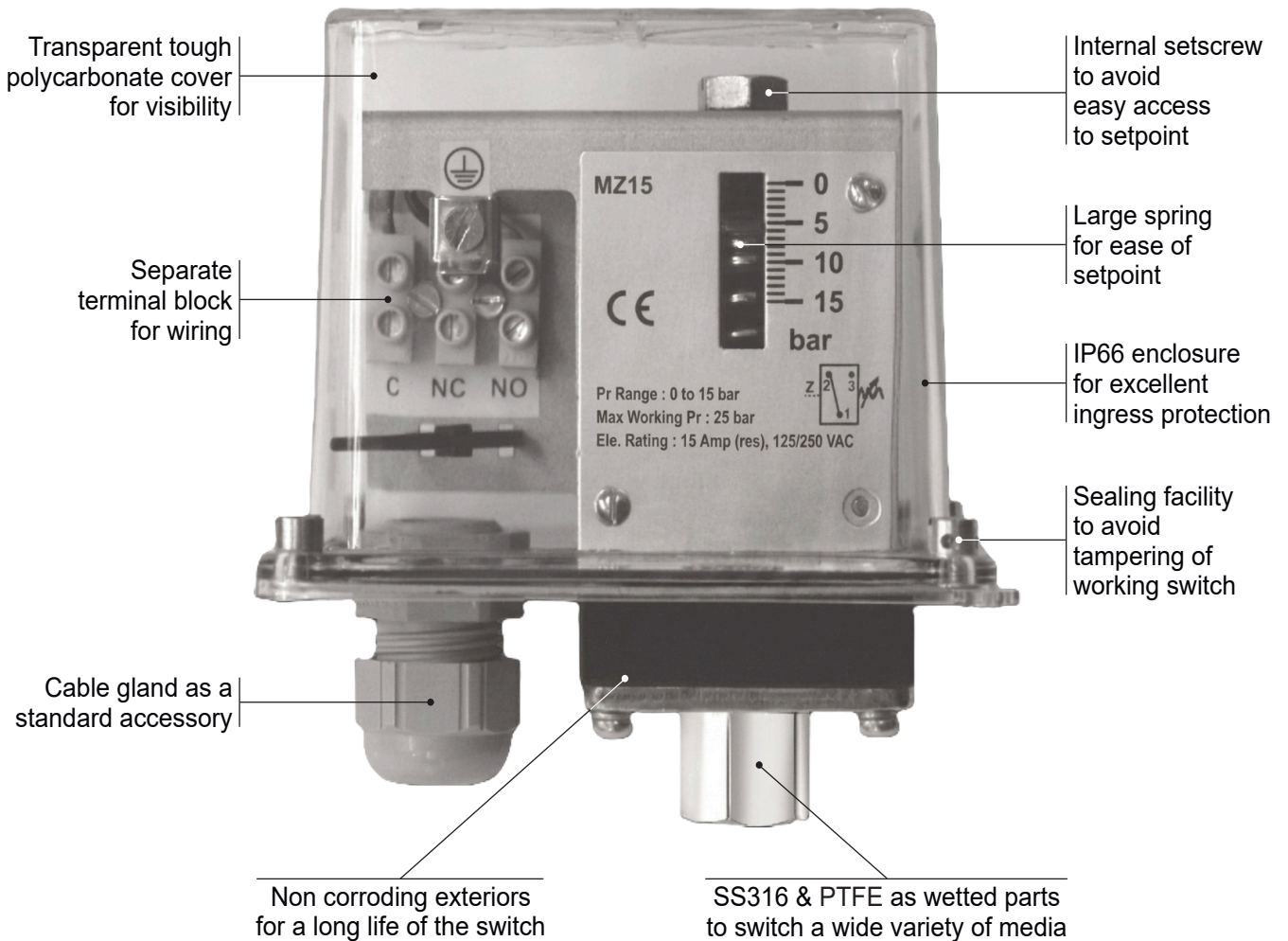




MZ

CE



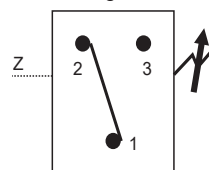
Approximate Weight : 0.550 Kg.

Some Applications :

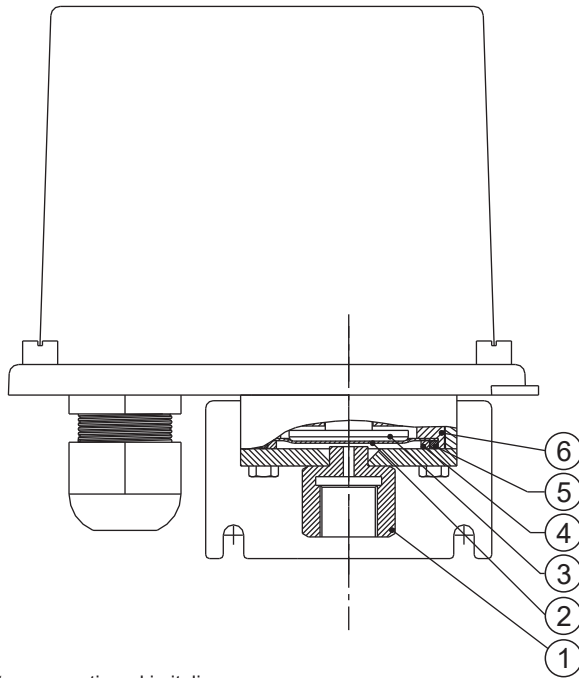
Used in humid or slightly corrosive atmosphere like jet dyeing machines, etc.

Electrical Connection :

Fig. 2



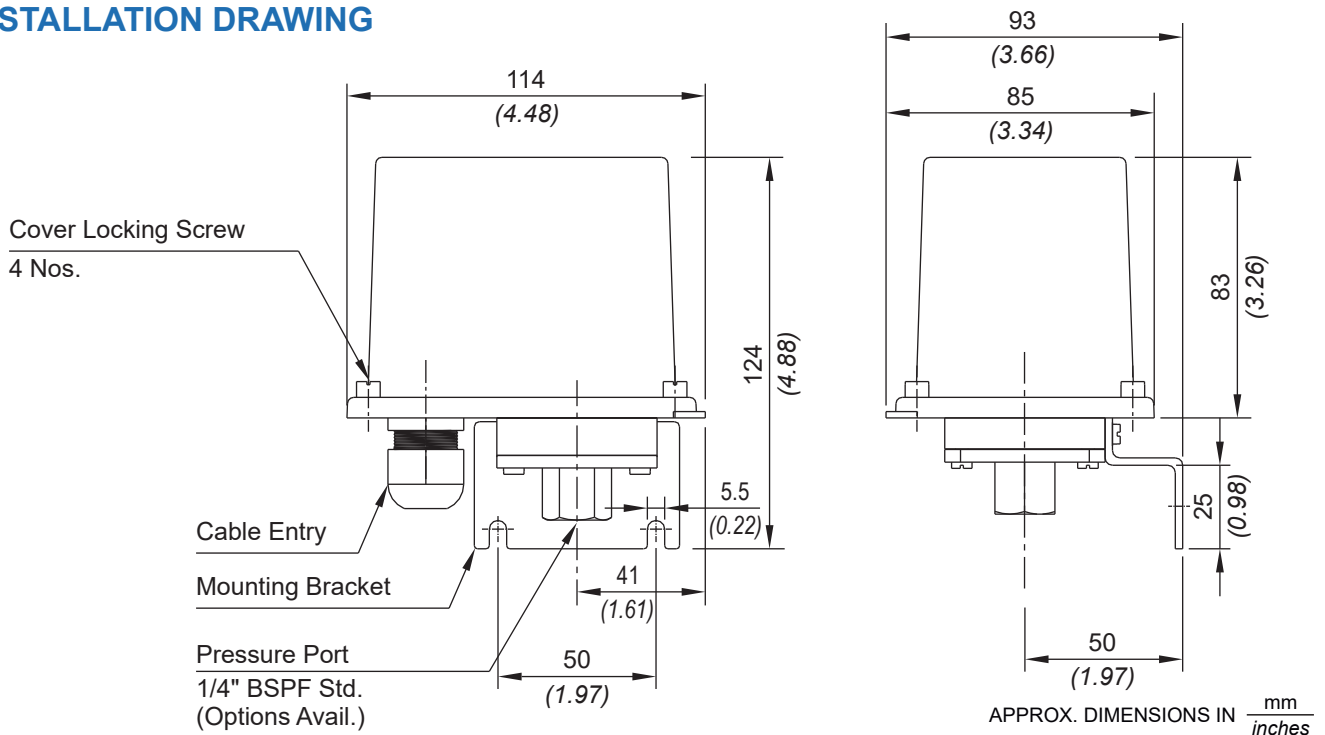
PRESSURE CAPSULE DETAILS



- No. Description**
- 1. *Pressure Housing (SS316)*
 - 2. *Diaphragm (PTFE®)*
 - 3. Plunger
 - 4. *Steel Ring (SS316)*
 - 5. *O-Ring (PTFE®)*
 - 6. Disc

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING

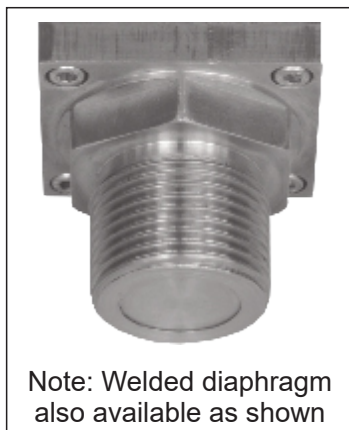


RANGE SELECTION TABLE

| Range Code | Range bar (psi) | Differential* bar (psi) | Maximum Working Pressure bar (psi) |
|------------|--------------------------------|--|------------------------------------|
| | | Approximate Maximum for "A8" microswitch | |
| LP† | 0.067 - 0.213 (0.97 - 3.09) | 0.05 (0.72) | 5 (72.52) |
| LP5 | 0.1 - 0.5 (1.45 - 7.25) | 0.10 (1.45) | 5 (72.52) |
| H01 | 0.1 - 1.0 (1.45 - 14.50) | 0.10 (1.45) | 12 (174.05) |
| H02 | 0.1 - 1.5 (1.45 - 21.76) | 0.20 (2.90) | 12 (174.05) |
| H03 | 0.2 - 2.6 (2.90 - 37.71) | 0.20 (2.90) | 12 (174.05) |
| H04 | 0.2 - 3.6 (2.90 - 52.21) | 0.30 (4.35) | 12 (174.05) |
| H07 | 0.5 - 7.0 (7.25 - 101.50) | 0.60 (8.70) | 12 (174.05) |
| H10 | 0.5 - 10.0 (7.25 - 145.04) | 0.80 (11.60) | 25 (362.6) |
| H15 | 1.0 - 15.0 (14.50 - 217.56) | 1.00 (14.50) | 25 (362.6) |
| H30 | 5.0 - 25.0 (72.52 - 362.6) | 1.50 (21.75) | 35 (507.63) |

Note:

1. The minimum differential increases with the setpoint. The differential values mentioned in the above table are approximate maximum for FSR. The differential value will vary according to the pressure range selected and microswitch type. For actual values of differential please contact sales office.



Note: Welded diaphragm also available as shown

2. When using 2SPDT switching arrangement, both microswitches may not actuate and/or deactuate at the same point. A small stage gap, normally upto +/- 5% FSR (depending on range code) may be observed. The On-Off differential (hysteresis) typically tends to be atleast double of those published for 1SPDT pressure switches.

If actuation and/or deactuation at same point is critical part of operation, then it can be achieved by using a separate DPDT relay. This relay will need a separate power supply for it's coil.

HOW TO ORDER PROCESS HIGH RANGE PRESSURE SWITCHES

| Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 6 | Group 7 | Group 8 |
|---|---|---|--|--|--|---|--|
| Non standard allocation | Model | Cable Entry Size | Switch Type | Range Code (values in bar) | Microswitch Type | Pressure Port Material / Size | Diaphragm |
| <input type="checkbox"/> A prefix "N" is used in the model code in case of any non standard options / accessories that are provided with the switches. Will be given by manufacturer, only after agreement of supply details with customer. The prefix is subject to change as per specific requirement. | MZ = Process pressure switch with a weatherproof enclosure rated IP66/IP68 as per IS/IEC 60529 | 1 = Polycarbonate Enclosure 1/2" NPT threads 2 = Polycarbonate Enclosure 3/4" NPT threads 3 = Polycarbonate Enclosure M20 x 1.5 threads 4 = Diecast Al. Enclosure 1/2" NPT threads 5 = Diecast Al. Enclosure 3/4" NPT threads 6 = Diecast Al. Enclosure M20 x 1.5 threads 7 = SS Enclosure 1/2" NPT threads 8 = SS Enclosure 3/4" NPT threads 9 = SS Enclosure M20 x 1.5 threads | PF2 = pressure switch, fixed differential with scale in bar PF3 = pressure switch, fixed differential with scale in psi *PA2 = pressure switch, adjustable differential with scale in bar *PA3 = pressure switch, adjustable differential with scale in psi | LP = (0.067 - 0.213) LP5 = (0.1 - 0.5) H01 = (0.1 - 1.0) H02 = (0.1 - 1.5) H03 = (0.2 - 2.6) H04 = (0.2 - 3.6) H07 = (0.5 - 7.0) H10 = (0.5 - 10.0) H15 = (1.0 - 15.0) H30 = (5.0 - 25.0) | A8 = General purpose microswitch A7 = 2SPDT microswitches A9 = General purpose microswitch * Please refer to page nos. 290 & 291 for options and specifications of microswitches Please contact sales office for additional information | S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F) S3 = (welded diaphragm) SS316 / 1" BSP(M) S4 = SS316 / 1/2" NPT(F) S5 = SS316 / 1/2" NPT(M) H1 = Hastelloy C / 1/4" BSP(F) H2 = Hastelloy C / 1/4" NPT(F) N1 = Monel / 1/4" BSP(F) N2 = Monel / 1/4" NPT(F) More options available, please contact sales office | 0 = Neoprene 1 = PTFE 2 = SS 316L 3 = Hastelloy C 4 = Monel |
| | Note : Contact sales office for IP 68 enclosure | Note : For dual cable entries contact sales office | *Available only with option A7 and A9 in Group 6 | | | | |

eg. A process pressure switch with fixed differential having 0.1 bar to 1 bar pressure range, with 5 Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

| Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 6 | Group 7 | Group 8 |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|
| <input type="checkbox"/> | MZ | 3 | PF2 | H01 | A8 | S1 | 0 |

Please specify full model number to avoid ambiguity.

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 The information included reflects the current state of development at the time of publication.
 Due to continuous product improvement, specifications are subject to change without notice.