

6/2 way directional valve type 6/2UREM10

WK 421 590

NS 10

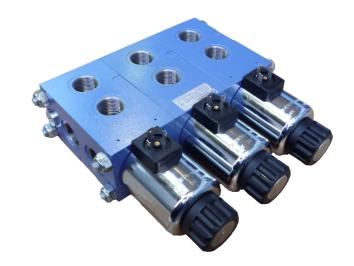
up to 35 MPa up to 80 dm³/min

11.2012

DATA SHEET - SERVICE MANUAL

APPLICATION

Mobile 6 way 2 position stackable directional valves type 6/2UREM10... are intended for hydraulic systems where movement of consumers (cylinders or hydraulic motors) is controlled by means of one basic directional valve. Shifting of a proper section of valve 6/2UREM10... results in connecting the consumer to the basic directional valve. The valves are used for in-line mounting in any position.



DESCRIPTION OF OPERATION

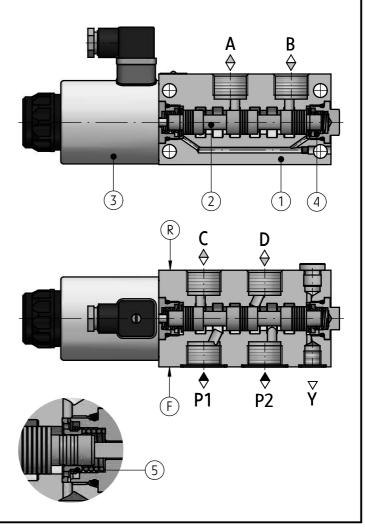
Mobile 6 way directional valves type 6/2UREM10... are used as one unit or blocks with maximum 5 sections. The sections are stackable. Each section has ports A and B to connect the consumer (e.g. hydraulic cylinder). Ports P1 and P2 on the side wall (F) of the front (or one unit) section are used to connect the basic directional valve. Ports C and D on the wall (R) of the rear (or one unit) are used to connect the consumer. Depending on the spool position lines P1 and P2 are connected correspondingly to lines **A** and **B** or **C** and **D**. Ports P1, P2 and C, D are situated opposite each other what allows the transfer of supply from the previous to the next section of the stackable valve at initial position of spool (2). Solenoid controlled section consists of a housing (1), control spool (2), solenoid (3) and return spring (4).

In version 6/2UREM10../...**OF**... (without springs, with detent) the spool (2) is positioned and hold by means of the detent (5). Its shift results from energizing of one of the solenoids.

In version 6/2URER10.../0... (without spring, without detent) the spool (2) is positioned and hold by the energized solenoid.

At version 6/2URER10...Y... port Y is to be connected to tank.

6/2UREM10 -12/B 0 G1 Y G24 N Z4



TECHNICAL DATA

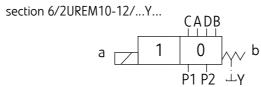
Hydraulic fluid	mineral oil	mineral oil		
Required filtration	16 μm	16 μm		
Recommended filtration	10 μm	10 μm		
Nominal fluid viscosity	37 mm ² /s in ter	37 mm ² /s in temperature 55 ℃		
Viscosity range	2,8 do 328 mm ² /s			
Fluid temperature range (in tank)	recommended 40°C to 55 ℃			
	maximum -20°C to +70 ℃			
Ambient temperature range	- 20 °C to +50 °C			
Max operating pressure	with drain port Y connected to tank		35 MPa	
(in port P1, P2, A, B, C, D)	without drain port (port Y plugged)		21 MPa	
Max pressure in port Y	21 MPa			
Max switching frequency	15000 on/h			
Weight of one section	with 1 solenoid		max 3 kg	
	with 2 solenoids		max 3,5 kg	
Nominal supply voltage for solenoids	DC	12V , 24V		
Supply voltage tolerance	±10%	±10%		
Power requirtement	40 W	40 W		
Insulation	IP 65	IP 65		
Solenoid coil temperature	max 150°C	max 150°C		

ASSEMBLY AND APPLICATION REQUIREMENTS

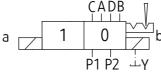
- Only valve working properly and suitably installed may be connected to an electric system. Only skilled workers are allowed to connect and disconnect electric system.
- 2. It is forbidden to apply directional spool valve if the supply cable in the gland of plug-inconnector is not properly tightened.
- 3. It is forbidden to apply directional spool valve if the plug-in-connector is not properly tightened to the solenoid socket and is not secured by screwing bolt tightly.
- Due to heating solenoid coils, directional spool 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).

SCHEMES

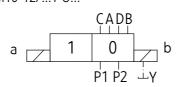
Hydraulic schemes of sections of directional valve



section 6/2UREM10-12/...Y-OF...



section 6/2UREM10-12/...Y O...

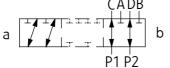


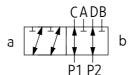
Hydraulic schemes for spools

working and intermediate positions

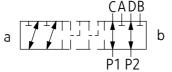
working positions

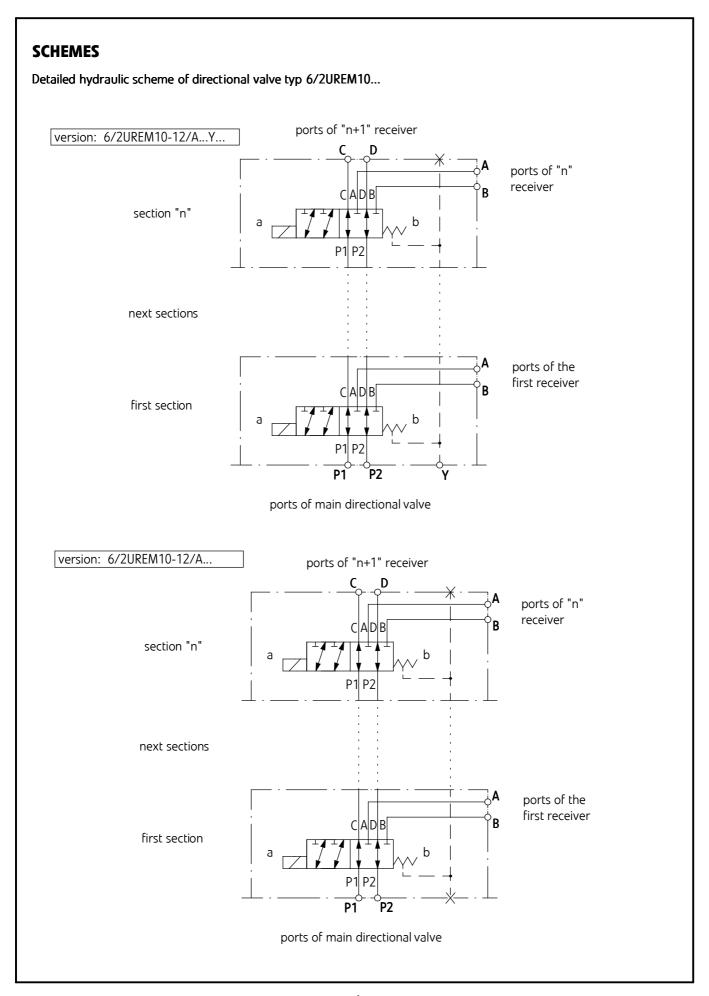
scheme "A"

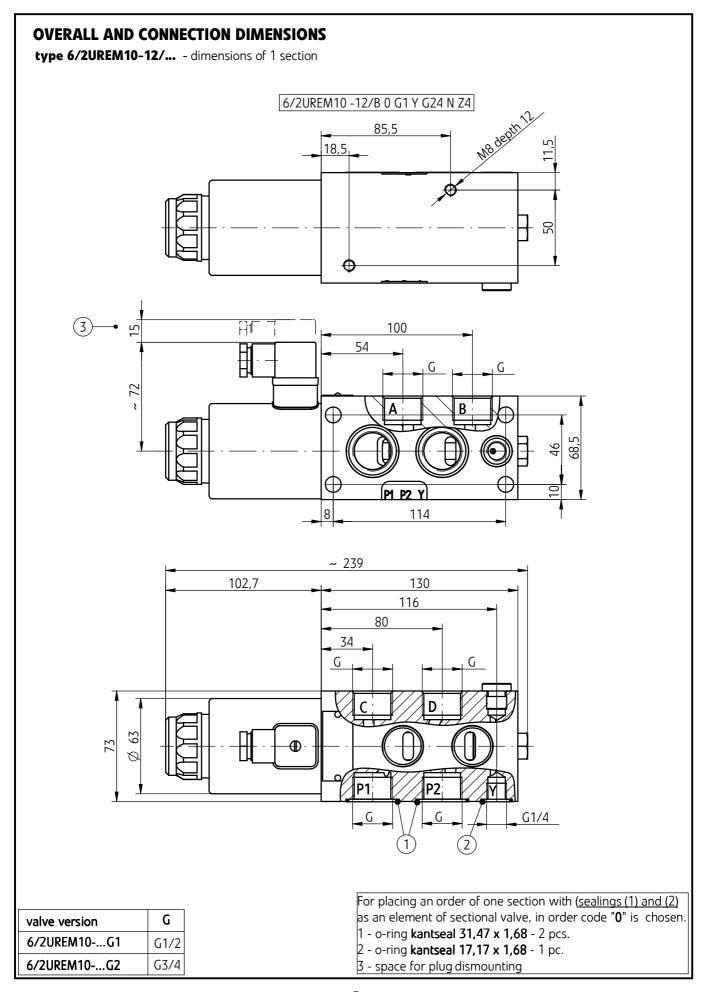


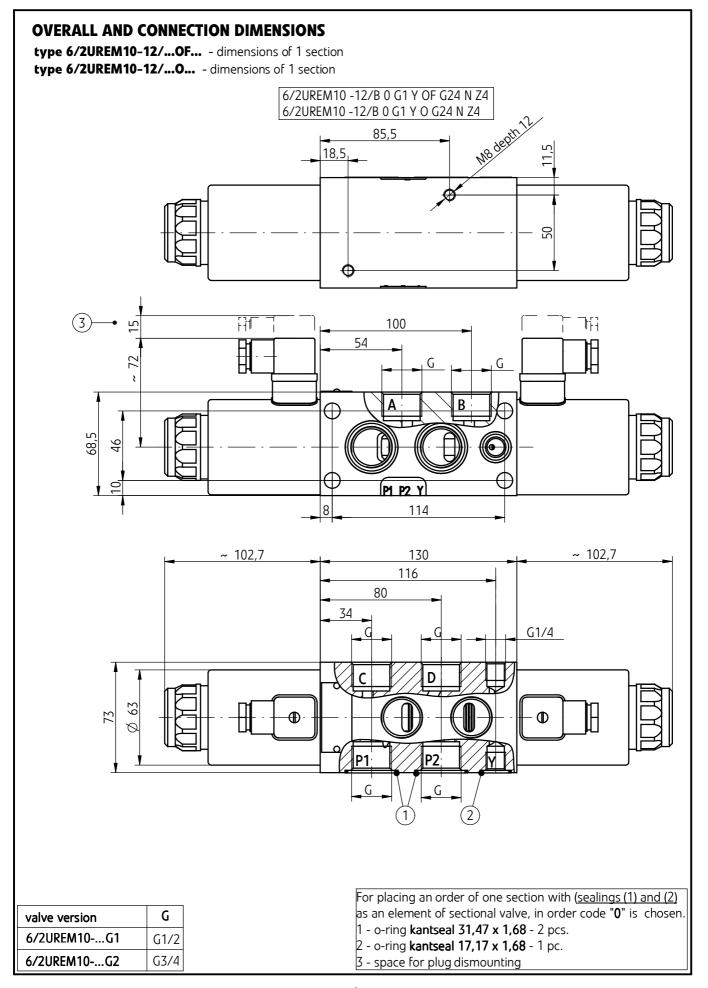


scheme "B"

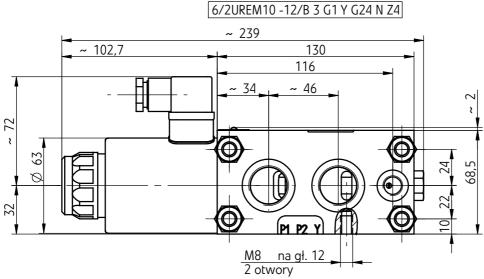


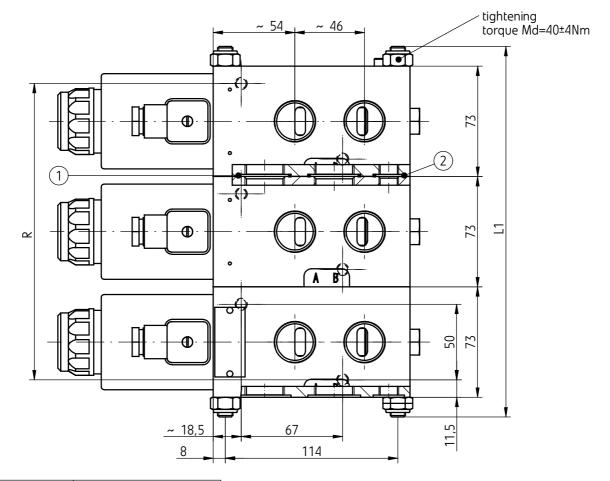






OVERALL AND CONNECTION DIMENSIONS type 6/2UREM10-12/...OF... - dimensions of 1 section type 6/2UREM10-12/...O... - dimensions of 1 section 6/2UREM10





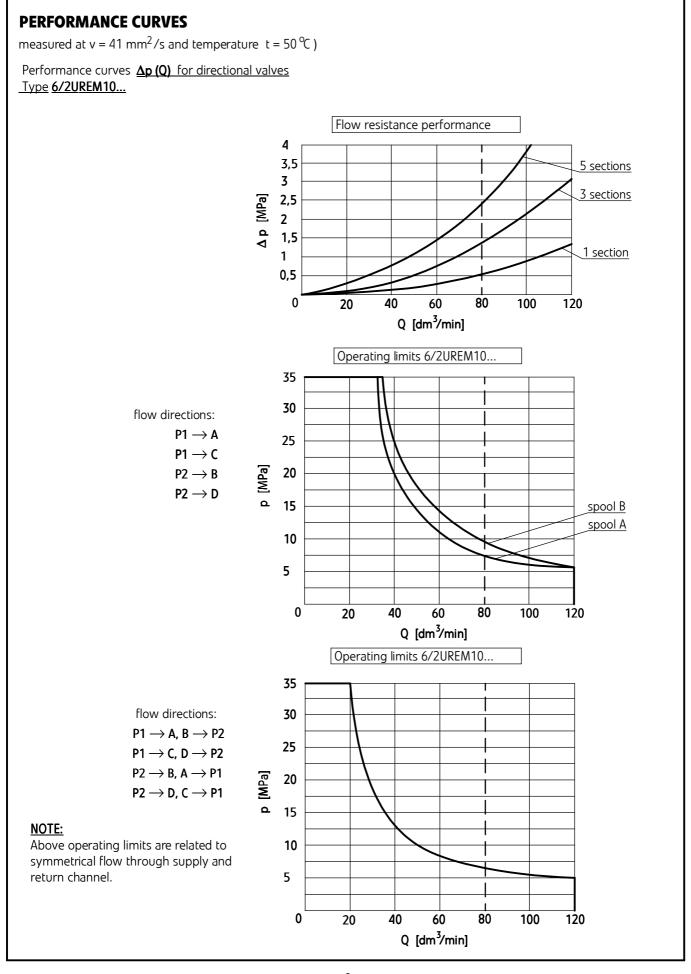
valve version	G (ports P1, P2, A, B, C, D)
6/2UREM10G1	G1/2
6/2UREM10G2	G3/4

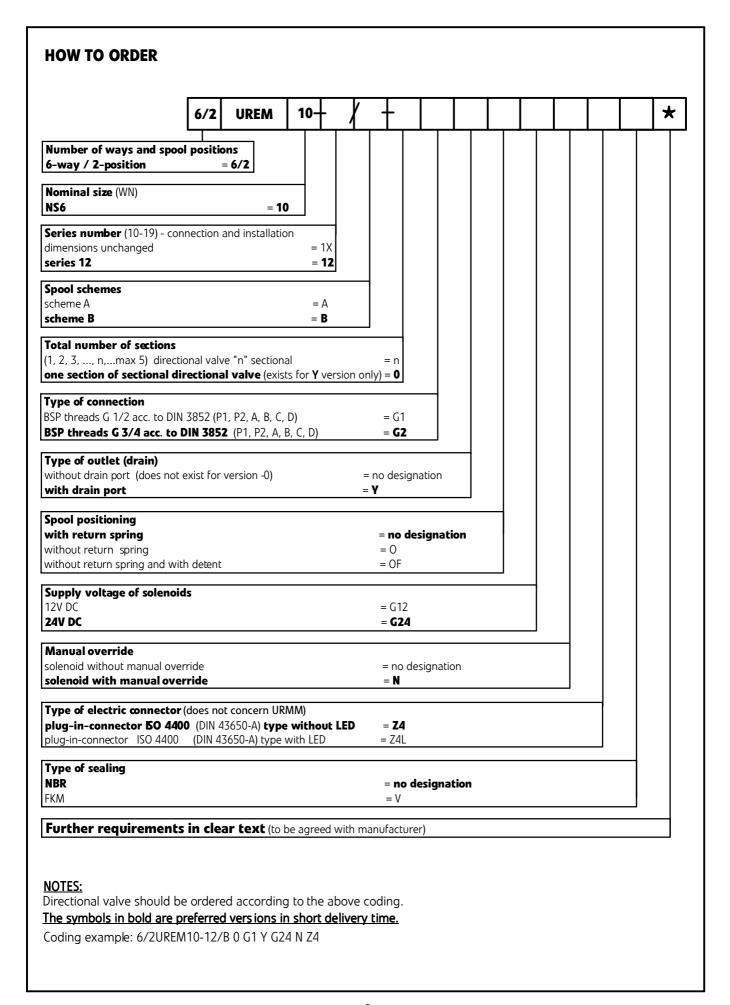
1 - o-ring **kantseal 31,47 x 1,68** - 2*n-2 pcs.

2 - o-ring **kantseal 17,17 x 1,68** - n-1 pcs.

n - number of sections

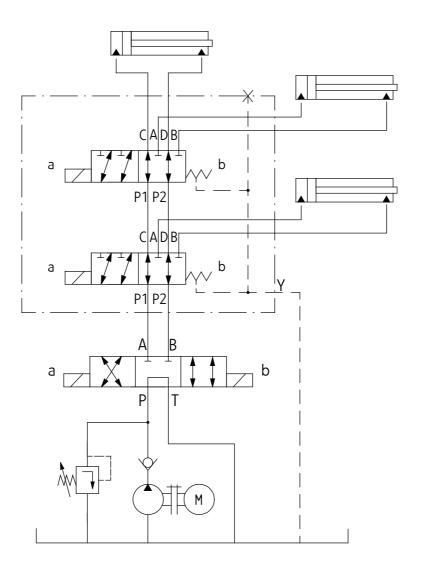
valve version	R	L1
6/2UREM10 2	123	M10x1,25x175-10.9
6/2UREM10 3	196	M10x1,25x245-10.9
6/2UREM10 4	269	M10x1,25x320-10.9
6/2UREM10 5	342	M10x1,25x395-10,9





EXAMPLE OF APPLICATION IN HYDRAULIC SYSTEM

6/2UREM10-12/A 2 G1 Y G24 N Z4



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

