

4-way single-double pipe distributors

875 - 877

/ Function

Distributor four ways single-double pipe group, with two ways of connection to the pipes of the adjustable system, to receive pipes coming from the floor or from the wall.

The valve is supplied in a double-pipe version but can be converted to a single-pipe version with a simple operation (see instruction sheet).

It is also supplied with a fitting for the connection of a Ø15mm probe.



/ Product Range

| Art. | Code | Description |
|------|-----------|---|
| 875 | 81875AD06 | Distributor for four-pipe single-pipe group. Adjustable connection paths. With external probe connection. Connection thread 24x1.5. |
| 877 | 81877AD06 | Distributor for four-pipe single-pipe group. Adjustable connection paths. With external probe connection. Connection thread 3/4". |
| 889 | 818896006 | Chrome-plated steel probe Ø15mm x 600mm. |
| 889 | 818898006 | Chrome-plated steel probe Ø15mm x 800mm. |
| 889 | 818891006 | Chrome-plated steel probe Ø15mm x 1000mm. |

/ Technical features

MATERIALS

| | |
|--|--------------------------|
| Body, cap and pipe union: (Particolari nichelati) | Brass CW617N - UNI 12165 |
| Adjustment nut: | Brass CW617N - UNI 12165 |
| Spring and obturator rod: | Stainless steel |
| Gasket: | EPDM Perox |

Technical Features

| | |
|------------------------------|---------------------------|
| Working fluids: | Water and glycol solution |
| Max percentage of glycol: | 50% |
| Max working pressure: | 10 bar |
| Max differential pressure: | 1 bar |
| Fluid temperature: | 5 ÷ 120°C |
| Valve obturator running gap: | 3,5 mm |

4-way single-double pipe distributors

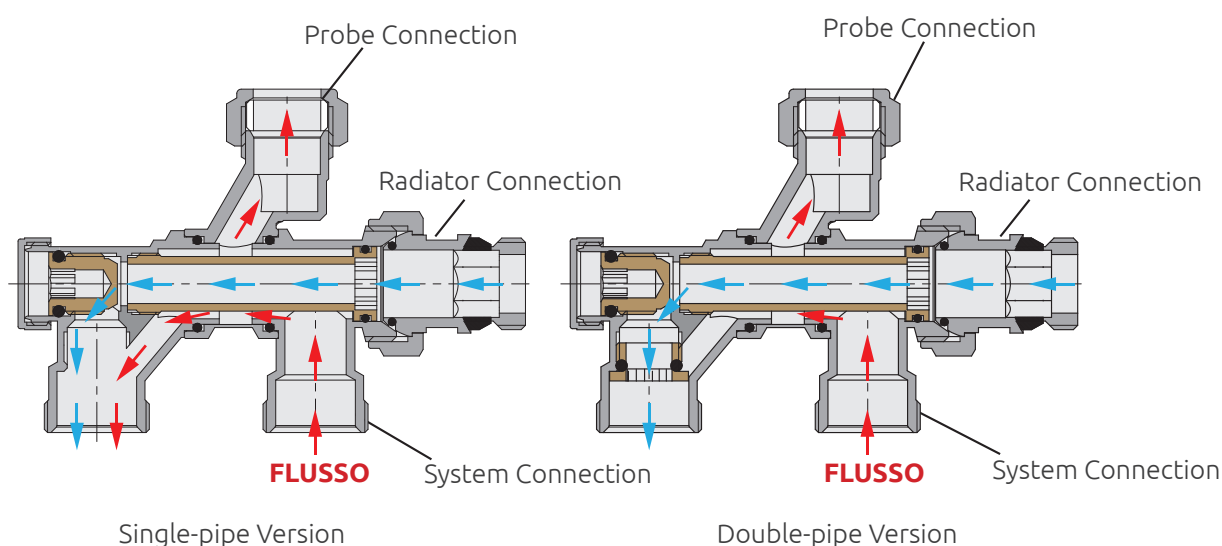
875 - 877

Valve Installation

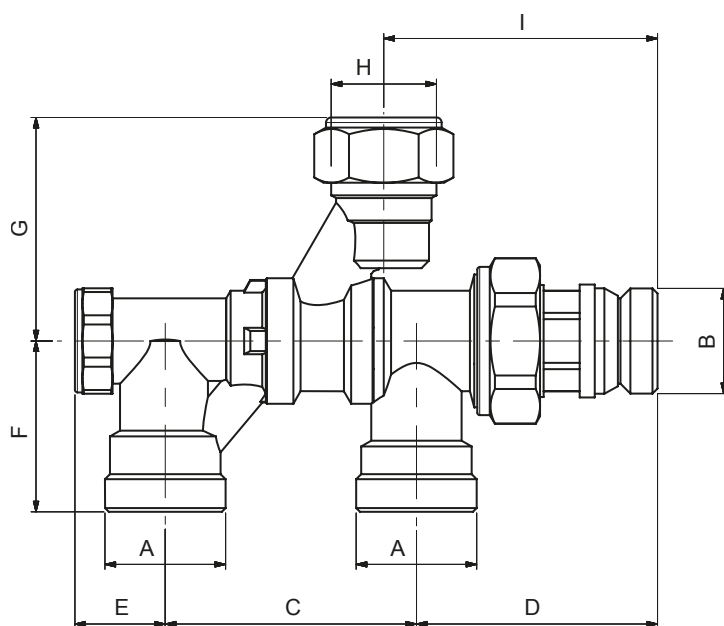
The ICMA distributors must be installed in the system respecting the flow direction, which must enter from the connection part to the system and exit towards the heating body.

Attention in case of incorrect installation the following problems may arise:

- The appearance of a noise similar to a strong and continuous hammer is due to the fluid that is passed through the valve in the wrong direction, the only solution to this problem is to reverse the valve with the holder on the radiators that manifest the problem, restoring the correct direction of the fluid in the valve.
- The appearance of a sound similar to a loud hiss during modulation is due to an excessive prevalence present in the valve. To solve this problem it will be sufficient to keep the system pressure under control by providing variable speed pumps combined with differential pressure regulators, or the use of differential by-pass valves



Dimensions

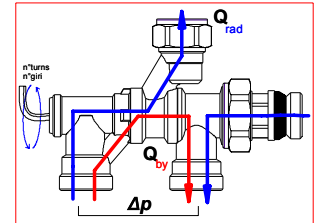
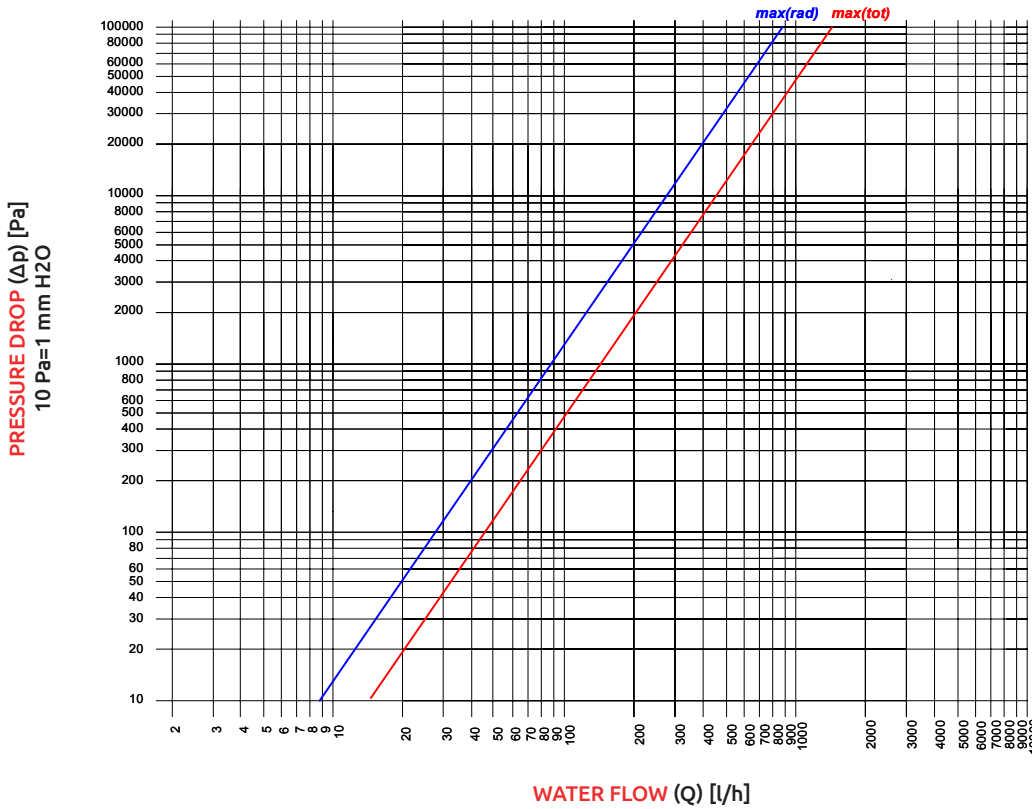


| Code | 81875AD06 | 81877AD06 |
|------|-----------|-----------|
| A | 24x1,5 | 1/2" |
| B | 1/2" | 3/4" |
| C | 50 | 50 |
| D | 48 | 48 |
| E | 18 | 18 |
| F | 34 | 34 |
| G | 44,5 | 44,5 |
| H | Ø15 | Ø15 |
| I | 54,5 | 54,5 |

Hydraulic Features

One-pipe/two pipes valve Art. 875-877

PRESSURE DROP DIAGRAM



$$Kv_{rad} = \frac{Q_{rad}}{\sqrt{\Delta p}} \quad Kv_{tot} = \frac{Q_{by} + Q_{rad}}{\sqrt{\Delta p}}$$

One-pipe configuration

| N° opening turns (bypass screw) | Kv_{rad} [m³/h] | Kv_{tot} [m³/h] | %Rad |
|---------------------------------|-------------------|-------------------|------|
| 0 | 0 | 0,85 | 0 |
| 1/2 | 0,25 | 1,05 | 24 |
| 1 | 0,41 | 1,17 | 35 |
| 1 1/2 | 0,51 | 1,26 | 40 |
| 2 | 0,59 | 1,32 | 44 |
| 2 1/2 | 0,63 | 1,35 | 46 |
| 3 | 0,67 | 1,38 | 48 |
| 3 1/2 | 0,70 | 1,40 | 49 |
| max | 0,71 | 1,42 | 50 |

Two-pipes configuration

| N° opening turns (bypass screw) | Kv_{rad} [m³/h] | Kv_{tot} [m³/h] | %Rad |
|---------------------------------|-------------------|-------------------|------|
| 0 | 0 | 0 | 0 |
| 1/2 | 0,27 | 0,27 | 100 |
| 1 | 0,46 | 0,46 | 100 |
| 1 1/2 | 0,59 | 0,59 | 100 |
| 2 | 0,70 | 0,70 | 100 |
| 2 1/2 | 0,75 | 0,75 | 100 |
| 3 | 0,80 | 0,80 | 100 |
| 3 1/2 | 0,83 | 0,83 | 100 |
| max | 0,88 | 0,88 | 100 |