adjustment item 3

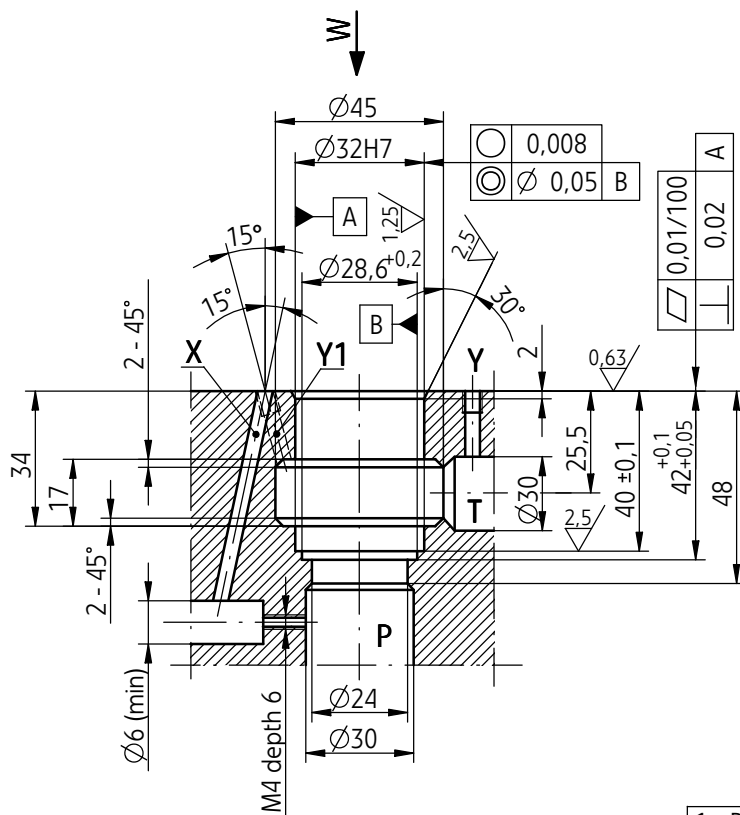
**pilot valve without the main spool - version UZKB...E...**



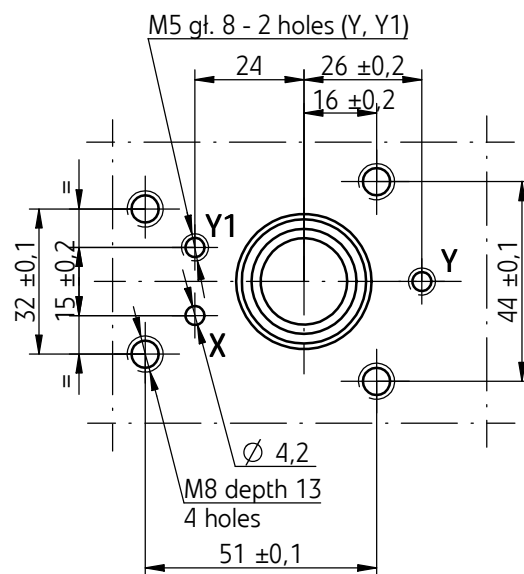
## OVERALL AND CONNECTION DIMENSIONS

pilot valve with the main spool - versions for manifold  
block mounting: UZKS30... ; UZKS30...E...

valve cavity - nominal size NS30



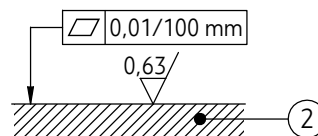
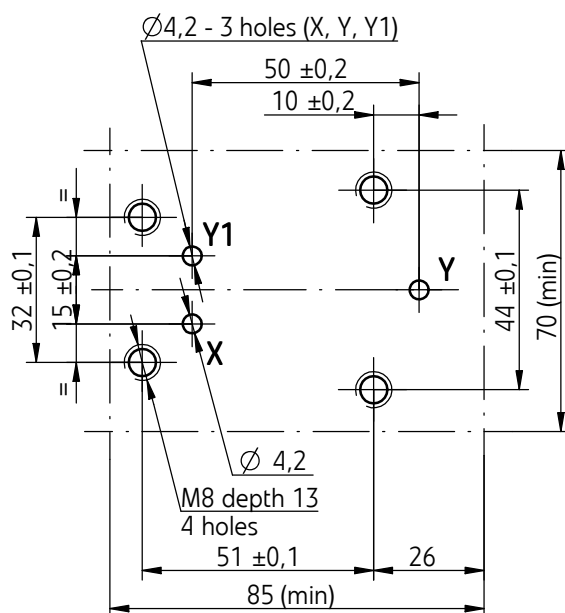
view W



- 1 - Porting pattern on subplate  
mounting bolts **M8 x 40 - 10.9** - 4 pcs/kit  
in accordance with PN - EN ISO 4762 - must be ordered  
separately; tightening torque **Md = 37 Nm**

pilot valve without the main spool  
versions: UZKB....; UZKB...E...

porting pattern on subplate



- 1 - Porting pattern on subplate  
mounting bolts **M8 x 40 - 10.9** - 4 pcs/kit  
in accordance with PN - EN ISO 4762 - must be ordered  
separately; tightening torque **Md = 37 Nm**  
2 - Subplate surface required

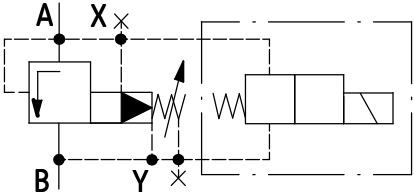
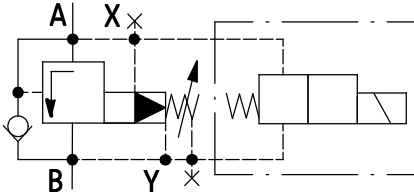
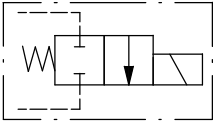
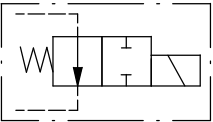
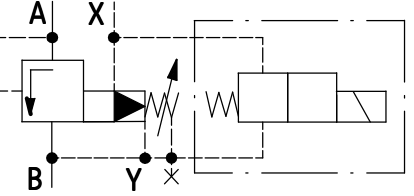
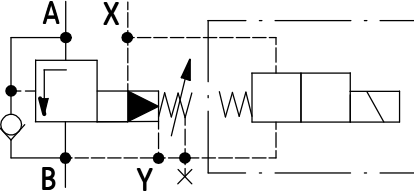
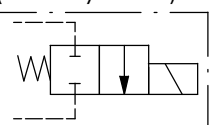
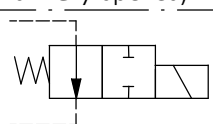
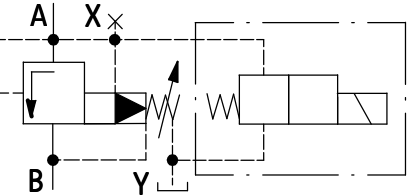
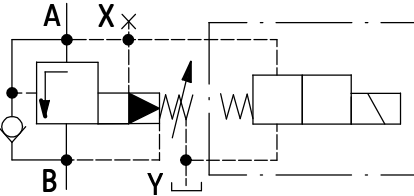
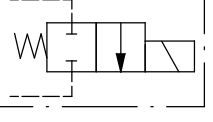
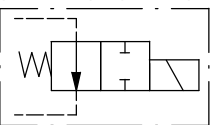
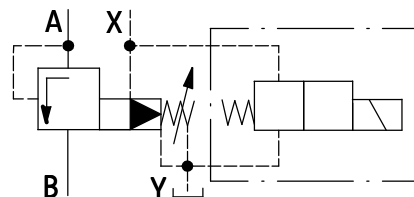
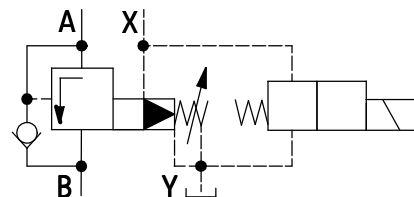
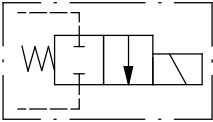
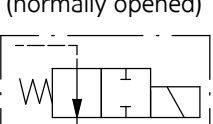
## SCHEMES

Graphic symbols of valves - versions UZK...

| version UZK...W... |                | version UZK...X... |                |
|--------------------|----------------|--------------------|----------------|
| UZK...W...         | UZK...W...Z... | UZK...X...         | UZK...X...Z... |
|                    |                |                    |                |
| version UZK...Y... |                | version UZK...Z... |                |
| UZK...Y...         | UZK...Y...Z... | UZK...Z...         | UZK...Z...Z... |
|                    |                |                    |                |

## SCHEMES

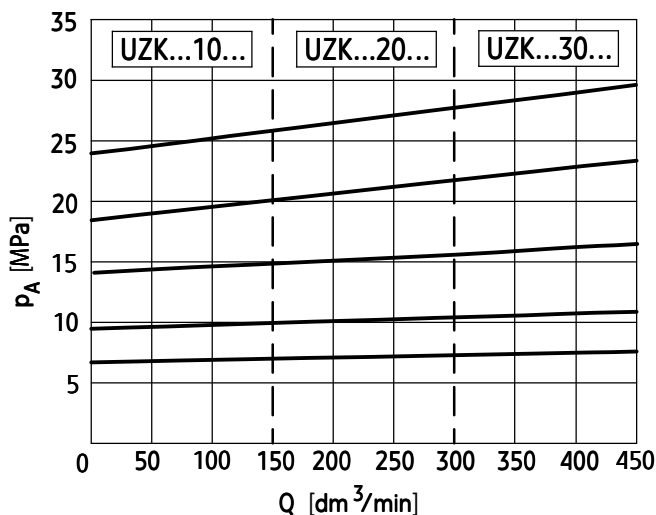
Graphic symbols of valves - versions **UZK...E...**

| version UZK...W...E...                                                              |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| UZK...W...E...                                                                      | UZK...W...Z...E...                                                                   | UZK...W...AE...<br>(normally closed)                                                  |
|    |    |    |
|                                                                                     |                                                                                      | UZK...W...BE...<br>(normally opened)                                                  |
|                                                                                     |                                                                                      |    |
| version UZK...X...E...                                                              |                                                                                      |                                                                                       |
| UZK...X...E...                                                                      | UZK...X...Z...E...                                                                   | UZK...X...AE...<br>(normally closed)                                                  |
|   |   |    |
|                                                                                     |                                                                                      | UZK...X...BE...<br>(normally opened)                                                  |
|                                                                                     |                                                                                      |   |
| version UZK...Y...E...                                                              |                                                                                      |                                                                                       |
| UZK...Y...E...                                                                      | UZK...Y...Z...E...                                                                   | UZK...Y...AE...<br>(normally closed)                                                  |
|  |  |  |
|                                                                                     |                                                                                      | UZK...Y...BE...<br>(normally opened)                                                  |
|                                                                                     |                                                                                      |  |
| version UZK...Z...E...                                                              |                                                                                      |                                                                                       |
| UZK...Z...E...                                                                      | UZK...Z...Z...E...                                                                   | UZK...Z...AE...<br>(normally closed)                                                  |
|  |  |  |
|                                                                                     |                                                                                      | UZK...Z...BE...<br>(normally opened)                                                  |
|                                                                                     |                                                                                      |  |

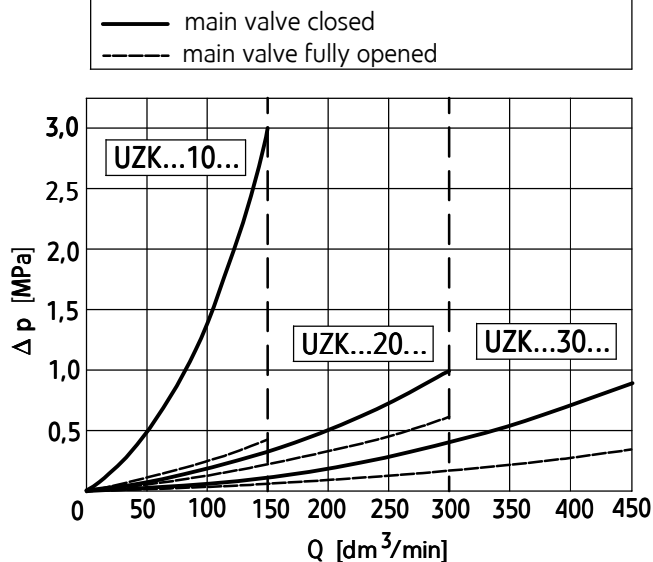
## PERFORMANCE CURVES

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

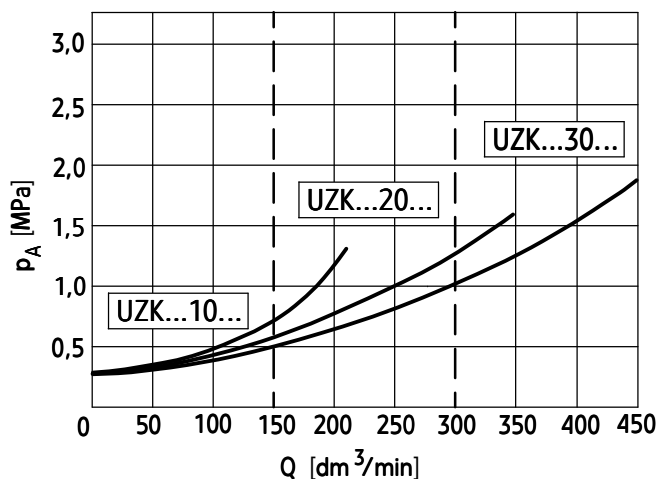
Inlet pressure  $p_A$  in relation to the flow  $Q$   
flow direction  $A \rightarrow B$



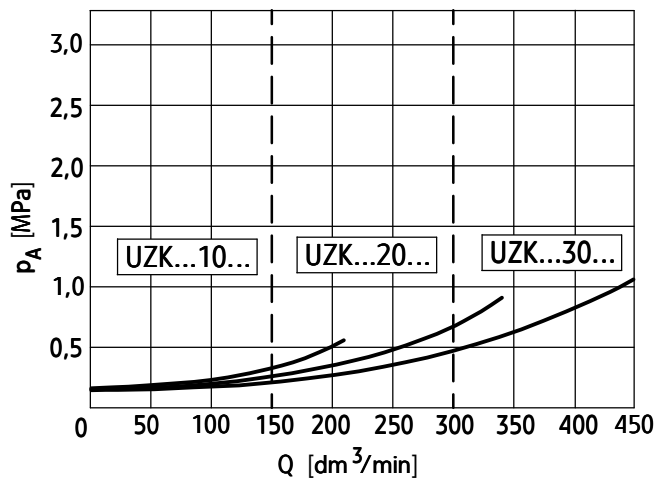
Pressure resistance  $\Delta p(Q)$  across the check valve  
flow direction  $B \rightarrow A$



Minimum settable pressure  $p_A$  in relation to the  
flow  $Q$  for versions: UZK...W...; UZK...X...; UZK...Y...  
flow direction  $A \rightarrow B$ , outlet pressure  $p_B = 0$



Minimum settable pressure  $p_A$  in relation to the  
flow  $Q$  for versions: UZK...Z...  
flow direction  $A \rightarrow B$ , outlet pressure  $p_B = 0$



## HOW TO ORDER

|     |  |   |   |  |  |  |
|-----|--|---|---|--|--|--|
| UZK |  | + | / |  |  |  |
|-----|--|---|---|--|--|--|

### Design version

**complete valve** = **P**

**pilot valve with the main spool** = **S**  
state nominal size NS30

**pilot valve without the main spool** = **B**  
do not state nominal size in the next step

### Nominal size (NS)

**NS10** = **10**

**NS20** = **20**

**NS30** = **30**

### Series number

(50-59) - connection and installation dimensions unchanged = 5X

**series 52** = **52**

### Settable pressure range

**up to 10 MPa** = **100**

**up to 20 MPa** = **200**

**up to 31,5 MPa** = **315**

### Pilot oil supply and pilot oil drain

pilot oil supply from line A ;pilot oil and leakage drained together to line B = **W**

pilot oil supply from separatedline X; pilot oil and leakage drained together to line B = **X**

pilot oil supply from line A; pilot oil and leakage drained to line B,  
leakage drained to separated lineY = **Y**

pilot oil supply from separated lineX pilot oil and leakage drained together to line Y = **Z**

### Type of adjustment element

handknob = **1**

**set screw with hexagon socket** = **2**

lockable handknob = **3**

### Check valve

**without check valve** = **no designation**

with check valve = **Z**

## HOW TO ORDER

|                                                                                                                                                                                                                                                                      |  |  |  |  |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|---|
|                                                                                                                                                                                                                                                                      |  |  |  |  | ★ |
| Further requirements in clear text<br>(to be agreed with the manufacturer)                                                                                                                                                                                           |  |  |  |  |   |
| <b>Sealing</b><br><b>NBR</b> (for fluids on mineral oil base) = <b>no designation</b><br>FKM (for fluids on phosphate ester base) = V                                                                                                                                |  |  |  |  |   |
| <b>Electrical connection</b> (only for version UZK...E...)<br><b>Plug-in connector DIN 43650-A/ISO4400 without LED</b> = <b>Z4</b><br>Plug-in connector DIN 43650-A/ISO4400 with LED = Z4L                                                                           |  |  |  |  |   |
| <b>Manual override for solenoid</b> (only for version UZK...E...)<br>solenoid without manual override = no designation<br><b>solenoid with manual override</b> = <b>N</b>                                                                                            |  |  |  |  |   |
| <b>Supply voltage for solenoid</b> (only for version UZK...E...)<br>12V DC = G12<br><b>24V DC</b> = <b>G24</b><br>110V DC = G110<br>110V AC 50Hz (plug-in connector with rectifier) = W110R<br><b>230V AC 50Hz</b> (plug-in connector with rectifier) = <b>W230R</b> |  |  |  |  |   |
| <b>Unloading method</b><br><b>directional valve in de-energized position closed</b> = <b>AE</b><br><b>directional valve in de-energized position open</b> = <b>BE</b>                                                                                                |  |  |  |  |   |

### NOTES:

The valve should be ordered according to the above coding.

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

Coding example: UZKP10 – 52/200 W 2

## SUBPLATES AND MOUNTING BOLTS

Subplates for valve version for subplate mounting **UZKP...** should be ordered according to subplate type, taking into account the size of thread connections given in the table below.

Subplates and mounting bolts must be ordered separately.

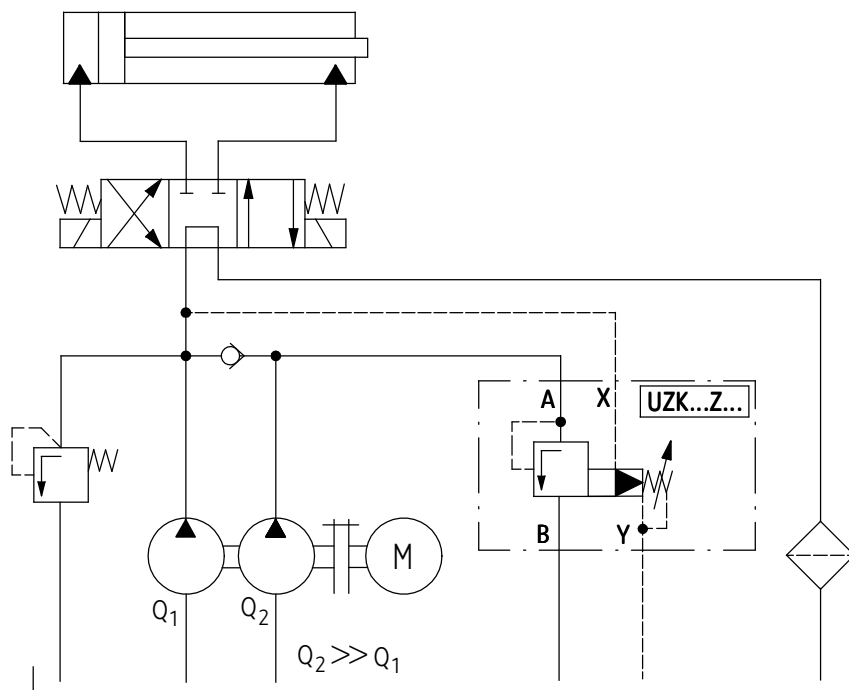
### NOTE:

**Subplate symbols in bold are preferred versions in short delivery time.**

| Valve type | Subplate type  | Thread connections of the subplate           | Mounting bolts                                                                                                     |
|------------|----------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| UZKP10...  | G460/01        | A, B - G 3/8<br>X, Y - G 1/4                 | <b>M10 x 50 - 10.9</b> - 4 pcs/kit<br>in accordance with PN - EN ISO 4762<br>tightening torque <b>Md = 73 Nm</b> . |
|            | <b>G461/01</b> | A, B - <b>G 1/2</b><br>X, Y - <b>G 1/4</b>   |                                                                                                                    |
| UZKP20..   | G412/01        | A, B - G 3/4<br>X, Y - G 1/4                 | <b>M10 x 60 - 10.9</b> - 4 pcs/kit<br>in accordance with PN - EN ISO 4762<br>tightening torque <b>Md = 73 Nm</b> . |
|            | <b>G413/01</b> | A, B - <b>G 1</b><br>X, Y - <b>G 1/4</b>     |                                                                                                                    |
| UZKP30...  | G414/01        | A, B - G 1 1/4<br>X, Y - G 1/4               | <b>M10 x 70 - 10.9</b> - 6 pcs/kit<br>in accordance with PN - EN ISO 4762<br>tightening torque <b>Md = 73 Nm</b> . |
|            | <b>G415/01</b> | A, B - <b>G 1 1/2</b><br>X, Y - <b>G 1/4</b> |                                                                                                                    |

## EXAMPLE OF APPLICATION IN HYDRAULIC SYSTEM

Example of application of the valve in version UZK...Z... for unloading of two-stage pump



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