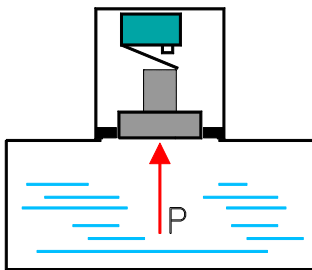
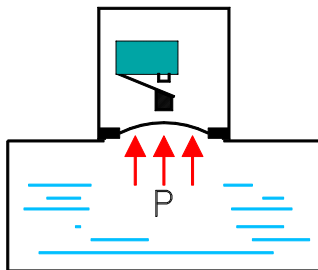


TECHNOLOGY



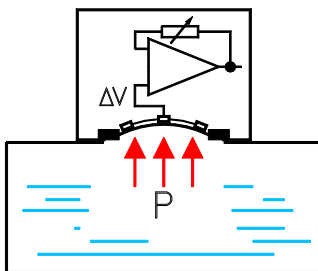
Piston

A piston, housed in a pressure chamber, moves according to the applied pressure. The movement is transferred to an electrical adjustable contact.



Diaphragm

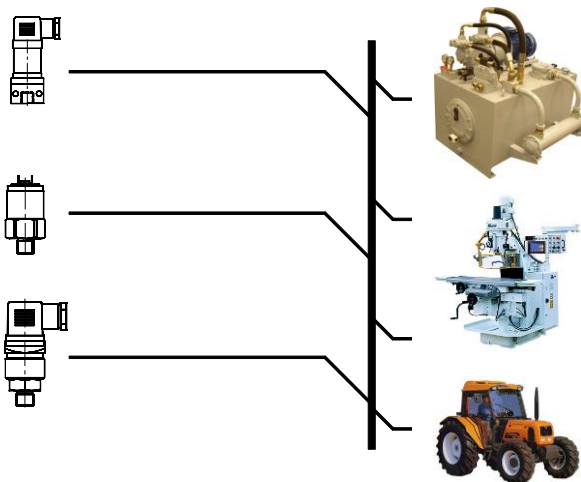
A diaphragm, housed in the pressure chamber, moves according to the applied pressure. The movement is transferred to an electrical adjustable contact.



Piezoresistive system

A piezoresistive element generates, at change of the pressure applied, a linear signal proportional to the pressure itself.

FIELDS OF APPLICATION

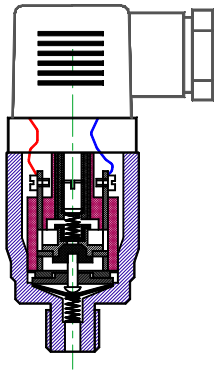


- Pressure monitoring in industrial processes.
- Activation of audible or visible alarm.
- Starting and stopping pumps, autoclaves.
- Lubrication systems.
- Filtration systems, differential pressure control.
- Compressors.
- Equipment and printing machines.

ADVANTAGES

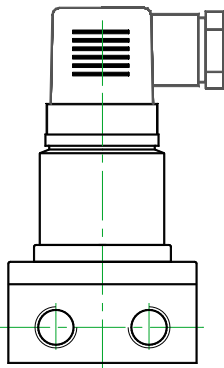
- Simple structure device.
- Long service life.
- Maintenance free.
- Remote electronics or built in.

SYSTEM DESCRIPTION



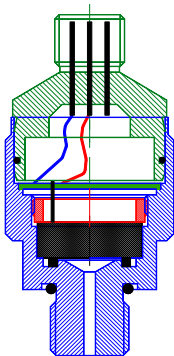
Pressure switch

The measuring element, diaphragm or piston, is enclosed in a sturdy metal body and supported by one or more springs. When the applied pressure exceeds the force of the setting springs, the movement of the measuring element acts, directly or through a lever mechanism, an electrical contact.



Differential pressure switch

The diaphragm measuring element, is enclosed in a sturdy metal dual pressure chamber. The diaphragm is supported and placed in equilibrium by one or more springs. When the applied pressure between the two pressure chambers becomes unbalanced, the movement of the measuring element is transmitted through a lever system to the electrical contact.




Transmitter

The ceramic measuring element is enclosed in a metal body. On the opposite side, to where the pressure is exerted, is deposited a measurement resistive bridge, realized in thick film technology, with temperature compensation. The infinitesimal variations of the curvature of the diaphragm cause an unbalancing of the measuring bridge. The detected voltage is amplified and converted, by an electronic circuit, into an industrial signal.

TECHNICAL DATA

Concept	Measuring cell – Diaphragm – Piston
Process connection	1/4" ÷ 1/2" DN08 ÷ DN15
Type of connection	Threaded
PN	0,1 - 600 bar
Max. temperature	125 °C
Output signal	Switch – 0/10V – 4/20 mA
Adjustable	Yes
Materials	Brass – Steel – Stainless steel

EXECUTIONS

- **IP65 Protection**
DIN 43650A output or cable output.
- **IP67 Protection**
M12x1 - 4 poles connector output.
- **IP65 Protection - ATEX II 2G Ex d IIC T5/T6** 
Cable output