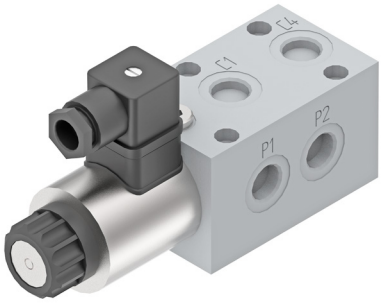
Directional spool valve electrically operated type 6UREE6

NS 6 | p_{max} 35 MPa | Q_{max} 55 dm³/min | WK 420 990

DATA SHEET – OPERATION MANUAL

APPLICATION

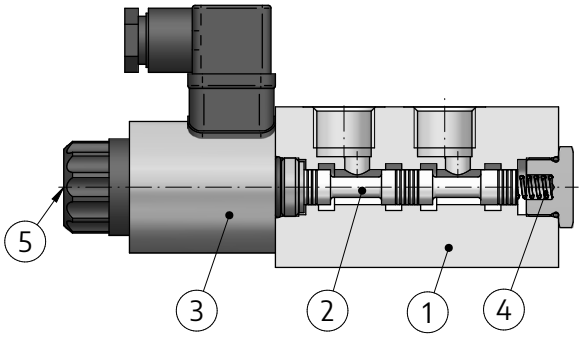


Directional spool valves electrically operated **6UREE6** type are designed to change the direction of fluid flow in a system, they are mainly used for supply switching and control between independent parts of a hydraulic system.

Directional spool valves electrically operated **6UREE6** type are suitable 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 **6UREE6** type are housing **1**, spool **2**, solenoid **3**, centering spring **4** and manual override **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**.

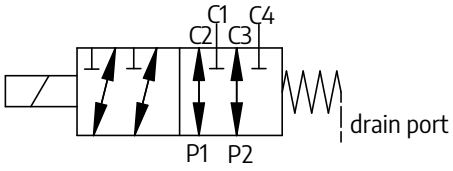
In case of emergency, the spool can be shifted manually by the use of the override **5**.

TECHNICAL PARAMETERS

hydraulic fluid	mineral oil
required fluid cleanliness class	ISO 4406 class 20/18/15
recommended filtration	up to 10 µm
nominal fluid viscosity	37 mm²/s at temperature 55°C
viscosity range	2,8 ÷ 380 mm²/s
ambient temperature range	-30 ÷ 50°C
maximum 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 3 kg
nominal supply voltage for solenoids	DC 12V; DC 24V;
supply voltage tolerance	±10%
insulation class	IP 65
power requirement (direct current)	45W
solenoid coil temperature	max 150°C

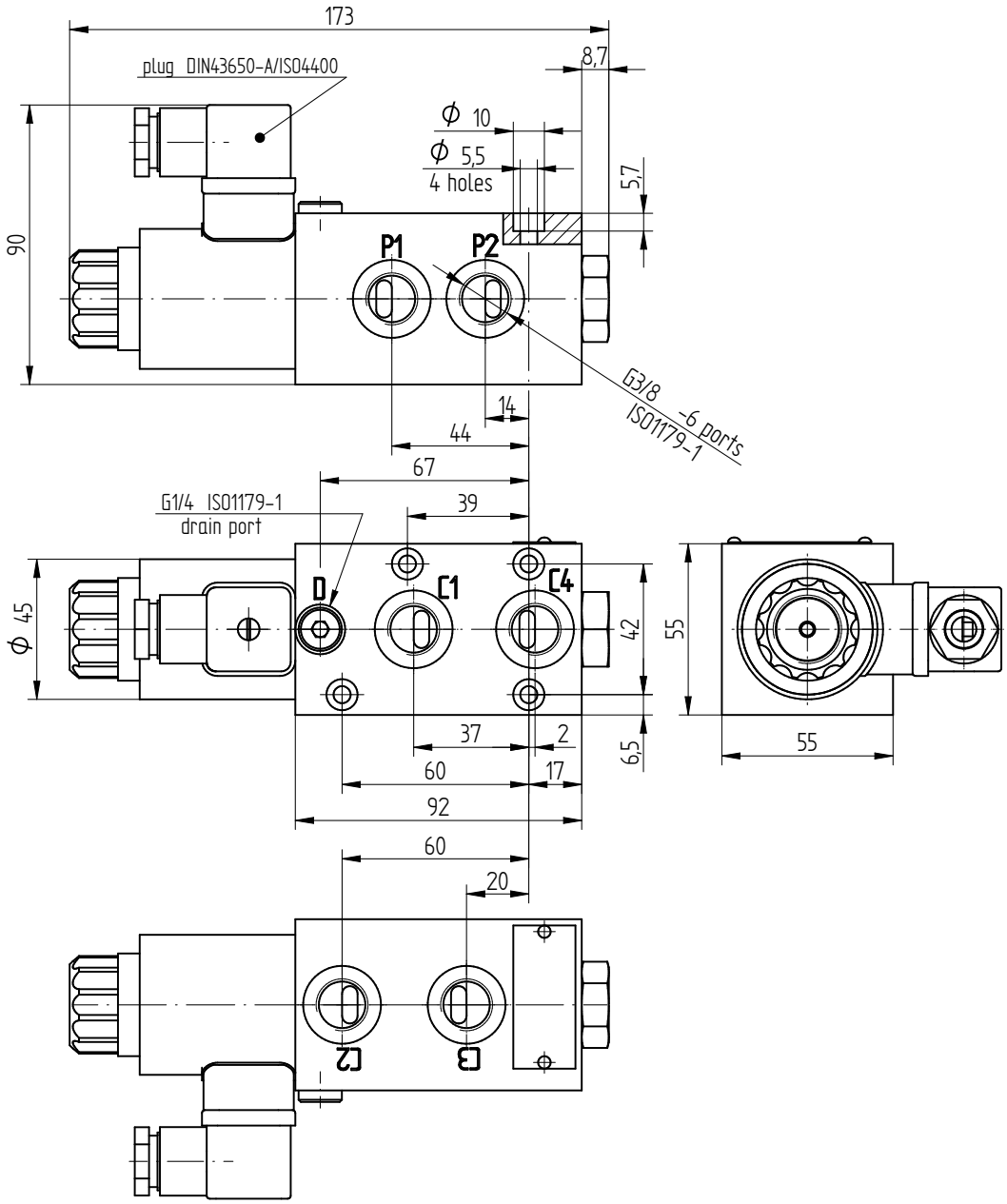
assembly and operation requirements at **www.operating-conditions.ponar.pl**

DIAGRAM



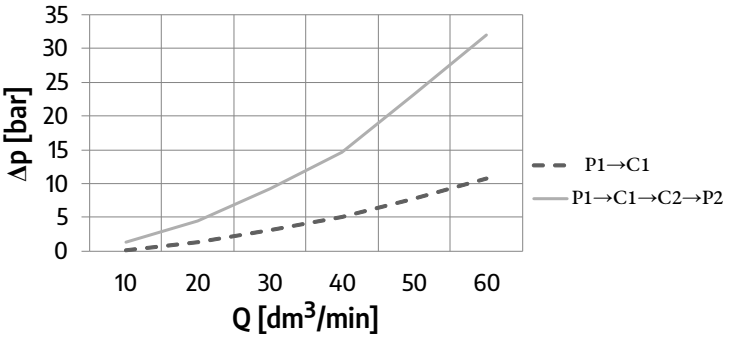
OVERALL AND CONNECTION DIMENSIONS

version: 6UREE6.../R



PERFORMANCE CURVES

measured at viscosity v=41mm²/s and temperature t=50°f

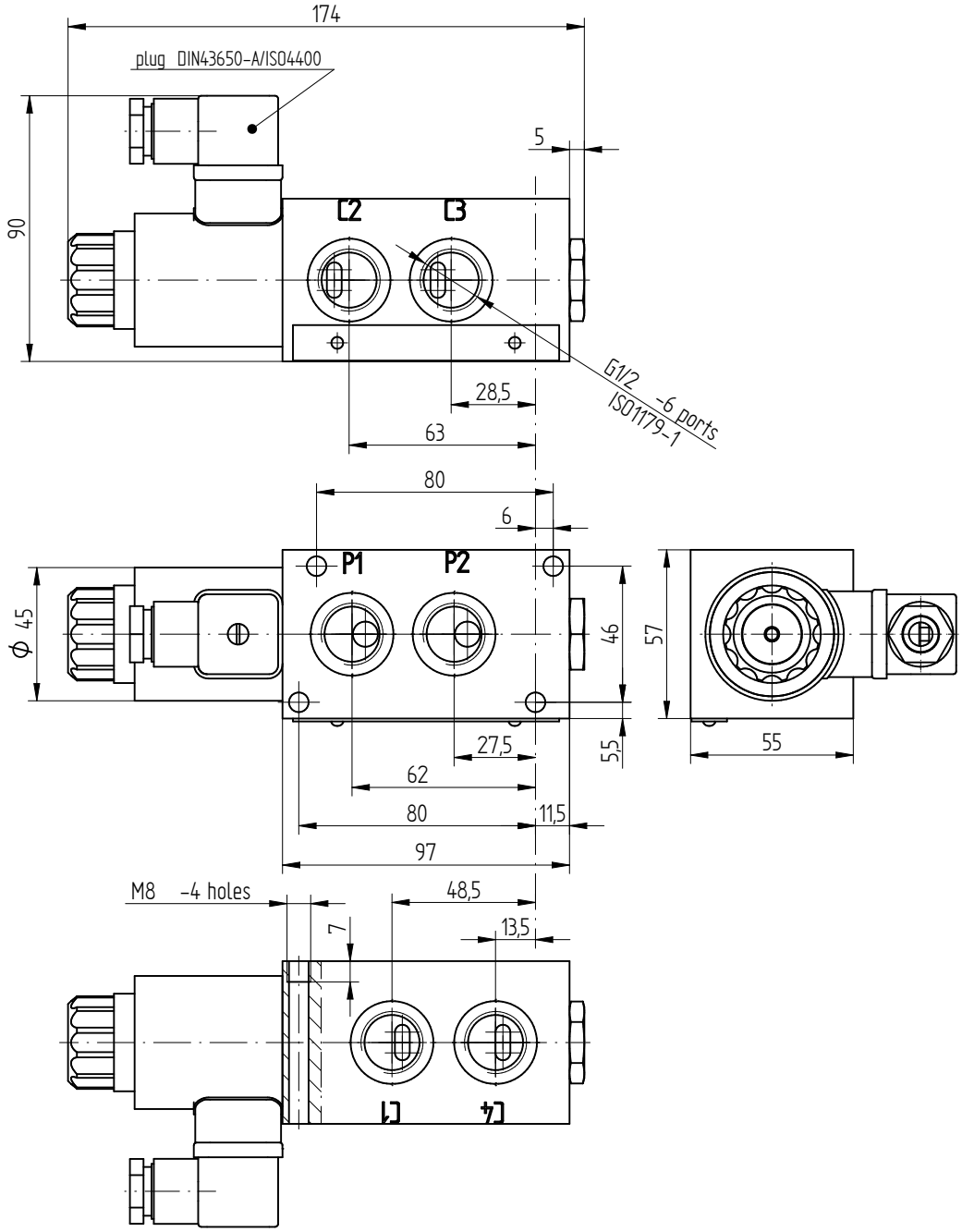


flow resistance curves

charts of pressure changes Δp in the function of directional valve **6UREE6.../R...** flow Q

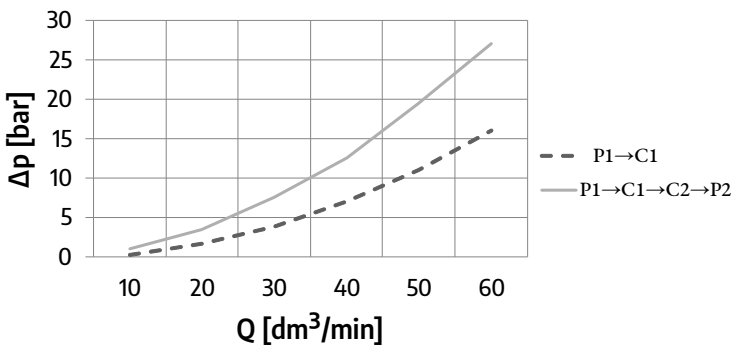
OVERALL AND CONNECTION DIMENSIONS

version: 6UREE6.../R1



PERFORMANCE CURVES

measured at viscosity v=41mm²/s and temperature t=50°C



flow resistance curves

charts of pressure changes Δp in the function of directional valve u **6UREE6.../R1...** flow Q

HOW TO ORDER

6UREE6 – □ / □ – □ □ □ □

1 2 3 4 5 6

1 series number

series 02 -for R version=	02
series 12 -for R1 version=	12

2 type of connection

thread G3/8 =	R
thread G1/2 =	R1

3 supply voltage of solenoid with manual override switch

12V DC =	G12N
24V DC =	G24N

4 solenoid plug

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

5 sealing

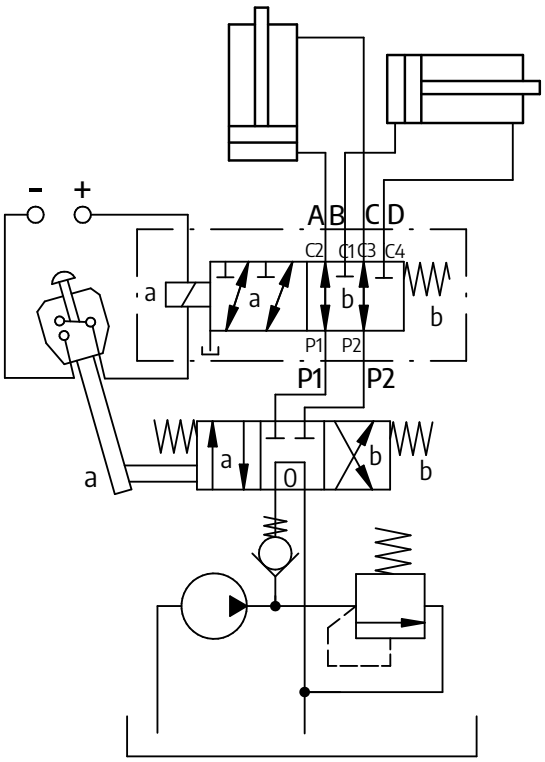
NBR (for fluids on mineral oil base) =	**Ø**
FPM (for fluids on phosphate ester base) =	V

6 further requirements = *
(to be agreed with the manufacturer)

Ø Symbol means the field should be left blank
The symbols in bold are preferred versions available in short delivery time.

Coding example: **6UREE6-02/R-G24NZ4**

EXAMPLE OF APPLICATION IN A HYDRAULIC SYSTEM



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