

DESCRIPTION

XT1680 - XT1690 - XT2070



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

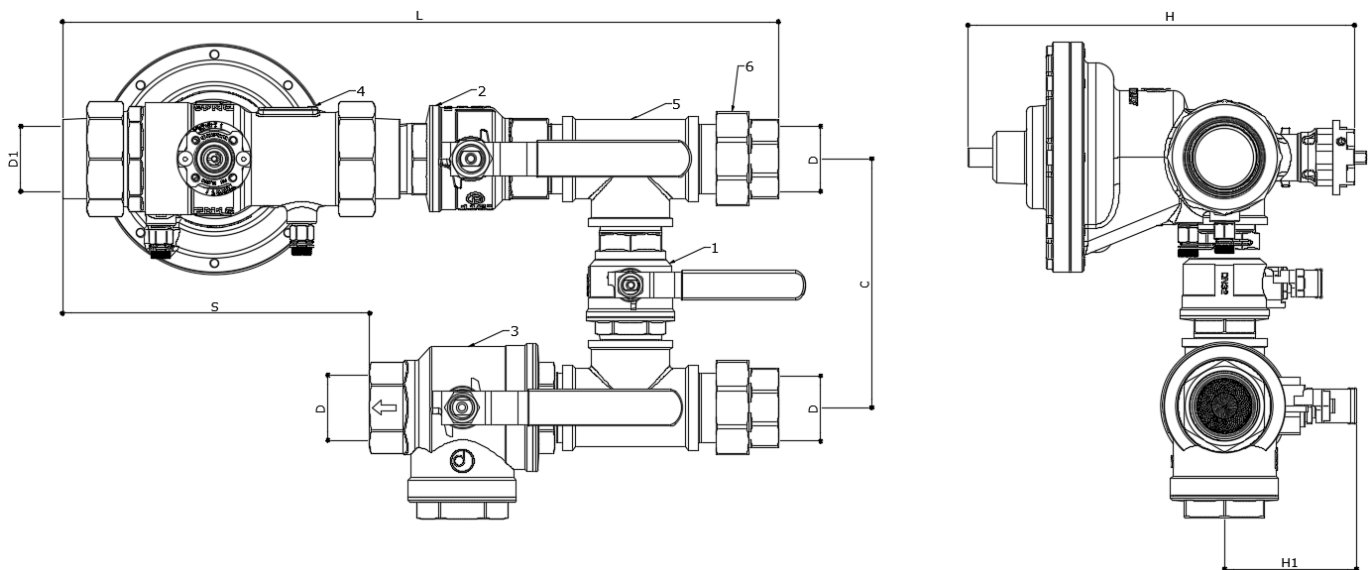
The kit is fully assembled except the PICV, which has to be assembled by the end user, and provides with all components required for commissioning and operation of AHU.

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 ¼" – 6000 l/h	1 ¼" Rp	1 ¼" Rc	460	191	168	265	82	14.7
XT1690 - 1 ½" – 9000 l/h	1 ½" Rp	1 ½" 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 ¼"	1	CuZn40Pb2 CW617N
2	51/2 1 ¼" – 1 ½" – 2"	1	CuZn40Pb2 CW617N
3	51F 1 ¼" – 1 ½" or 51FL 2"	1	CuZn36Pb2As CW602N NDA
4	83HPR1 1 ¼" – 6000 l/h 83HPR1 1 ½" – 9000 l/h 83VLP1 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 ¼" – 1 ½" – 2"	2	CuZn40Pb2 CW617N
6	701 1 ¼" – 1 ½" – 2"	2	CuZn40Pb2 CW617N

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

TECHNICAL FEATURES

Centre to centre [mm]	Connections	Flow range		PICV min ΔP	Assembly min ΔP	Kv by-pass	Filtering capacity
		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.

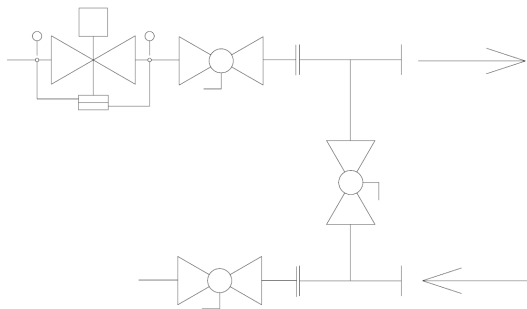
DATA

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.

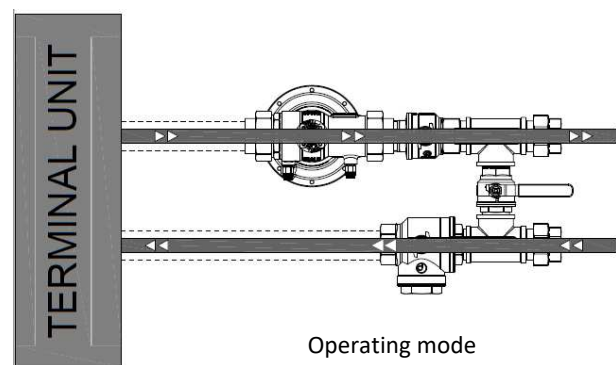
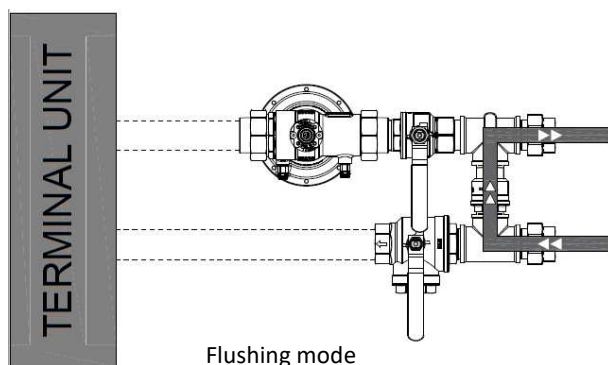
SCHEMATIC



ACCESSORIES

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

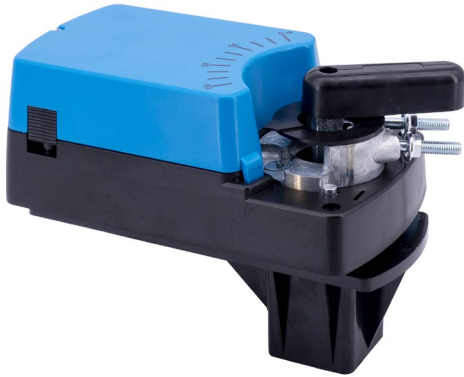
OPERATIONS



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°



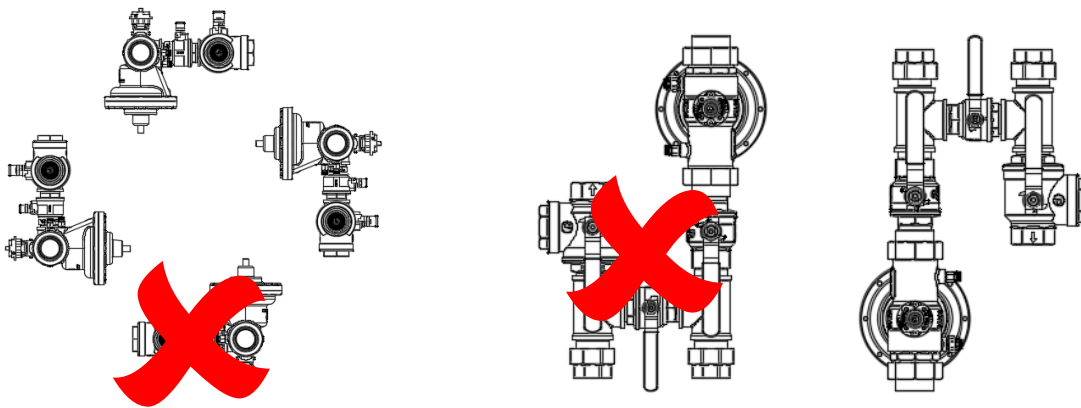
SN08



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.