PRE-ADJUSTABLE PRESSURE REDUCING VALVE

ART.2876-2877 — WITHOUT STRAINER

WITH PRESSURE GAUGE

AVAILABLE IN THE FOLLOWING SIZES: 1/2" - 3/4"

ART.2880-2881 — COMPLETE WITH STRAINER

WITH PRESSURE GAUGE

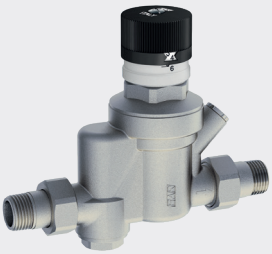
AVAILABLE IN THE FOLLOWING SIZES: 1/2" - 3/4"

ART.2878-2879

WITH PRESSURE GAUGE

AVAILABLE IN THE FOLLOWING SIZES: 1/2" - 3/4"

ART.2882-2883



WITH PRESSURE GAUGE

AVAILABLE IN THE FOLLOWING SIZES: 1/2" - 3/4"

1 DESCRIPTION

The main purpose of pressure reducers is to maintain constant pressure in the utilisation system even with variations of pressure upstream of the reducer.

In the absence of a pressure reducer, these fluctuations could cause stresses of a certain magnitude and thus cause malfunction or breakage of system components.

The pre-adjustable pressure reducers are available in two versions: a version without internal filter and a version with a 600μm filter.

Both versions can be ordered in 1/2" and 3/4" sizes, with or without pressure gauge.

CALIBRATION: PRESSURE SETTING

To set the downstream pressure, turn the handle up to the desired value, checking the appropriate notch on the handle itself.

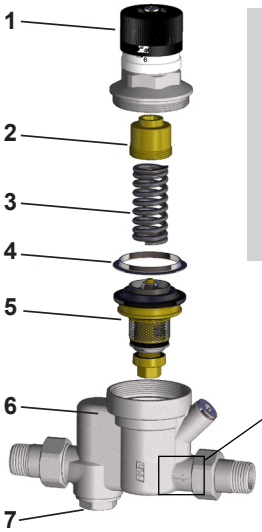
+ Clockwise:

downstream pressure level increases

- Counter-clockwise:

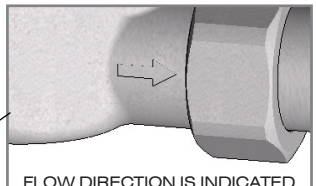
downstream pressure level decreases

2 CONSTRUCTION FEATURES



1 REGULATING HANDLE
2 CAP
3 SPRING
4 ANTI-FRICTION RING
5 CARTRIDGE
6 REDUCER BODY
*7 FILTER (600µm)

*Art.2880-2881-2882-2883 are equipped with an internal filters



FLOW DIRECTION IS INDICATED BY THE ARROW PLACED ON THE REDUCER BODY.

3 INSTALLATION

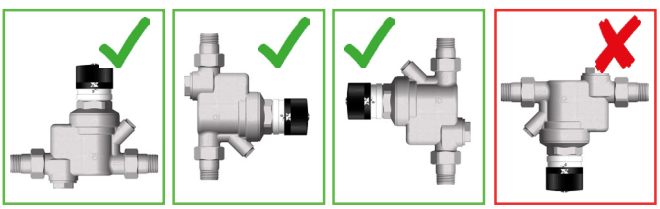
It is essential that the system is clean and free of debris, therefore an accurate cleaning of the pipework is recommended prior to installation.

It is also advisable that a strainer should be located upstream of the pressure reducer, even though a small filter is already built-into the cartridge. **The versions Art. 2880-2881-2882-2883 are already equipped with an internal filter.**

For easier access and maintenance the pressure reducer is normally located between two shut off valves, one downstream and one upstream.

Flow direction is indicated by the arrow placed on the reducer body.

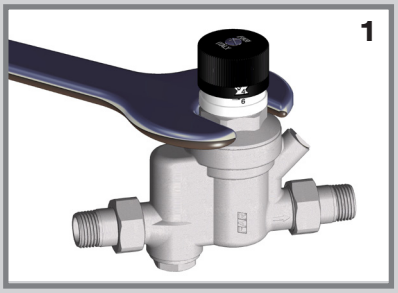
DO NOT INSTALL THE REDUCER UPSIDE DOWN



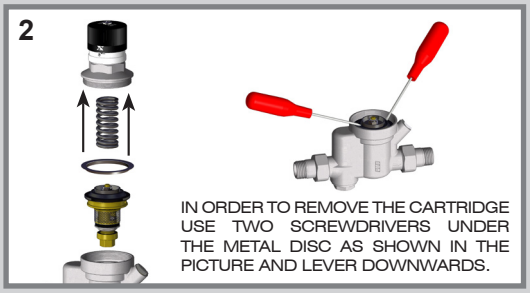
4 MAINTENANCE

The presence of a small strainer (built in to the cartridge 5) inside the reducing valve requires a regular maintenance, mainly in case of systems working with water rich of debris or with no strainer upstream. To carry out this operation you have to:

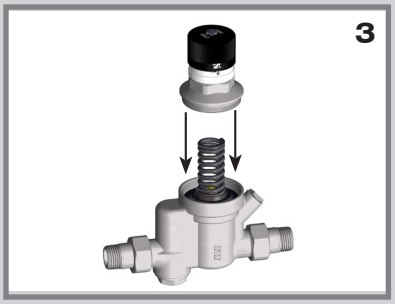
Close the shut off valves located before and after the pressure reducer



1- Using a 36mm wrench unscrew the upper part of the reducer.

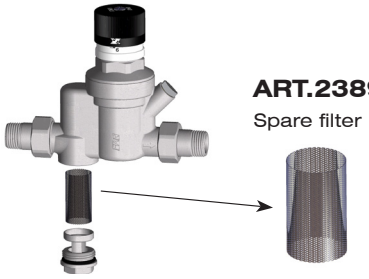


2- Remove the spring and the cartridge and carry out the cleaning. Should the cartridge be damaged, replace it.



3- Re-assemble properly all components into reducer and screw again

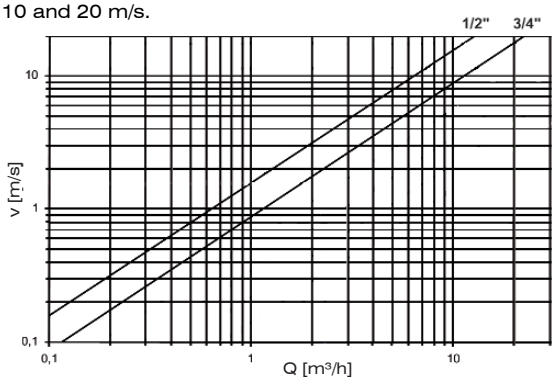
***Art.2880-2881-2882-2883** are equipped with an internal filters, that requires regular maintenance.



ART.2389
Spare filter

5 SELECTING THE REDUCING VALVE

In order to choose the size of pressure reducing valve best suited to the specific installation requirements, refer to the flow rate / speed diagram. Bear in mind that in order to reduce noise in the pipes it is best to work with a water speed ranging from 1 to 2 m/s or compressed air between 10 and 20 m/s.



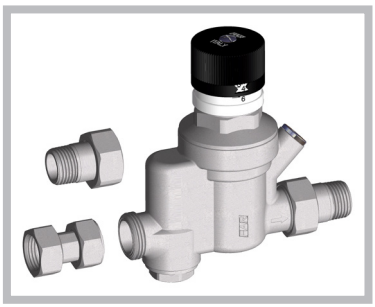
6 INSTALLABLE COMPONENTS

ART.8313 **ART.8323**


Available fittings M-F:
3/4" x 1/2" e 3/4" x 3/4"

ART.8311 **ART.8321**


Available fittings F-F:
3/4" x 1/2" e 3/4" x 3/4"

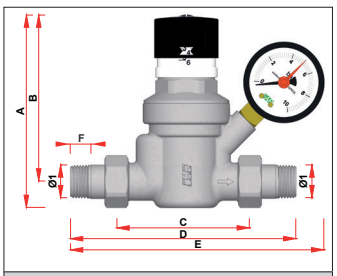


ART.2893
Spare cartridge for pressure reducing valve

7 TECHNICAL FEATURES

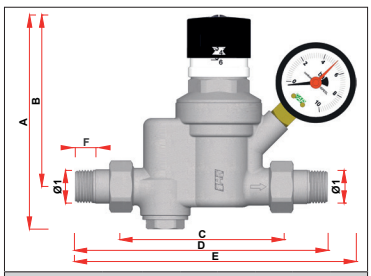
· Reducer body material:	CB770S Brass
· Max. working inlet pressure:	25 bar
· Downstream setting pressure:	1-6 bar
· Min. working temperature:	5 °C
· Max. flow temperature:	75 °C
· Compatible media:	water and air

8 DIMENSIONAL FEATURES



ART. 2876-2877-2878-2879

CODE	Ø1	A	B	C	D	E	F
2876-2878 12	1/2"	122	106	82	143	--	13
2876-2878 34	3/4"	122	106	82	154	--	14
2877-2879 12	1/2"	122	106	82	143	161	13
2877-2879 34	3/4"	122	106	82	154	167	14



ART. 2880-2881-2882-2883

CODE	Ø1	A	B	C	D	E	F
2880-2882 12	1/2"	137	110	100	161	--	13
2880-2882 34	3/4"	137	110	100	172	--	14
2881-2883 12	1/2"	137	110	100	161	179	13
2881-2883 34	3/4"	137	110	100	172	185	14