



## METALLIC PILOT REDUCER/SUPPORTER

# METALLIC PILOT

## REDUCER/SUPPORTER:

Reference PI00010



It is a 3-way pressure regulation pilot that is connected as a control system to the hydraulic valve, whose function is to regulate the pressure and depending on its installation, it can convert your valve into a pressure reducer or sustainer. It can also be used as a limiter, relief pilot, etc.

It is made up of a metal body with 3-way connections, an adjustable spring using the screw and a diaphragm. This metal pilot has been designed and manufactured by HR ROMYSPAN to work at high pressures.

### TECHNICAL CHARACTERISTICS:

- PN 16 bar (232 psi)
- BSP 1/8" female connections
- Working range
  - 1,5 – 16 bar (21,75-232psi)



### EXPLODED AND MATERIALS

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

## FUNCTIONING

- The inner shaft acts as a selector that communicates a common passage with one of the two remaining passages connecting the common passage to the valve chamber and one of the other passages to the pressure.
- The displacement of the shaft connects the chamber to the atmosphere to open the valve or pressurizes it to close it.

## 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.





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