

USER'S GUIDE

MANUAL

for

Pressure / Vacuum Switches Settings



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An ISO 9001: 2015 Certified Company & NABL Accredited Calibration Laboratory as per ISO/IEC 17025: 2005

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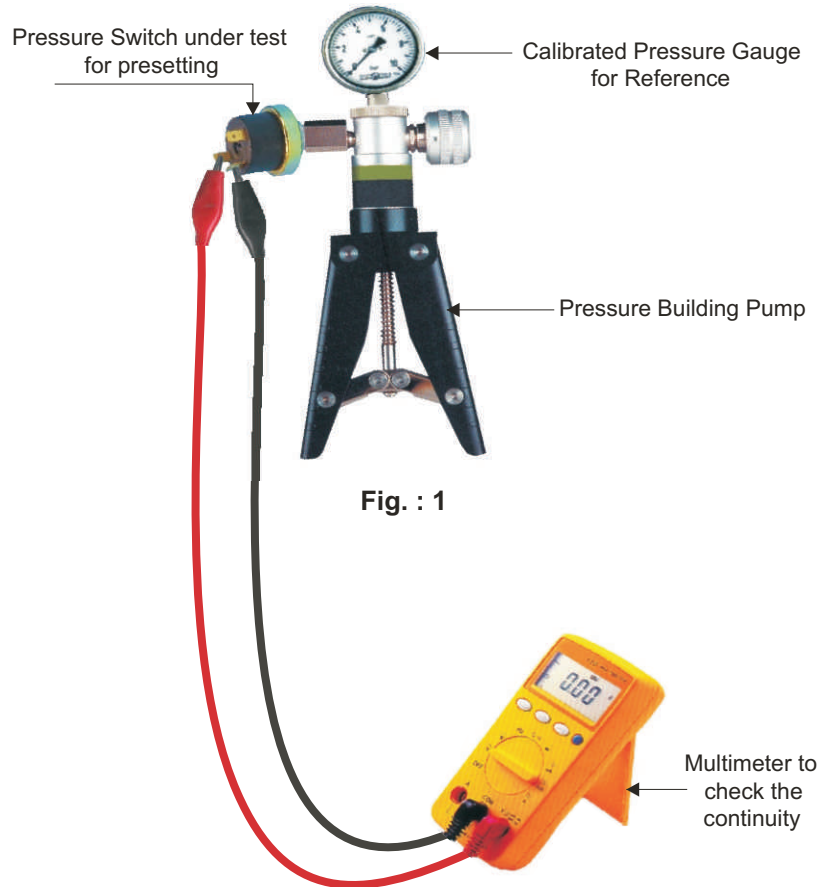
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Doc no: HTAIPL/MAN/Matter Switch Settings-14

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Connection Diagram of Pressure Switch Setting :



- f) Adjust the pressure setting screw such that there is a continuity established in the multimeter, which shows that the switch is set at 4.0bar.
- g) Reduce the pressure to zero & apply pressure gradually check the switching action is exactly at 4.0 bar, repeat it 4 to 5 times for repeatability.
- h) Please note that the pressure switch action is subject to the Tolerance of the pressure switch given in respective catalogues.

Note :

1. Setting screw should not be at extreme inside or outside.
2. Make sure that pressure should not exceed the range of pressure switch.

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5. For example, To set pressure at 4.0 bar for NO / NC - type Pressure Switch having operating range of 2 to 6 bar.

- a) Mount the pressure switch, pressure gauge, pressure generating device & multi-meter as Fig-1.
- b) Ensure the setting screw is as shown in Fig. 3.

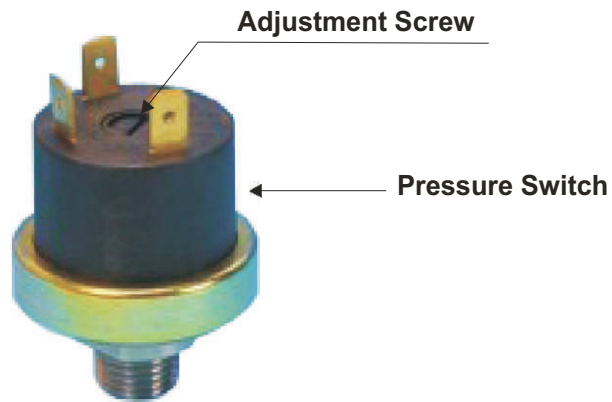
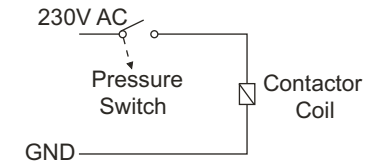
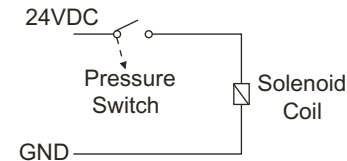


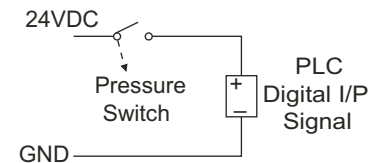
Fig. : 3 Inside View of Pressure Switch

- c) Adjust the pressure setting screw in clockwise for increase & anticlockwise for decrease
- d) Start the pressure generating device to develop pressure to achieve 4.0 bar on the pressure gauge.
- e) Now check continuity using a multimeter, there should be no continuity between pin C & NO.

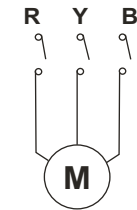
Typical Application :



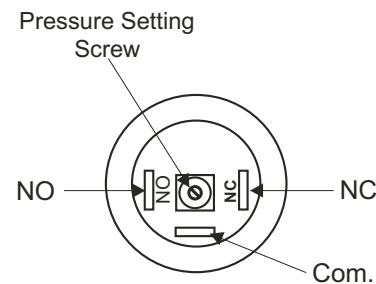
To Operate Solenoid Valve



As a signal Input to PLC

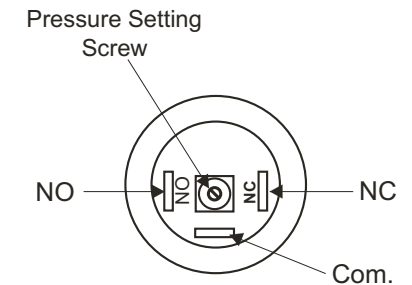


To Switch Off / ON the Pump



Model : XP-600 Series

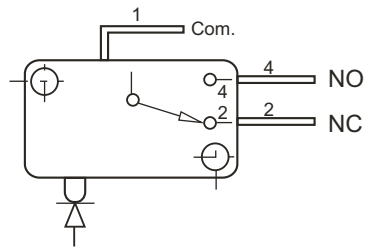
Fig. : 2.1



Model : XP-601 Series

Fig. : 2.2

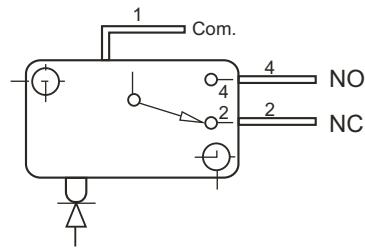
Connections and electric plants



Model : XP-110 Series

Fig. : 2.3

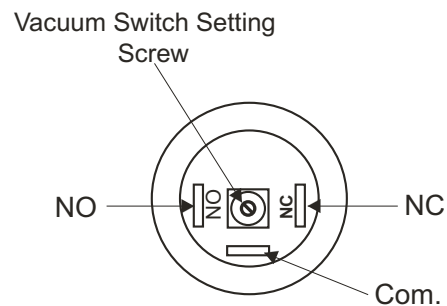
Connections and electric plants



Model : XP-200A Series

Fig. : 2.4

VACUUM SWITCH



Model : XV-600 Series

Fig. : 2.5

Calibration / Setting Procedure of pressure Switch :

1. Pressure input is given from pressure pump/ pressure generating device.
 2. Calibrated pressure gauge & pressure switch is connected to the same pressure input.
 3. Ensure there are no leakages.
 4. For the following types of pressure switches, connect the multimeter probes to pin no. given below in continuity mode.
- **SPDT - Type** : Normally C & NC in Close mode, C & NO will be in Open mode while achieving the set pressure it goes Vice Versa.

Sl.Model No.	Type	Reference Fig.
1. XP-600 series	SPDT Type SPDT Type	Fig. 2.1
2. XP-601 series	SPDT Type SPDT Type	Fig. 2.2
3. XP-110 series	SPDT Type SPDT Type	Fig. 2.3
4. XP-200A series	SPDT Type SPDT Type	Fig. 2.4

VACUUM SWITCH

5. XV-600 Series	SPDT Type SPDT Type	Fig. 2.5
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