

Bailey & Mackey Ltd



Type 14 & 14 HP

Type 14 and 14HP pressure switches are used for monitoring system pressure in all non-corrosive gases and non-corrosive liquids except those with high viscosity.

- Miniature Pressure Switches
- Diaphragm Operated
- For Water, Air, Oil etc...
- Factory Set or Field Adjustable
- Rated 5A at 250V 50Hz
- CE Marked
- Gold Contacts Available
- Plug & Socket Available
- Overload Protection Available (4 bar and above)



Mechanical Specifications

Pressures

Pressure Range	Hysteresis
-1 to -0.15 bar	0.08 bar
0.15 to 1 bar	0.08 bar
0.4 to 4 bar	0.3 bar
1 to 11 bar	0.9 bar
2 to 25 bar	1.25 bar
14HP	
25 to 200 bar	4 bar

Electrical Ratings

Switching is effected by means of a micro-switch rated at 5 Amp 250V 50Hz. For other voltages and current ratings please consult our Technical Sales Department

Standard Materials

Type 14

Pressure Connection	Brass
Body	Polyethelene
Seal	Nitrile Rubber
Diaphragm	Beryllium Copper

Type 14HP

This switch is a modified Type 14 for use with High Pressure applications

Pressure Connection	Brass
Body	Polyethelene
Element	Phosphor Bronze Bourdon Tube
Setting Accuracy	+/- 6%
Temperature Limits	-10°C to 60°C (Process fluid must not solidify)

Further Info

Vacuum Use

These switches will not be damaged by the application of Vacuum; but a requirement for the switch for the switch to be set to operate in vacuum should be specified when ordering as a minor modification is required. On a pressure switch set to operate on vacuum the micro-switch will be in the operated condition at atmospheric pressure so the wiring should be reversed i.e NO becomes NC

Corrosive Applications

The connection can either be Stainless Steel or UPVC (Max. 11 bar). The diaphragm can be protected from corrosion by fitting a thin disc or PTFE (switches fitted with protection disc should not be subject to vacuum).

Seals can be PTFE, Viton or EPDM.

Maximum Pressure

To ensure long service and life select the pressure range as follows:

Dynamic pressure applications $P_{max} = 75\%$ of Range

Static pressure applications $P_{max} = 100\%$ of Range

Maximum Pressure that can be applied is 125% of pressure range

Technical Drawing

