

 SCHEDA N°
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Mini pressure reducers Art. 9011 - 9012 - 9013



100% MADE IN ITALY

Function Pintossi + C mini pressure reducers with piston have the function to reduce and stabilize fluids pressure in a distribution system, in accordance with the set value. This product is particularly indicated to avoid damages on system components when pressure gets to high levels.

The small dimensions and silent functioning make the mini pressure reducer particularly indicated for domestic houses and apartments.

The setting of the outlet pressure is very precise thanks to the internal components' materials, granting low head losses. This model can be used in domestic systems, conditioning systems, irrigation systems, sanitary systems, compressed air systems, etc.

The pressure reducer is certified to be used with drinking water and made in accordance with Italian D.M. 174/2004.

Product range	Art. 9011 Art. 9012	Nickel plated Yellow Brass	FF FF	
	Art. 9013	Nickel plated	Compression	
Technical	Fluidi:		Acqua o soluzioni glicoliche e aria	
10000000	Glicole max:		30%	
specifications	Temp. max esercizio:		0°08	
	Pressione max a monte: Preregolazione: Campo regolazione a valle:		16 bar	
			3 bar	
			1-4 bar	
	Connessione manometro:		1/4''	
Materials	Body:		Brass CW617N	
	Screw:		Brass CW617N	
	Gaskets:		NBR	
	Seat:		Stainless steel	
	Stem:		Stainless steel	

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Dimensions

ART.	Ø	DN	Н	L
0011	1/2''	15	95	61
9011	3/4''	20	95	62
0010	1/2''	15	108	61
9012	3/4''	20	108	62
9013	15	15	108	73



Installation Pintossi + c pressure reducers can be installed in every position.

Before making the installation, it's important to clean the system and discharge it from air that could be present inside. To grant a correct functioning and make easier maintenance operations is highly recommended to install it together with the following products:

- A self-cleaning filter in the different model available (art.9060-9065) or a Y filter (art.9023) upstream, in order to grant the cleaning of the inlet fluid that otherwise could damage internal pressure reducer components;
- A shut-off valve (art. 5130) upstream and downstream, in order to be able to isolate the pressure reducers during
 ordinary and extraordinary maintenance;
- A water-hammer absorber (art.9019) downstream, to avoid that unexpected pressure increases could damage the system components;
- An **expansion vessel** in system where are present hot water heaters or hot water storage. The vessel should be installed between the pressure reducers and the boiler.

Pressure setting

Pintossi + C pressure reducers are 100% tested and pre-set to a outlet standard pressure of 3 bar. In any case the outlet pressure can be easily changed inside the outlet pressure setting range.

To modify this value follow next steps:

- 1. Loose the ring which push on the spring to remove tense on the spring itself;
- 2. Turn clockwise to increase the outlet pressure;
- 3. Turn anti-clockwise to reduce outlet pressure.









Cavitation phenomenon phenomenon To limit as much as possible cavitation phenomenon, that could make problems in pressure reducers functioning, like noise and sealing problems, is highly recommended to maintain the upstream and downstream pressure ratio between the values shown in the graph below:



Calculation example: upstream pressure 8 bar, downstream pressure 4 bar, pressure ratio 2:1.

Thanks to the specific design and the use of very resistant materials for internal components, such as stainless steel, Pintossi + C pressure reducers are particularly efficient, being able to work in standard conditions with **pressure ratio 5:1**. Cavitation phenomenon evaluations, in addition to the above indications, must take into consideration even other factors that can affect it directly, like system fluid temperature, air presence, etc.

In the situation where it could be necessary, for the specific type of installation, exceed this value, is recommended to use more pressure reducers in line, in order to split the pressure ratio on more products.

Fluid Reference standard for water treatments in heating systems is Norm UNI 8065:2019 which regulates the parameters that must be observed to avoid scale and corrosion phenomena. Characteristics In order to grant product warranty, the fluid characteristics must comply with the rules in force in the country of relevance

In order to grant product warranty, the fluid characteristics must comply with the rules in force in the country of relevance or at least present features not less to the ones prescribed by the Norm UNI 8065:2019.

In particular, minimum standards necessary but not sufficient to control are the following:

Fluid aspect:	Limpid
PH:	Between 7 and 8
Iron (FE):	< 0,5 mg/kg (< 0,1 mg/kg for steam)
Copper (CU):	< 0,1 mg/kg (< 0,05 mg/kg for steam)
Antifreeze:	Passiveted Propylene Glycol
Conditioning:	as indicated by the producer

In any case when using antifreeze and conditioning solutions, is required to control and verify the correct compatibility between these substances and the construction materials stated in Pintossi+C technical datasheet.

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