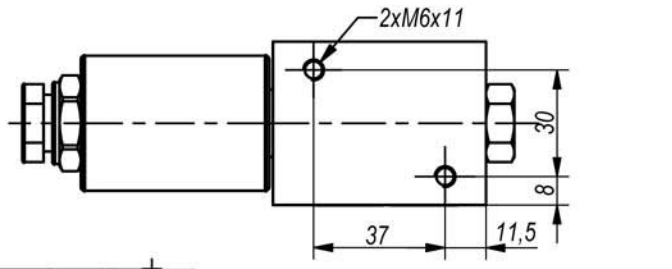
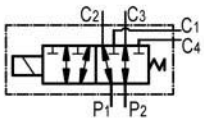
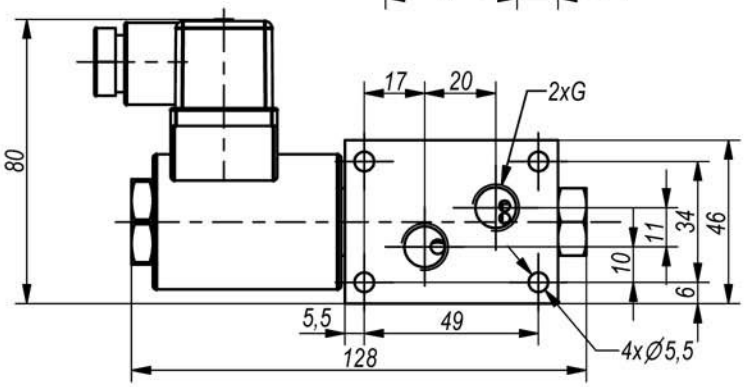
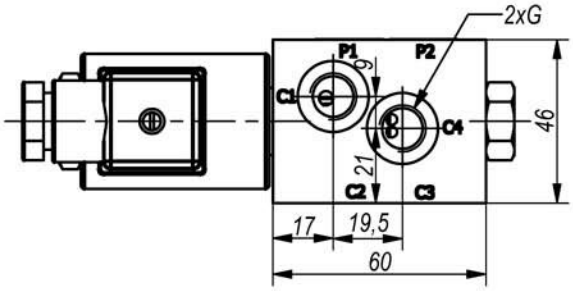
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

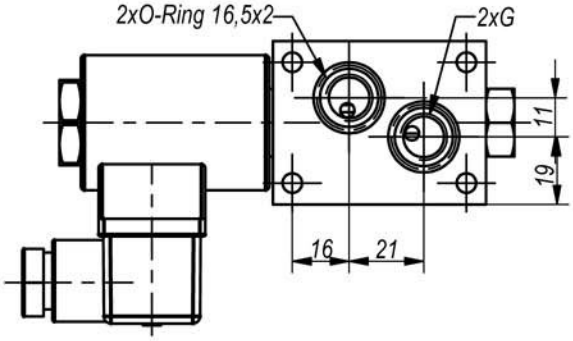
. RS04 .. / ..











Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 20 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	10
Hydraulic fluid – mineral oil		
- viscosity	mm²/s	10…100
- filtration level	µm	25 or better
- temperature	°C	-20…80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

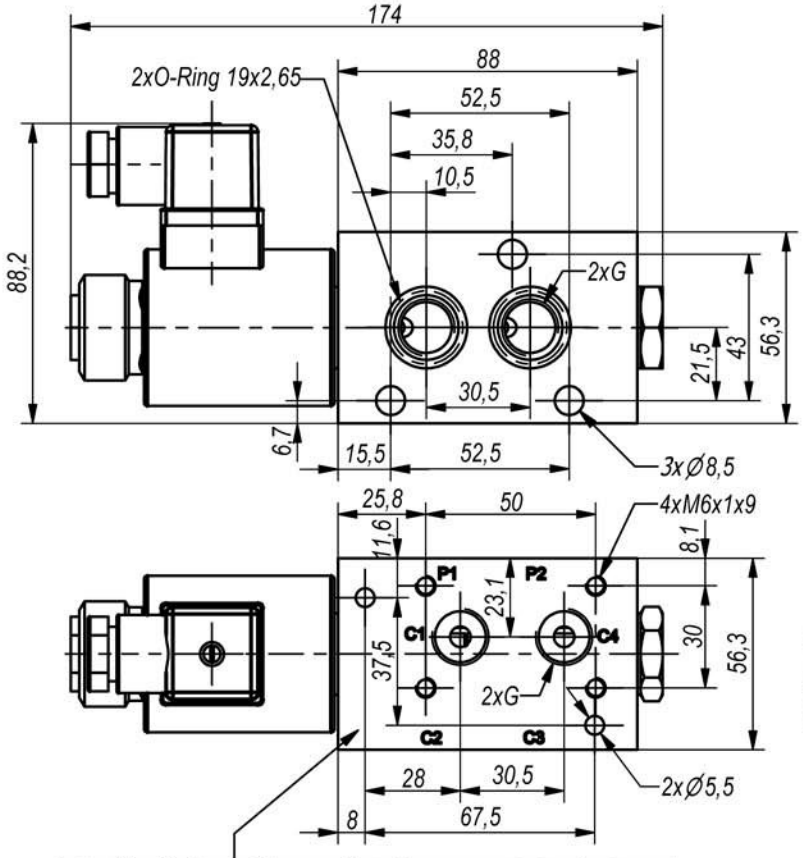
ORDERING CODE

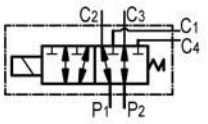
. **RS04** **14** / **12**

Nomber of sections: **2,3,4** One section: **Omit**	Type	Port threads "G" - code: **G1/4" - 14**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**

6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

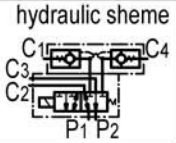
. RS06 V .. / ..

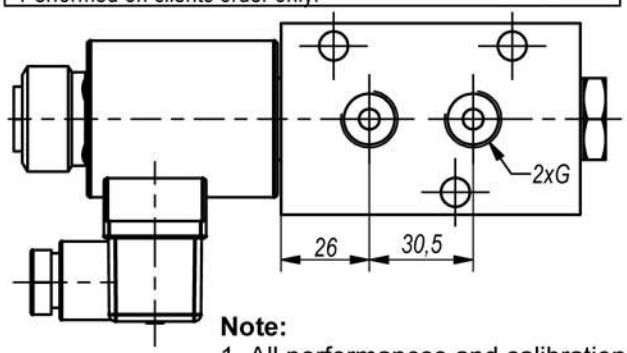


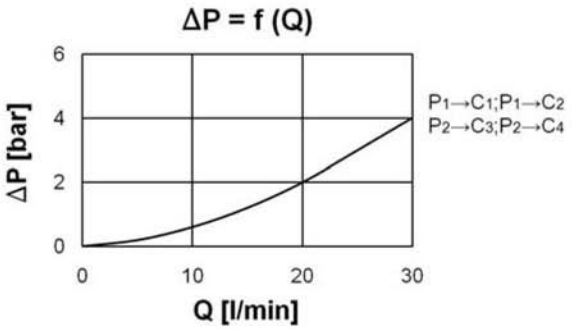


On this side it possible manufacturing of mounting openings for valve VBD R 38 (for more information see the hydraulic sheme and page ...). Performed on clients order only.

hydraulic sheme







Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 25 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	30
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…+80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

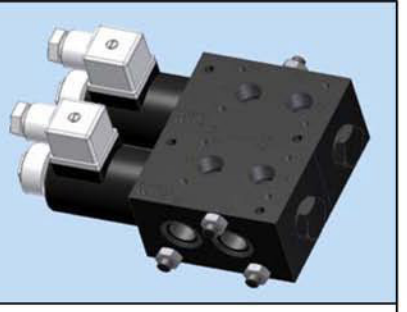
ORDERING CODE

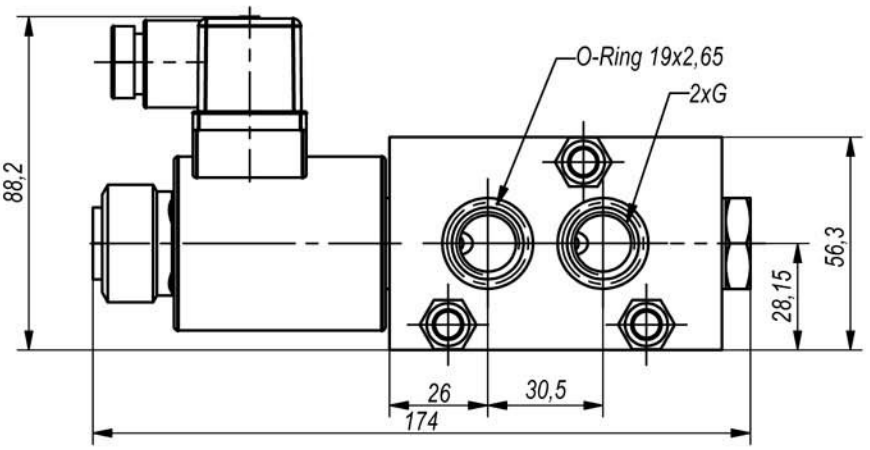
. RS06 V 38 / 12

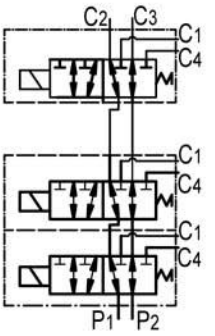
Nomber of sections: **2...8** (design see pege 1.3) One section: **Omit**	Type	Port threads "G" - code: **G3/8" - 38** **G1/2" - 12**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**

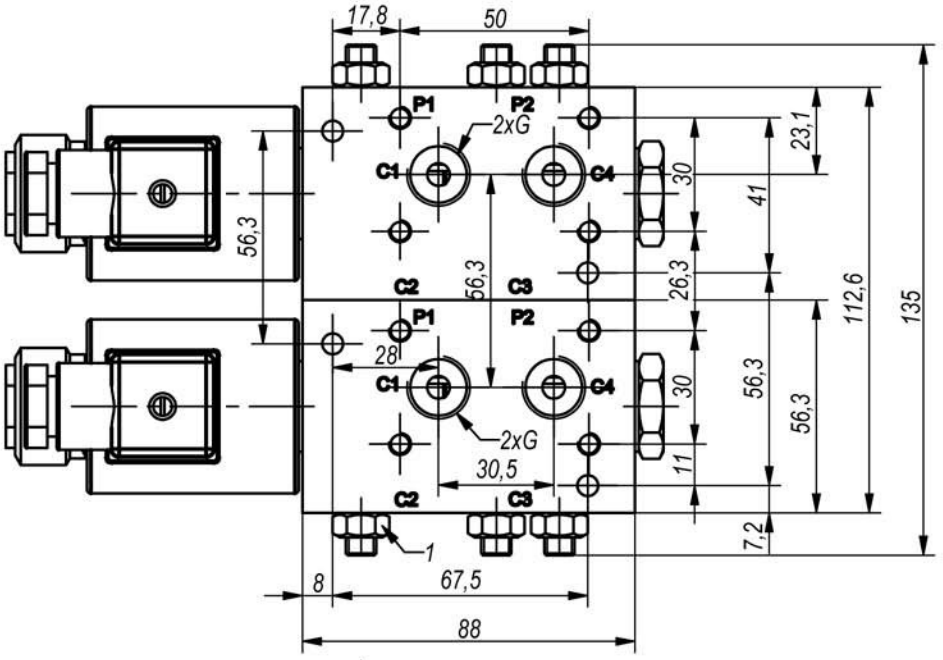
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

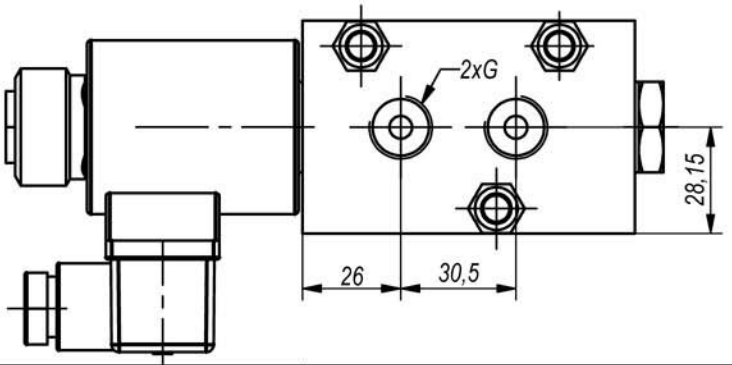
. RS06 V .. / ..











Note:
1.It is possible to make blocks with up 10 directional control valves. A block with 2 valves is shown.
2. Technical data see page 1.3.
3. Tightening torque for solenoid - 25 N.m.
4. Tightening torque for nuts position 1 - 20...23 N.m.

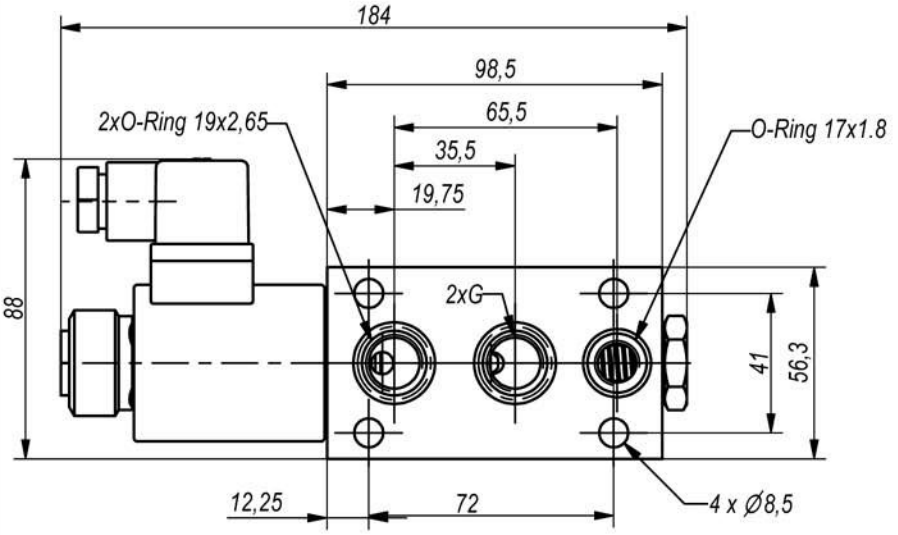
ORDERING CODE

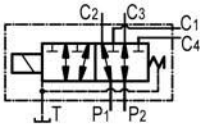
2 RS06 V 38 / 12

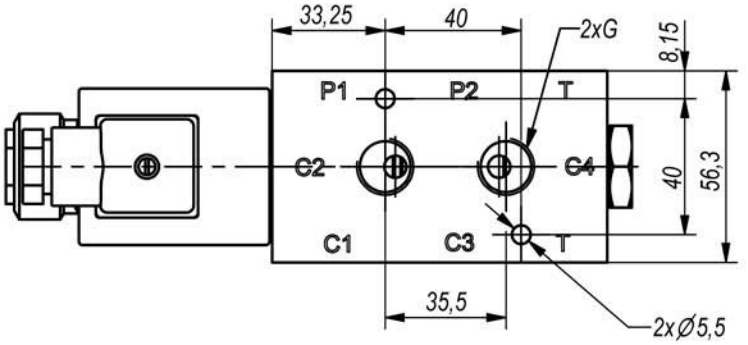
Nomber of sections: **2...10**	Type	Port threads "G" - code: **G3/8" - 38** **G1/2" - 12**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**

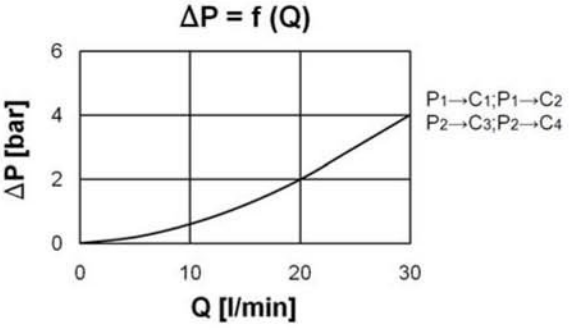
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

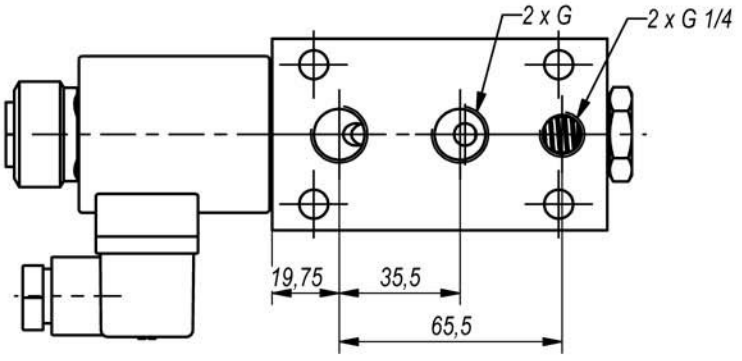
. RS06 T 38/ ..











Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 25 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	30
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…+80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

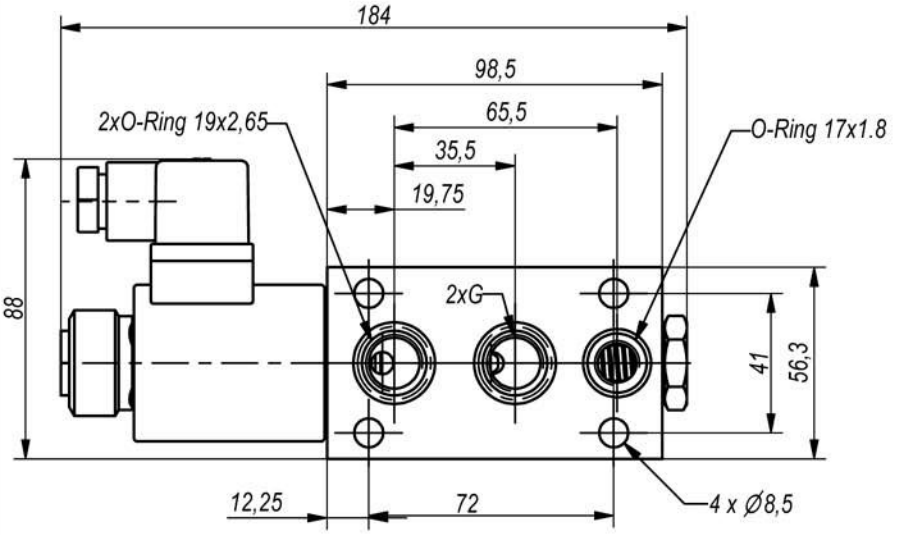
ORDERING CODE

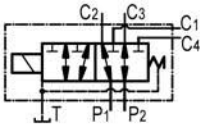
. RS06 T 38 / 12

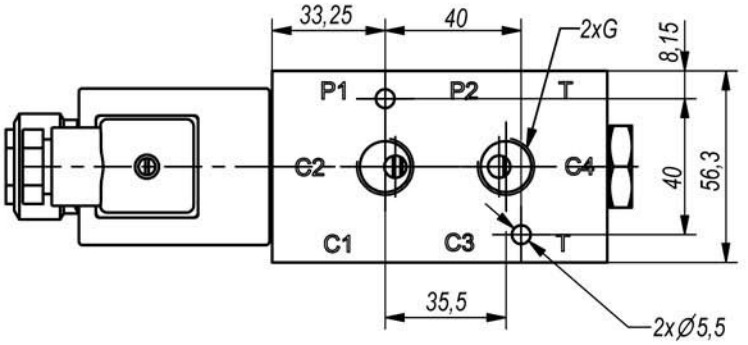
Nomber of sections: **2,3,4** One section: **Omit**	Type	Port threads"G" - code: G3/8" - 38	Operating voltage - code: 12V / 00Hz - 12 24V / 00Hz - 24 110/50Hz - 110 220/50Hz - 220

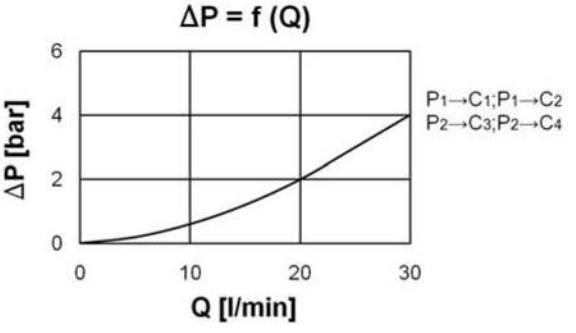
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

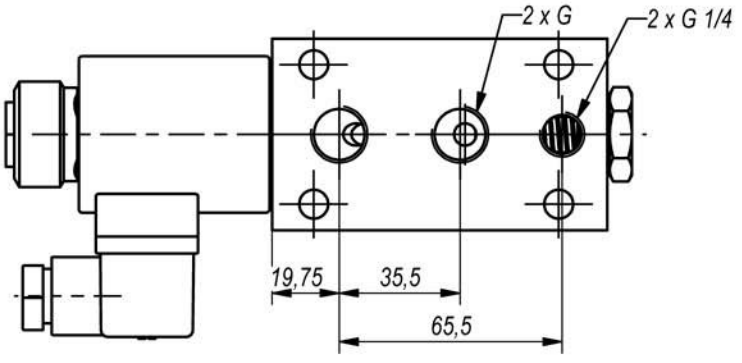
. RS06 T 38/ ..











Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 25 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	30
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…+80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

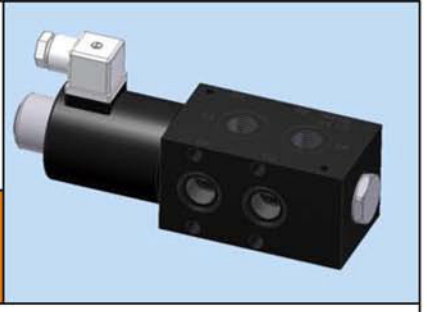
ORDERING CODE

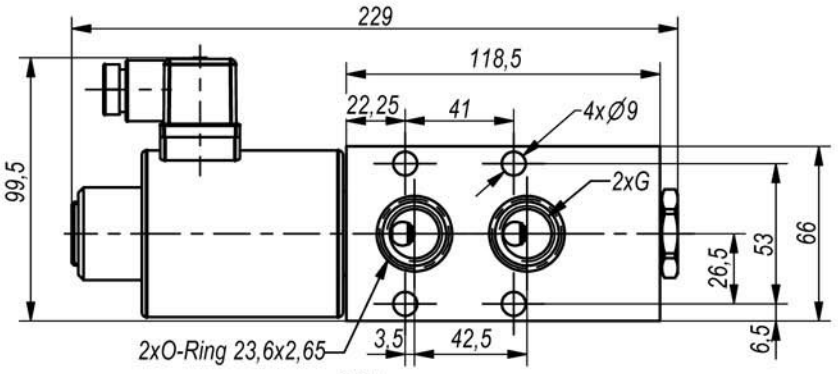
. RS06 T 38 / 12

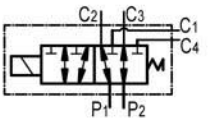
Nomber of sections: **2,3,4** One section: **Omit**	Type	Port threads"G" - code: G3/8" - 38	Operating voltage - code: 12V / 00Hz - 12 24V / 00Hz - 24 110/50Hz - 110 220/50Hz - 220

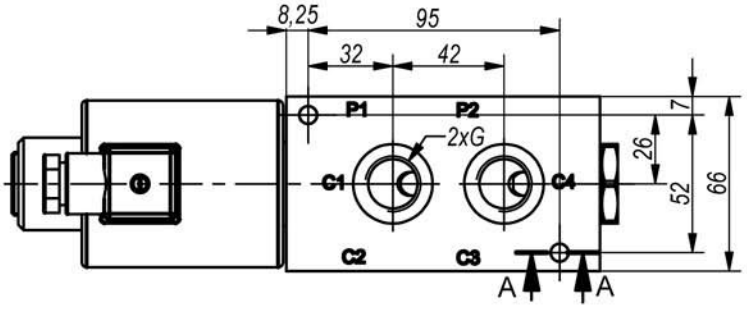
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

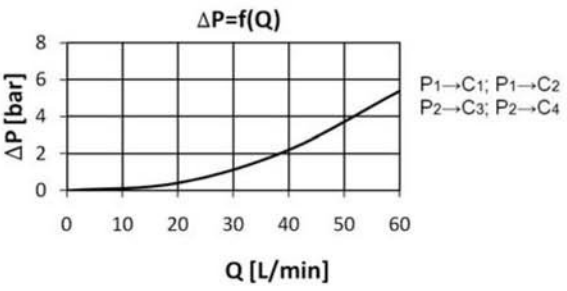
. RS10 .. / ..

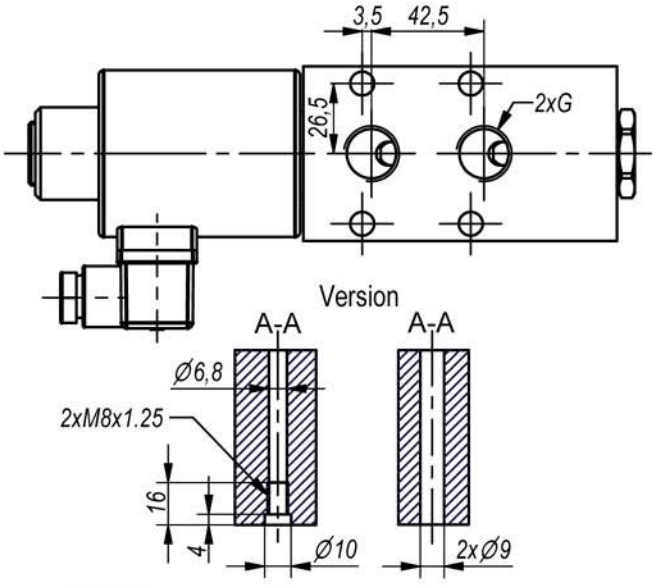












Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 30 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	50
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

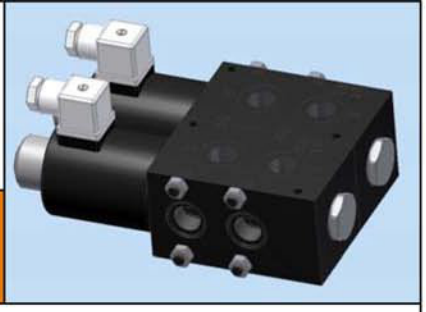
ORDERING CODE

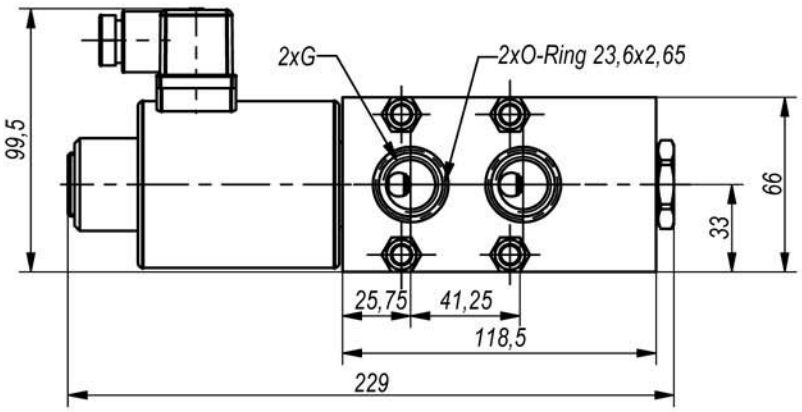
. **RS10** .. / **12** .

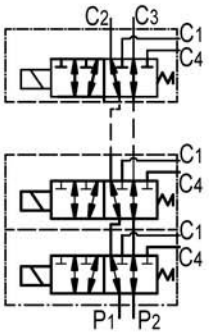
Nomber of sections: **2,3,4** One section: **Omit**	Type	Port threads "G" - code **G1/2" - omit**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**	Version - code: **2xM8 - omit** **2xØ9 - B**

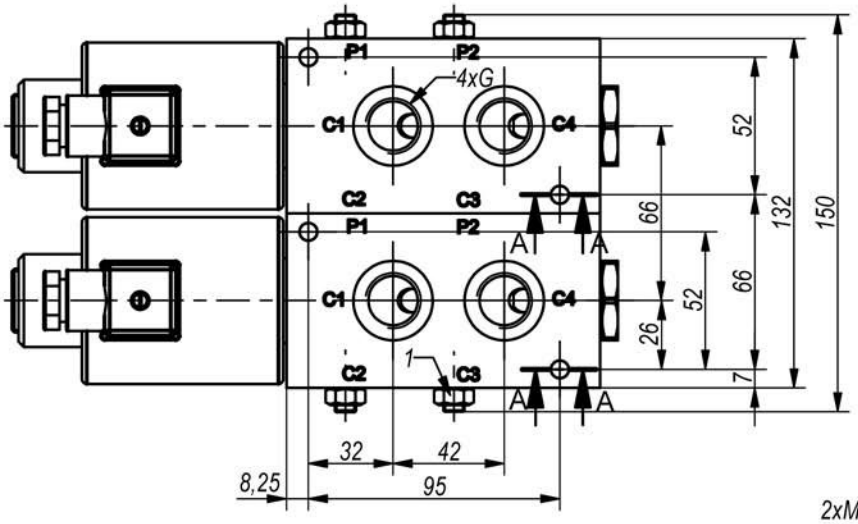
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

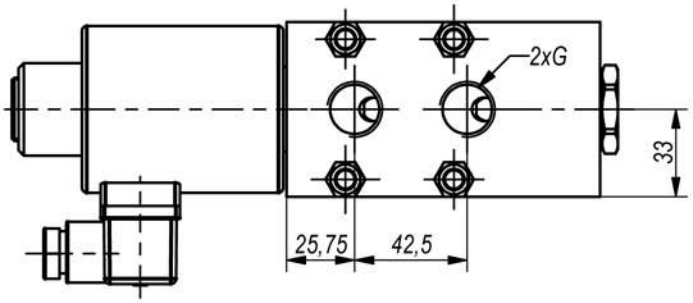
. RS10 .. / ..



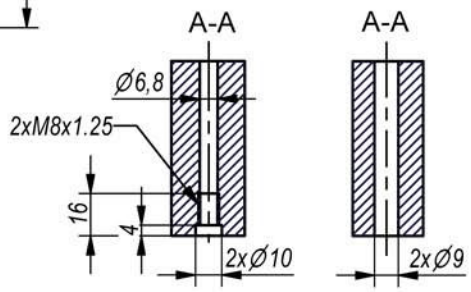








Version



Note:
1.It is possible to make blocks with up 10 directional control valves. A block with 2 valves is shown.
2. Technical data see page 1.7.
3. Tightening torque for solenoid - 30 N.m.
4. Tightening torque for nuts position 1 - 20...23 N.m.

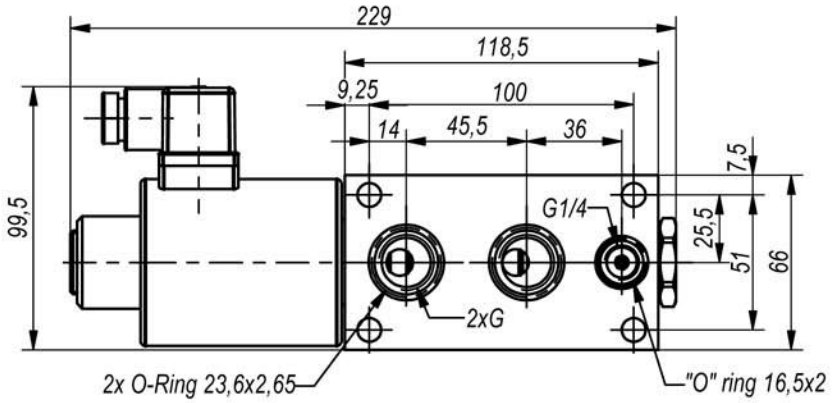
ORDERING CODE

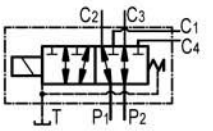
2 RS10 .. / 12 B

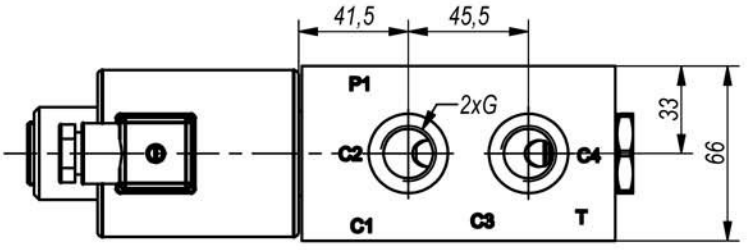
Nomber of sections: **2,3,4** One section: **Omit**	Type	Port threads "G" - code **G1/2" - omit**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**	Version - code: **2xM8 - omit** **2xØ9 - B**

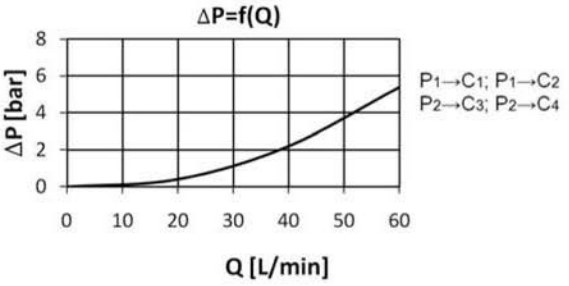
6/2 DIRECTIONAL SOLENOID-OPERATED VALVE

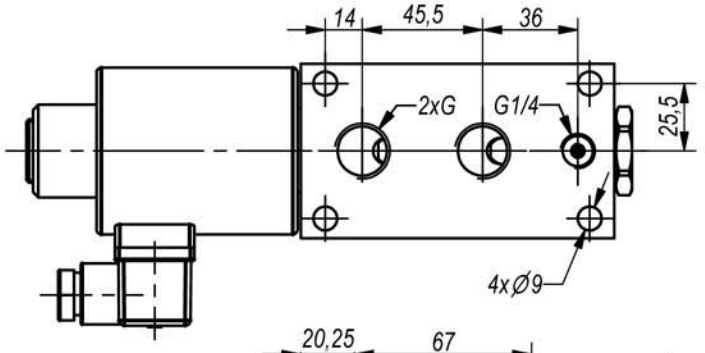
. RS10T .. / ..

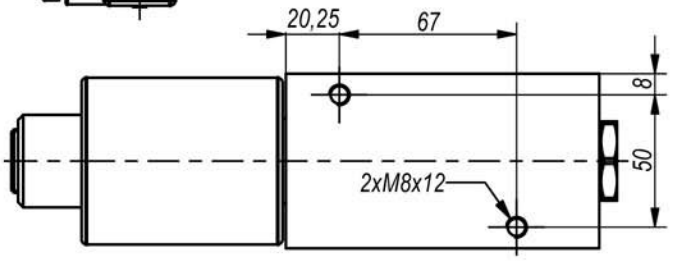












Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 30 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	50
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…+80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

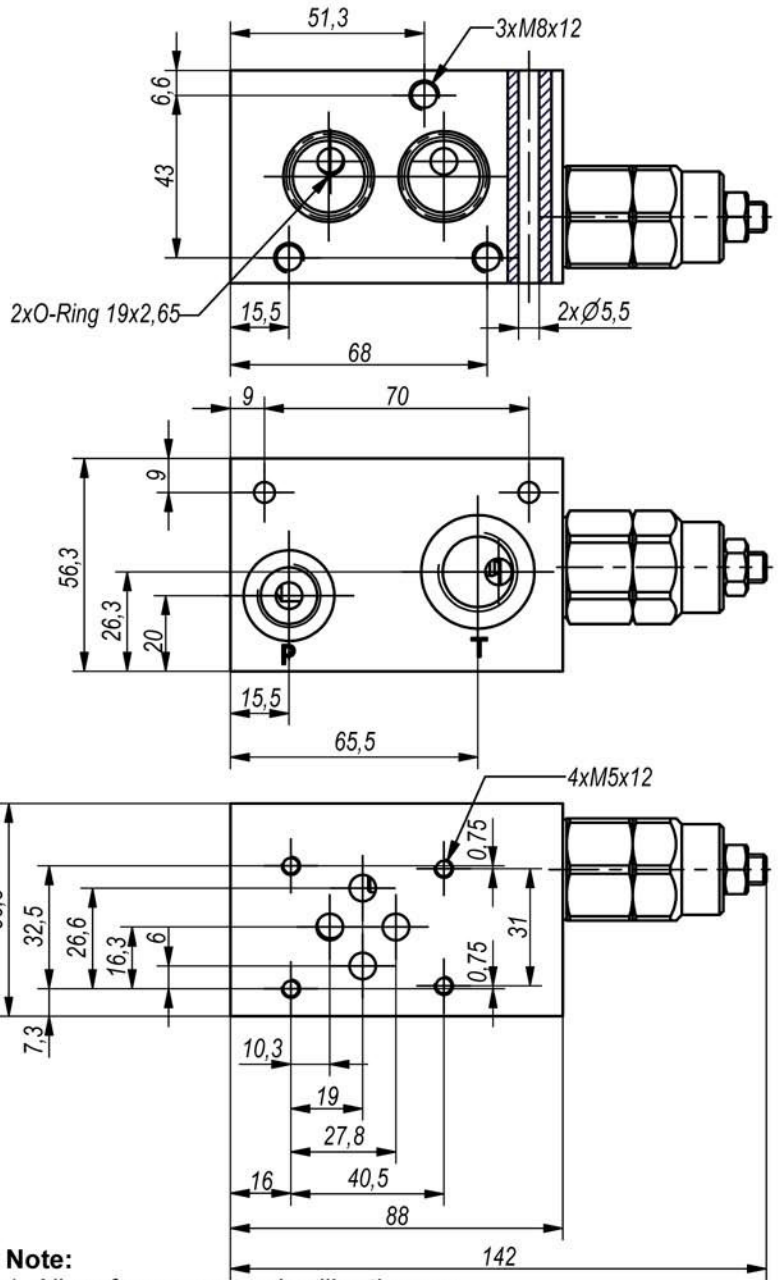
ORDERING CODE

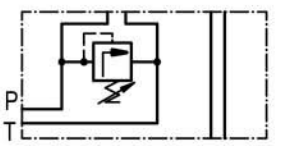
. RS10T 12 / 12

Nomber of sections: **2,3,4** One section: **Omit**	Type	Port threads "G" - code **G1/2" - 12**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**

DIRECTIONAL SOLENOID-OPERATED VALVE
ACCESSORY - VALVE BLOCK

BV 99 / ..





TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Maximal pressure	bar	350
Pressure range		See tab.1
Maximal flow rate	L/min	40
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…80

Tab. 1

PRESSURE RANGE		
Code	Standard setting (Q=5l/min) [bar]	Adjustment pressure [bar]
10	80	10…100
25	180	30…250
35	250	70…350

Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Mounting plate:
- acc. to ISO 4401-AB-03-4A (CETOP3)
3. Tightening torque of connecting screws on the mounting plate - 8,5 N.m.

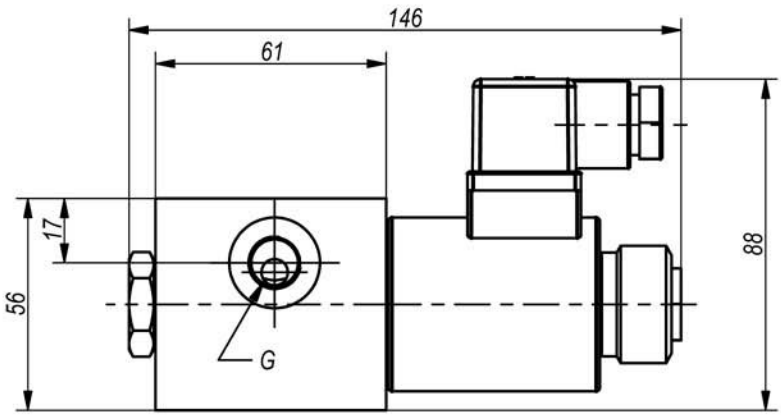
ORDERING CODE

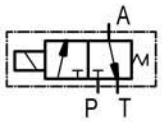
BV 99 / 10

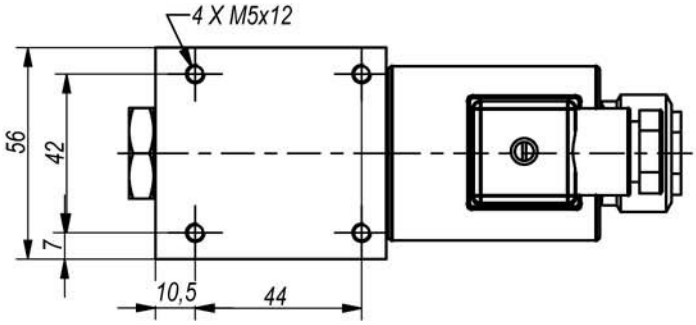
- BV 99 / : Type
- 10 : Pressure range - code: **see tab. 1**

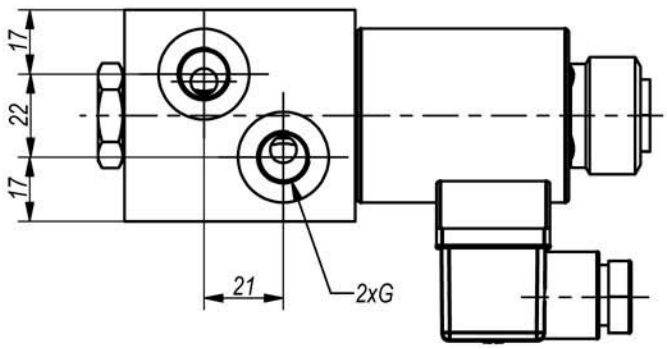
3/2 DIRECTIONAL SOLENOID-OPERATED VALVE

RHB06- .. / ... .









TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Nominal pressure	bar	200
Nominal flow rate	L/min	30
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20..80
Elektrical		
Voltage of operating solenoid	V DC	12 24
	V AC	110/50Hz 220/50Hz

Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Tightening torque for solenoid - 25 N.m.

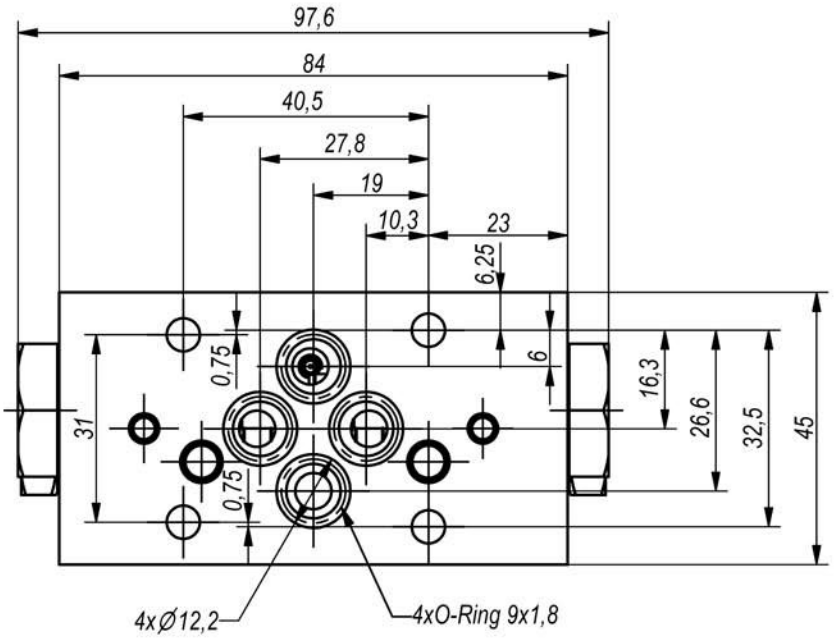
ORDERING CODE

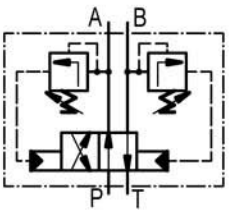
RHB06 - .. / 12 P

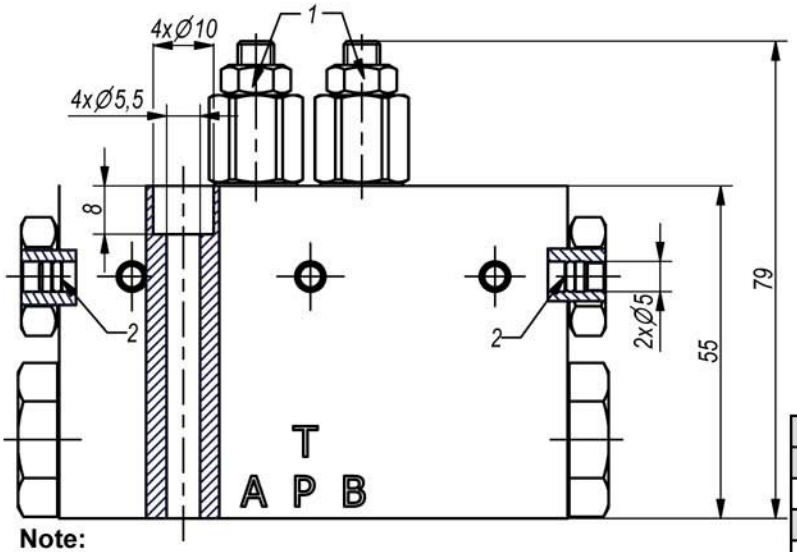
Type	Port threads "G" - code: **M14x1,5 - omit** **G3/8" - 38**	Operating voltage - code: **12V / 00Hz - 12** **24V / 00Hz - 24** **110V/50Hz - 110** **220V/50Hz - 220**	Version - code

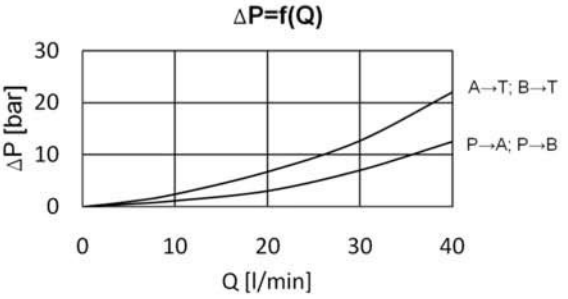
HYDRAULIC DIRECTIONAL VALVE WITH AUTOMATIC SWITCHING

4/2 RHA06/20









Note:

1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Initial switching of directional control valve - by push pins position 2.
3. Mounting plate:
   - acc. to ISO 4401-AB-03-4A (CETOP3)
4. Tightening torque of connecting screws on the mounting plate - 8,5 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Working pressure P_w	bar	50..200
Pressure adjustment of relief valves position 1		P_w+10%P_w
Flow rate	L/min	3..40
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20..80

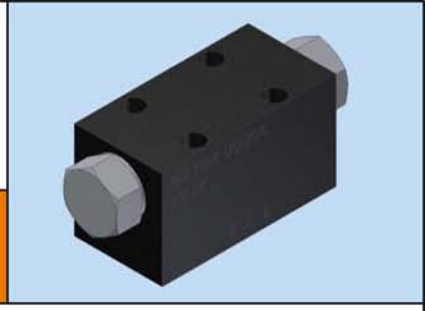
ORDERING CODE

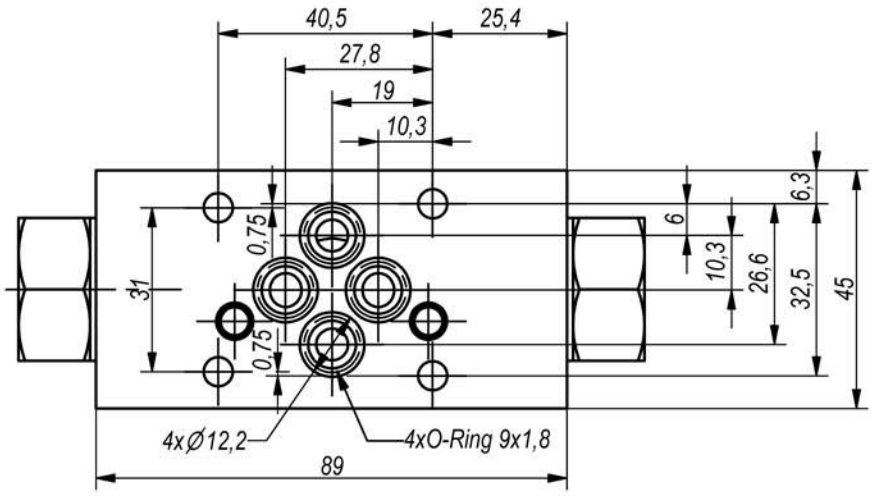
4/2 RHA06 / 20

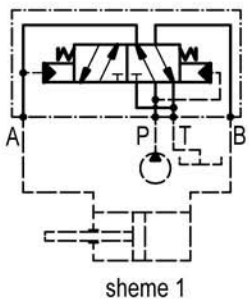
- 4/2 RHA06 — Type
- 20 — Working pressure - code: **50...200 bar - 20**

HYDRAULIC DIRECTIONAL VALVE WITH AUTOMATIC SWITCHING

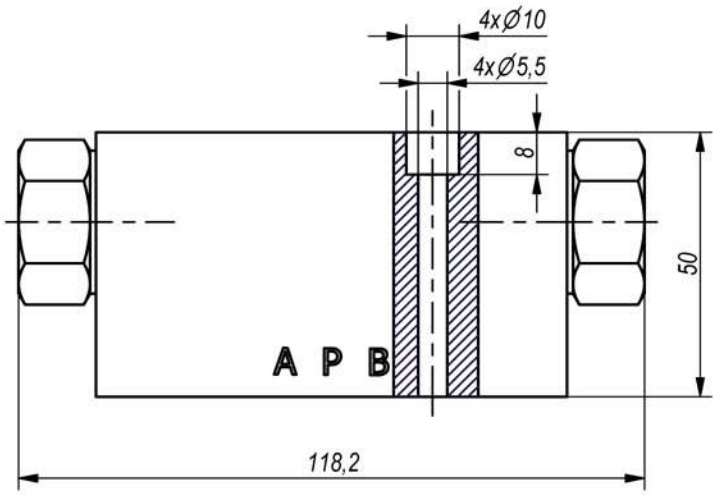
4/2 RHA06/20.

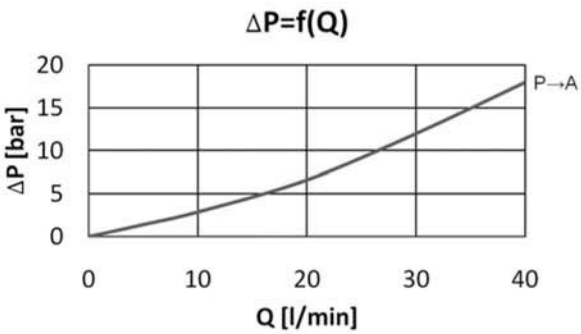






sheme 1





TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Working pressure	bar	20…200
Flow rate	L/min	3…30
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20…+80

Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Mounting plate:
- acc. to ISO 4401-AB-03-4A (CETOP3)
3. Tightening torque of connecting screws on the mounting plate - 8,5 N.m.

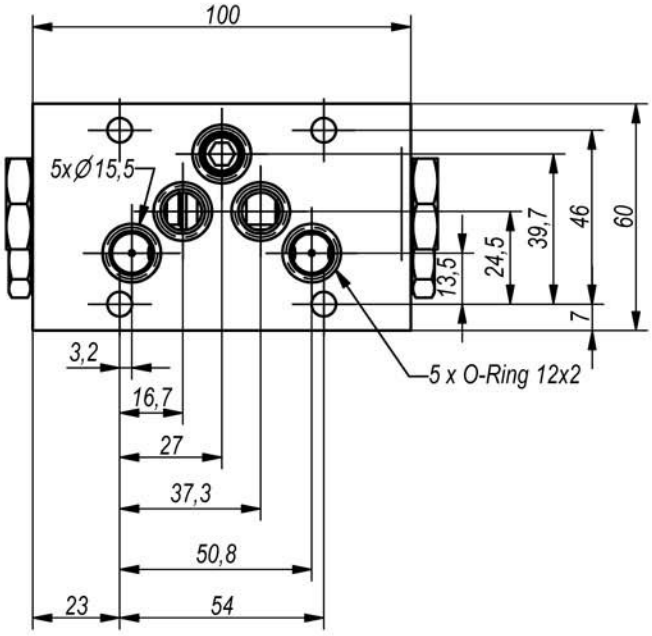
ORDERING CODE

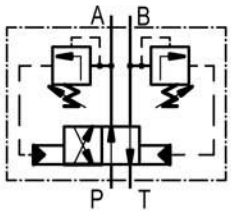
4/2 RHA06 / 20 A

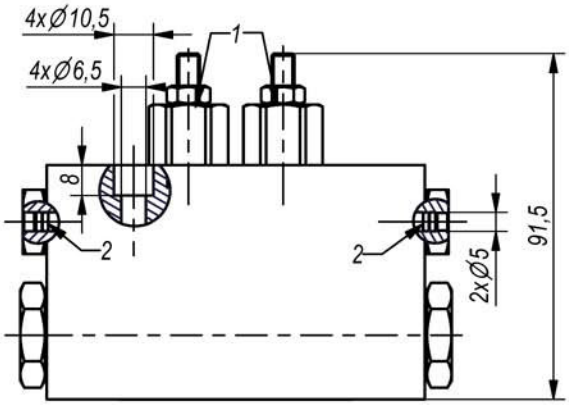
Type	Working pressure - code: **50...200 bar - 20**	Version - code: A - see sheme 1

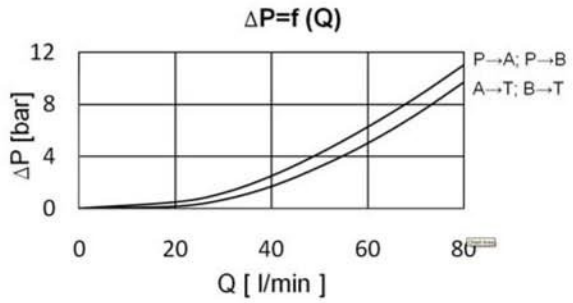
HYDRAULIC DIRECTIONAL VALVE WITH AUTOMATIC SWITCHING

4/2 RHA10/20









Note:
1. All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C.
2. Initial switching of directional control valve - by push pins position 2.
3. Mounting plate:
- acc. to ISO 4401-AB-05-4A (CETOP5)
4. Tightening torque of connecting screws on the mounting plate - 14 N.m.

TECHNICAL DATA		
General		
Ambient temperature	°C	-20…+50
Hydraulic		
Working pressure P_w	bar	50..200
Pressure adjustment of relief valves position 1		P_w+10%P_w
Flow rate	L/min	3..80
Working fluid – mineral oil		
- viscosity	mm^2/s	10…100
- filtration level	μm	25 or better
- temperature	°C	-20..80

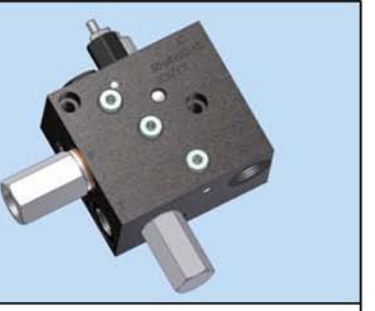
ORDERING CODE

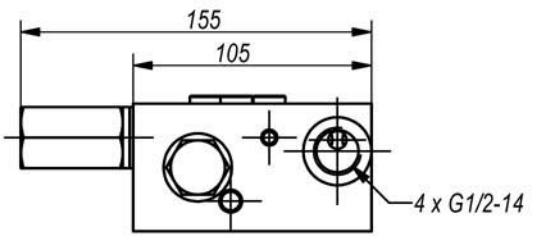
4/2 RHA10 / 20

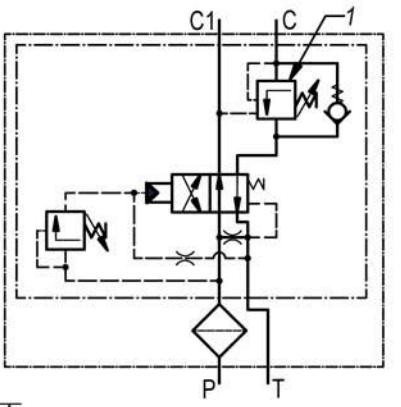
- Type
- Working pressure - code: **50...200 bar - 20**

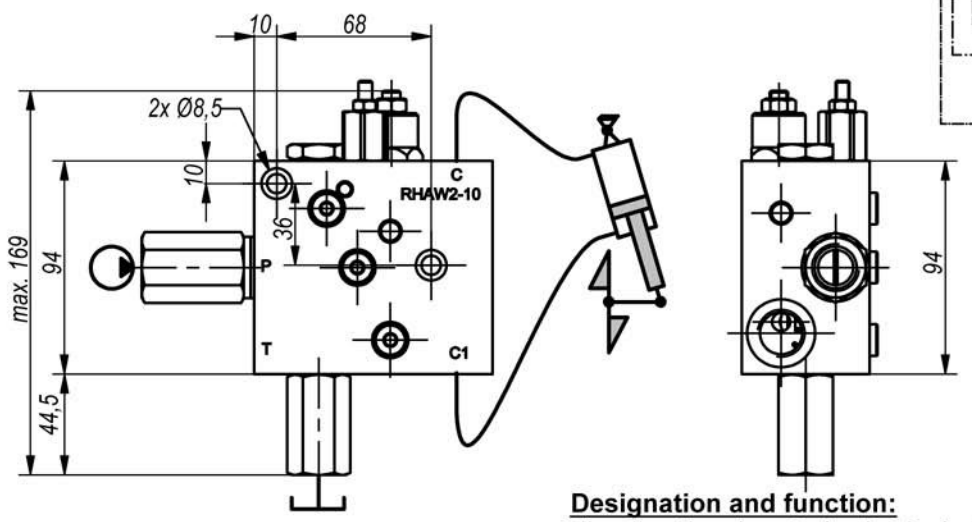
HYDRAULIC DIRECTIONAL CONTROL VALVE WITH AUTOMATIC SWITCHING

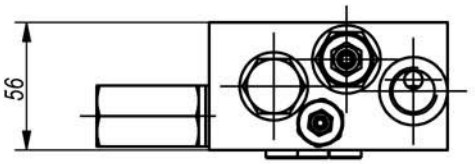
RHAW2-10







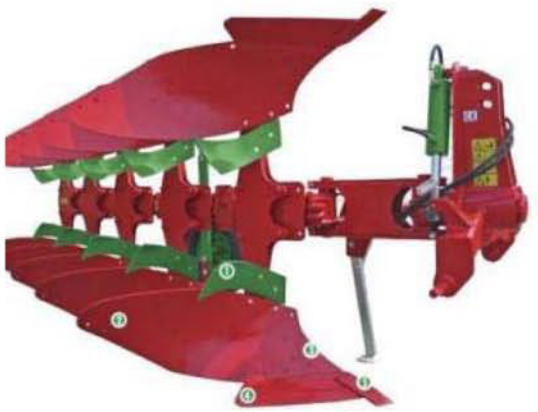




Note: All performances and calibration are carried out by using hydraulic oil with viscosity approx 46 cSt at 50 °C

Designation and function:

The directional control valve is designed to control the flow of the oil, actuating the hydraulic cylinder for turning a tractor-driven plough. When a flow is fed to the port P of the block, the cylinder makes one full cycle of retraction and extension and keeps hydraulically locked, despite the fact that there is pressure at the input port. It is necessary to wait for 3-4 seconds after the feed of the flow stops, till the next action, in order to restore the position of the switching spool in the directional control valve. On the next flow feed the cycle repeats itself.



TECHNICAL DATA		
General		
Ambient temperature	°C	-20...+50
Hydraulic		
Maximum pressure	bar.	200
Supply flow range	L/min	10...50
Control range of the switching pressure	bar.	50...200
Adjustment range of the overcenter valve (OWC-pos.1)	bar.	100...250
Working fluid – mineral oil		
- viscosity	mm^2/s	10...100
- filtration level	μm	25 or better
- temperature	°C	-20...+80

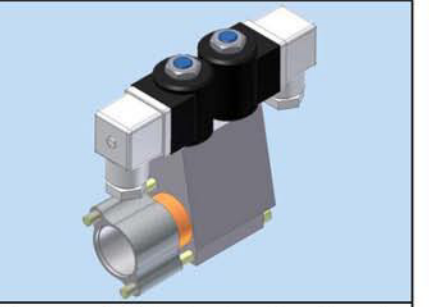
ORDERING CODE

RHAW2-10

Type

ELECTRO-HYDRAULIC OPERATING UNIT

EHO..-..



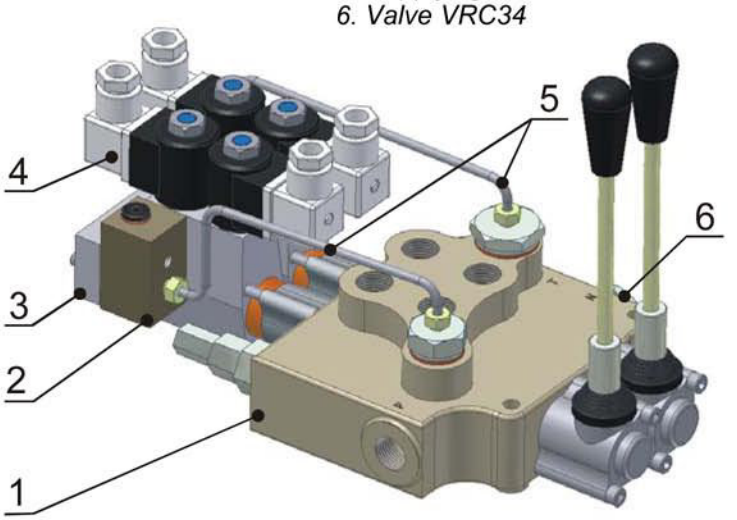
The electro-hydraulic operating unit **EHO…** is designed for coupling to manually operated, hydraulic directional control valves of the **P40** and **P80** types, which are produced by the Bulgarian company BADESHTNOST AD, as an additional option for electric operation. It can be mounted on a monoblock or sectional implementation, with no limit to the number of the sections. It is fixed by two screws M6 at the place of the decorative cap, closing the spring package of the section. The existing screw, which holds the spring, is removed and the connector of the unit is screwed on its place. The hydraulic inlets and outlets of all the sections are joined together by a strip, which is fixed by two screws to each section.

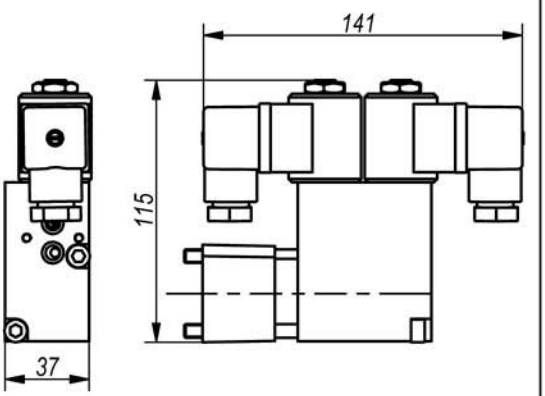
The oil supply can be realized in two ways:

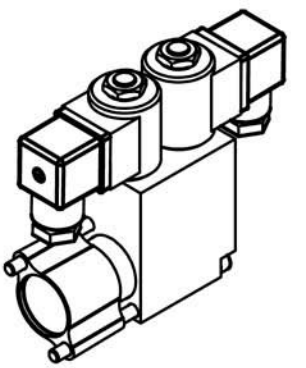
- from external source with pressure between 10 to 20 bar;
- from the flow which supplies the directional control valve. For that purpose, some flow is directed from one of the inlets **P**, by a pipe and a nipple to a reducing valve, mounted on the collector and providing the necessary supply pressure. The outlet line is connected to the free outlet **T** of the directional control valve by a special transient nipple. The connections are made by ø8 steel tubes. To provide minimum pressure of 10 bar in the case of non-operating (unloaded) directional control valve, a back pressure valve **VRC34** is mounted in the seat **N**, designed to maintain the minimum pressure during the running of the flow.

The electro-hydraulic operating unit is shown below, mounted on a double monoblock directional control valve P80 with own supply.

1. *Directional control valve 2R80…*
2. *Reducing valve*
3. Collector
4. *Operating units EHO…*
5. Supplying tubes
6. *Valve VRC34*







Technical characteristics of EHO.R..-..		
Supply pressure	*bar*	min.10 max.20
Maximum pressure in the outlet line of the directional control valve	*bar*	20
Supply voltage	*V*	12, 24 VDC; 220 VAC
Consumption per 1 solenoid	*W*	18
Type of the basic directional control valve		P40; P80

ORDERING CODE

EHO 2 R80 - 12

Type	Number of sections : **1...**	Type of the directional control valve : **R40, R80**	Supply voltage : **12, 24, 220**