



**METLLIC PILOT 3 WAY
REDUCER**

METALLIC PILOT

3 WAY REDUCER:

Reference PI024123HR



The model 123HR pilot has the 2-way pressure reduction function acting by the diaphragm, which is in the open position given the spring pressure that acts on the diaphragm. When the pressure downstream of the valve exceeds the regulated point, the water flow is closed, thus achieving pressure regulation.

The 2-way pilot is simpler and easier to assemble than the 3-way pilot; It is also more sensitive and allows greater accuracy in regulation and more stable behavior. Designed and manufactured by ROMYSPAN.



TECHNICAL CHARACTERISTICS:

- PN 12 bar (175 psi)
- BSP 1/4" female connections
- Working range
 - 1,5 – 16 bar (21,75-232psi)



EXPLODED AND MATERIALS

Component	Material
Body and lid	Brass
Dock	Stainless steel
Diaphragm	Natural rubber
Screw nut	Stainless steel
Axis	<ul style="list-style-type: none">• Stainless steel• Nickel plated brass
O-rings	NBR

FUNCTIONING

- The inner shaft acts as a passage plug at the downstream outlet of the main valve chamber. When downstream pressure increases, the pilot limits emptying of the valve chamber, leaving it in a more closed position and thereby reducing downstream pressure.
- If the downstream pressure drops, the pilot allows partial emptying of the valve chamber, leaving it in a more open position and increasing the downstream pressure.
- This pilot is capable of regulating both dynamics and statics. If there is no water consumption, the pilot closes the valve, leaving the preset pressure downstream.

INSTRUCTIONS FOR PRESSURE REGULATION

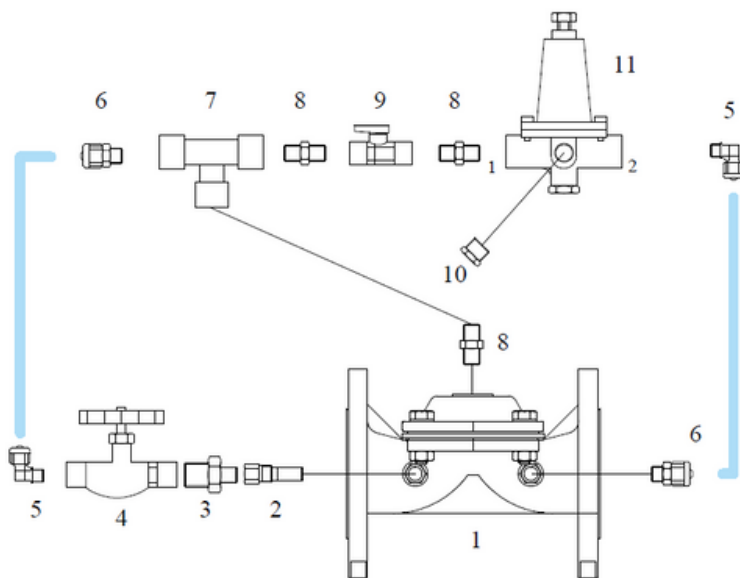
- The upper pilot screw is used to regulate the pressure.
 - By tightening the screw we increase the balance pressure.
 - By loosening the screw we will decrease the balance pressure.

Note: The screw will be turned little by little so that the pressure stabilizes.
- When you reach the desired pressure, fix the position of the screw with the nut

INSTALATION AND MAINTENANCE

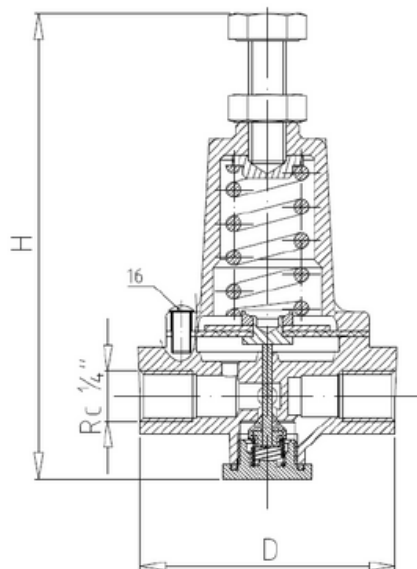
- For correct operation of the pilot, it is recommended to respect the assembly diagrams, using the appropriate fittings for the type of thread.
- Seal the connectors with liquid or tape Teflon. Both the installation and handling of the pilot will be carried out with appropriate tools and by qualified personnel.

ASSEMBLY EXAMPLES



ID	NAME
1	1
2	1 1/4" INLET FILTER
3	1 MACHON 1/4" - 1/8"
4	1 NEEDLE VALVE 1/4"
5	2 ELBOW MALE THREAD 1/4"
6	2 1/4" MALE THREAD CONNECTOR
7	1 1/4" MALE THREAD
8	3 MACHON 1/4"
9	1 BALL VALVE 1/4"
10	1 1/4" PLUG OR MANOMETER
eleven	1 PILOT REDUCE 2 WAY

MEASURES



EXTENT	DIMENSION
h	128mm
d	67mm
Passage section	4mm



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