

4-way sectional directional control valve type 4/3 UREM6

WK 423 140

NS₆

up to 35/21 MPa | up to 50 dm³/min

12.2017

DATA SHEET - OPERATION MANUAL

APPLICATION

Electrically operated sectional 4-way directional control valve type 4/3UREM... is intended for changing hydraulic fluid flow in a hydraulic system, which enables change of direction of the receiver's movement, usually the cylinder piston rod or a hydraulic motor, and performance of modes: start / stop.

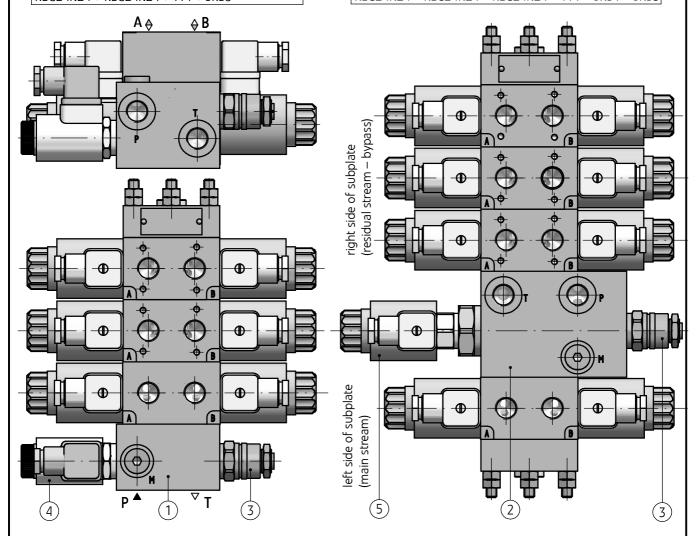
It is designated for layer mounting in a block, in any position in a hydraulic system, it is intended for mobile applications.

DESCRIPTION OF OPERATION

4/3UREM6 -12/PR315A1G24Z4 + ZRIG24NZ4 + REG24NZ4 + REG24NZ4 + TT1 + SRB3



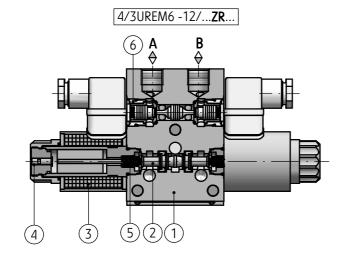
4/3UREM6 -12/ Z1 + ZRJG24NZ4 + PQE20 - 50A + REG24NZ4 + REG24NZ4 + REG24NZ4 + TT1 + SRB1 + SRB3



sectional directional control valve 4/3UREM6... is mounted in layer system in block assembled with max. 8 sections on one side of the inlet port. Port **P** and **T** can be located in the inlet cover (1), which can be equipped with a relief valve (3) or a relief

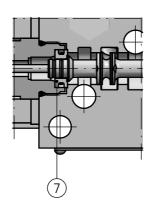
valve (3) and unloading directional valve (4). Ports ${\bf P}$ and ${\bf T}$ can be also located in the inlet, middle plate (2) equipped with a relief valve (3) and 3-way flow regulator (5) electrically, proportionally operated (or manually adjusted).

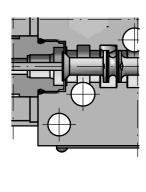
DESCRIPTION OF OPERATION



4/3UREM6 -12/...**R...OF**...

4/3UREM6 -12/...**R...O**...





Each of the sections of the valve is available in a version allowing for transmission of voltage from the previous to the next section by a parallel connection of channels (versions R...; ZR...), or serial (version S...). Each of the sections has ports A and B for connection of receiver (for example: hydraulic cylinder). Single section of directional valve electromagnetically operated consists of body (1), spool (2), solenoid (3), with manual override button (4) and reverse spring (5). In case of lack of power supply, shift of spool can be made by manual override button (4). Additionally single section in ZR...

version has mount controlled, reverse, twin valve i.e. hydraulic lock (6), which enables stream cutting at flow in one direction and free flow opening in opposite direction. Loss of pressure in port $\bf A$ or $\bf B$ causes stream cutting in both ports. In version $\bf R...\bf OF...$ (without springs and with latch) spool position (2) is determined and supported by means of latch (7). Change of position is made by giving of current impulse on one of two solenoids. In version $\bf R...\bf O...$ (without springs and without latch) spool position (2) determines and support currently supplied solenoid.

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TECHNICAL DATA

Hydraulic fluid	mineral oil	mineral oil		
Required fluid cleanliness class	ISO 4406; class 2	ISO 4406; class 20/18/15		
Nominal fluid viscosity	37 mm ² /s at ten	37 mm ² /s at temperature 55°C		
Viscosity range	2,8 up to 380 mi	2,8 up to 380 mm ² /s		
Fluid temperature range (in a tank)	recommended	recommended 40°C up to 55°C		
Tiola temperature range (in a tank)	max	-20°C up to +70°C		
Ambient temperature range	- 20°C up to +50°	- 20°C up to +50°C		
Maximum working pressure	versions: 4/3URE	versions: 4/3UREM6/R;/ZR		
	version 4/3URE	version 4/3UREM6/S		
Maximum setting number	15000 swtch./h			
Nominal voltage of solenoids	12V DC, 24V DC			
Supply voltage tolerance	±10%	±10%		
Power (DC)	30 W	30 W		
Degree of protection	IP 65	IP 65		
Solenoid coil temperature	max 150 °C	max 150 [°] C		

INSTALLATION AND OPERATION REQUIREMENTS

- Only fully functional and operational valve, properly connected to electrical installation must be used.
 Connecting or disconnecting the valve to an electrical installation must only be carried out by qualified personnel.
- 2. During the period of operation must be kept fluid viscosity acc. to requirements defined in this Data Sheet Operation Manual
- 3. In order to ensure failure free and safe operation the following must be checked:
 - condition of the electrical connection
 - proper working of the valve
 - cleanliness of the hydraulic fluid
- 4. Due to heating of electromagnet solenoid coils to high temp., the valve shall be placed in such way to

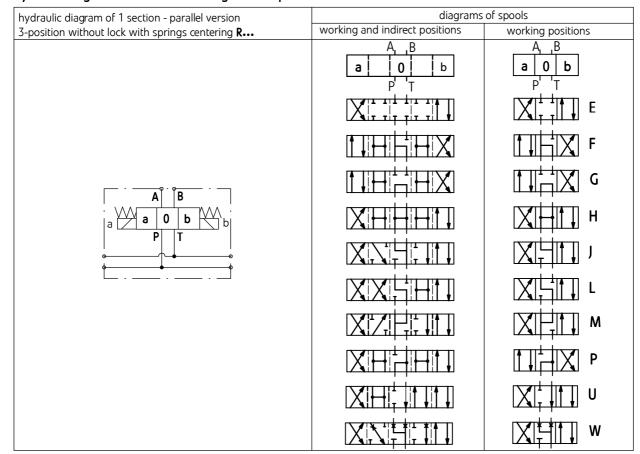
- eliminate the risk of accidental contact with solenoid during operation or to apply suitable covers acc. to PN EN ISO 13732 -1 and PN EN 4413
- Solenoid plug shall precisely adhere to socket and shall be secured with thread bolt screwed in securely in a place. It is forbidden to operate the valve if the tightness and suitable clamp of cable in the plug gland are not ensured.
- 6. In order to ensure tightness of the directional valve block, one should take care of dimension of sealing rings and valve operation parameters given in this Data Sheet Operation Manual
- A person that operates the valve must be thoroughly familiar with this Data Sheet - Operation Manual.

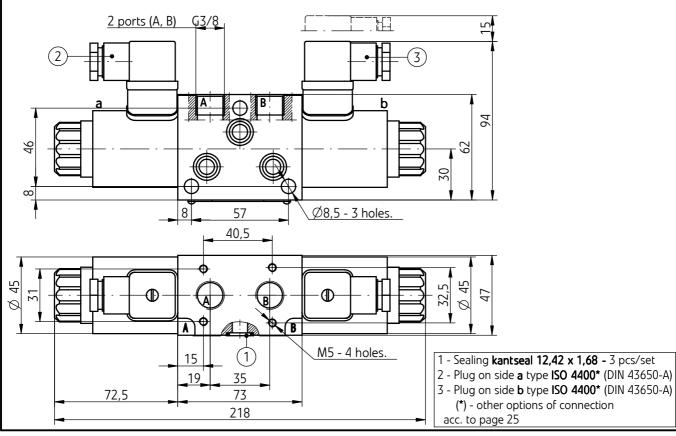
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single working section - parallel, 3-position version without hydraulic lock with springs centering R...

hydraulic diagram of 1 section and diagrams of spools



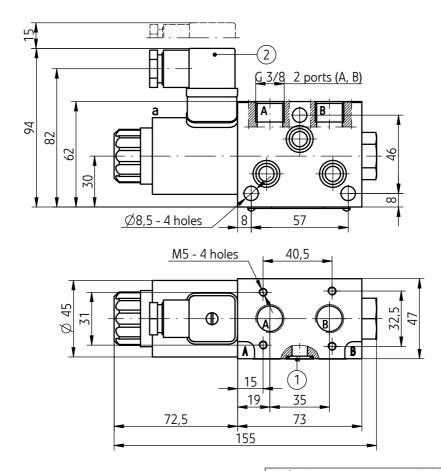


single working section - parallel, 2-position version without hydraulic lock with spring setting R...

hydraulic diagram of 1 section and diagrams of spools

hydraulic diagram of 1 section - parallel version 2-position without lock with spring setting R	diagrams of spools		
(solenoid on side a)	working and indirect positions	working positions	
A B P T	A B A B A B A B A B A B	A, B a b A, B a b P, T A A, B C D	

overall and connection dimensions of 1 section



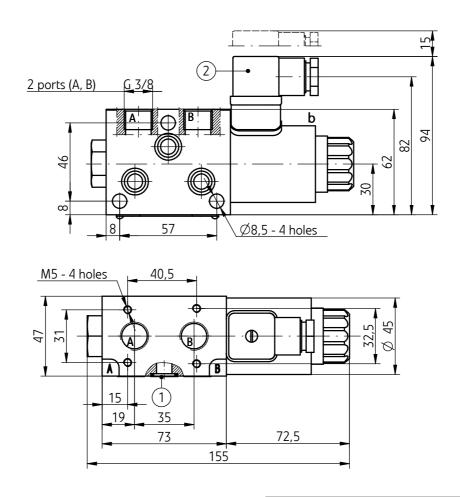
- 1 Sealing o-ring **kantseal 12,42 x 1,68** 3 pcs/set
- 2 Plug on side **a** type **ISO 4400*** (DIN 43650 A) (*) other options of connection acc. to page 25

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single working section - parallel, 2-position version without hydraulic lock with spring setting R...

hydraulic diagram of 1 section and diagrams of spools

hydraulic diagram of 1 section - parallel version 2-position without lock with setting spring R	diagrams of spools		
(solenoid on side b)	working and indirect positions	working positions	
A B B D D D D D D D D D D D D D D D D D	A B A B A B A B A B	A B P T B A B A B A B A B Y	



- 1 Sealing **kantseal 12,42 x 1,68** 3 pcs/set
- 2 Plug on side **b** type **ISO 4400*** (DIN 43650 A) (*) other options of connection acc. to page 25

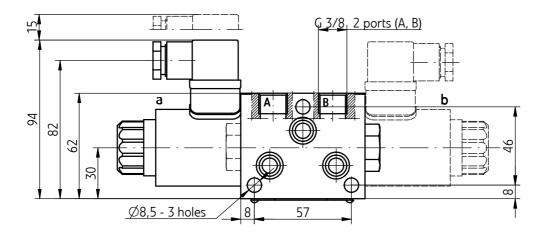
single working section - parallel, 2-position version without hydraulic lock with centered springs R...A...; R...B...

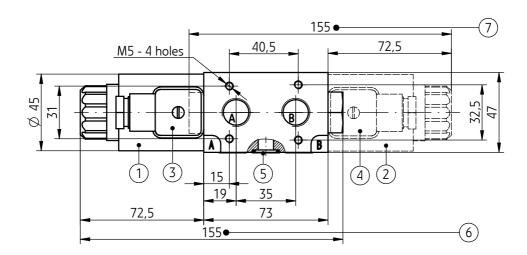
hydraulic diagram of 1 section and diagrams of spools

ydraulic diagram of one section - parallel version 2-position	diagrams of	
vithout lock with setting spring: RA; RB	working and indirect positions	working positions
version RA (solenoid on side a)	A B a 0 P T	A, B a 0 P'T
A		FA
a a 0 M		[↑↓ GA X HA
		JA
		LA
		MA PA
		XII UA
		WA WA
version RB (solenoid on side b)	A B 0 b	A, , B 0 b P T
		FB
A B		GB HB
O b T		JB
		LB
		MB PB
	* * * * * * * * * * * * * * * * * * * *	w _B

single working section - parallel, 2-position version without hydraulic lock with spring setting R...A...; R...B...

overall and connection dimensions of 1 section



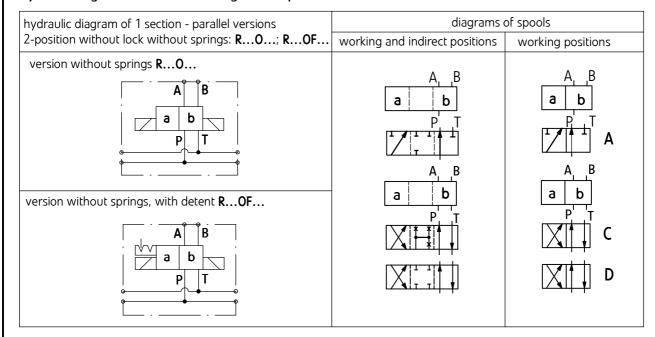


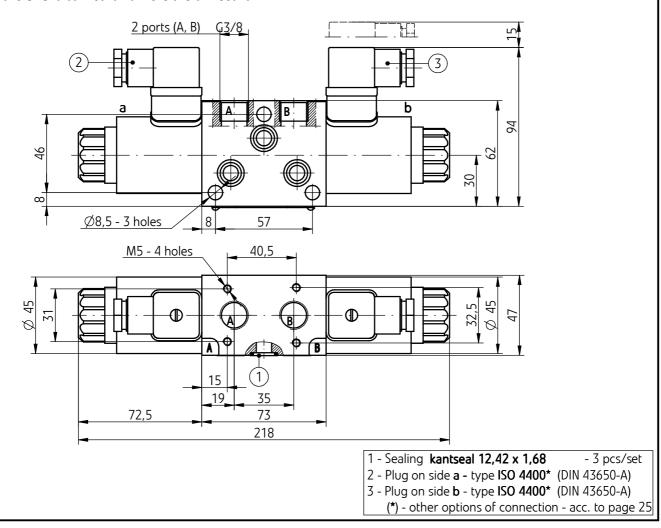
- 1 Solenoid on side a
- 2 Solenoid on side **b**
- 3 Plug on side **a** type **ISO 4400*** (DIN 43650 A)
- 4 Plug on side **b** type **ISO 4400*** (DIN 43650 A)
- 5 Sealing **kantseal 12,42 x 1,68** 3 pcs/set
- 6 Overall dimension of **2-position** section version **R...A...** (with **1 solenoid** on side **a**; spool diagrams: **EA**, **FA**, **GA**, **HA**, **JA**, **LA**, **MA**, **PA**, **UA**, **WA** acc. to page 7)
- 7 Overall dimension of **2-position** section version **R...B...** (with **1 solenoid** on side **b**; spool diagrams: **EB**, **FB**, **GB**, **HB**, **JB**, **LB**, **MB**, **PB**, **UB**, **WB** acc. to page 7)

(*) - other options of connection - acc. to page 25

single working section - parallel, 2-position version without hydraulic lock without springs R...O...; without springs with detent R...OF...

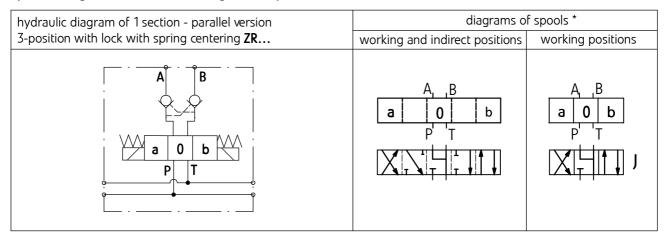
hydraulic diagram of 1 section and diagrams of spools





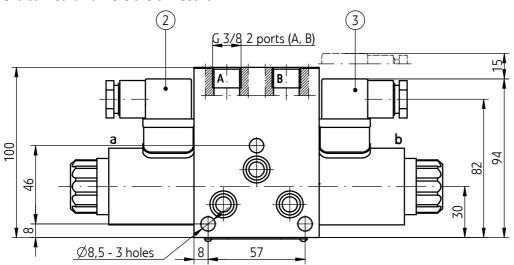
single working section - parallel, 3-position version with hydraulic lock with spring centering ZR...

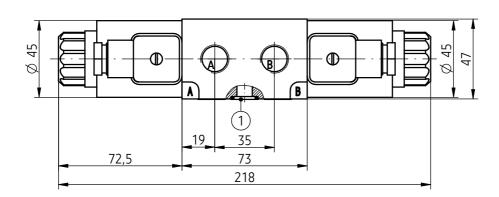
hydraulic diagram of 1 section and diagrams of spools



NOTE:

(*) - spool application advised - diagram J; other diagrams of spools require individual analysis.



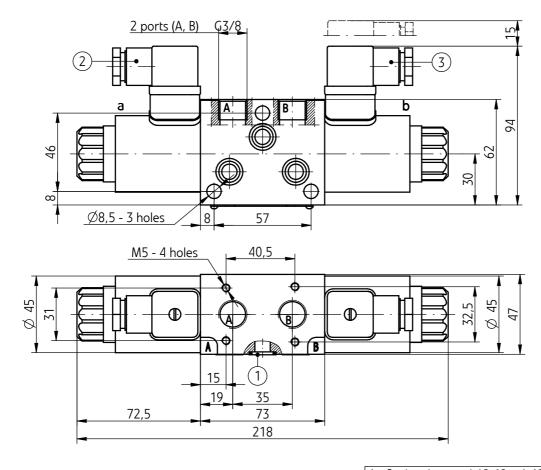


- 1 Sealing **kantseal 12,42 x 1,68** 3pcs/set
- 2 Plug on side **a** type **ISO 4400*** (DIN 43650-A)
- 3 Plug on side **b** type **ISO 4400*** (DIN 43650-A) (*) other options of connection acc. to page 25

single working section - serial, 3-position version without hydraulic lock with spring centering S...

hydraulic diagram of 1 section and diagrams of spools

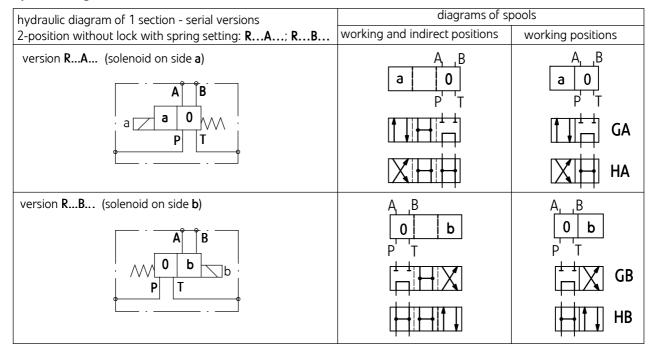
hydraulic diagram of 1 section - serial version	diagrams	of spools
3-position without lock with spring centering S	working and indirect positions	working positions
A B B P T T	A, B a 0 b P'T	A B a 0 b P T G

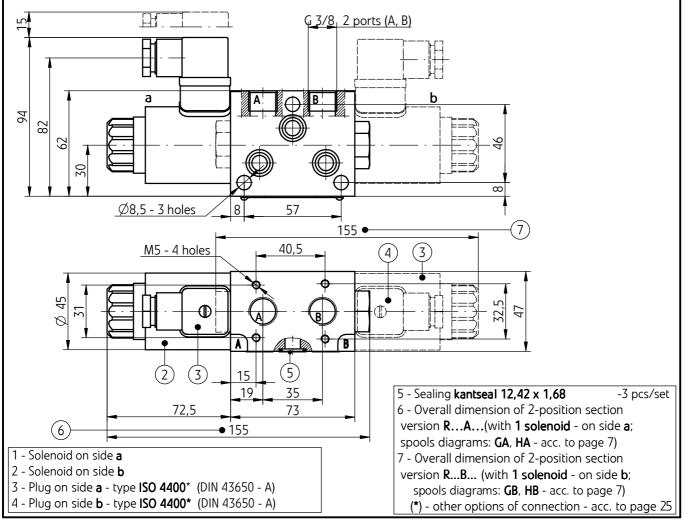


- 1 Sealing **kantseal 12,42 x 1,68** 3pcs/set
- 2 Plug on side **a** type **ISO 4400*** (DIN 43650-A)
- 3 Plug on side **b** type **ISO 4400*** (DIN 43650-A) (*) other options of connection acc. to page 25

single working section - serial versions 2-position without hydraulic lock with spring setting R...A...; R...B...

hydraulic diagram of 1 section





CODING OF SINGLE WORKING SECTIONS

(coding element for order of a complete directional valve acc. to page 32, 33 or a set of subassemblies for mounting acc. to 34, 35)

					l	N
Type of working section without lock, parallel connection with lock, parallel connection (only with spool J) without lock, serial connection (only with spools: G or H; option not available with selected of directional valve version with inlet middle plate - options PQE; PQR acc. to page 2	= R = ZR					
Spool system spools diagrams - acc. to version of working section - acc. to p	age 4 to	12				
Setting of spool position by means of reverse springs without reverse springs without reverse springs with a latch	= no de: = O = OF	signa	tion			
Type of connections of the receiver (A, B acc. to page 4 to threaded ports G 3/8	12) = no de	signa	ition			
Solenoids voltage 12V DC 24V DC			G12 G24			
Manual override solenoids with a manual override button		=	N			
Electrical connection plug-in-connector type ISO 4400 (DIN 4400 - A) without L plug-in-connector type ISO 4400 (DIN 43650 - A) with LED	ED	= Z = 7	_			

NOTES:

The symbols in bold indicate versions available in short delivery time.

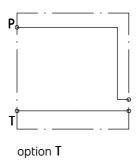
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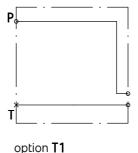
OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF INLET COVERS

inlet covers - left side

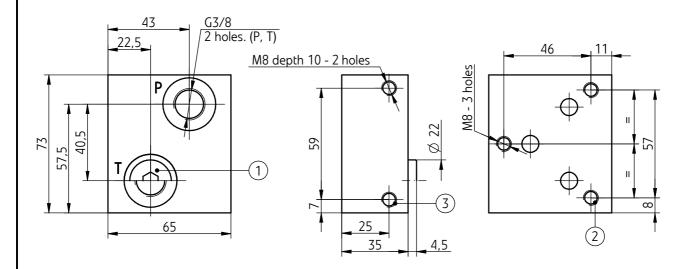
inlet cover without pressure setting - version T...

hydraulic diagram





overall and connection dimensions



- 1 Options of channel **T** in inlet cover:
 - plugged (option of cover T) plug G 3/8 (S 6) -(applied in directional valves with parallel connection of working sections)
 - open (option of cover T1) threaded port G 3/8 (applied in directional valves with a serial connection

of working sections)

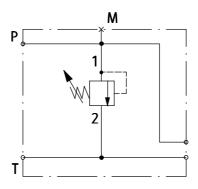
- 2 Holes for mounting of two-sided screws for fixing working sections
- 3 Holes for directional valve mounting

OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF INLET COVERS

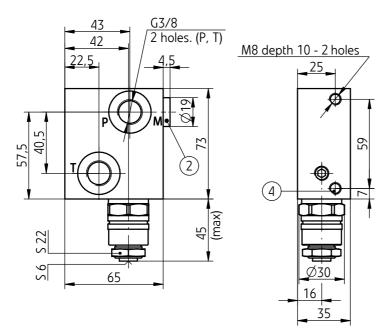
inlet covers - left side

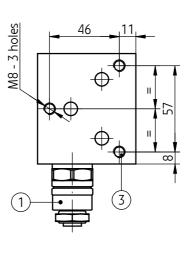
inlet cover without pressure setting - version P...

hydraulic diagram



overall and connection dimensions





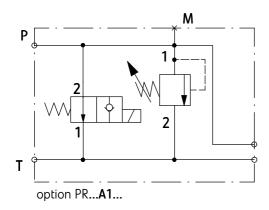
- 1 Relief valve
- 2 Manometer connection plug G 3/8 (S 6) 3 Holes for mounting of two-sided screws for fixing working sections
- 4 Holes for mounting a directional valve

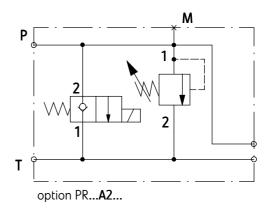
OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF INLET COVERS

inlet covers - left side

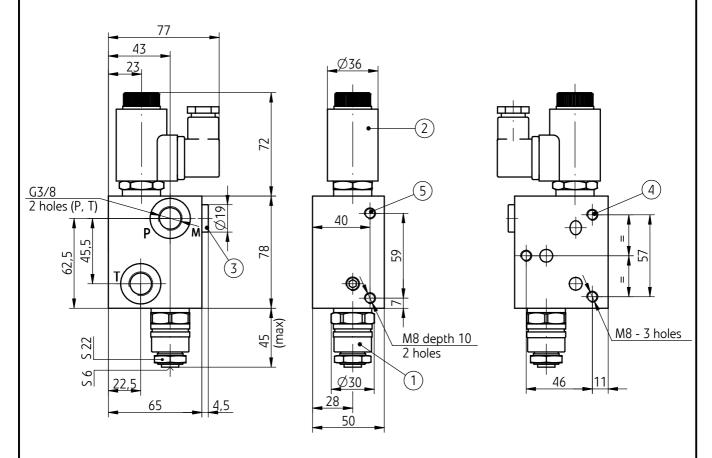
inlet cover without a pressure setting and pump relief - version PR...

hydraulic diagram





overall and connection dimensions

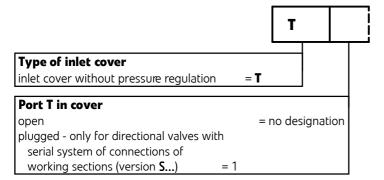


- 1 Relief valve
- 2 Unloading directional valve (options ...A1...; ...A2...)
- 3 Manometer connection plug G 3/8 (S 6)
- 4 Holes for mounting two-sided screws for fixing working sections
- 5 Holes for directional valve mounting

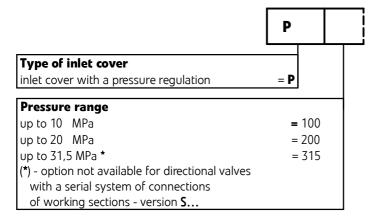
CODING OF INLET COVERS

(coding element for order of a complete directional valve acc. to page 32, 33 or subassemblies for mounting acc. to 34, 35)

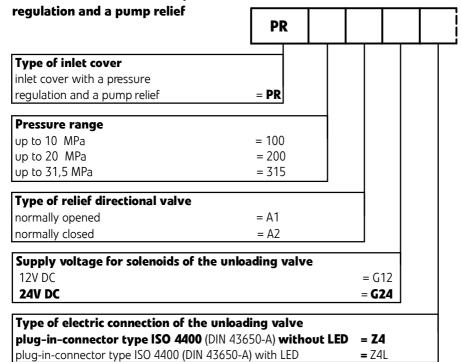
inlet cover - left side without pressure regulation



inlet cover - left side with a pressure regulation



inlet cover - left side with a pressure



NOTES:

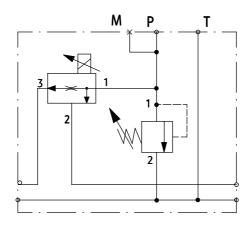
The symbols in bold indicate versions available in short delivery time.

OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF INLET PLATES

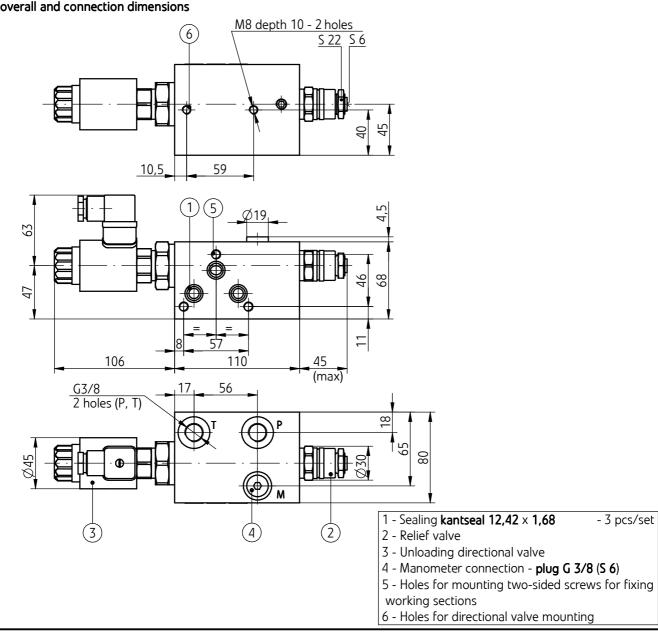
inlet middle plates with a stream division

inlet middle plate with a stream division and with a pressure setting and a flow regulation with an electric proportional setting - version PQE...

hydraulic diagram



overall and connection dimensions

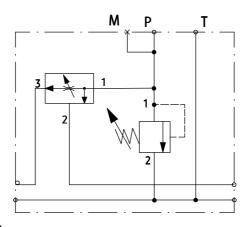


OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF INLET PLATES

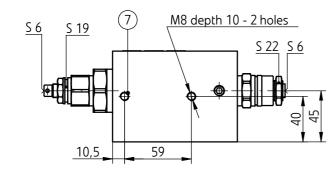
inlet middle plates with a stream division

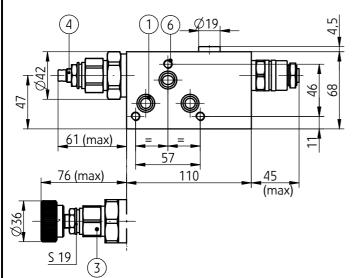
inlet middle plate with a stream division and with a pressure setting and a flow regulation with manual setting - version PQR...

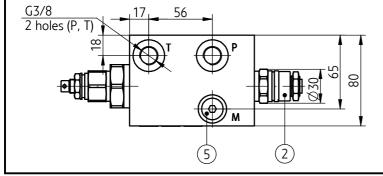
hydraulic diagram



overall and connection dimensions







- 1 Sealing **kantseal 12,42 x 1,68**
- 3pcs/set

- 2 Relief valve
- 3 Adjustment 1 (handknob)
- 4 Adjustment 2 (set screw with hexagon socket S 6)
- 5 Manometer connection plug G 3/8 (S 6)
- 6 Holes for mounting two-sided screws for fixing working sections
- 7 Holes for directional valve mounting

CODING OF INLET COVERS

(coding elements for order of a complete directional valve acc. to page 32, 33 or subassemblies for mounting acc. to page 34, 35)

inlet middle plate with a stream division and with a pressure setting and flow regulation with electric proportional setting - version PQE...

Type of inlet middle plate		1	
Type of inlet middle plate			
inlet middle plate with a stream division and with a pressur	re		
setting and a flow regulation with electric proportional setl			
Duesculus nomes		_	
Pressure range	100		
up to 10 MPa	= 100		
up to 20 MPa	= 200		
Flow range			1
up to 25 dm ³ /min	= 25		
up to 50 dm ³ /min	= 50		

inlet middle plate with a stream division and with a pressure setting and a flow regulation with a manual setting - version PQR...

	PC	R		+	+	_
Type of inlet middle plate inlet middle plate with a stream division and with a pressure setting and a flow regulation with a manual setting	= PQE					
Pressure range			\dashv			
up to 10 MPa	= 100					
up to 20 MPa	= 200					l
up to 31,5 MPa	= 315					
Flow range						
up to 25 dm ³ /min	= 25					
up to 50 dm ³ /min	= 50					
Type of adjustment						$\frac{1}{2}$
handknob	= 1					
set screw with hexagon socket	= 2					I

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OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF CLOSING COVERS

closing covers - left side/priority

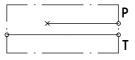
closing cover - left side/priority stream version Z...

(applied only for directional valves with stream division with inlet middle plate - options **PQE**...; **PQR**...)

hydraulic diagram

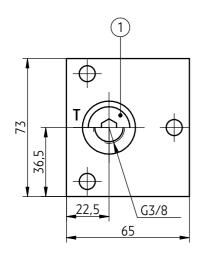


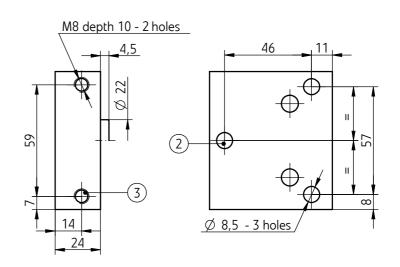




option **Z**

overall and connection dimensions





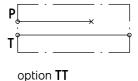
- 1 Options of port **T** in the closing cover:
 - plugged (option of cover Z1) plug G 3/8 (S 6)
 - open (option of cover Z) port G 3/8
- 2 Holes for mounting of two-sided screws for fixing working sections
- 3 Holes for directional valve mounting

OVERALL AND CONNECTION DIMENSIONS, DIAGRAMS OF CLOSING COVERS

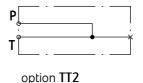
closing covers - right side/residual stream (bypass)

closing cover - right side/residual stream (bypass) version TT...

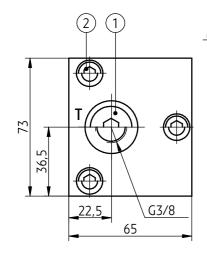
hydraulic diagram

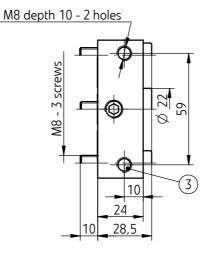


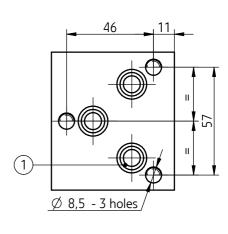




overall and connection dimensions







- 1 Options of channel **T** in closing cover:
- open (option of cover TT) port G 3/8 only for directional valves with serial system of connections of working sections - version S...
- plugged plug G 3/8 (S 6) for directional valves with a parallel system of connections of working sections versions: R...; ZR... (cover option TT1)
- connected with channel P (cover option TT2) only for versions with inlet middle plate options: PQE...; PQR... without bypass section
- 2 Screw M8 x 30 3 pcs. only for option TT2
- 3 Holes for mounting of directional valve.

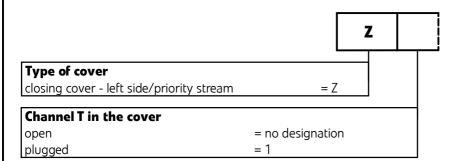
CODING OF CLOSING COVERS

left side/priority stream; right side/residual stream (bypass)

(coding elements for order of a complete directional valve acc. to page 32, 33 or setting of subassemblies for mounting acc. to page 34, 35)

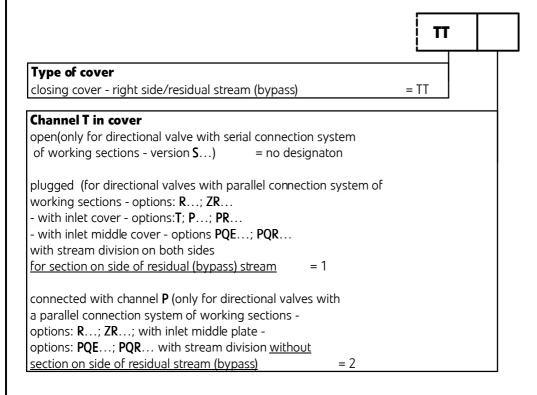
closing cover - left side/priority stream

(only for versions of directional valves with stream division with inlet, middle plate - options **PQE**...; **PQR**...)



closing cover - right side/residual stream (bypass)

- right side for version of directional valves with a pararell system of connections and inlet covers options T; P...; PR...
- side of residual stream (bypass) for versions of directional valves with a parallel system of connections with division of stream with inlet middle plate options **PQE**...; **PQR**...)

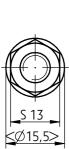


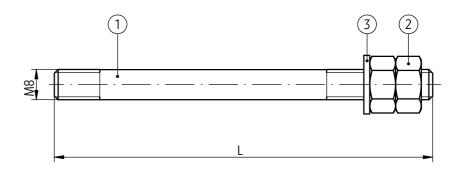
Type 4/3 UREM6 - 23 - WK 423 140 12.2017

DIMENSIONS OF MOUNTING SCREWS

mounting screws from side of closing covers: TT; TT1 - right side (3 pcs/set) mounting screws from side of closing cover Z1 - left side (3 pcs/set)

(only for version with inlet middle plate - options PQE...; PQR...)



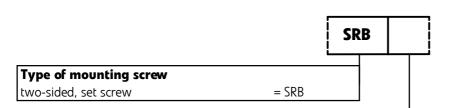


Quantity of section for mounting n	thread x screw length L
1 working section	M8 x 100
2 working sections	M8 x 145
3 working sections	M8 x 195
4 working sections	M8 x 240
5 working sections	M8 x 285
6 working sections	M8 x 335
7 working sections	M8 x 380
8 working sections	M8 x 430

- 1 Two-sided screw (pin) **M8 10,9**
- 2 Nut M8 acc. to PN/M 82144; tightening torque $Md = 28 \pm 4 Nm$
- 3 Washer **Zm 8,4** acc.to **PN/M 82144**

CODING OF MOUNTING SCREWS

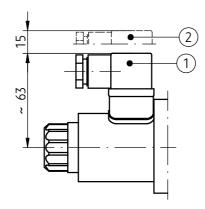
(coding element for order of a complete directional valve acc. to page 32, 33 or set of subassemblies for mounting acc. to page 34, 35)

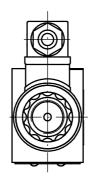


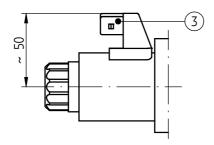
Mounting screw (3 pcs/set)				
Thread length L	number of sections for mounting	designation of n screw		
M8 x 100	1 section	= 1		
M8 x 145	2 sections	= 2		
M8 x 195	3 sections	= 3		
M8 x 240	4 sections	= 4		
M8 x 285	5 sections	= 5		
M8 x 335	6 sections	= 6		
M8 x 380	7 sections	= 7		
M8 x 430	8 sections	= 8		

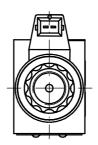
OVERALL DIMENSIONS OF ELECTRICAL CONNECTIONS

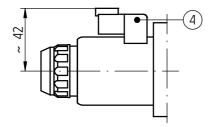
available options of electrical connection of solenoids of directional valve sections

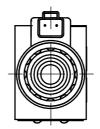






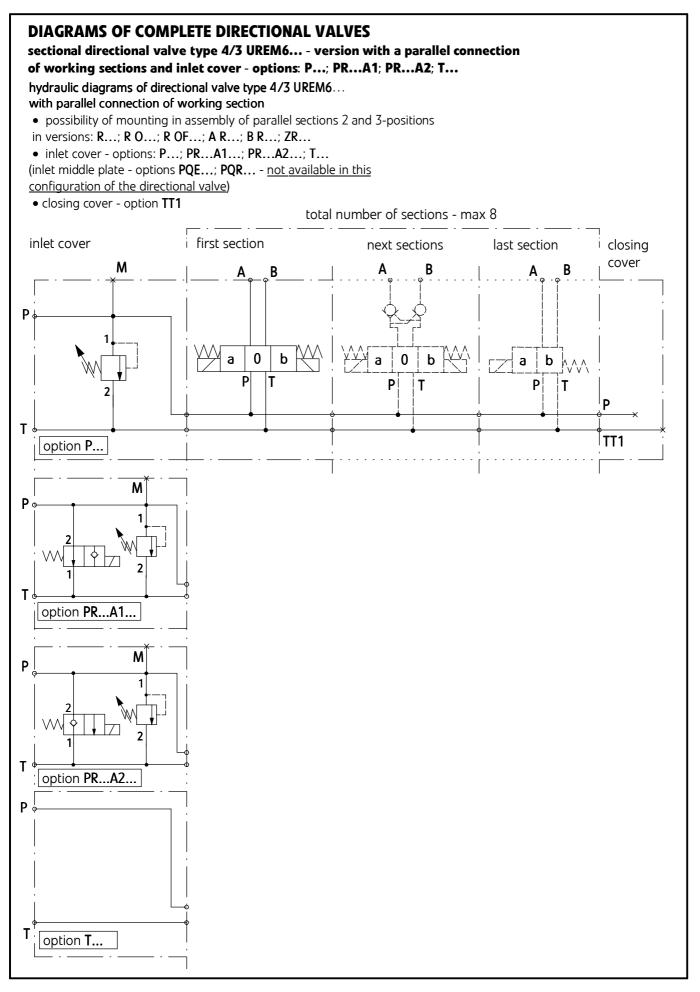






- 1 Plug type **ISO 4400** (DIN 43650 A)
- 2 Distance for dismantling of plug from solenoid connector
- 3 Port type **AMP Junior Timer male 2-pole** (plugs not shown on the drawing, must be ordered separately acc. to Data Sheet **WK 499 963**
- 4 Port type DEUTSCH DT04 2P (option only for solenoid version ...G24...; plugs type Deutsch DT06 - 2S not shown on the drawing, must be ordered separately acc. to Data Sheet WK 499 963

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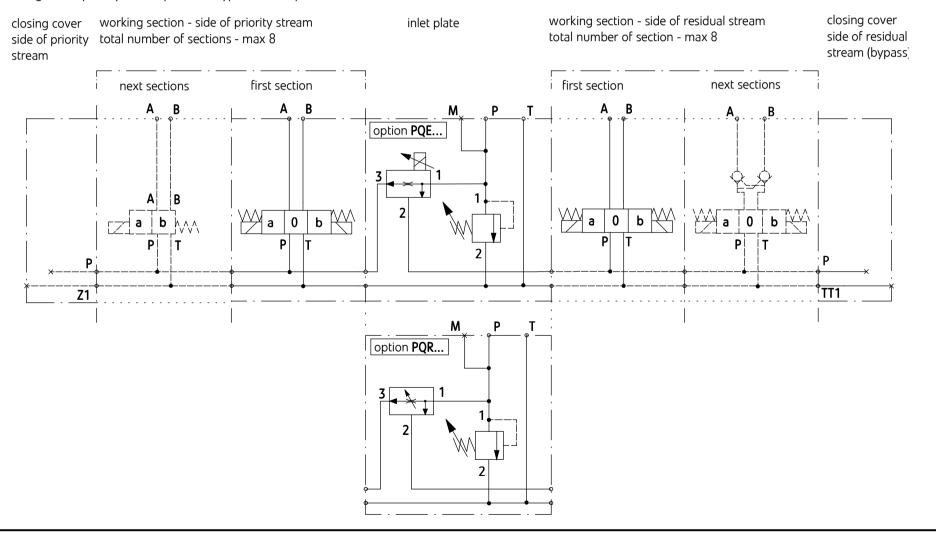


DIAGRAMS OF COMPLETE DIRECTIONAL VALVES

sectional directional valve 4/3 UREM6... - version with parallel connection of working sections and inlet plate - options: PQE...; PQR... with stream division on both sides of inlet plate (priority, bypass)

hydraulic diagrams of directional valve type 4/3 UREM6 ...with parallel connection of sections and stream division on both sides of inlet plate

- possibility of mounting in assembly of working parallel sections 2 and 3- position in versions: R...; R O...; R OF...; A R...; B R...; ZR...
- inlet middle plate options: PQE...; PQR (inlet cover options: P...; PR...A1...; PR...A2...; T... not available in this configuration of directional valve)
- closing cover: priority side option Z1; bypass side option TT1

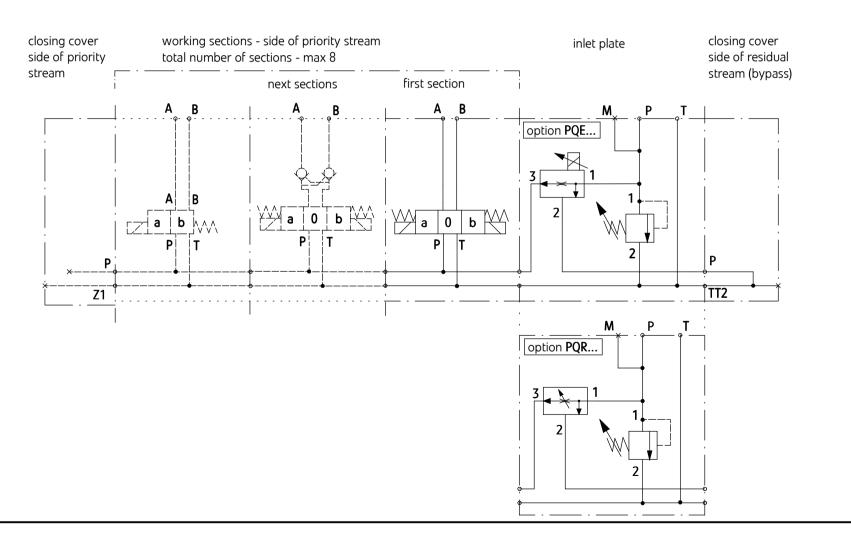


DIAGRAMS OF COMPLETE DIRECTIONAL VALVES

sectional directional valve 4/3 UREM6... - version with parallel connection of working sections and inlet plate - options: PQE...; PQR... with stream on one side of inlet plate (side of priority stream)

hydraulic diagrams of directional valve type 4/3 UREM6...with a parallel connection of working sections and stream on one side of inlet plate

- possibility of mounting in assembly of working parallel sections 2 and 3- position in versions: R...; R O...; R OF...; A R...; B R...; ZR...
- inlet plate options: PQE...; PQR (inlet cover options: P...; PR...A1...; PR...A2...; T... not available in this configuration of directional valve)
- closing cover: side of priority stream option **Z1**; side of residual stream (bypass) option **TT2**

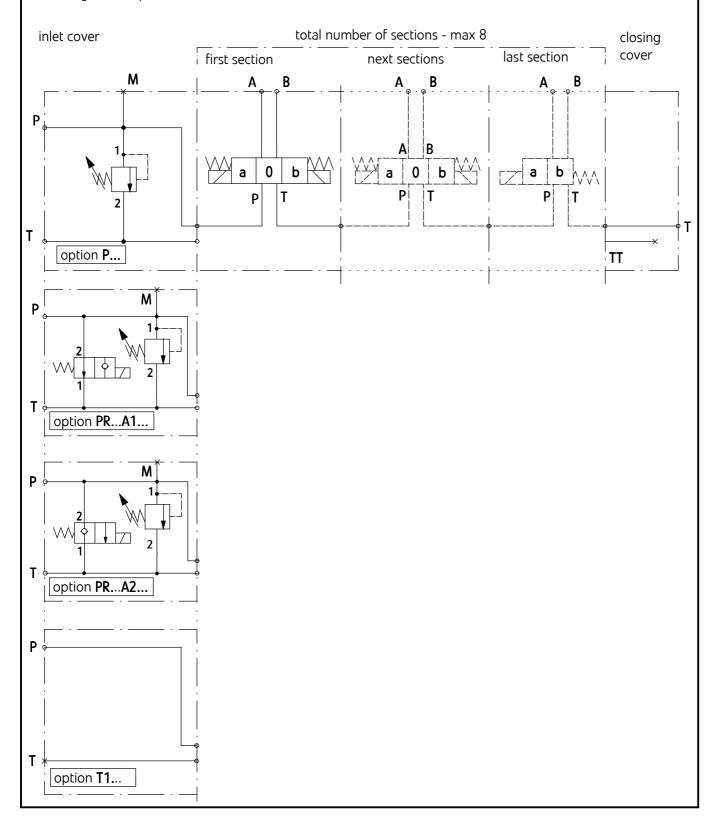


DIAGRAMS OF COMPLETE DIRECTIONAL VALVES

sectional directional valve 4/3 UREM6...- version with a serial connection of working sections inlet cover - options: P...; PR...A1...; PR...A2...; T1...

hydraulic diagrams of directional valve type 4/3 UREM6...with a serial connection of working sections

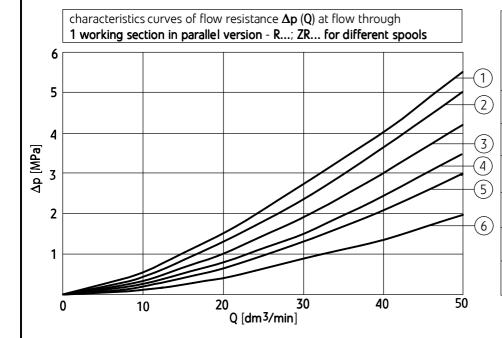
- possibility of mounting in assembly of working serial sections 2 and 3-position in version **S...**
- inlet cover options: P...; PR...A1...; PR...A2...; T1 (inlet plate options: PQE...; PQR... not available in this configuration of directional valve)
- closing cover option **TT...**



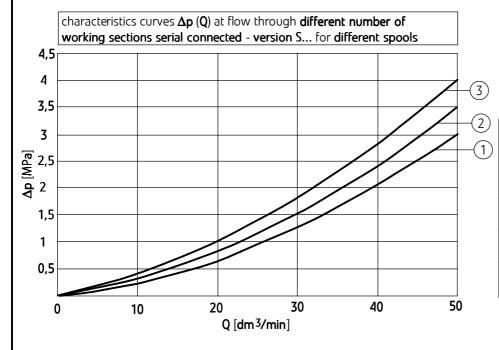
PERFORMANCE CURVES

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

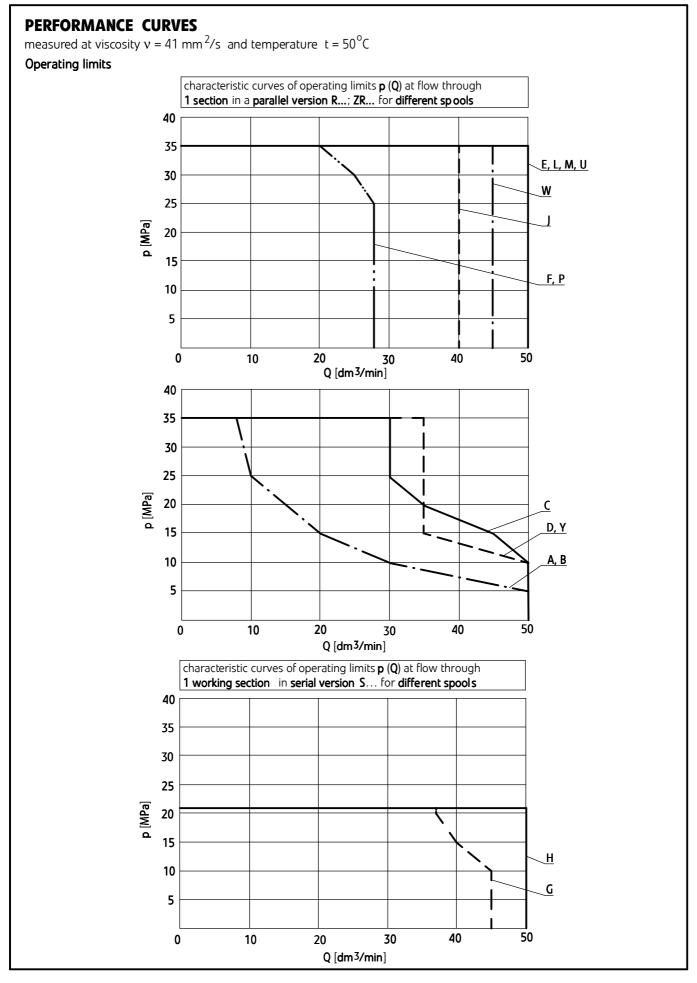
Flow resistance curves



type of spool	number/ version of section flow direction	characteristic curve no.
G	1 section R $P \rightarrow A \rightarrow B \rightarrow T$	1
J	1 section ZR $P \rightarrow A \rightarrow B \rightarrow T$	2
D, Y, F, P	1 section R $P \rightarrow A \rightarrow B \rightarrow T$	3
J, L, M, W	1 section R $P \rightarrow A \rightarrow B \rightarrow T$	4
E, H, M	1 section R $P \rightarrow A \rightarrow B \rightarrow T$	5
A, B	1 section R $P \rightarrow A \rightarrow P \rightarrow B$	6

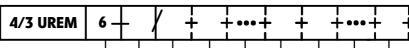


type of spool	number/ version of section flow direction	characteristic curve no.
G, H	1 section S P → T	1
G, H	2 sections S $P \rightarrow T$	2
G, H	5 sections S P → T	3



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How to order a complete directional valve



Nominal size (NS)

NS6

Series number

(12-19) - connection and installation dimensions

unchanged = 1X= 12

series 12

Inlet/closing cover* - left side

inlet cover without pressure setting = T... - acc. to page 17 inlet cover with pressure setting

= P ... - acc. to page 17 inlet cover with pressure setting and unloading = PR...- acc. to page 17

= 6

closing cover (*) – available only when selected

the directional valve version with inlet middle plate

(options PQE...; PQR...) = Z1 - acc. to page 23

Designation of a single section from left side/of priority stream

(possible mounting in a section assembly only in the same version - parallel and serial - for version with inlet cover - options: T...; P... PR...

mounted from cover on left side for version with inlet middle plate - options:

PQE...; **PQR...** mounted on priority stream side of inlet middle side) enter code of single section - acc. to page 13

Coding of next sections

Re-enter coding from the box above: *Designation of single section*...**

total number of sections from left side - max 8

Inlet middle plate with a stream division

(possible mounting of working sections - only in parallel version from

one or both sides of plate - available only when selected

one option of inlet cover: T...; P...; PR...)

adjustment manually electrically proportionally operated = PQE... - acc. to page 20

manual override = PQR... - acc. to page 20

Designation of a single section from right side/residual stream (bypass)

Only in case of selection of version with a stream division with inlet middle plate - options: <u>PQE...; PQR... - possible mounting in section assembly only in parallel version</u> - this option

does not occur in versions of directional valves with inlet cover – options: T... P... PR...)

enter code of single section

- acc. to page 13

Coding of next sections

Re-enter coding from heading: *Designation of single section...***

total number of sections from right side - max 8

Closing cover - right side/of residual stream (bypass)

channel T open (only for directional valves with serial system of connections of working sections

version S...) = TT - acc. to page 23

channel T plugged = TT1 - acc. to page 23

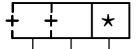
channel T connected with P (only for directional valves in version with stream division with

inlet middle plate - options: PQE...; PQR... without section on

side of residual stream (bypass), mounting screws do not code) = TT2 - acc. to page 23

(**) - in the case of successive sections with the same code, it is recommended to quote their number (multiplicity) ahead of the section code (e.g. on p. 33).

How to order complete a directional valve



Further requirements in dear text

(to be agreed with the manufacturer)

Mounting screws from side of closing covers TT, TT1 - right side*

(3 pcs /set - for directional valves with inlet covers - options: T...; P...; PR...

for mounting of working sections (1, 2, 3, ..., n, ..., max 8) = SRB n - acc. to page 24 NOTE:

(*) - screws fixing the closing cover - option TT2 are included in the cover set

Mounting screws from side of closing cover Z1 - left side

(3 pcs/set - only for directional valve with stream division with inlet middle plate options: PQE...; PQR... with working sections on side of residual stream (bypass)

for mounting of working sections numbers (1, 2, 3, ...,n, ...,max 8) = SRB n - acc. to page 24

NOTES:

The valve should be ordered according to the above coding.

Examples of complete coding of sectional valves setting for order:

- 3-section directional valve with inlet cover P with pressure regulation range up to 20 MPa; working sections parallely connected in version R... and ZR...with different spools, controlled with solenoid of voltage 24V with plugs type ISO 4400 without LED and buttons of manual override, closing cover TT1, mounting screws SRB3; assembly sequence from left side inlet cover P... + section 3-position with a lock ZR... with a spool J + 2 sections 3-position without a lock R... with spool E: 4/3UREM6 12/P 200 + ZR J G24 N Z4 + R E G24 N Z4 + TT1 + SRB3
- 4 section directional valve with inlet middle plate with stream division equipped with electrically, proportionally operated PQE with pressure setting range up to 20 MPa and flow setting range up to 50 dm³/min; working sections parallely connected in versions R... and ZR...with different spools, operated with solenoids of voltage 24V with plugs type ISO 4400 without LED and with buttons of manual override, closing covers on left side Z1, on right side TT1, mounting screws on left SRB1;

assembly sequence - closing cover **Z1** + **1** section **3** - position with a lock **ZR**... with a spool **J** (on left side of middle plate **PQE**...) + inlet middle plate **PQE**...+ **3** sections **3**-position without a lock **R**...with a spool **E** + closing cover **TT1** (on the right side of middle plate **PQE**...):

4/3UREM6 -12/Z1 + ZR J G24 N Z4 + PQE 200 - 50 A + **R E G24 N Z4 + R E G24 N Z4 + R E G24 N Z4** + TT1 + SRB1 + SRB3 or (recommended):

4/3UREM6 - 12/Z1 + ZRJ G24 N Z4 + PQE 200 - 50 A + **3 R E G24 N Z4** + TT1 + SRB1 + SRB3

Type 4/3 UREM6 - 33 - WK 423 140 12.2017

How to order a set of subassemblies for valve mounting by customer

Subassemblies for mounting directional valve type 4/3 UREM6 with parallel connection of working sections				
 inlet cover options available: T P (due to limited working pressure option P315 not available) PRA1 PRA2 	working sections total number of sections max 8 available options: • R • ZR	closing cover • TT1	mounting screws • SRB (3 pcs/set)	
enter code of selected option in the column below - acc. to page 17	enter codes of selected options in the column below - acc. to page 13	enter code in the column below - acc. to page 23	enter code in the column below - acc. to page 24	

inlet coveroptions available:T1P	working sections total number of sections max 8 • S	closing cover • TT	mounting screws • SRB (3 pcs/set)
enter code of selected option in the column below - acc. to page 17	enter codes of selected options in the column below - acc. to page 13	enter code in the column below - acc. to page 23	enter code in the column below - acc. to page 24
	•••••		

How to order set of subassemblies for valve mounting by order

closing cover side of priority stream • Z1	working sections - side of priority stream total number of sections - max 8 available options: • R • ZR	inlet middle plate available options: • PQE • PQR	working sections - side of residual stream (bypass) total number of sections - max 8 available options: • R • ZR	closing cover of residual stream (bypass) TT1 TT2 only for version of valves without section on side of residual stream (bypass)	mounting screws (3 pcs./set) • SRB on cover side Z1 (3 pcs/set) • SRB on cover side TT1 (3 pcs/set) - only for version of valves with sections on residual (bypass) stream side
enter code in the column below - acc. to page 23	enter codes of selected options in the columns below - acc. to page 13	enter code of selected option in the column below - acc. to page 20	enter codes of selected options in the columns below - acc. to page 13	enter code of selected option in the column below - acc. to page 23	enter code of selected option in the column below - acc. to page 24

PONAR Wadowice S.A. ul. Wojska Polskiego 29 34-100 Wadowice tel. +48 33 488 21 00	PONAR wadowice