

Series:

Art. 300000 from 1/2" to 1 1/4": outlet setting by means of a wheel handle, with numbered and adjustable display.

Art. 300030 from 1/2" to 2": outlet setting by means of an allen key.

Art. 300050 from 1/2" to 1 1/4": outlet setting by means of a wheel handle, with numbered and adjustable display, assembled with a self-cleaning strainer.

Connections:

a) Both sides outer Male with union tails as per EN 10226/1-R standard.
b) F/F as per EN 10226/1-Rp.

c) From 1/2" to 1 1/4" sizes, n° 2 female 1/4" threaded.

connections as per EN 10226/1-Rp for pressure gauge.

d) For 1 1/2" and 2" sizes, n° 2 female 1/4" threaded connections as per ISO 228-G for pressure gauge.

DN:

Art. 300000-300050 from DN15 to DN32.

Art. 300030 from DN15 to DN50.

Strainer:

a) From 1/2" to 2" stainless steel AISI304 fitted on the inlet, filtration capacity 500 µm (F)

b) From 1/2" to 1 1/4" stainless steel AISI304 REPS mesh, filtration capacity 100 µm (F1).

Brass body: CW617N, UNI EN 12165

Yellow finished and sandblasted art. 300030 1 1/2" and 2" with replaceable stainless steel AISI316 obstructor.

Testing:

By means of electronic test bench on 100% of production.

WORKING CONDITIONS

Inlet nominal pressure (PN) in bar:

Art.300000 e 300030: 30 bar, Art.300050: 16 bar.

Setting of the outlet pressure: from 1.5 to 6 bar.

Lowest differential pressure: 1 bar.

Kv value (m³/h): please refer to the chart.

Working temperature: water and air from 0°C to +70°C.

Suitable for: water and air; other fluids on request.

Notice: the fluid intercepted by the pressure reducing valve must be compatible with its materials.

Additional information regarding compatibility with materials are available with the technical office RUBINETTERIE BRESCIANE.

Fluid direction: ONE-WAY (as per arrow on the body).

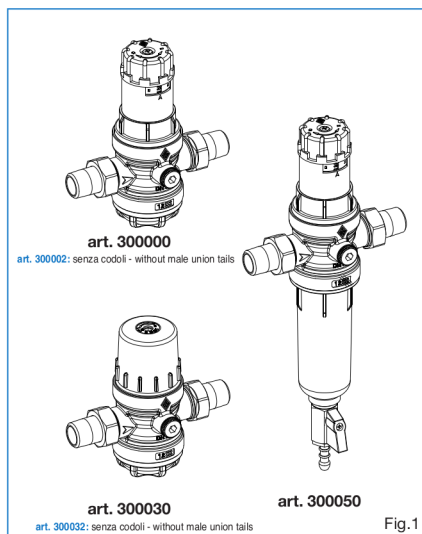


Fig.1

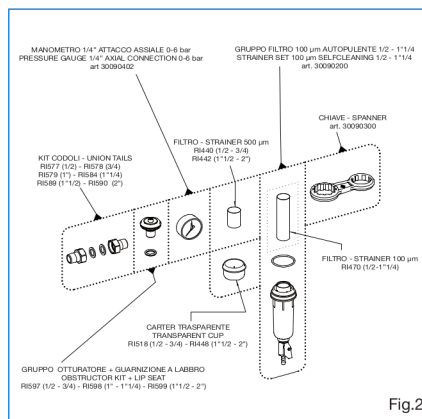
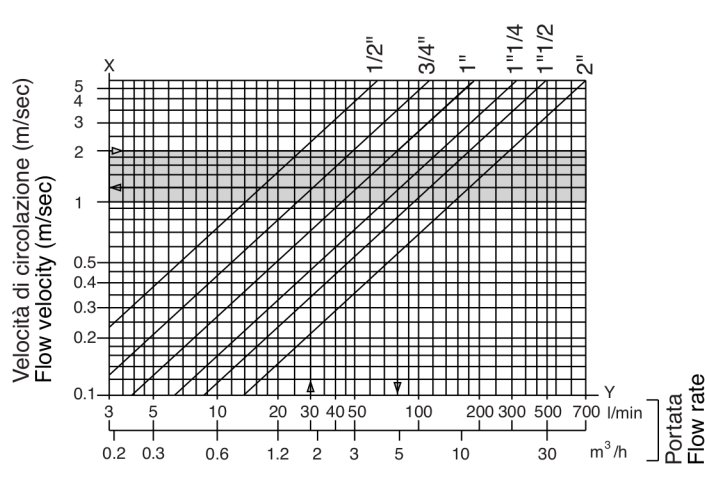
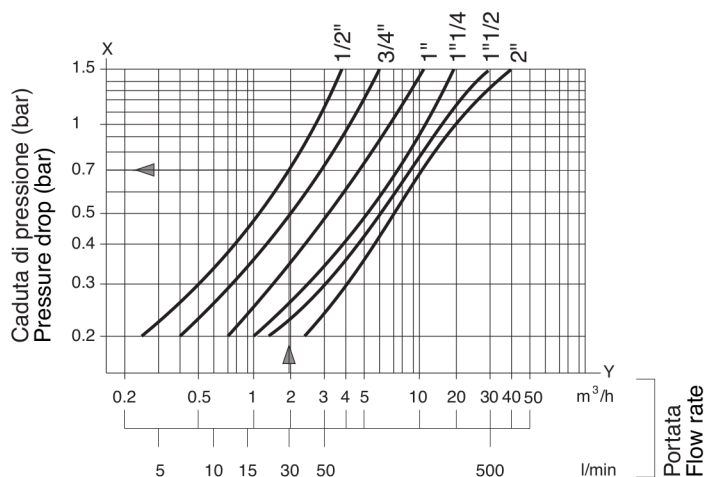


Fig.2



How does a pressure reducing valve and/or a pressure reducing valve with self-cleaning strainer work:

The pressure reducing valve "EURO" of RUBINETTERIE BRESCIANE BONOMI is made with a balanced seat system capable to maintain a stable outlet pressure to protect the down-stream pipeline from inlet pressure peaks and water hammer. It might be installed on either the up-stream and down-stream side of the water meter.

FILTRATION:

The fluids are intercepted at the inlet by a large inspectionable strainer from 500 to 100 micron mesh to protect the inner part and reduce water consumption significantly too.

WHERE TO USE:

Hospitals, hotels, houses, industries, whenever control of pressure is required.

INSTALLATION:

NOTICE:

- The installation shall be made in compliance with the state of the art.
- The installation site must be easily accessible and clearly visible for maintenance purposes. A frost isolation must be provided.

IT IS SUGGESTED

Inlet: to fit a shut-off ball valve (X).

Outlet: to fit a check valve art. 100000 (R) on the down-stream side along with a shut-off hose ball bib-cock art. 4904 (Y) for draining purposes and an additional shut-off ball valve art. 2020 (Z).

ASSEMBLY OF THE PRESSURE REDUCING VALVE:

- Close both the inlet (X) and outlet (Y and Z) shut-off ball valves.
- Fit the threaded connections of the pressure reducing valve to the pipeline.
- Open the inlet shut-off valve (X) and check if any leakage at both connections.
- If tight, open the down-stream shut-off ball valve (Z) too.

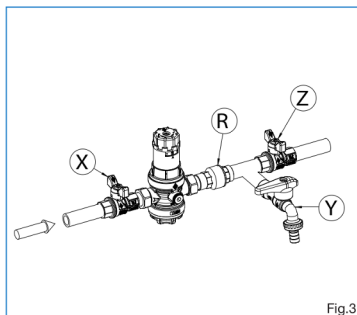


Fig.3

SETTING OF OUTLET PRESSURE (FIG.4)

INCREASING THE OUTLET PRESSURE:

1) Shut-off the ball valve (Z) on the down-stream side, turn clockwise the blue wheel until the requested down-stream pressure value appears on the yellow display.

Notice: if a precise down-stream pressure is required please proceed as follows.

2) Close both the inlet (X) and outlet (Z) shut-off ball vales and drain the pressure by means of the bib-cock (Y).

3) Fit the pressure gauge on the body and then open the inlet shut-off ball valve (X).

4) • Art. 300000 and 300050: turn clockwise the blue wheel by means of the spanner art. 30090300 and check the pressure on the gauge.
• Art. 300030: turn clockwise and set by means of an allen key.

5) Open for few seconds only the drain bib-cock (Y) and close it again slowly.

6) If gauge shows a pressure drop, please repeat procedure from point 4.

DECREASING THE OUTLET PRESSURE:

1) Turn counterclockwise the blue wheel until the requested down-stream pressure value appears on the yellow display.

Notice: if a precise down-stream pressure is required please proceed as follows.

2) Close both the inlet (X) and outlet (Z) shut-off ball vales and drain the pressure by means of the bib-cock (Y).

3) Fit the pressure gauge on the body and then open the inlet shut-off ball valve (X).

4) • Art. 300000 and 300050: turn counterclockwise the blue wheel by means of the spanner art. 30090300 and check the pressure on the gauge.

• Art. 300030: turn counterclockwise and set by means of an allen key.

5) Open for few seconds only the drain bib-cock (Y) and close it again slowly.

6) If gauge shows a pressure drop, please repeat procedure from point 4.

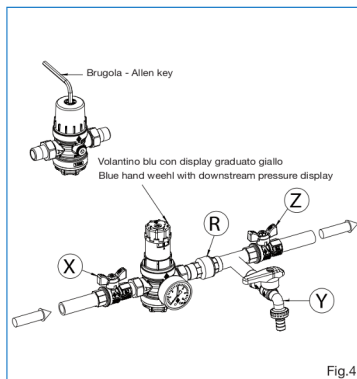


Fig.4

MAINTENANCE OF THE STRAINER (FIG.5)

• Art. 300000 and 300030

It is suggested to periodically check the transparent cup (D) containing the strainer. If cleaning is required, these are the instructions:

1) Shut-off both inlet (X) and outlet (Z) ball valves; unscrew the bottom brass cage (E) by means of the spanner art. 30090300.

2) Remove the strainer (F) and clean it with water.

3) Insert the strainer (F) into the plastic cup (D) and fit them into the pressure reducing valve.

4) Screw the bottom brass cage (E).

5) Slowly open the inlet shut-off ball valve (X) first and then, slowly again, do open the outlet shut-off ball valve (Y) to fill the pipeline.

Notice: the installation of the long self-cleaning strainer art. 30090200 instead of the standard one, can be effected by means of the same spanner art. 30090300 (suitable for pressure reducing valves from 1/2" to 1 1/4" only).

• Art. 300050 with self-cleaning strainer

1) Clean the strainer by opening for at least 15 seconds the drain ball valve (M) fitted on the bottom side of the cup (T).

2) For a more accurate cleaning of the cartridge (F1), do remove the entire strainer (T) from the pressure reducing valve by means of the spanner art. 30090300.

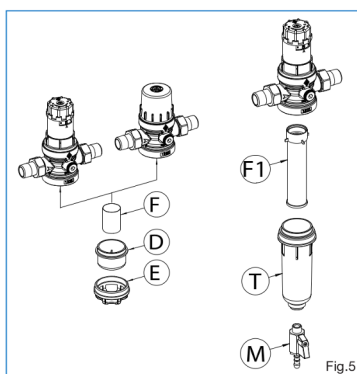


Fig.5

PERIODIC CHECK OF THE PRESSURE REDUCING VALVE (FIG.6)

It is suggested to check the pressure reducing valve once a year.

MOST IMPORTANT: it is recommended that maintenance is made by qualified staff.

1) Shut-off both the inlet and outlet valves (X e Z) and drain pressure by means of the valve (Y).

2) Remove plug and fit pressure gauge, open inlet valve (X).

3) Open the drain valve (Y) for a few seconds and then shut it off slowly.

4) Check that pressure shown on the gauge remains stable and matches with the downstream pressure value on the yellow display.

In case of pressure changes (for instance the pressure tends to increase) please proceed as follows:

5) Shut-off both inlet (X) and outlet (Z) ball valves.

6) • Art. 300000 and 300050: without removing the blue wheel, unscrew the black cap (G) by means of the spanner art. 30090300, then by means of a pliers pull and remove the shutter.

• Art. 300030: unscrew with most care the cap (C) by means of a spanner.

7) Do check all seats, the membrane and all parts of the shutter.

8) If required, do replace the whole shutter (please refer to the spare kit Fig. 2).

9) Carefully assembly all parts again and tighten.

WARNING: Screw the cap (C o G) by hand, till the end. Then, tighten by means of proper tools as shown in Tab. 1.

10) Open both shut-off valves (X) and (Z) with care.

11) Check the downstream pressure by means of a sample gauge.

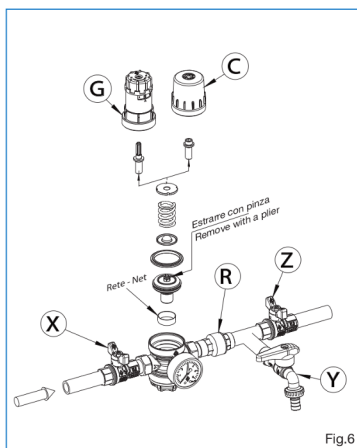


Fig.6

MISURE SIZE	GIRI DI SERRAGGIO TIGHTENING TURNS	
	MIN.	MAX.
1/2" - 3/4" - 1 1/2" - 2"	1/4	1/3
1" - 1 1/4"	1/3	1/2

Tab.1