







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	
Body and lid	Brass	
Dock	Stainless steel	
Diaphragm	Natural rubber	
Screw nut	Stainless steel	
Axis	<ul><li>Stainless steel</li><li>Nickel plated brass</li></ul>	
O-rings	NBR	
shaft housing	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.

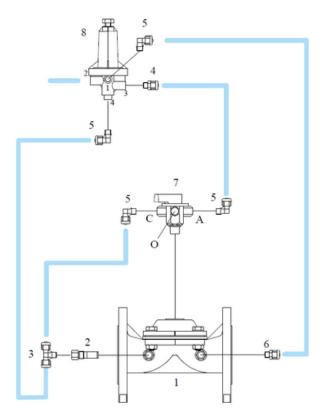
Note: The screw will be turned little by little so that the pressure stabilizes.

When you reach the desired pressure, fix the position of the screw with the nut

# **INSTALATION AND MAINTENANCE**

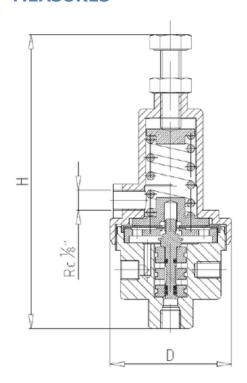
- □ For correct operation of the pilot, it is recommended to respect the assembly diagrams, using the appropriate fittings for the type of thread.
- Seal the connectors with liquid or tape Teflon. Both the installation and handling of the pilot will be carried out with appropriate tools and by qualified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

# **ASSEMBLY EXAMPLES**



ID	YOU.	NAME
1	1	HYDRAULIC VALVE
2	1	1/4" INLET FILTER
3	1	1/4" MALE THREAD
4	1	1/8" MALE THREAD CONNECTOR
5 6	4	ELBOW MALE THREAD 1/8"
_	1	1/4" MALE THREAD CONNECTOR
7	1	3 WAY VALVE
8	1	REDUCTION PILOT

# **MEASURES**



EXTENT	DIMENSION
h	145
d	65
Passage section	3.5mm



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