

I20205 - I20705 - V20139 - V20661 - V30361 - V30662

Warnings

- ⚠ This instruction is an integral part of the booklet of the appliance on which the kit is installed. Please consult this booklet for general warnings and fundamental safety rules.
- ⚠ For a rapid and right assembly of the components follow carefully the sequences described in the various sections.
- ⚠ To avoid penalising the performance of the system the water inlet and outlet must be as indicated in the various figures.

List of accessories

- I20205 - 2-way manual valve unit for SL, SLI
- I20705 - 2-way manual valve unit for SLS
- V20139 - 2-way valve unit (inlet valve and lockshields) with thermo-electric head for SL, SLI, RS
- V20661 - 2-way valve unit (inlet valve and lockshields) with thermo-electric head for SLS
- V30361 - 3-way deviator valve unit with thermo-electric head for SL, SLI, RS
- V30662 - 3-way deviator valve unit with thermo-electric head for SLS

Predisposition

Pipeline diameter

The minimum internal diameter that must be respected for the pipelines of the hydraulic connections varies according to the model:

	m.u.	200	400	600	800	1000
Pipeline diameter	mm	12	14	16	18	20

Side opening

To access the hydraulic connections side:

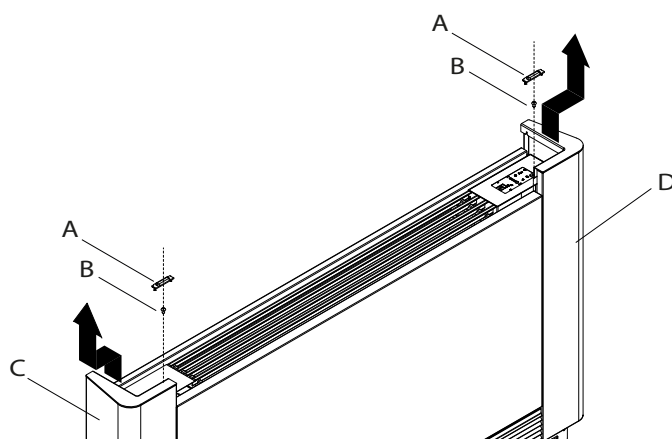
- dismount the upper grill by unscrewing the two fixing screws

Side opening:

- lift the cover that protects the screw
- unscrew the screw that fixes the side panel
- move it slightly outwards
- lift it up

- A** screws cover
B fixing screws

- C** left side
D right side



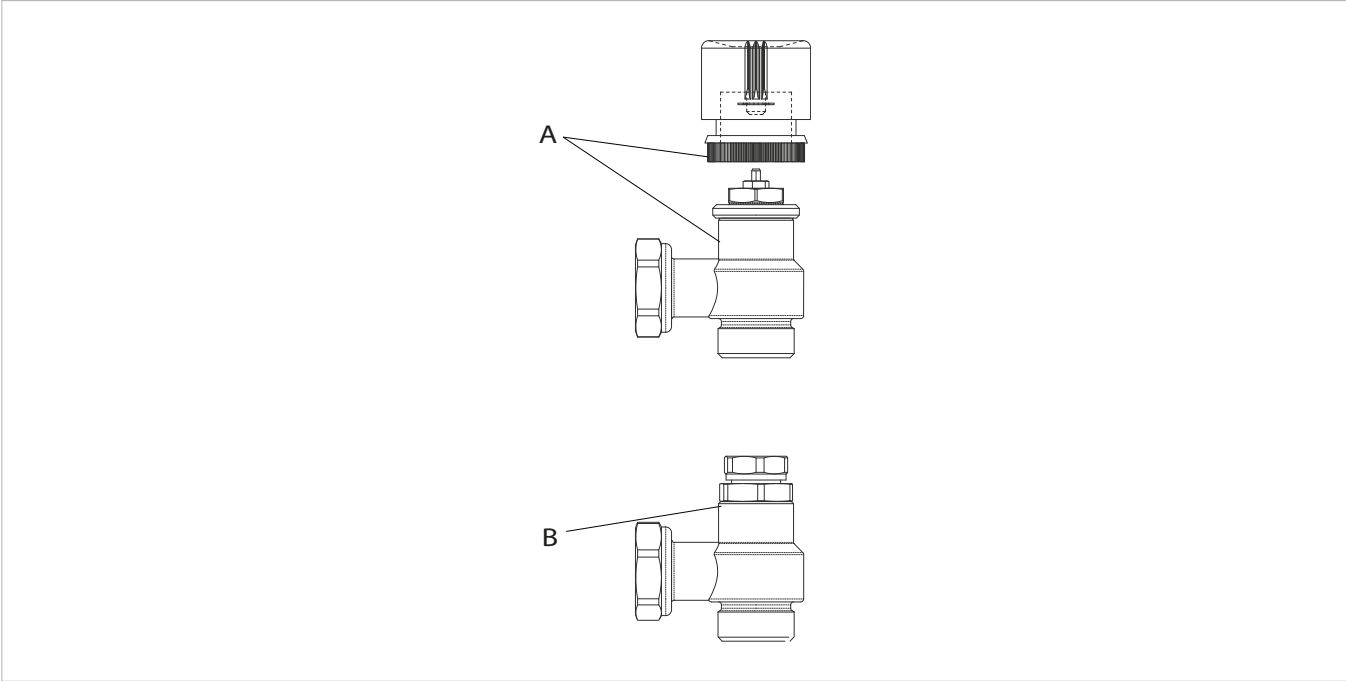
2-way valve kit

2-Way manual valve kit (I20205 - I20705)

2-Way manual valve kit (I20205) is composed by:

- 1 manual closing valve
- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses

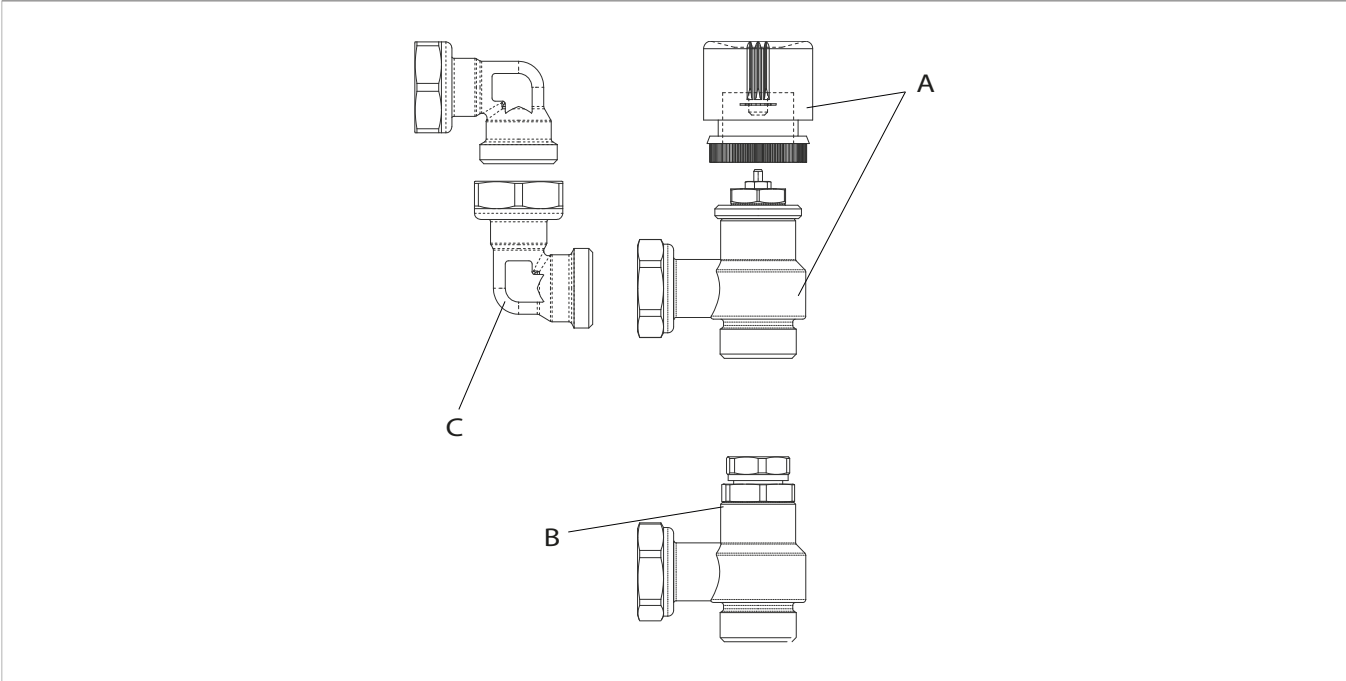
- | | |
|----------|----------------------|
| A | manual closing valve |
| B | lockshield valve |



2-Way manual valve kit (I20705) is composed by:

- 1 manual closing valve
- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses
- 2 90° curved unions

- | | |
|----------|------------------------|
| A | valve with manual head |
| B | lockshield valve |
| C | 90° curved union |



⚠ Available on request: kit AI0204 of insulators to be mounted on the valve and on the lockshield in the case of a system supplied with cold water.

2-Way valve unit kit with thermo-electric head (V20139 - V20661)

2-Way valve unit kit with thermo-electric head (V20139) is composed by:

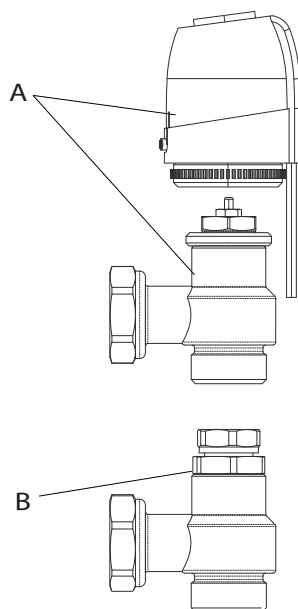
- 1 automatic valve with thermo-electric head

- 1 lockshield, fitted with micrometric adjustment, capable of balancing the system load losses

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

A automatic valve with thermo-electric head

B lockshield valve



2-Way valve unit kit with thermo-electric head (V20661) is composed by:

- 1 automatic valve with thermo-electric head
- 1 lockshield, fitted with micrometric adjustment, capable of balancing the system load losses

- 2 90° curved unions

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

A automatic valve with thermo-electric head

B lockshield valve

C 90° curved union

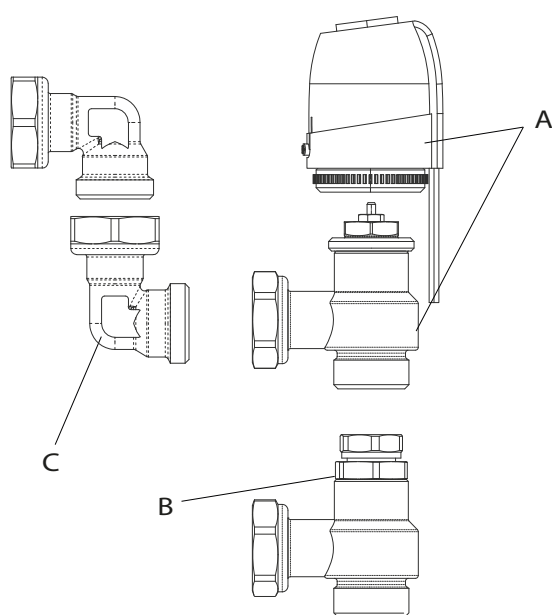
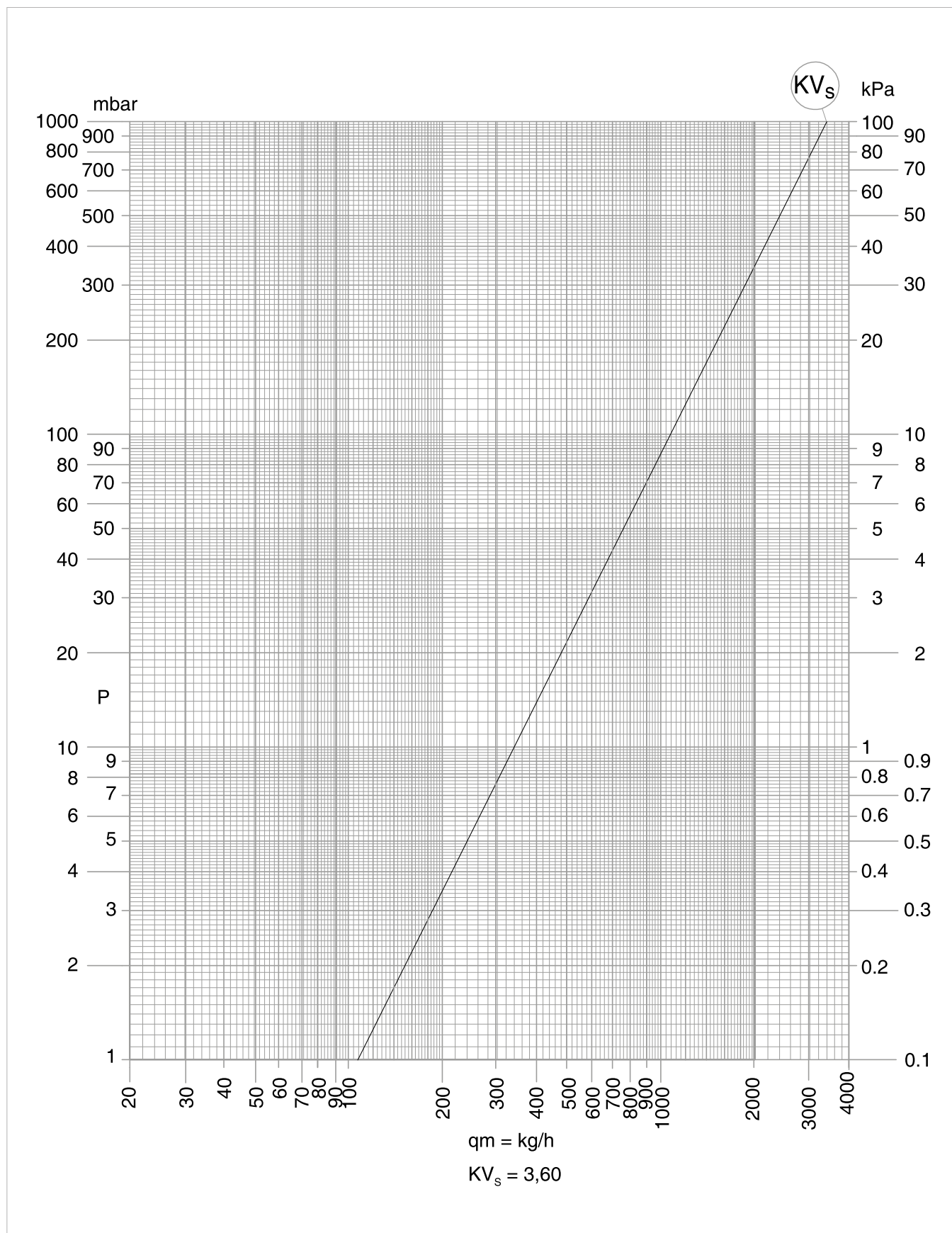


Diagram of load losses

Below is the diagram of load losses of 2-way valve in completely open position, present in kit I20205, I20705, V20139, V20661.



3-way valve kit

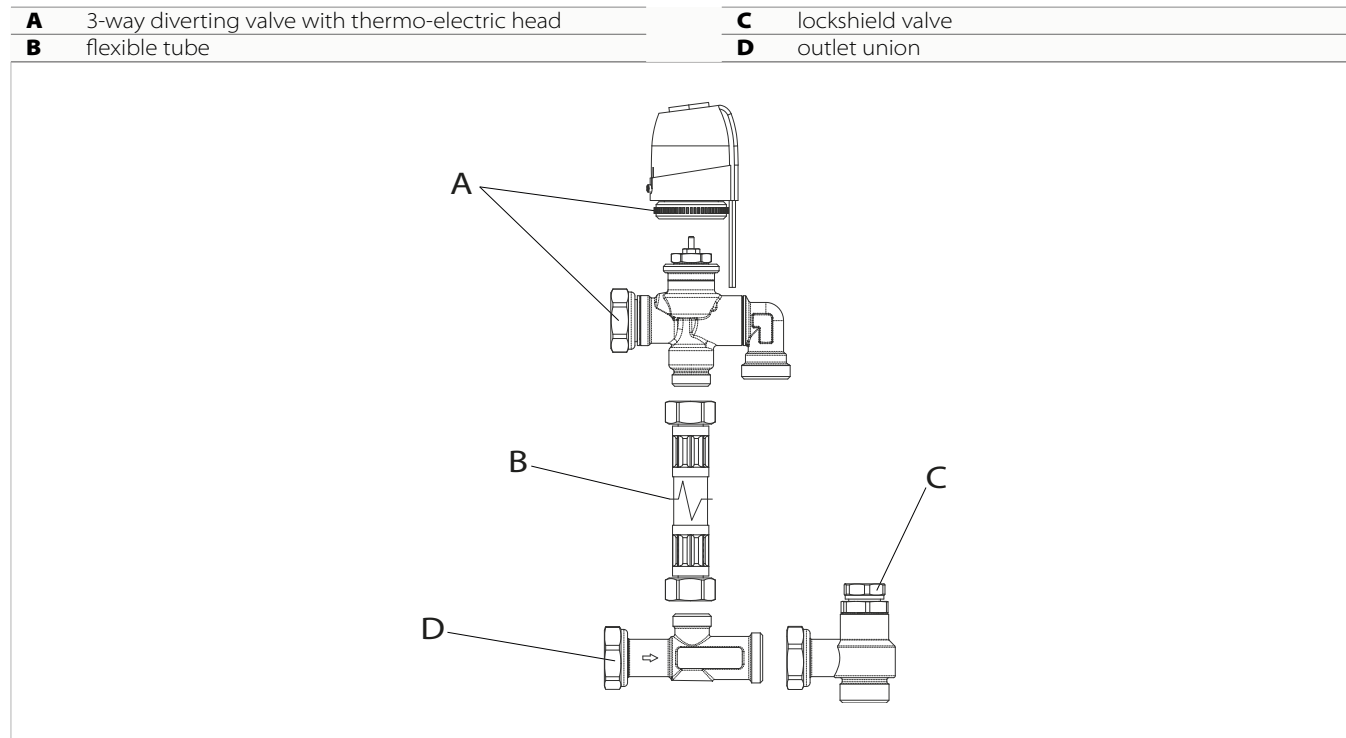
3-Way deviator valve kit with thermo-electric head (V30361 - V30662)

3-Way deviator valve kit with thermo-electric head (V30361) is composed by:

- 1 automatic 3-way diverter valve with thermo-electric head

- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.



3-Way deviator valve kit with thermo-electric head (V30662) is composed by:

- 1 automatic 3-way diverter valve with thermo-electric head

- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

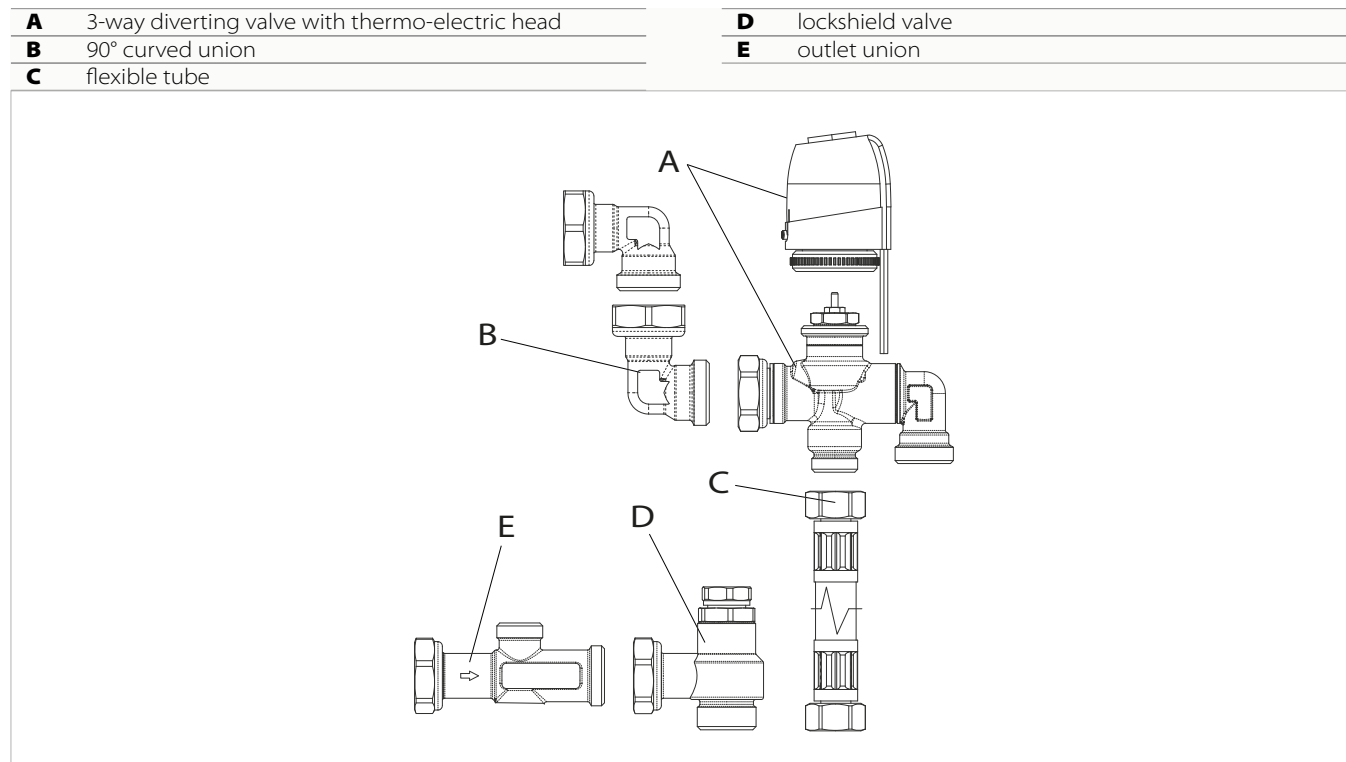
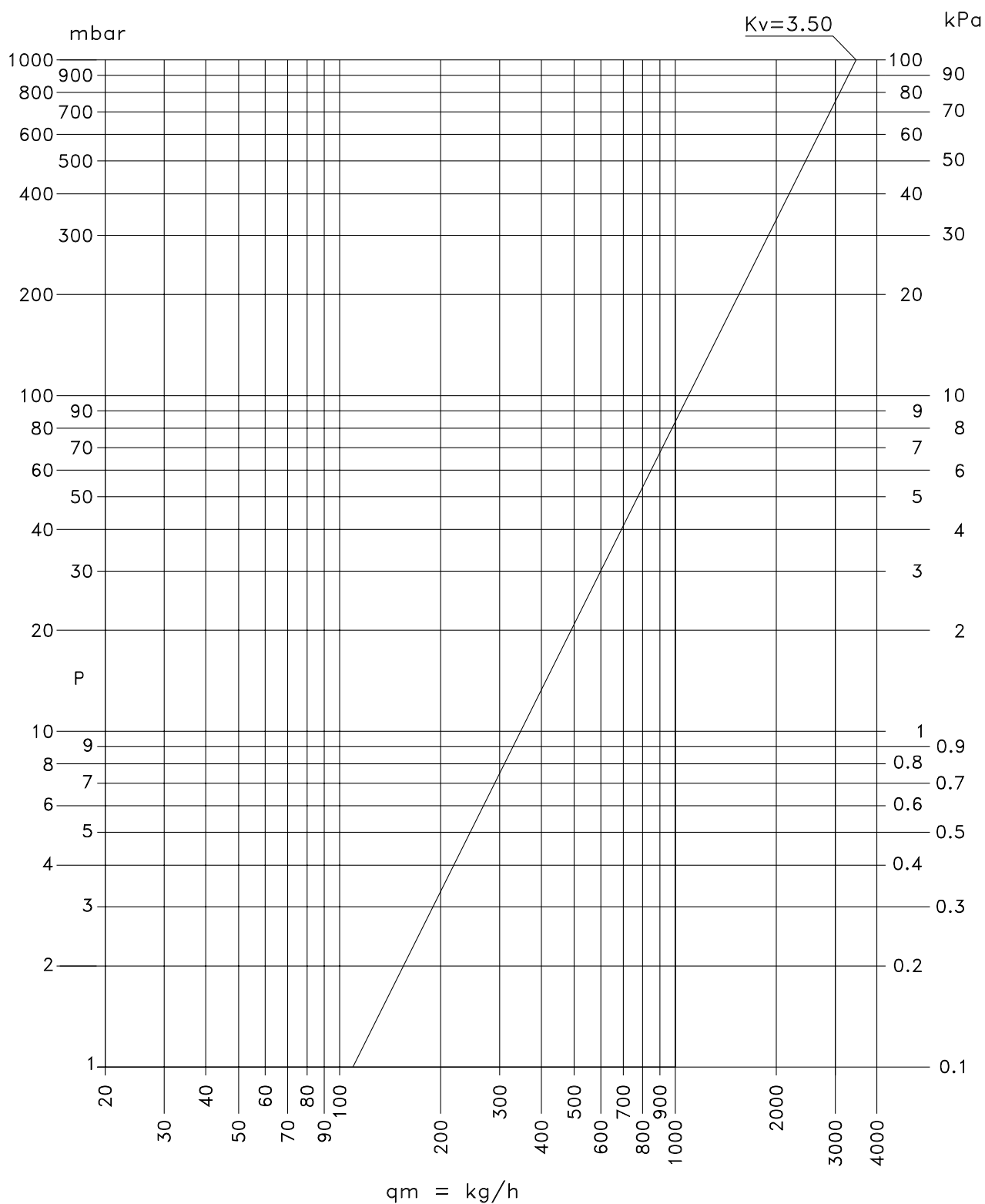
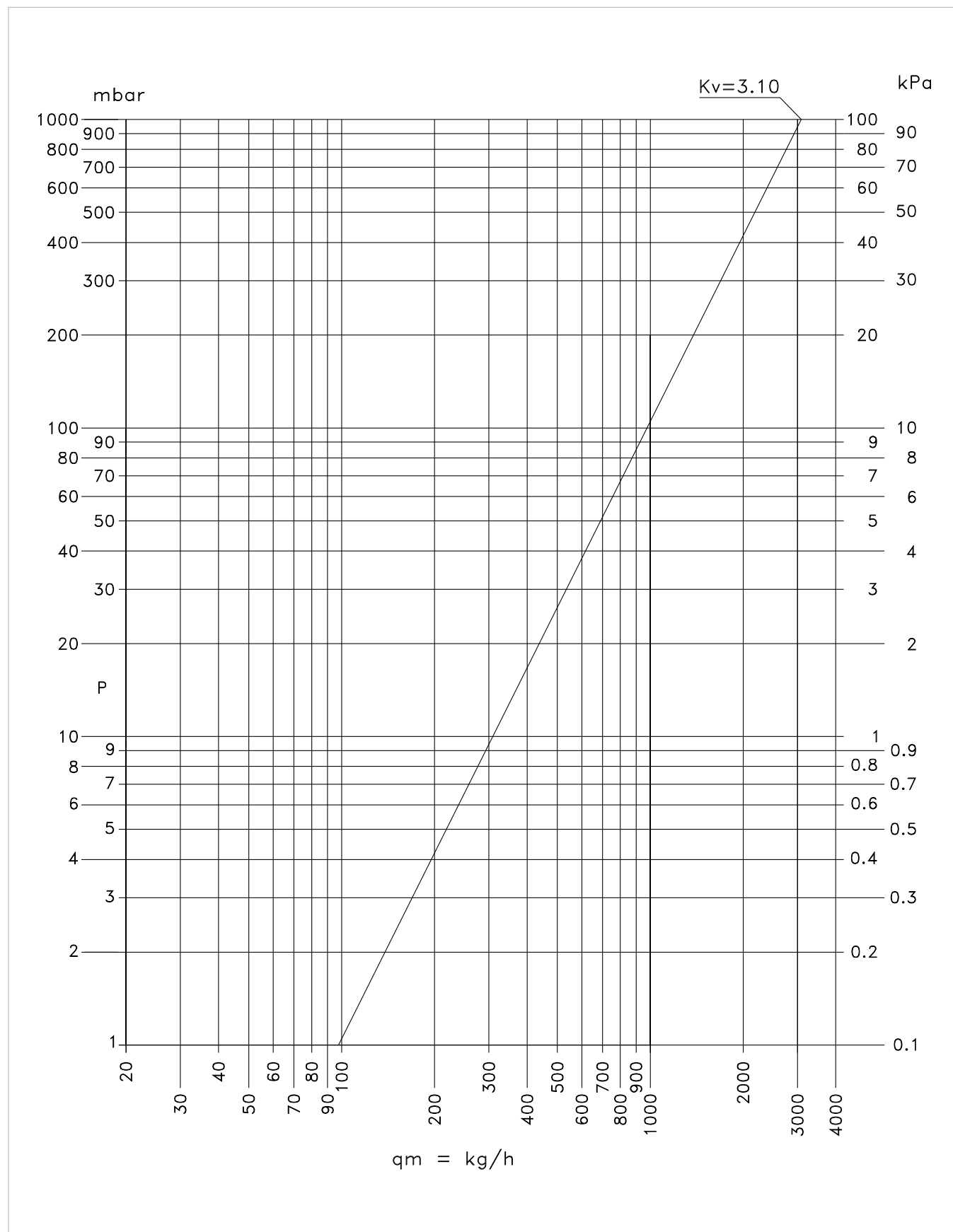


Diagram of load losses

Below is the diagram of load losses of deviator valve in completely open position, present in kit V30361, V30662.



Below is the diagram of load losses of deviator valve in completely closed position, present in kit V30361, V30662.



Components

Mounting manual valve

To mount the manual valve:

- turn the upper part of the handwheel, keeping the lower locknut blocked
- bring it into a completely open position

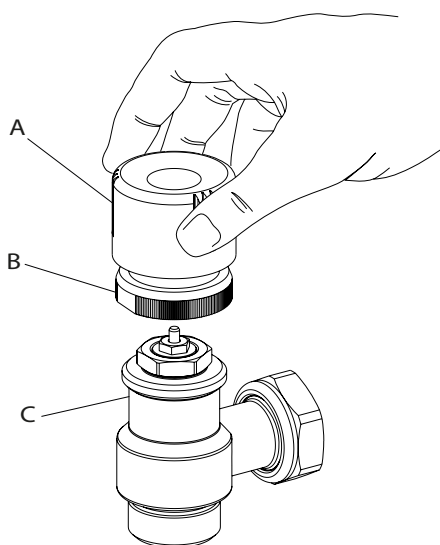
- screw the upper part of the handwheel until it is fixed on the valve body

At this point, the handwheel performs the adjustment.

A upper part of the handwheel

B lower locknut

C valve body



Mounting the thermostatic head

To mount the thermostatic head:

- tighten the head to the valve body

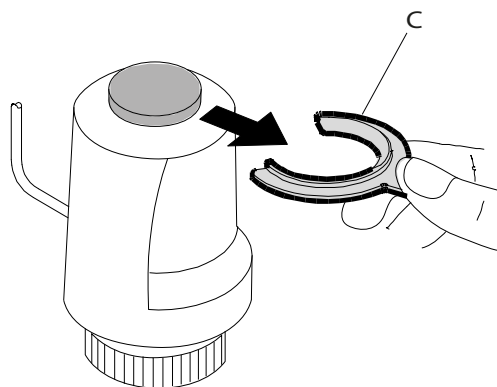
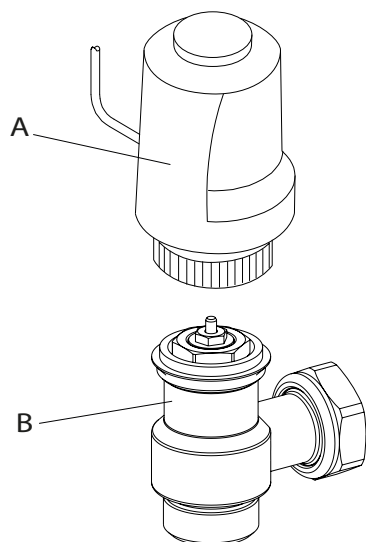
To facilitate the system mounting, filling and venting operations, even without electric power, the thermostatic head is supplied with a tool that keep it open.

- ⚠ Remove the tool from the thermostatic head before starting the system.

A thermostatic head

B valve body

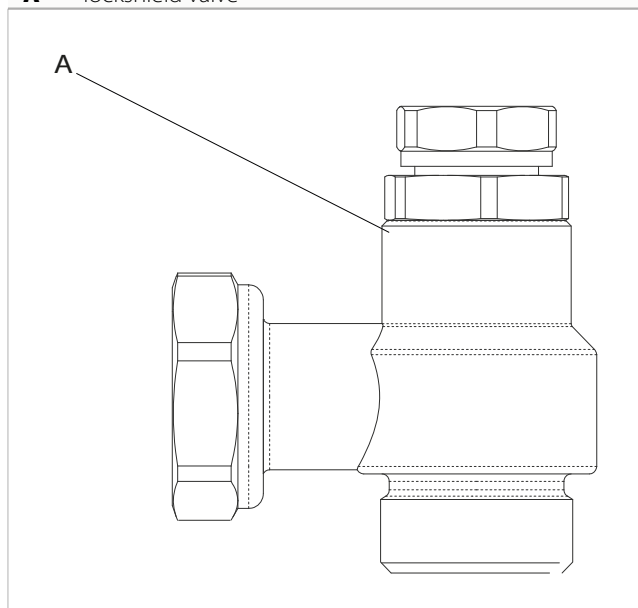
C red plastic tool



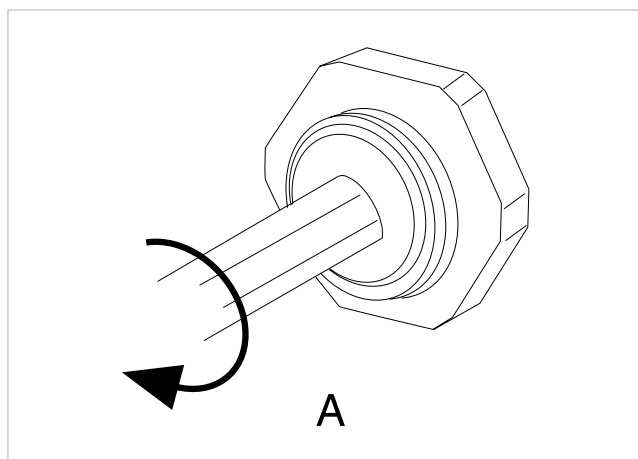
Lockshield valve adjustment

The lockshields supplied with the hydraulic kits provide an adjustment that balances the system load losses. To ensure a correct adjustment and balancing of the circuit, follow the procedure indicated below:

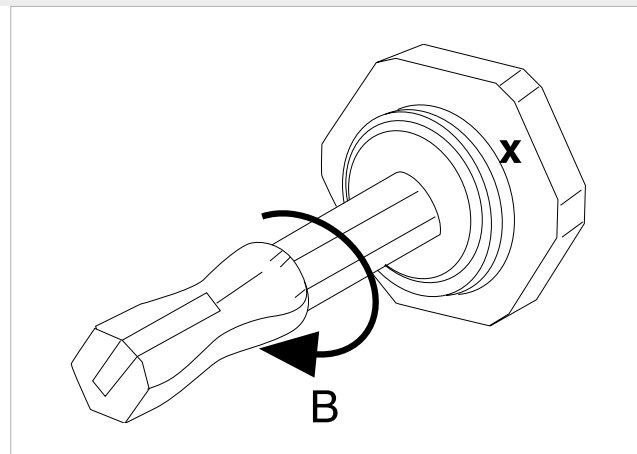
A lockshield valve



- use a screwdriver
- loosen and remove the slotted grub screw inside the hexagonal head
- use a 5 mm Allen key
- close the adjustment screw

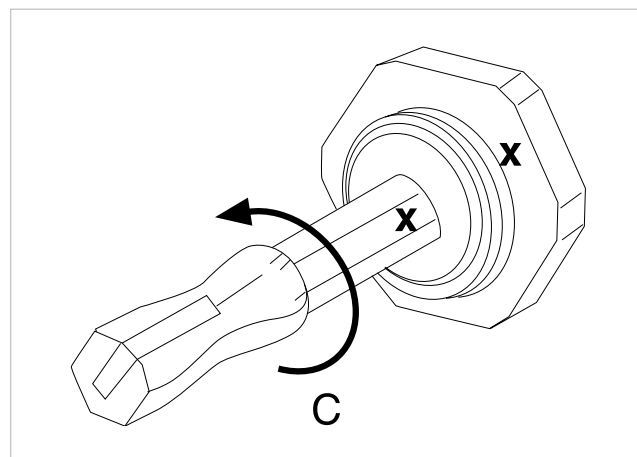


- re-tighten the slotted grub screw
- mark the reference point for the adjustment with an "x" (B)

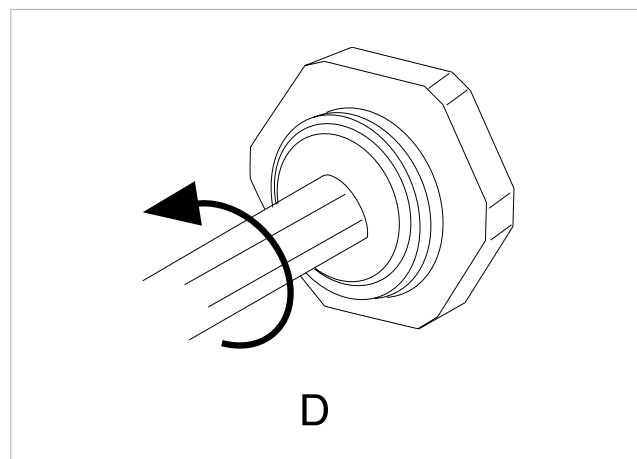


- align the screwdriver with the "x"
- then open with a number of turns (C) according to diagram $\Delta p-Q$

⚠ The number of turns refers to the micrometric screw.



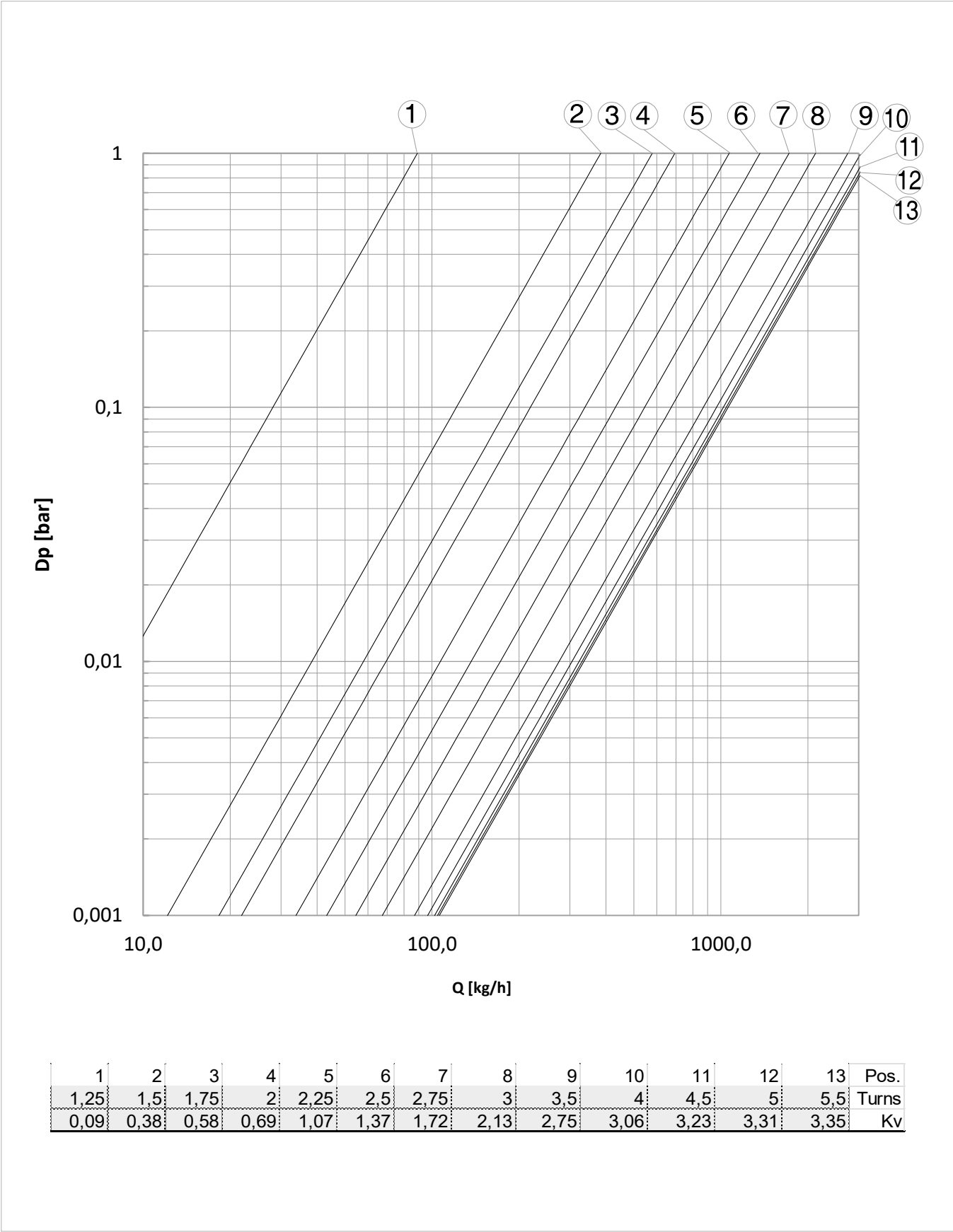
- fully open the screw



Now the pre-adjustment has been set and will not change if there are repeated openings or closings with the Allen key.

Diagram of load losses

Below is the diagram of load losses based on the adjustment of the lockshield valve present in all kits.



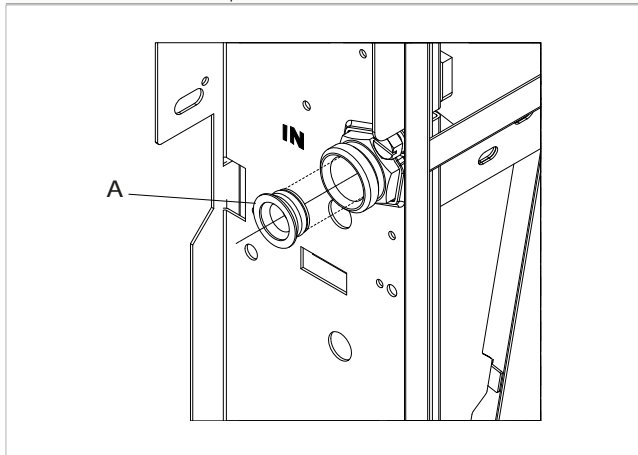
Connections

⚠ The choice and sizing of the hydraulic lines must be made by an expert who must operate according to the rules of good technique and the laws in force.

To make the connections:

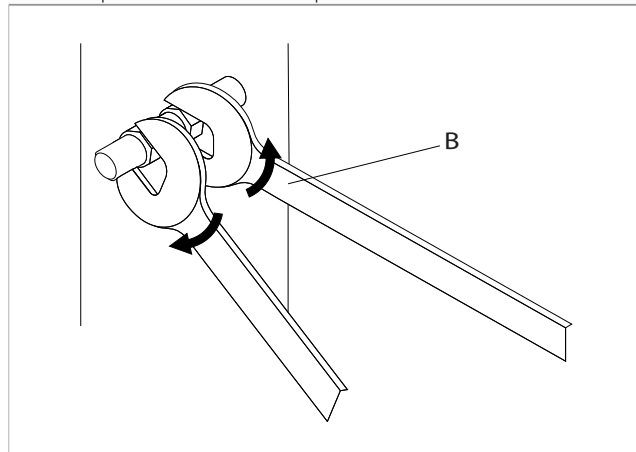
- hydraulic lines positioning

A Eurokonus adapter

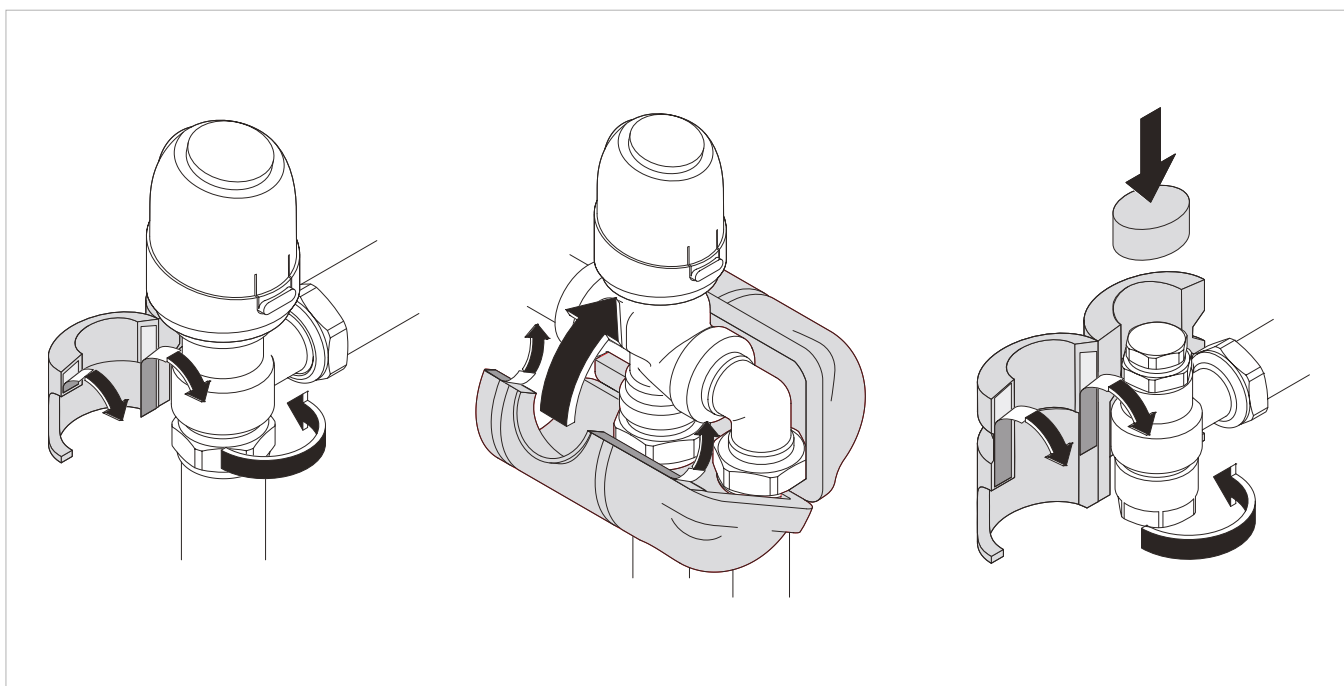


- use the "wrench against wrench" method

A "spanner and counter spanner" method



- tighten the connections
- check for leaks
- coat the connections with insulating material



⚠ The hydraulic lines and fittings must be thermally insulated.

⚠ Avoid partial insulation of the pipes.

⚠ Avoid over-tightening the pipes to avoid damage to the insulation.

⚠ Carefully check that the insulation is tight, in order to prevent the making and dripping of condensate.

Mounting

2-way valve (I20205) for SL and SLI versions

The kit consist of:

- 1 manual closing valve
- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses

Available on request: kit AI0204 of insulators to be mounted on the valve and on the lockshield in the case of a system supplied with cold water.

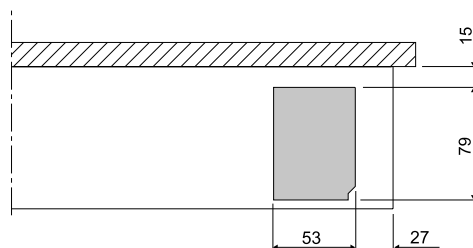
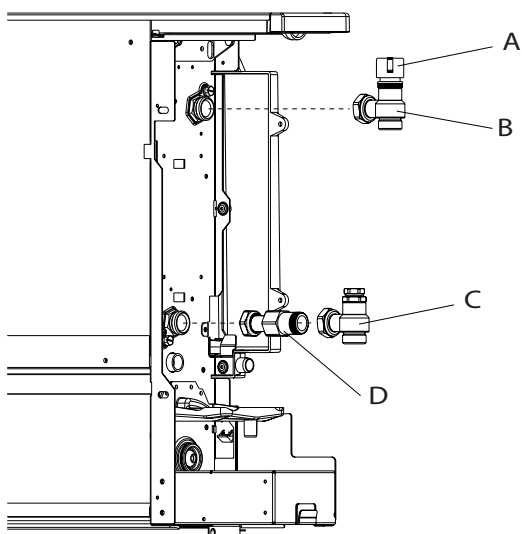
Per montare il kit:

- remove the side panel
- access the hydraulic connection side
- assemble the components

Floor mounted version - with optional 3/4" EK stub pipe (code AI0501)

A manual valve
B 2-way valve

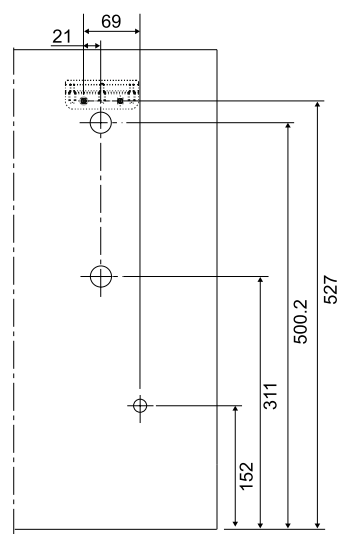
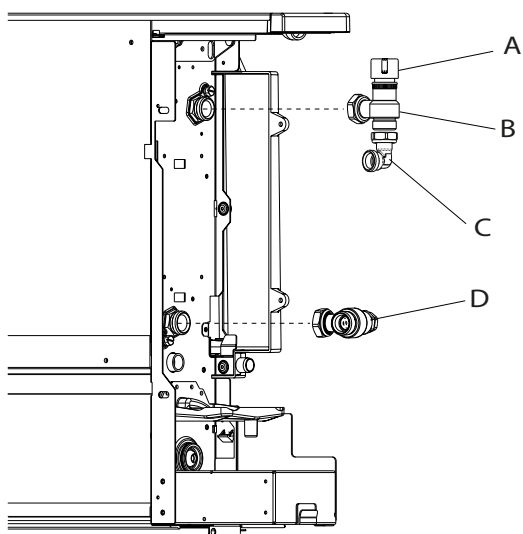
C lockshield valve
D 3/4" EK stub pipe (optional)



Wall mounted version - with optional 90° curved union (code AI0203)

A manual valve
B 2-way valve

C 90° curved union (optional)
D lockshield valve



2-Way valve (I20705) for SLS version

The kit consist of:

- 1 manual closing valve
- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses
- 2 90° curved unions

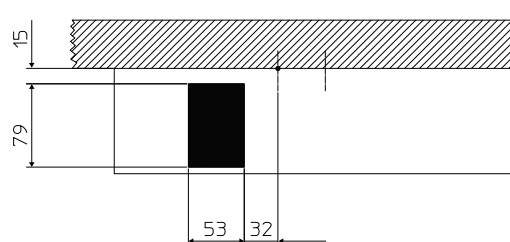
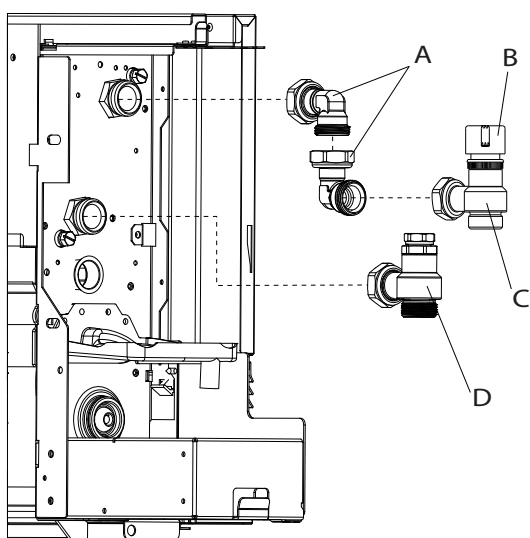
Available on request: kit AI0204 of insulators to be mounted on the valve and on the lockshield in the case of a system supplied with cold water.

Per montare il kit:

- remove the side panel
- access the hydraulic connection side
- assemble the components

Floor mounted version

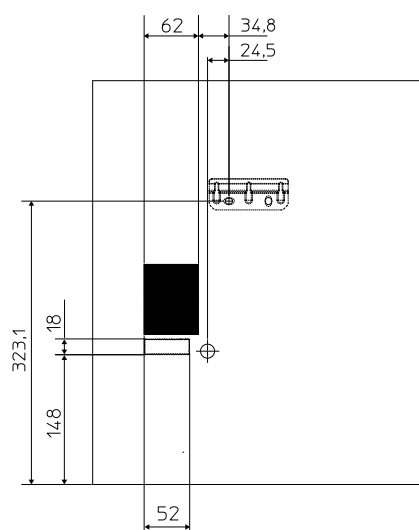
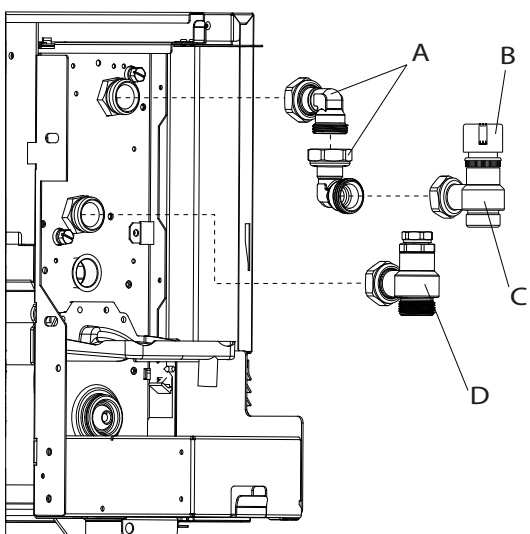
- | | |
|----------|------------------|
| A | 90° curved union |
| B | manual valve |
| C | 2-way valve |
| D | lockshield valve |



Wall mounted version

- | | |
|----------|------------------|
| A | 90° curved union |
| B | manual valve |

- | | |
|----------|------------------|
| C | 2-way valve |
| D | lockshield valve |



2-way valve with thermo-electric head (V20139) for SL, SLI, RS versions

The kit consist of:

- 1 automatic valve with thermo-electric head
- 1 lockshield, fitted with micrometric adjustment, capable of balancing the system load losses

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

Per montare il kit:

- remove the side panel

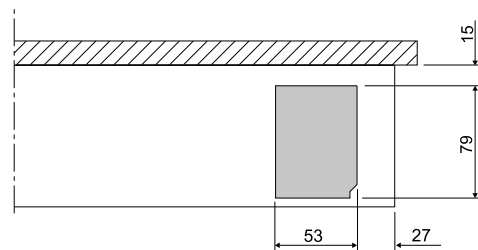
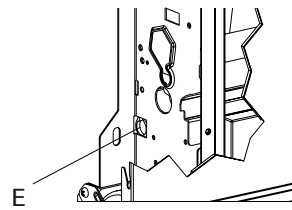
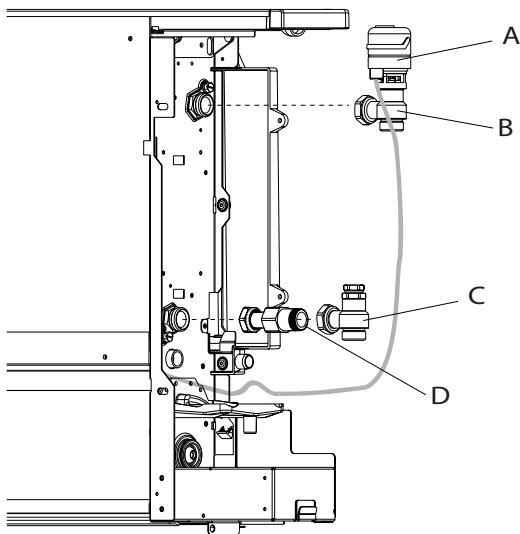
- access the hydraulic connection side
- assemble the components
- apply the supplied insulation

⚠ When the hydraulic components have been mounted, connect the thermo-electric head connectors with the wiring connectors on the machine by passing the head cable through the special holes in the rear part of the fan-coil.

Floor mounted version - with optional 3/4" EK stub pipe (code AI0501)

- | | |
|----------|----------------------|
| A | thermo-electric head |
| B | 2-way valve |
| C | lockshield valve |

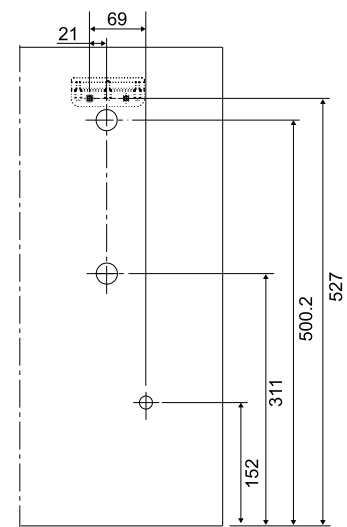
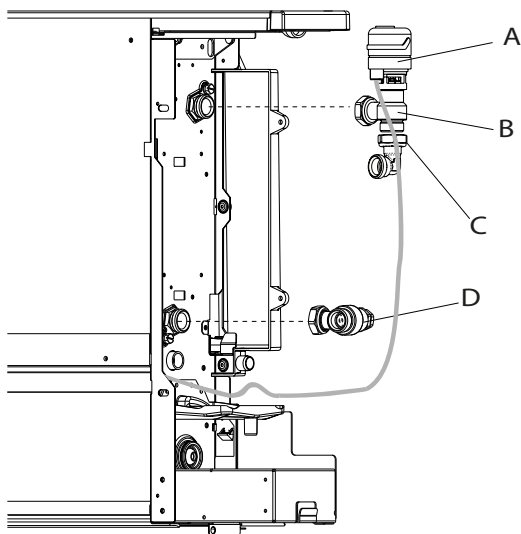
- | | |
|----------|------------------------------|
| D | 3/4" EK stub pipe (optional) |
| E | hole for cable passage |



Wall mounted version - with optional 90° curved union "L" (code AI0203)

- | | |
|----------|----------------------|
| A | thermo-electric head |
| B | 2-way valve |

- | | |
|----------|-----------------------------|
| C | 90° curved union (optional) |
| D | lockshield valve |



2-way valve with thermo-electric head (V20661) for SLS version

The kit consist of:

- 1 automatic valve with thermo-electric head
- 1 lockshield, fitted with micrometric adjustment, capable of balancing the system load losses
- 2 90° curved unions

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

Per montare il kit:

- remove the side panel

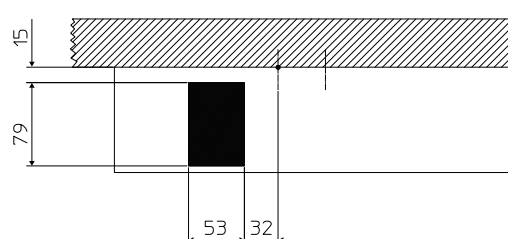
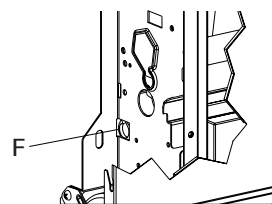
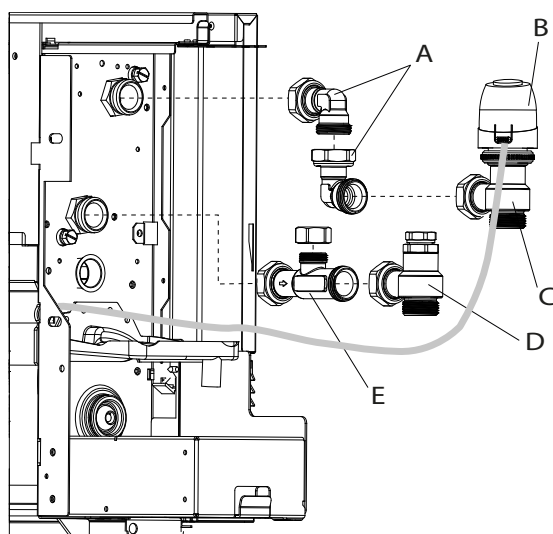
- access the hydraulic connection side
- assemble the components
- apply the supplied insulation

⚠ When the hydraulic components have been mounted, connect the thermo-electric head connectors with the wiring connectors on the machine by passing the head cable through the special holes in the rear part of the fan-coil.

Floor mounted version

- | | |
|----------|----------------------|
| A | 90° curved union |
| B | thermo-electric head |
| C | 2-way valve |

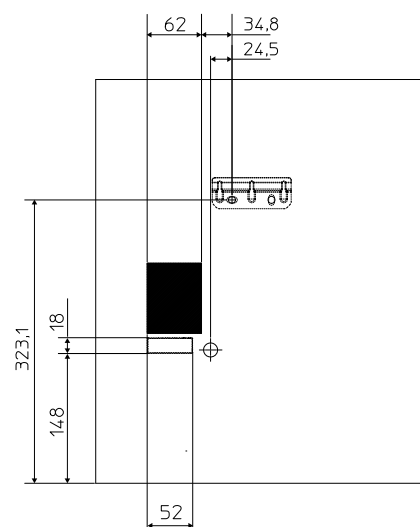
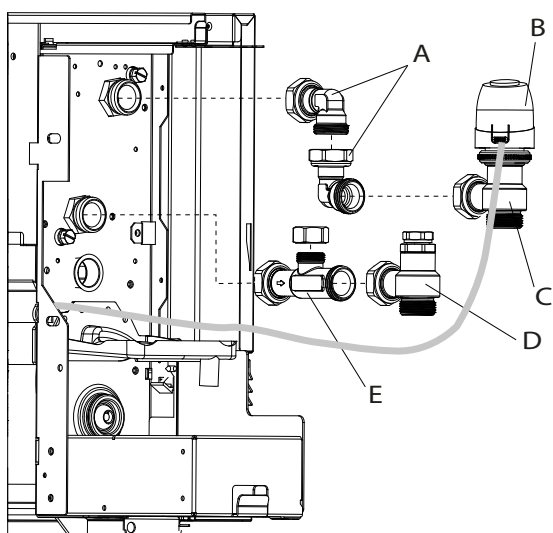
- | | |
|----------|-------------------------|
| D | lockshield valve |
| E | outlet union (optional) |
| F | hole for cable passage |



Wall mounted version

- | | |
|----------|----------------------|
| A | 90° curved union |
| B | thermo-electric head |
| C | 2-way valve |

- | | |
|----------|-------------------------|
| D | lockshield valve |
| E | outlet union (optional) |



3-way deviator valve (V30361) for SL, SLI, RS versions

The kit consist of:

- 1 automatic 3-way diverter valve with thermo-electric head
- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

Per montare il kit:

- remove the side panel

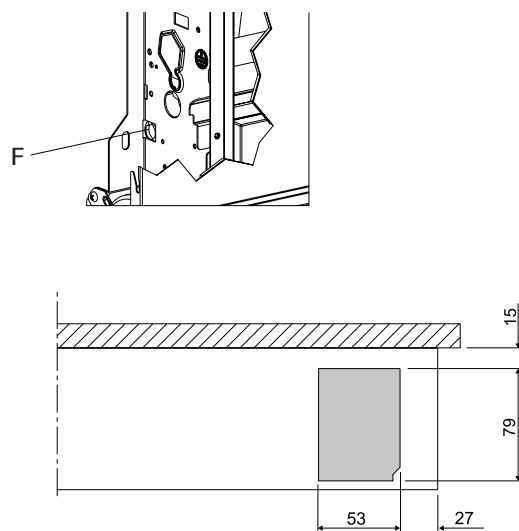
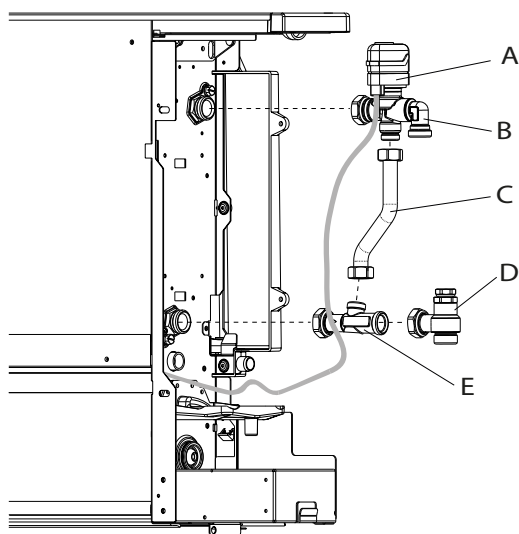
- access the hydraulic connection side
- assemble the components
- apply the supplied insulation

⚠ When the hydraulic components have been mounted, connect the thermo-electric head connectors with the wiring connectors on the machine by passing the head cable through the special holes in the rear part of the fan-coil.

Floor mounted version

- | | |
|----------|------------------------|
| A | thermo-electric head |
| B | 3-way deviator valve |
| C | flexible tube 1/2" 230 |

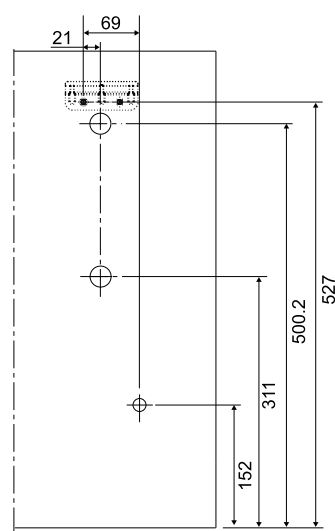
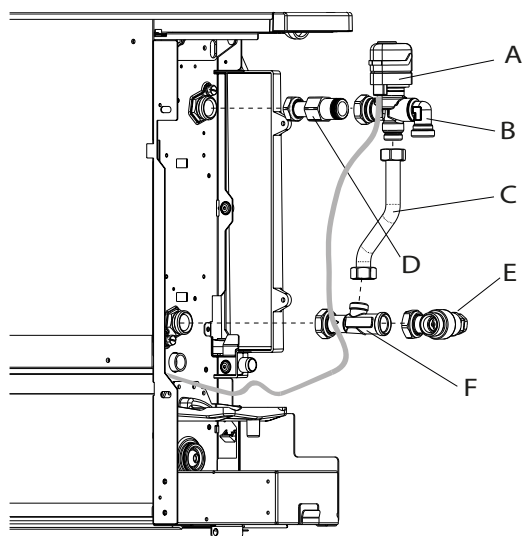
- | | |
|----------|------------------------|
| D | lockshield valve |
| E | outlet union |
| F | hole for cable passage |



Wall mounted version - with optional 3/4" EK stub pipe (code AI0501)

- | | |
|----------|------------------------|
| A | thermo-electric head |
| B | 3-way deviator valve |
| C | flexible tube 1/2" 230 |

- | | |
|----------|------------------------------|
| D | 3/4" EK stub pipe (optional) |
| E | lockshield valve |
| F | outlet union |



3-way deviator valve (V30662) for SLS version

The kit consist of:

- 1 automatic 3-way diverter valve with thermo-electric head
- 1 lockshield valve, fitted with micrometric adjustment, capable of balancing the system load losses
- 1 outlet union
- 1 flexible tube for connection
- 2 90° curved unions

⚠ The kit contains the insulation to be mounted on the valve and on the lockshield.

Per montare il kit:

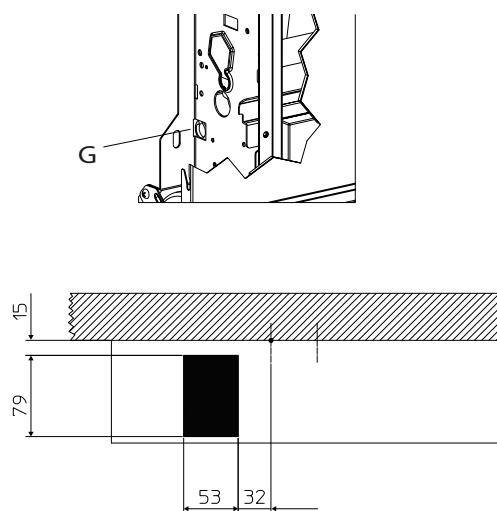
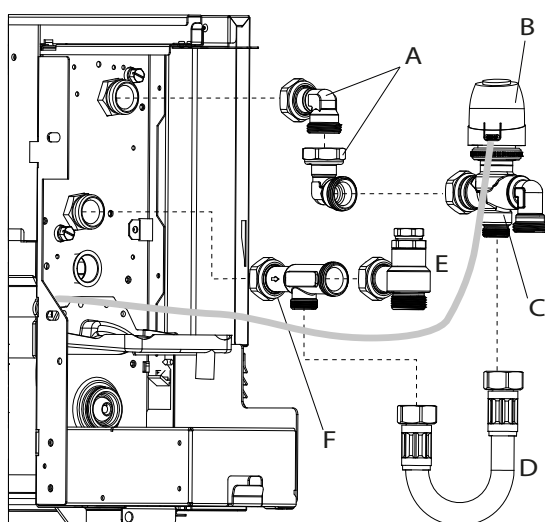
- remove the side panel
- access the hydraulic connection side
- assemble the components
- apply the supplied insulation

⚠ When the hydraulic components have been mounted, connect the thermo-electric head connectors with the wiring connectors on the machine by passing the head cable through the special holes in the rear part of the fan-coil.

Floor mounted version

- | | |
|----------|------------------------|
| A | 90° curved union |
| B | thermo-electric head |
| C | 3-way deviator valve |
| D | flexible tube 1/2" 230 |

- | | |
|----------|------------------------|
| E | lockshield valve |
| F | outlet union |
| G | hole for cable passage |



Wall mounted version

- | | |
|----------|----------------------|
| A | 90° curved union |
| B | thermo-electric head |
| C | 3-way deviator valve |

- | | |
|----------|------------------------|
| D | flexible tube 1/2" 230 |
| E | lockshield valve |
| F | outlet union |

