

## DESCRIPTION

**XT880**

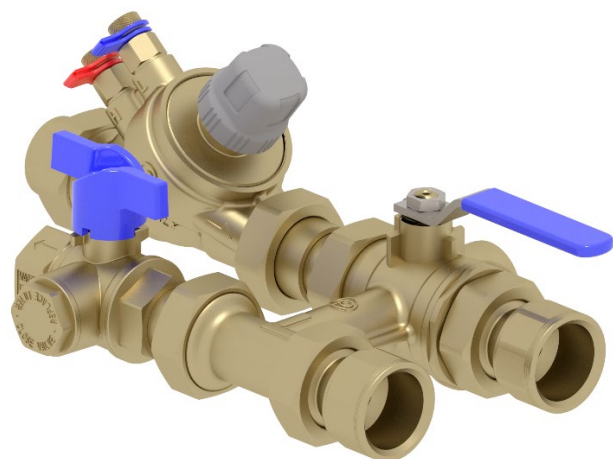
Prefabricated Commissioning Solution with 80 mm flushing bypass, **linear dirt resistant PICV** and **Filterball®** shut off valve with integrated strainer.

The kit is ready to be install and provides with all components required for commissioning and operation of FCU. By-pass avoids reverse flushing across the PICV.

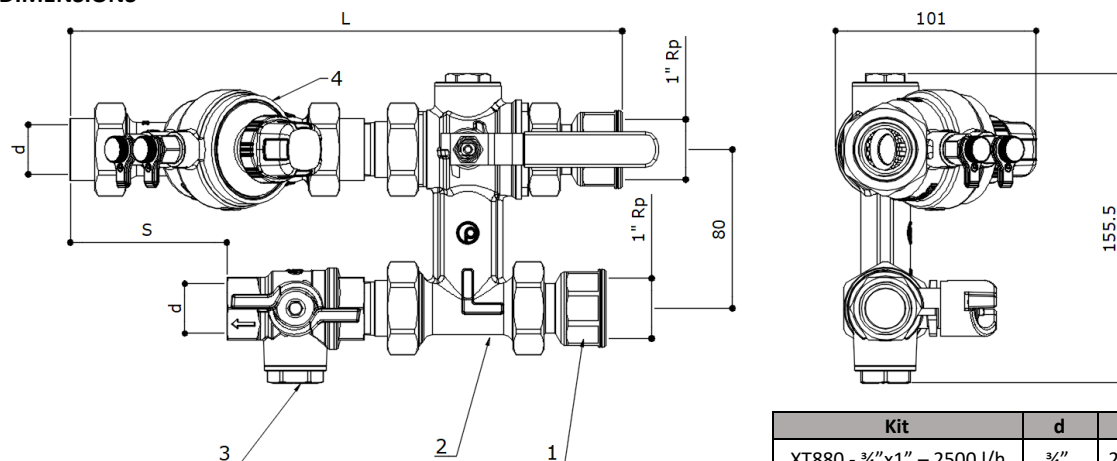
100% factory tested against leakage.

Fully maintainable **PICV** test point for commissioning and system optimization.

**Filterball** valve with blowout proof stem, triple sealing technology and adjustable packing gland.



## DIMENSIONS



Dimensions in mm

| Kit                        | d    | L     | S  | Weight [g] |
|----------------------------|------|-------|----|------------|
| XT880 - 3/4"x1" – 2500 l/h | 3/4" | 277.5 | 79 | 2760       |
| XT880 - 3/4"x1" – 3300 l/h | 3/4" | 277.5 | 79 | 2760       |
| XT880 - 1" – 5200 l/h      | 1"   | 295   | 56 | 4400       |

## MATERIAL LIST

| # | Part number   | QTY | Material               |
|---|---|-----|------------------------|
| 1 | BXT3CIL 1"  | 2   | CuZn40Pb2 CW617N       |
| 2 | XT3BP DN25  | 1   | CuZn40Pb2 CW617N       |
| 3 | 52F 3/4" – 52F 1"   | 1   | CuZn36Pb2As CW602N NDA |
| 4 | 92L 1" – 2500 l/h<br>92H 1" – 3300 l/h<br>92H 1 1/4" – 5200 l/h | 1   | CuZn36Pb2As CW602N NDA |

Please refers to dedicated technical specifications for further information and maintenance.

General XT technical submittal is also available for further information about XT range.

## ACCESSORIES (not included with XT880)

- Soft thermal insulation with Velcro (multiple opening-closing), UL rated. If included, the product part n. becomes **XT880G**. For further technical details about the insulation, please refer to the dedicated specs.
- Flexible hoses **FX series**. If a pair of flexible hoses MxF 300/350mm and the thermal insulation, the product part n. becomes **X880GA**. For further technical details about the flexible hoses, please refer to the dedicated manual.
- Drain valve
- Additional test point
- Venturi fitting **CV90** series for flow rate measurement (accuracy  $\pm 3\%$ )

## TECHNICAL FEATURES

| Centre to centre<br>[mm] | Connections          | Flow range |           | PICV min $\Delta P$ | Assembly min $\Delta P$ | Kv by-pass | Filtering capacity |
|--------------------------|----------------------|------------|-----------|---------------------|-------------------------|------------|--------------------|
|                          |                      | Min [l/h]  | Max [l/h] | [kPa]               | [kPa]                   |            | $\mu m$            |
| 80                       | 1" F union x 3/4" F* | 160        | 2500      | 30                  | 40                      | 8          | 700                |
|                          | 1" F union x 3/4" F* | 170        | 3300      | 30                  | 40                      |            |                    |
|                          | 1" F union x 1" F*   | 540        | 5200      | 35                  | 55                      |            |                    |

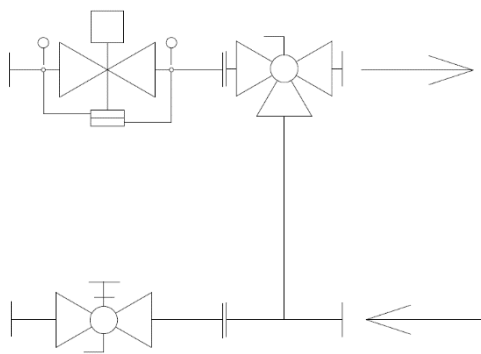
\* X880GA: connections 1" F Union x 1" F Union

## DATA

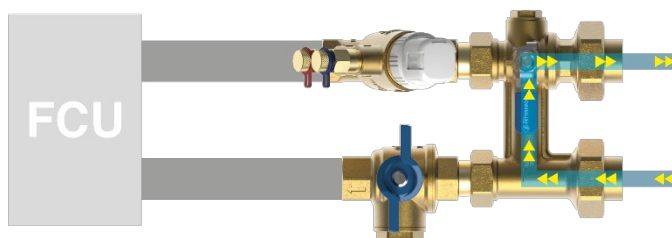
| Feature                                   |  |
|---|--|
| Pressure rating                           | PN25 (PN16 with flexible hoses)                    |
| Flow rate range                           | 160 – 5200 l/h dependent on valve selection        |
| Working temperature range^                | -10 - +100° C                                      |
| Working differential pressure range       | 30 – 600kPa minimum depends on valve and setting   |
| Flow control accuracy (hysteresis)        | ±5% till 1 bar DP, ±10% over 1 bar DP at 100% flow |
| Control valve characteristic              | Linear   |
| Control valve leakage rate to IEC 60534-4 | Class IV   |
| Thread types                              | BSP  |
| Medium                                    | Water or Water-Glycol 30%                          |

^no frost and no steam. Under 0°C, glycol must be added. See temperature limits of flexible hoses and actuators (dedicated technical specifications).  
Water quality must comply requirements mentioned in PICV technical specification.

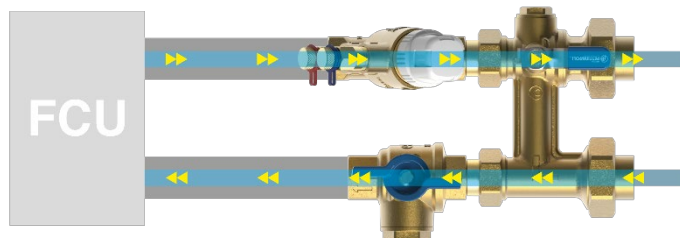
## SCHEMATIC



## OPERATIONS



Flushing mode



Operating mode

Pictures shown are for illustration only. They show operating modes of a similar kit.

## ACTUATORS

| Type                                    | Part number | Stroke  | Adaptor         |
|---|-------------|---------|-----------------|
| 24 V, 0-10 V prop., feedback            | VA7483      | 6.3 mm* | 0A7010          |
| 24 V, 0-10 V prop., feedback, fail safe | VA7484      | 6.3 mm* | 0A748X          |
| 24 V, 0-10 V prop., feedback            | VM000       | 6.5 mm* | 76TE (included) |
| 24 V, 0-10 V prop., feedback, fail safe | VM060       | 6.5 mm* | 76TE (included) |
| 24 V, 3 Point Floating                  | VA7481      | 6.3 mm  | 0A748X          |
| 230 V, 3 Point Floating                 | VA7481      | 6.3 mm  | 0A748X          |
| 24 V, 0-10 V Proportional Thermic       | A564P3      | 6.5 mm  | VA64 (included) |
| 24 V, ON-OFF PWM Thermic                | A564O2      | 6.5 mm  | VA64 (included) |
| 230 V, ON-OFF PWM Thermic               | A562O2      | 6.5 mm  | VA64 (included) |



VA7481, VA7483 and VA7484



A56 series

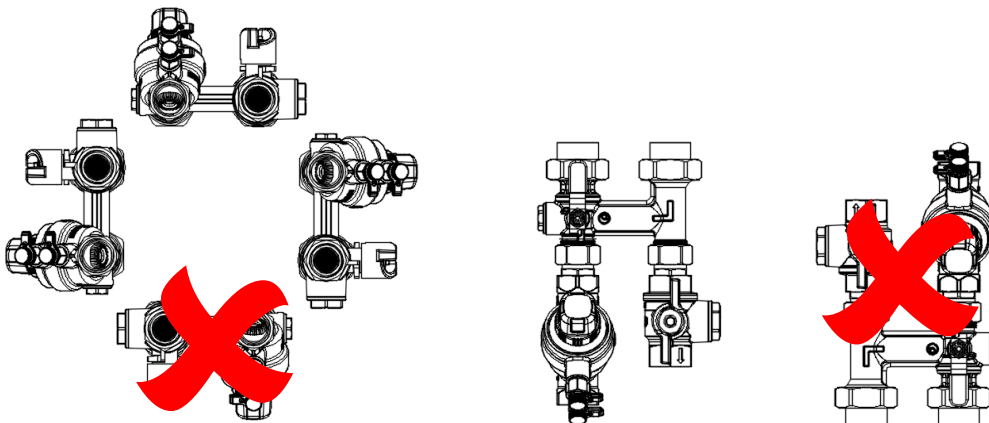


VM series

\*Stroke detection system, suggested

## INSTALLATION

The PICV can be installed in any position between vertical and horizontal for electrical safety reasons in case an actuator is mounted onto the valve. Upside down installation of the PICV must be avoided for electrical safety reasons.



Pictures shown are for illustration only.