

DESCRIPTION

XT1680 - XT1690 - XT2070

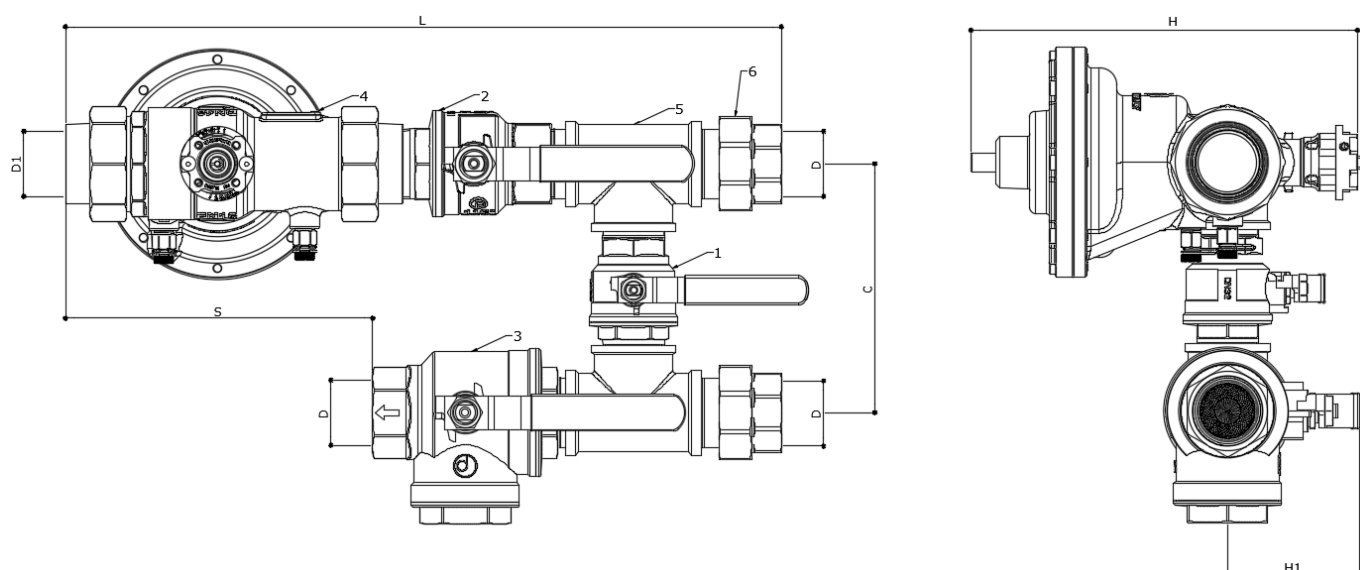
Prefabricated Commissioning Solution with flushing bypass, **Equalpercentage rotary PICV** and **Filterball®** shut off valve with integrated strainer.

The kit is fully assembled except the PICV, which has to be assembled by the end user, and provides with all components required for commissioning and operation of AHU.

100% factory tested against leakage. **PICV** with test point and flushing mode for commissioning and system optimization.

Filterball valve with blowout proof stem, triple sealing technology and adjustable packing gland. Strainer made of stainless steel.
Soft **thermal insulation** with Velcro (multiple opening-closing) UL rated available for PICV. Thickness 33 mm.

DIMENSIONS



Dimensions in **mm**. The centre to centre distance can vary $\pm 3\text{mm}$

| Kit | D | D1 | L | S | C | H | H1 | Weight (kg) |
|----------------------------|-----------|-----------|-----|-----|-----|-----|------|-------------|
| XT1680 - 1 1/4" – 6000 l/h | 1 1/4" Rp | 1 1/4" Rc | 460 | 191 | 168 | 265 | 82 | 14.7 |
| XT1690 - 1 1/2" – 9000 l/h | 1 1/2" Rp | 1 1/2" Rc | 491 | 211 | 169 | 265 | 89 | 19.5 |
| XT2070 - 2" – 11000 l/h | 2" Rp | 2" Rc | 602 | 248 | 207 | 265 | 89.5 | |
| XT2070 - 2" – 12000 l/h | 2" Rp | 2" Rc | 593 | 240 | 207 | 318 | 89.5 | |
| XT2070 - 2" – 18000 l/h | 2" Rp | 2" Rc | 593 | 240 | 207 | 318 | 89.5 | |

MATERIAL LIST

| # | Part number | QTY | Material |
|---|--|-----|---|
| 1 | 51/2 1 1/4" | 1 | CuZn40Pb2 CW617N |
| 2 | 51/2 1 1/4" – 1 1/2" – 2" | 1 | CuZn40Pb2 CW617N |
| 3 | 51F 1 1/4" – 1 1/2" or 51FL 2" | 1 | CuZn36Pb2As CW602N NDA |
| 4 | 83HPR1 1 1/4" – 6000 l/h 83HPR1 1 1/2" – 9000 l/h 83VLPR1 2" – 11000 l/h 83LPR1 2" – 12000 l/h 83HPR1 2" – 18000 l/h | 1 | Ductile iron, brass and stainless steel |
| 5 | 055/F 1 1/4" – 1 1/2" – 2" | 2 | CuZn40Pb2 CW617N |
| 6 | 701 1 1/4" – 1 1/2" – 2" | 2 | CuZn40Pb2 CW617N |

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

TECHNICAL FEATURES

| Centre to centre | Connections | Flow range | | PICV min ΔP | Assembly min ΔP | Kv by-pass | Filtering capacity |
|------------------|-----------------------|------------|-----------|---------------------|-------------------------|------------|--------------------|
| [mm] | | Min [l/h] | Max [l/h] | [kPa] | [kPa] | | μm |
| 168 | 1 ¼" F union x 1 ¼" F | 1800 | 6000 | 30 | 40 | 20 | 700 |
| 169 | 1 ½" F union x 1 ½" F | 2700 | 9000 | 35 | 42 | | |
| 207 | 2" F union x 2" F | 3300 | 11000 | 40 | 50 | | |
| | | 3600 | 12000 | 35 | 45 | | |
| | | 5400 | 18000 | 35 | 55 | | |

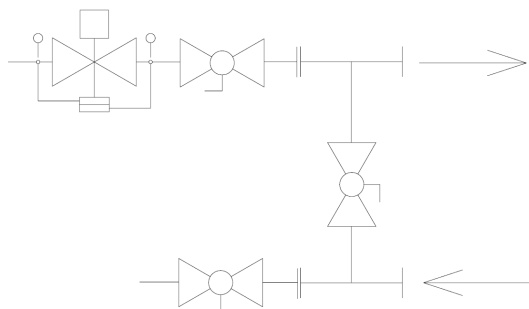
Female connection on PICV side is made through an union.

DATA

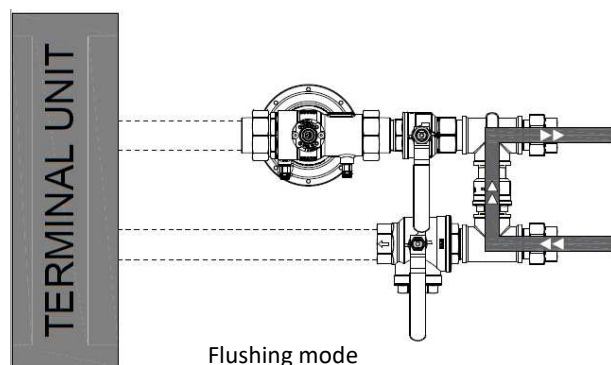
| Feature | |
|--|--|
| Pressure rating | PN16 |
| Flow rate range | 1800 – 18000 l/h dependent on valve selection |
| Working temperature range [^] | -10 - +100° C |
| Working differential pressure range | 30 – 600kPa minimum depends on valve and setting |
| Flow control accuracy (linearity and hysteresis) | ±5% till 1 bar DP, ±10% over 1 bar DP at 100% flow |
| Control valve characteristic | Equalpercentage |
| 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 actuators (dedicated technical specifications).

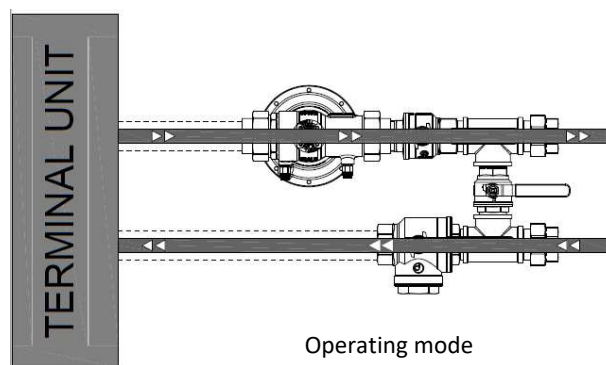
Water quality must comply requirements mentioned in PICV technical specification.

SCHEMATIC

ACCESSORIES

- Drain and air vent
- Additional PT port on flow side

OPERATIONS


Flushing mode



Operating mode

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

ACTUATORS

| Type | Part number | Stroke |
|---|-------------|--------|
| 24 V, 0-10 V prop., feedback | SN08CC | 90° |
| 24 V, 0-10 V prop., feedback, Spring return | VA9208C | 90° |
| 24 V, 3 Point Floating – ON/OFF | SN08 | 90° |
| 230 V, 3 Point Floating – ON/OFF | SN08 | 90° |
| 24 V, 3 Point Floating – ON/OFF, spring return | VA9208 | 90° |
| 230 V, 3 Point Floating – ON/OFF, spring return | VA9208 | 90° |



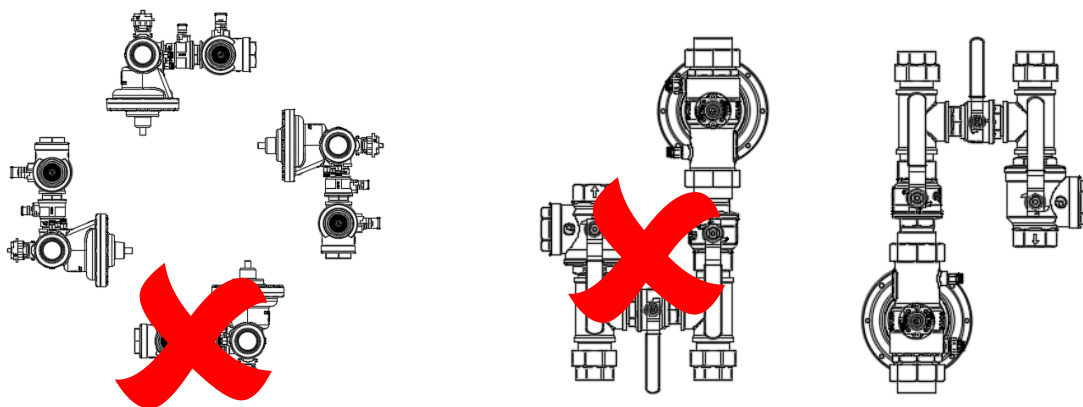
SN08



VA9208

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.

Please refer to specific technical specifications of actuators.