DESCRIPTION

XT1694 – XT1694G

Prefabricated Commissioning Solution with flushing by-pass, **linear dirt resistant PICV 92 1 ½"** and **Filterball®** shut off valve with integrated strainer.

The kit is ready to be install and provides all components required for commissioning and operation of the terminal unit (FCU - AHU).

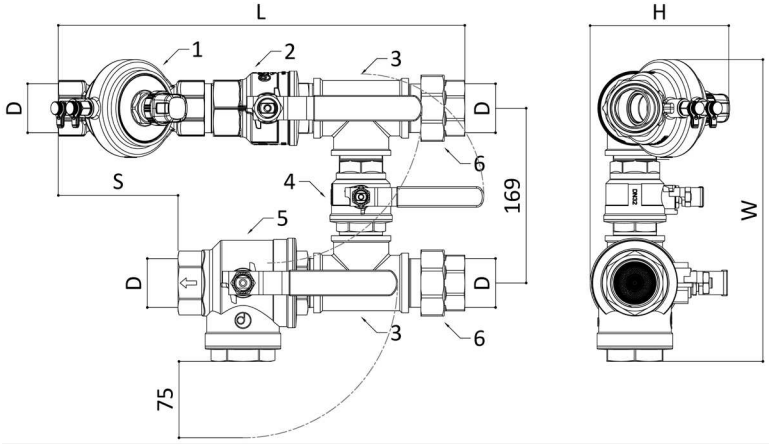
100% factory tested against leakage. Fully maintainable **PICV** with test points for commissioning and system optimization.

Filterball® valve with blowout proof stem, triple sealing technology and adjustable packing gland. Stainless steel filter FM28. Very easy to inspect and maintain.

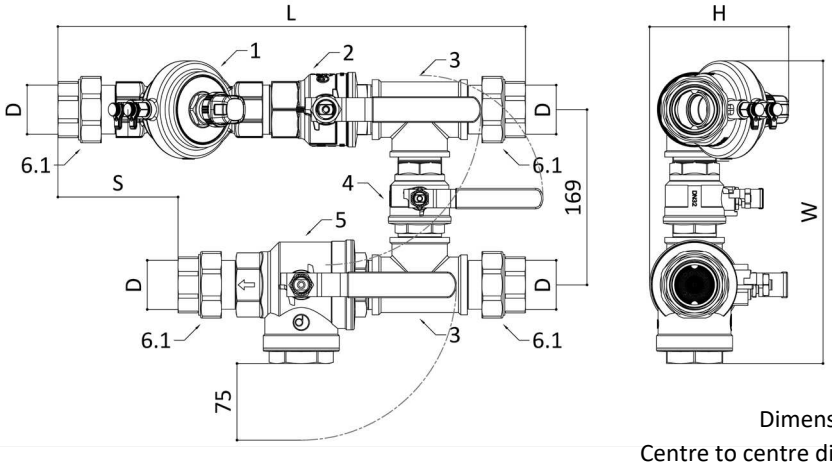
Also available in the NPT version. Soft thermal insulation available, if included the product part number becomes ***XT1694G*** (more informations in the ACCESSORIES chapter).

DIMENSIONS

BSP version



NPT version



Dimensions in **mm.**

Centre to centre distance can vary ±4 mm.

Kit	H	W	S	L	D	Weight [kg]
XT1694 – 1 ½" – 9000 l/h	136	295	117	397	1 ½"	9.85
XT1694 – 1 ½" – 9000 l/h NPT	136	295	117	455	1 ½" NPT	11.05

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MATERIAL LIST

#	Part number	Description	QTY	Material
1	92H 1 ½" – 9000 l/h	Linear PICV 92	1	CuZn36Pb2As CW602N NDA
2	51/1INV 1 ½"	Ball valve	1	CuZn40Pb2 CW617N
3	055/F 1 ½" x 1 ¼" x 1 ½"	TEE fitting	2	CuZn40Pb2 CW617N
4	51/2 1 ¼"	Ball valve	1	CuZn40Pb2 CW617N
5	51FINV 1 ½"	**Filterball®** valve	1	CuZn36Pb2As CW602N NDA
6	701 1 ½"	Connection fitting	2	CuZn40Pb2 CW617N
6.1	701NPTGAS 1 ½"	Connection fitting	4	CuZn40Pb2 CW617N

Please refers to dedicated technical specifications for further informations about components and their maintenance.

TECHNICAL FEATURES

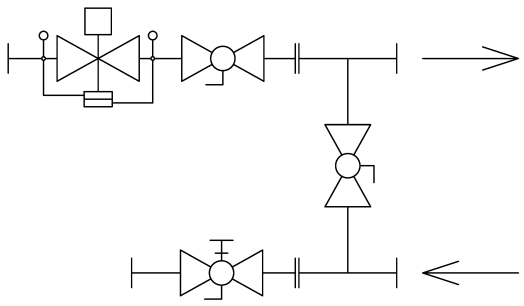
Centre to centre	Connections	Flow rate range		PICV min ΔP	Assembly min ΔP	Kv by pass	Filtering capacity
[mm]		Min [l/h]	Max [l/h]	[kPa]	[kPa]		[µm]
169	1 ½" F x 1 ½" F	1110	9000	40	50	20	700

DATA

Features	
Pressure rating	PN16
Flow rate range	1110÷9000 l/h
Working temperature range^	-10÷100 °C
Working differential pressure range	40÷600 kPa
Flow control accuracy (linearity and hysteresis)	In pos. 9; ± 5% till ΔP 1 bar, ± 10% for ΔP > 1 bar
Control valva characteristic	Linear
Control valve leakage rate to IEC 60534-4	Class IV
Thread types	BSP or NPT
Medium^^	Water or water+glycol 30%

^No frost and no steam. Under 0 °C glycol must be added. For temperature limits of the actuactors see their dedicated technical specifications. ^^Water quality must comply requirements mentioned in PICV technical specifications.

SCHEMATIC



ACCESSORIES

- Soft thermal insulation with **velcro®** (multiple opening-closing), UL rated. If included, the product part number becomes ***XT1694G***. For further technical details about the insulation, asmaterials and dimensions, please refer to the dedicated specification sheet "Thermal insulation";
- Drain valve and air vent valve;
- Additional pressure port on flow side.

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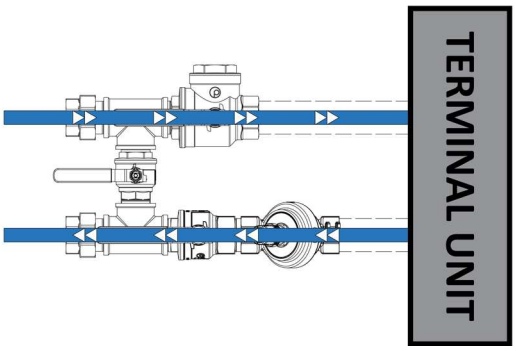
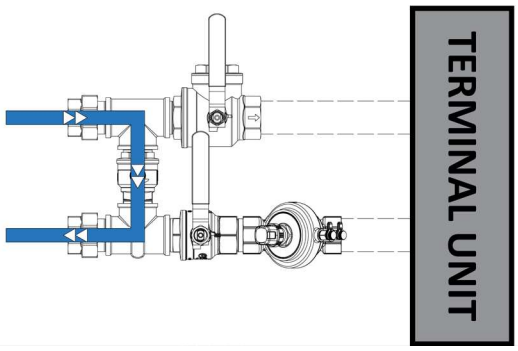
OPERATIONS



Operating mode



Flushing mode

ACTUATORS

Type	Part number	Stroke	Adaptor
24 V, 3 point floating – ON/OFF	RVAZ2	8,5*	0A748X
24 V, 0-10 V prop., feedback	RVAZ2C	8,5*	0A748X
24 V, 0-10 V prop., feedback	VA7493	8,7*	0A7493 (included)
120/230V, 3 point floating – ON/OFF	RVAZ2	8,5*	0A748X

For further informations about the actuators please refers to their dedicated technical specifications.

*Equipped with stroke detection system.

RVAZ2 series

VA7493

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 (Fig. 1). Furthermore, due to the presence of the **Filterball®** which has an integrated strainer, it is necessary to pay attention to the direction of installation of this latter. It must not be installed with flow orientation from bottom to top (Fig. 2).

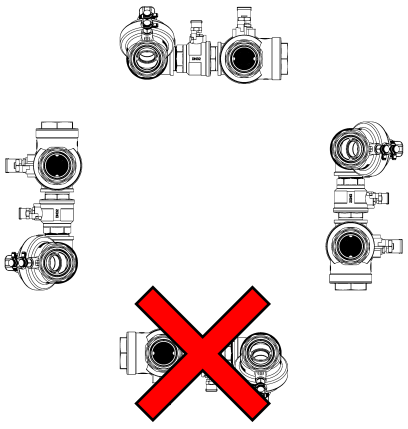


Fig. 1

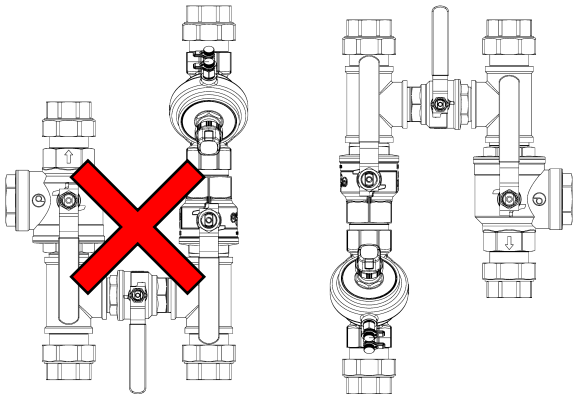


Fig. 2

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