

Directional spool valve electrically operated 6UREE10 type with a cross-over relief valve

NS 10 | p_{max} 35 MPa | Q_{max} 85 dm³/min | WK 421 980



DATA SHEET – OPERATION MANUAL

APPLICATION

Directional spool valves electrically operated **6UREE10** type are designed to change the direction of fluid flow in a system, they are mainly used for supply switching and control between independent parts of a hydraulic system.

The cross-over relief (shock) valves are intended for limiting maximal pressure at two connections. It also provides a protection against a sudden pressure increase.

Directional valves electrically operated **6UREE10** type are adapted for threaded mounting in any position in a hydraulic system.

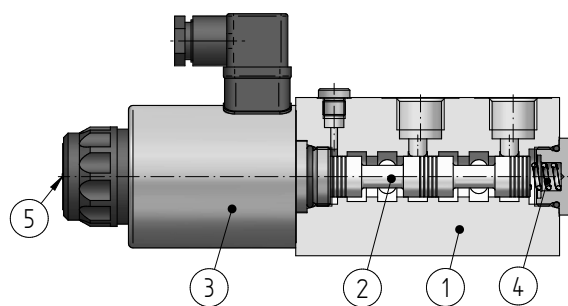
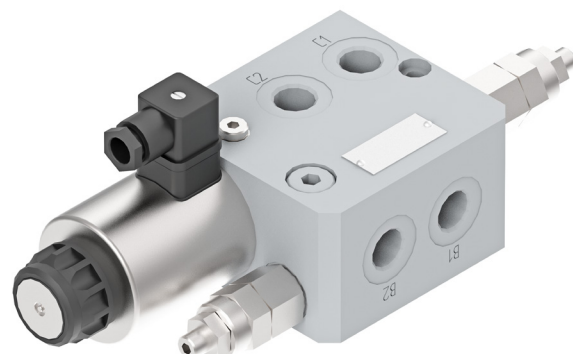
The product is compliant with the regulations of directive 2014/35/UE.

DESCRIPTION OF OPERATION

Main elements of directional spool valve **6UREE10** type are housing **1**, spool **2**, solenoid **3**, centering spring **4** and a manual override switch **5**.

The spool **2** shifts into one of end positions by direct means of the solenoid **3**. The return to the neutral position is forced by the centering spring **4**.

In case of emergency the spool can be shifted manually by the use of the override **5**.

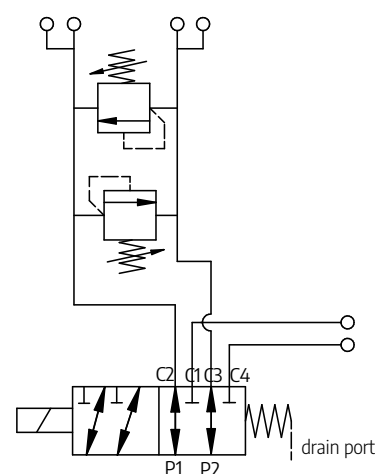


TECHNICAL PARAMETERS

hydraulic fluid	mineral oil
required fluid cleanliness class	ISO 4406 class 20/18/15
nominal fluid viscosity	37 mm ² /s at temperature 55°C
viscosity range	2,8 ÷ 380 mm ² /s
ambient temperature range	-30 ÷ 50°C
max operating pressure	21 MPa without a drain port 35 MPa with a drain port
switching frequency	switching on: up to 60 ms switching off: up to 40 ms
max. switching frequency	15000 on/h
weight	max 7 kg
nominal supply voltage for solenoids	DC 12V or DC 24V
supply voltage tolerance	±10%
insulation class	IP 65
power requirement (direct current)	45 W
solenoid coil temperature	max 150°C

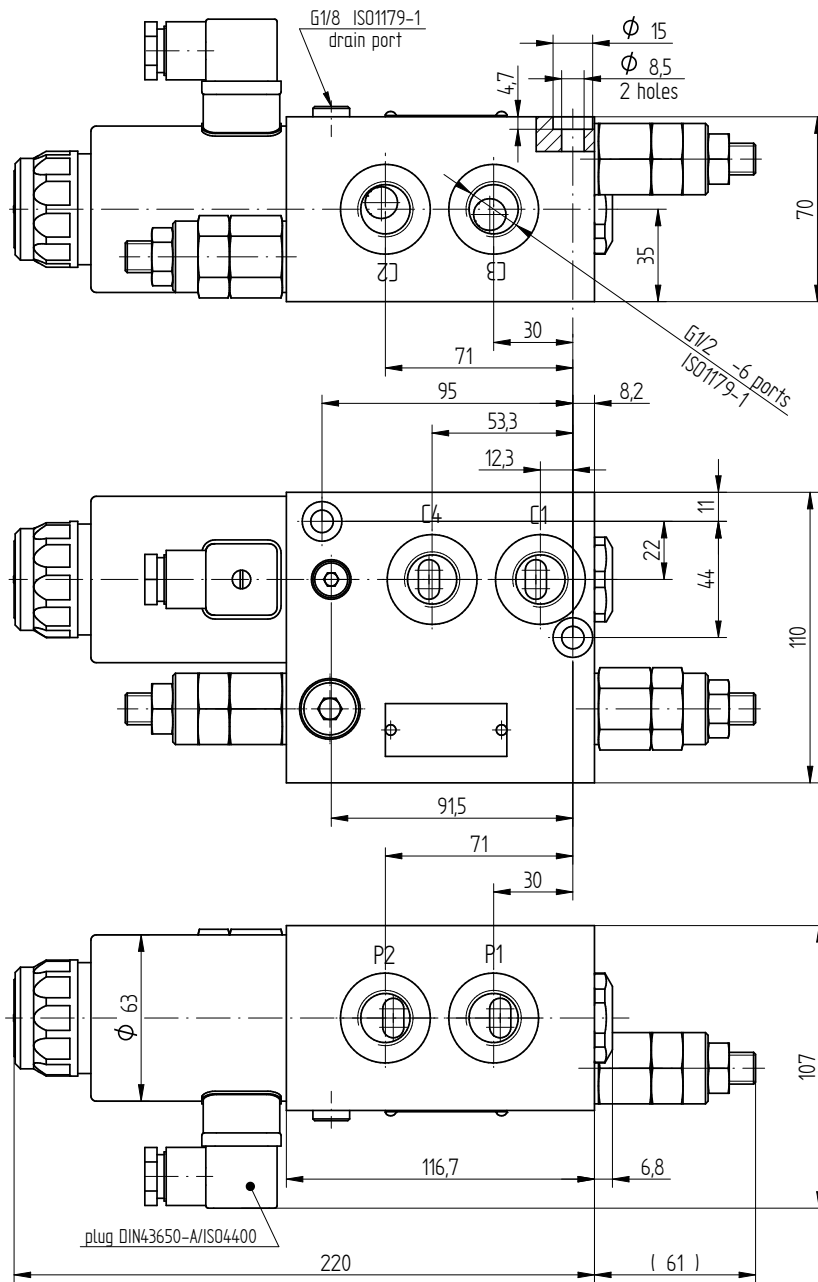
assembly and operation requirements at www.operating-conditions.ponar.pl

DIAGRAM



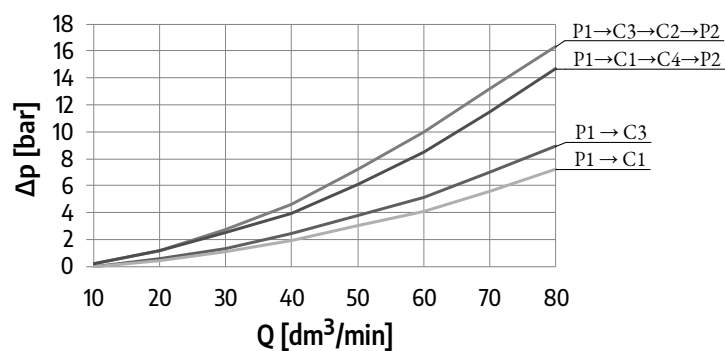
OVERALL AND CONNECTION DIMENSIONS

version: 6UREE10.../R-ZK...



PERFORMANCE CURVES

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



flow resistance curves

charts of pressure changes Δp in the function of directional valve **6UREE10/R-ZK...** flow Q

HOW TO ORDER

6UREE10 - / **R** - **ZK** - / / /

1 2 3 4 5 6 7 8 9

1 series number

series 02 = 02
(01÷09) connection and installation dimensions unchanged

2 type of connection

thread G1/2 = R

3 cross-over relief valve

with a cross-over relief valve = ZK

4 supply voltage for solenoid

12V DC = G12N
24V DC = G24N

5 solenoid plug

plug Z4 =Z4
plug Z4L (with a lamp) =Z4L

6 sealing

NBR (for fluids on mineral oil base) = ∅
FPM (for fluids on phosphate ester base) = V

7 valve no. 1 setting in bar, if required

(pressure relief valves protected with caps)

8 valve no. 2 setting in bar, if required

(pressure relief valves protected with caps)

9 further requirements = *

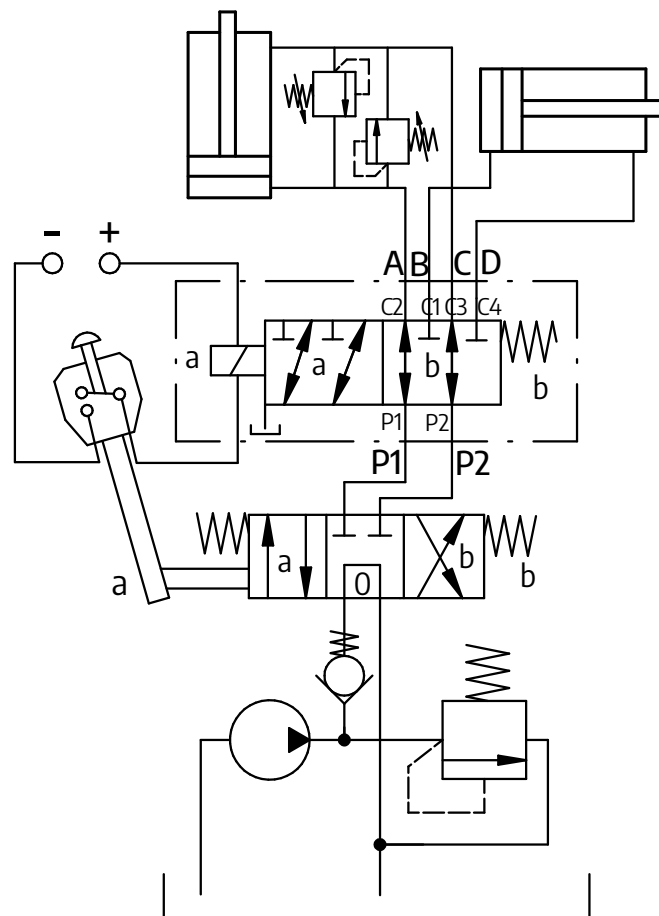
(to be agreed with the manufacturer)

∅ Symbol means the field should be left blank

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

Coding example: 6UREE10-02/R-ZKG24NZ4

EXAMPLE OF APPLICATION IN HYDRAULIC SYSTEM



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