

Fan

**FantiniCosmi**  
Industrie 

PRESSURE  
CONTROLS **B**

PRESSURE  
CONTROLS

B



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Pressure switches up to 15 bar with fixed differential

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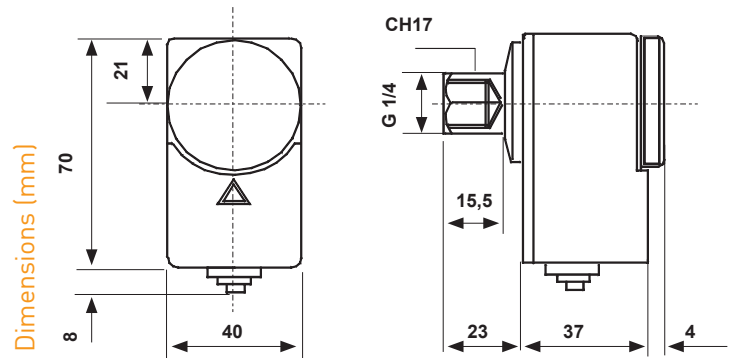
2593367  
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# B01

## Pressure switches up to 15 bar with fixed differential

Pressure switches for fluids and inert gases. Suitable for compressors, autoclaves, control of lubrication circuits, steam boilers, irrigation systems etc.

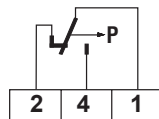


|       | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|-------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B01A  | 0,7 ÷ 3      | 0,4                  | 6   | femmina             | IP40                 | in stock     |
| B01B  | 2 ÷ 5,5      | 0,6                  | 7   | femmina             | IP40                 | in stock     |
| B01C  | 3 ÷ 7        | 0,6                  | 9   | femmina             | IP40                 | in stock     |
| B01D  | 4 ÷ 15       | 1                    | 18  | femmina             | IP40                 | in stock     |
| B01A4 | 0,7 ÷ 3      | 0,4                  | 6   | maschio             | IP40                 | on request   |
| B01B4 | 2 ÷ 5,5      | 0,6                  | 7   | maschio             | IP40                 | on request   |
| B01C4 | 3 ÷ 7        | 0,6                  | 9   | maschio             | IP40                 | on request   |
| B01D4 | 4 ÷ 15       | 1                    | 18  | maschio             | IP40                 | on request   |

1 Bar = 100Kpa / \* The differential must be deducted from the range value.

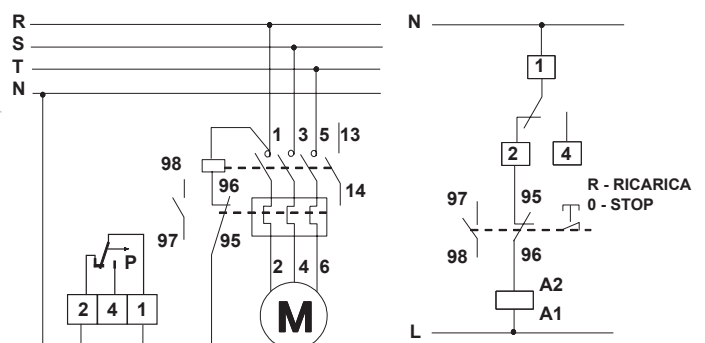
## ELECTRICAL FEATURES

Snap action SPDT microswitch with AgCdO contacts.



|                                 |          |            |              |
|---------------------------------|----------|------------|--------------|
| Nominal insulation tension      | Ui 380V~ |            |              |
| Continuous duty nominal current | Ith 15A  |            |              |
| Operating nominal current Ie    |          |            |              |
| Resistive load                  | AC-12    | 220V~<br>- | 250V~<br>10A |
| Inductive load                  | AC-15    | -          | 380V~<br>10A |
| Continuous current              | DC-13    | 0,2A       | 0,2A         |
|                                 |          |            | -            |

### EXAMPLE OF ELECTRICAL WIRING



# HOMOLOGATION AND STANDARDS

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Complies with EN 60730-1 and EN 60730-2-6 standards.

**CE 0497**

## INSTALLATION

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Direct installation on the pipe.

In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

## OPERATION

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When it is reached the blocking value of the pressure: 1-2 opens, 1-4 closes.

If these devices are used as control pressostats (pressure lack), verify that maximum pressure does not exceed maximum supported sensitive element pressure.

## FEATURES

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Elements in contact with the fluid are in stainless steel, laser welded.

Base, cover and knob in V0 self-extinguishing, shockproof thermoplastic material.

Output connections with PVC cable gland.

Maximum temperature of the controlled fluid: 120 °C.

Pressure switch body admissible temperature: -35 ÷ 80°C.

Storage and transport temperature: -35 ÷ 80°C.

Unit weight: 0,15 Kg.

B

## ACCESSORIES

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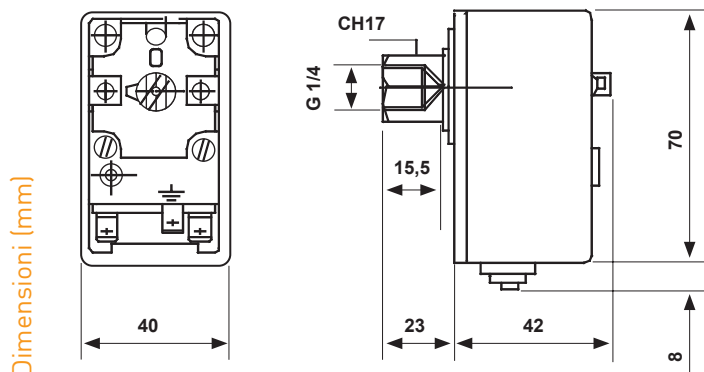
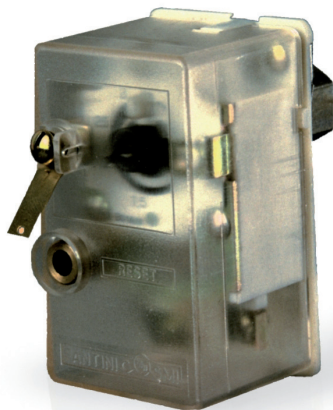
303298LA

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.

# B01...M

## Safety pressure switches with manual reset and fixed differential

Pressure switches with stainless steel membrane, suitable for vapour generators, for fluids and inert gases in general.

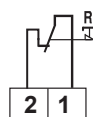


|        | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|--------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B01AM  | 0,7 ÷ 3      | 0,4                  | 6   | female              | IP40                 | in stock     |
| B01BM  | 2 ÷ 5,5      | 0,6                  | 7   | female              | IP40                 | in stock     |
| B01CM  | 3 ÷ 7        | 0,6                  | 9   | female              | IP40                 | in stock     |
| B01DM  | 4 ÷ 15       | 1                    | 18  | female              | IP40                 | in stock     |
| B01AM4 | 0,7 ÷ 3      | 0,4                  | 6   | male                | IP40                 | on request   |
| B01BM4 | 2 ÷ 5,5      | 0,6                  | 7   | male                | IP40                 | on request   |
| B01CM4 | 3 ÷ 7        | 0,6                  | 9   | male                | IP40                 | on request   |
| B01DM4 | 4 ÷ 15       | 1                    | 18  | male                | IP40                 | on request   |

1 Bar = 100kpa / \* The differential must be deducted from the range value.

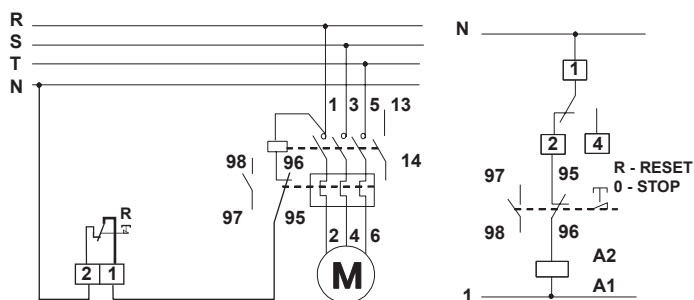
## ELECTRICAL FEATURES

Snap action SPDT microswitch with manual reset, contacts in silver alloy.



|                                 |          |            |              |
|---------------------------------|----------|------------|--------------|
| Nominal insulation tension      | Ui 380V~ |            |              |
| Continuous duty nominal current | Ith 15A  |            |              |
| Operating nominal current Ie    |          |            |              |
| Resistive load                  | AC-12    | 220V~<br>- | 250V~<br>10A |
| Inductive load                  | AC-15    | -          | 380V~<br>10A |
| Continuous current              | DC-13    | 0,2A       | 0,2A         |
|                                 |          | -          | 1,5A         |
|                                 |          | -          | -            |

### EXAMPLE OF ELECTRICAL WIRING



# HOMOLOGATION AND STANDARDS

Complies with EN 60730-1 and EN 60730-2-6 standards.

Corresponding to the requirements provided in the R.3.B. chapter of the applied technical specifications of D.M. dated December 1st 1975. B01BM with I.S.P.E.S.L. homologation.

**CE 0497**

# INSTALLATION

Direct installation on the pipe.

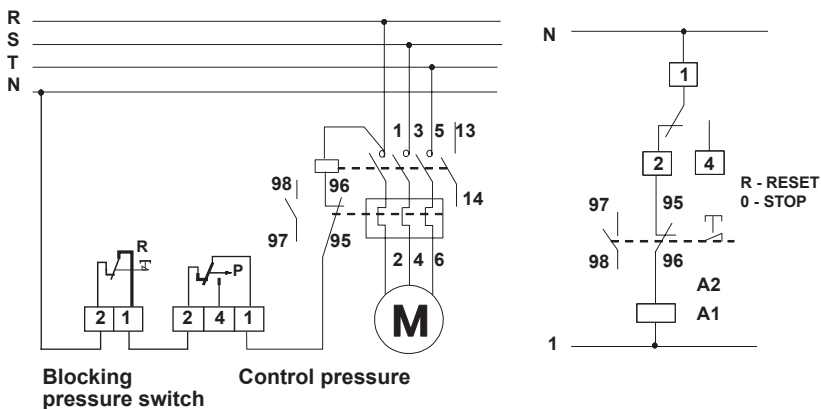
In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

# OPERATION

When it is reached the blocking value of the pressure: 1-2 opens.

To reset wait until the pressure drops below differential's value and operate the reset button.

CONNECTION EXAMPLE OF B01M COMBINED WITH B01 CONTROL PRESSURE SWITCH



# FEATURES

Elements in contact with the fluid are in stainless steel, laser welded.

Base, cover in V0 self-extinguishing, shockproof thermoplastic material.

Output connections with PVC cable gland.

Sensing element with stainless steel membrane.

Internal regulation: the cover is made to be welded after setting and testing.

Maximum temperature of the controlled fluid 120 °C.

Pressure switch body admissible temperature -35 ÷ 80°C.

Storage and transport temperature -35 ÷ 80 °C.

Unit weight 0,14 Kg.

# ACCESSORIES



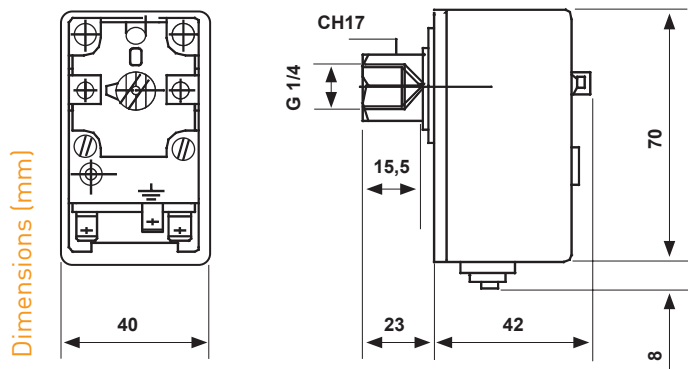
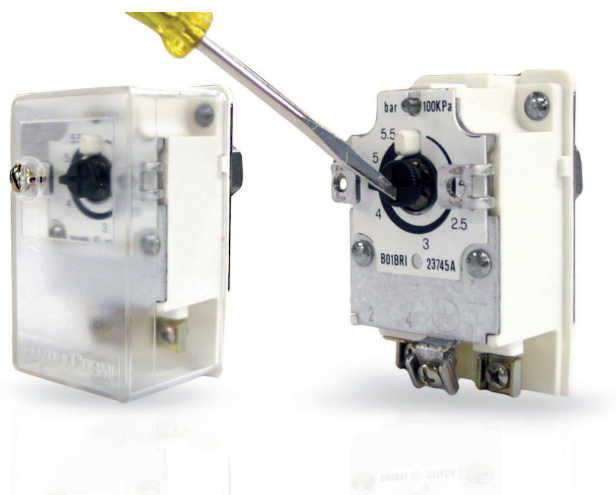
303298LA

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.

# B01.RI

## Pressure switches with internal indicator with fixed differential

Pressure switches for fluids and inert gases. Suitable for autoclaves, control of lubrication circuits, steam boilers, irrigation systems etc.



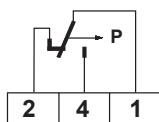
Dimensions (mm)

|         | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|---------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B01ARI  | 0,7 ÷ 3      | 0,4                  | 6   | female              | IP40                 | on request   |
| B01BRI  | 2 ÷ 5,5      | 0,6                  | 7   | female              | IP40                 | on request   |
| B01CRI  | 3 ÷ 7        | 0,6                  | 9   | female              | IP40                 | on request   |
| B01DRI  | 4 ÷ 15       | 1                    | 18  | female              | IP40                 | on request   |
| B01A4RI | 0,7 ÷ 3      | 0,4                  | 6   | male                | IP40                 | on request   |
| B01B4RI | 2 ÷ 5,5      | 0,6                  | 7   | male                | IP40                 | on request   |
| B01C4RI | 3 ÷ 7        | 0,6                  | 9   | male                | IP40                 | on request   |
| B01D4RI | 4 ÷ 15       | 1                    | 18  | male                | IP40                 | on request   |

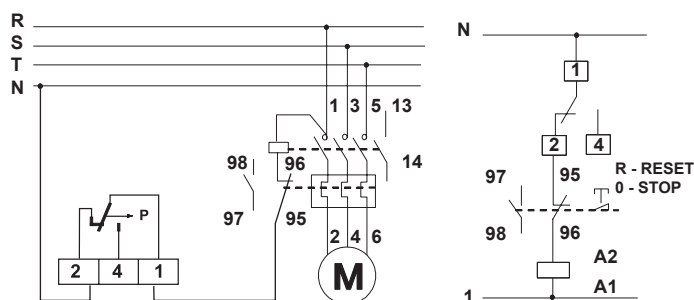
1 Bar = 100Kpa \*The differential must be deducted from the range value.

## ELECTRICAL FEATURES

Snap action SPDT microswitch with AgCdO contacts.



### EXAMPLE OF ELECTRICAL WIRING



|                                 |          |       |       |
|---------------------------------|----------|-------|-------|
| Nominal insulation tension      | Ui 380V~ |       |       |
| Continuous duty nominal current | Ith 15A  |       |       |
| Operating nominal current Ie    |          |       |       |
|                                 | 220V~    | 250V~ | 380V~ |
| Resistive load                  | AC-12    | -     | 10A   |
| Inductive load                  | AC-15    | -     | 0,2A  |
| Continuous current              | DC-13    | 0,2A  | -     |

# HOMOLOGATION AND STANDARDS

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Complies with EN 60947-5-1 standards.

**CE 0497**

## INSTALLATION

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Direct installation on the pipe.

In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

## OPERATION

---

When pressure increases: 1-2 opens, 1-4 closes.

If these devices are used as control pressostats (pressure lack), verify that maximum pressure does not exceed maximum supported sensitive element pressure.

## FEATURES

---

Elements in contact with the fluid are in stainless steel, laser welded.

Base, cover and knob in V0 self-extinguishing, shockproof thermoplastic material.

Output connections with PVC cable gland.

Maximum temperature of the controlled fluid: 120 °C.

Pressure switch body admissible temperature: -35 ÷ 80°C.

Storage and transport temperature: -35 ÷ 80 °C.

Unit weight: 0,15 Kg.

## ACCESSORIES

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303298LA

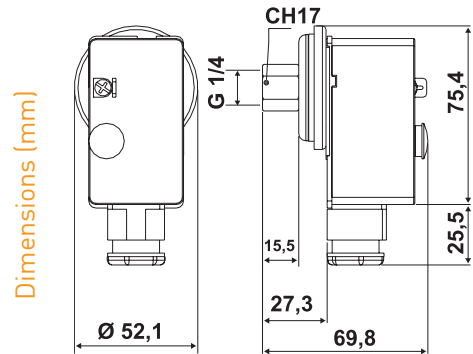
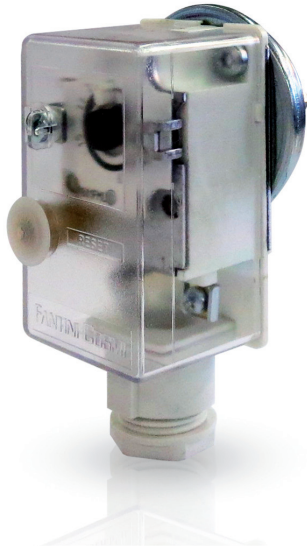
G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.

B

# B01FML

## Minimum pressure switch with manual reset

Safety pressure switch with manual reset, suitable for heating systems and autoclaves.



|        | Range<br>bar | Differential*<br>bar | Default<br>setting<br>bar | Sensitive element<br>max. pressure<br>bar | Connection | Protection<br>degree | Contact<br>type |
|--------|--------------|----------------------|---------------------------|---|------------|----------------------|-----------------|
| B01FML | 0,5 ÷ 2,5    | > 0,5                | 0,5                       | 6   | female     | IP44                 | NO              |

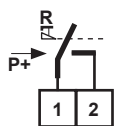
1 Bar = 100Kpa

## ELECTRICAL FEATURES

Microswitch with manual reset and contacts in silver alloy.  
Contact rating according to EN 60730-1:  
15(6)A 250V~ 50Hz

Rating according to EN 60947-5-1:

|                                 |          |       |       |
|---------------------------------|----------|-------|-------|
| Nominal insulation tension      | Ui 380V~ |       |       |
| Continuous duty nominal current | Ith 15A  |       |       |
| Operating nominal current Ie:   | 220V~    | 250V~ | 380V~ |
| Resistive load                  | AC-12    | -     | 15A   |
| Inductive load                  | AC-15    | -     | 2,5A  |
| Continuous current              | DC-13    | 0,2A  | -     |



## HOMOLOGATION AND STANDARDS

Complies with EN 60947-5-1 and EN 60730-1 standards.

**CE 0497**

## INSTALLATION

---

Direct installation on the pipe.  
Connection G 1/4.

## OPERATION

---

When pressure reaches the minimum set value: 1-2 opens.

The reset function (closes 1-2) is only possible by re-arming the pressure switch by pushing the reset button once the pressure inside the pipe is above the minimum set value.

## FEATURES

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Sensible element made in stainless steel, laser welded.

Cover in shockproof thermoplastic material.

Output connections in shockproof and self-extinguishing thermoplastic V0 cable gland.

Maximum temperature of the controlled fluid: 120°C.

Pressure switch max body temperature: 80°C.

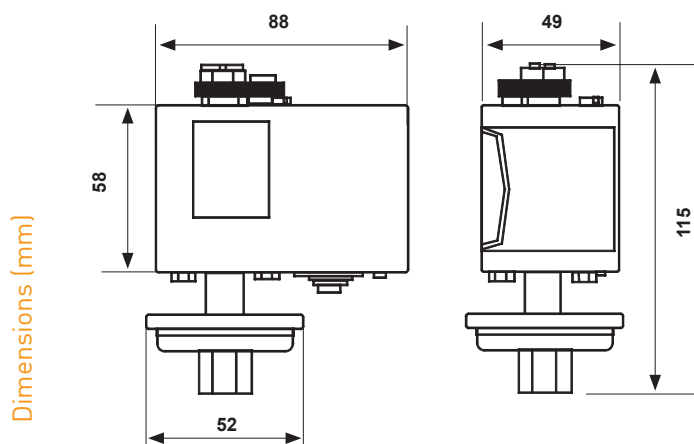
Storage and transport temperature: -35 ÷ 80°C.

Unit weight: 0,15Kg.

# B11AN

## Hydrostats up to 1 bar

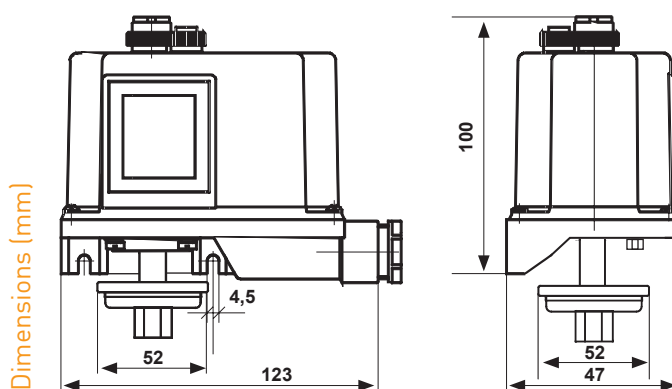
These devices are used for protection against lack of water in cooling systems. Suitable against lack of oil in lubrication circuits or lack of coolant in cooling systems. Pressure control is intended mainly for protection against boiling and combustion.



Dimensions (mm)

|        | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree<br>IP40 | Availability |
|--------|--------------|----------------------|---|---------------------|------------------------------|--------------|
| B11AN  | 0,15 ÷ 1     | 0,1 fixed            | 20  | female              | IP40                         | in stock     |
| B11AN4 | 0,15 ÷ 1     | 0,1 fixed            | 20  | male                | IP40                         | on request   |

### WATERPROOF CASING EXECUTION



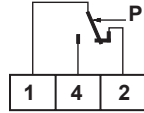
Dimensions (mm)

|         | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree<br>IP65 | Availability |
|---------|--------------|----------------------|---|---------------------|------------------------------|--------------|
| B11ANY  | 0,15 ÷ 1     | 0,1 fixed            | 20  | female              | IP65                         | in stock     |
| B11AN4Y | 0,15 ÷ 1     | 0,1 fixed            | 20  | male                | IP65                         | in stock     |

1 Bar = 100Kpa \*The differential must be deducted from the range value.

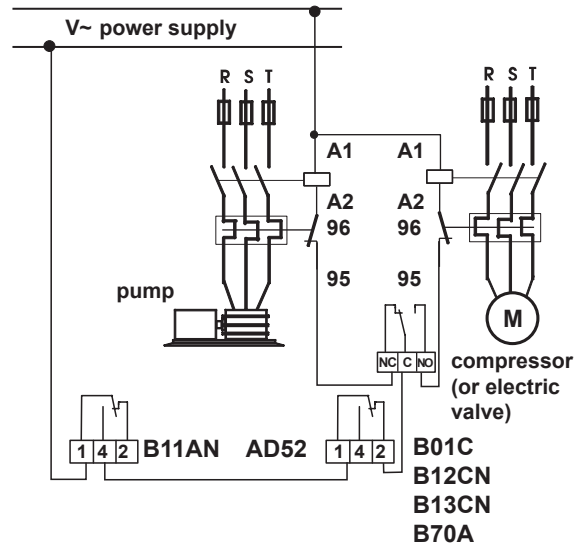
# ELECTRICAL FEATURES

Snap action SPDT microswitch, contacts in AgCdO.



|                                 |       |       |           |
|---------------------------------|-------|-------|-----------|
| Nominal insulation tension      | Ui    | 415V~ |           |
| Continuous duty nominal current | Ith   | 16A   |           |
| Operating nominal current Ie    |       | 220V~ | 380/415V~ |
| Resistive load                  | AC-11 | -     | 16A       |
| Inductive load                  | AC-3  | -     | 6A        |
| Continuous current              | DC-13 | 0,2A  | -         |

## EXAMPLE OF ELECTRICAL WIRING



# HOMOLOGATION AND STANDARDS

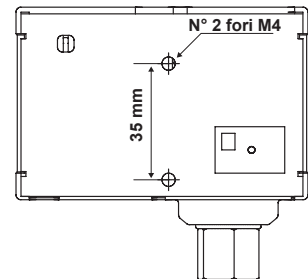
Complies with EN 60947-1 and 60947-5-1 standards.

**CE 0497**

# INSTALLATION

- Direct installation on the pipe.
- Pressure element connection G 1/4.
- In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.
- Possibility of mounting on metallic clamp, except for the waterproof casing versions.

## MOUNTING MODEL



# OPERATION

When pressure increases: 1-2 opens, 1-4 closes.

# FEATURES

- Elements in contact with the fluid are in stainless steel, laser welded.
- Metallic frame.
- Cover in shockproof thermoplastic material.
- Output connections with PVC cable gland.
- Connection G 1/4.
- Maximum temperature of the controlled fluid: 120 °C.
- Pressure switch body admissible temperature: -35 ÷ 60°C.
- Storage and transport temperature: -35 ÷ 60 °C.
- Unit weight: 0,47 Kg. B11AN.

# ACCESSORIES



**303298LA**

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.



**2593367**

Protection casing IP44

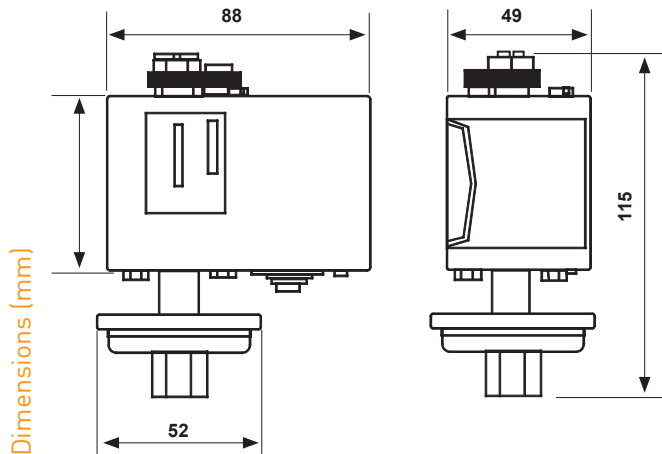
# B12AN - B12BN

Vacuum pressure switches up to - 0.82 bar

Pressure switches up to 2 bar

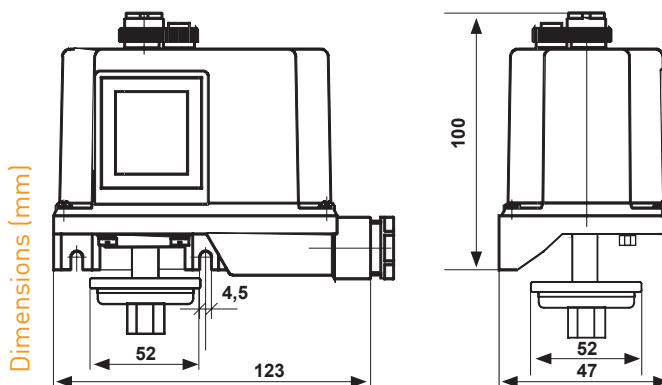
To adjust vacuum values in the pumps (B12AN) or to control pressure values of tanks or steam generators where it is required a low differential (B12BN).

in stock



|        | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|--------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B12AN  | -0,82 ÷ 0    | 0,1 fixed            | 2,5                                       | female              | IP40                 | in stock     |
| B12AN4 | -0,82 ÷ 0    | 0,1 fixed            | 2,5                                       | male                | IP40                 | on request   |
| B12BN  | 0,2 ÷ 2      | 0,1 ÷ 0,5            | 4   | female              | IP40                 | in stock     |

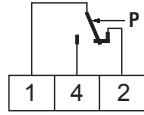
## WATERPROOF CASING EXECUTION



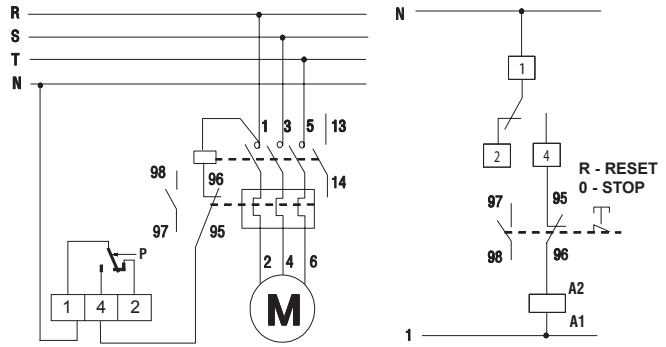
|        | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|--------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B12ANY | -0,82 ÷ 0    | 0,1 fixed            | 2,5                                       | female              | IP65                 | in stock     |
| B12BNY | 0,2 ÷ 2      | 0,1 ÷ 0,5            | 4   | female              | IP65                 | in stock     |

# ELECTRICAL FEATURES

Snap action SPDT microswitch, contacts in AgCdO.



## EXAMPLE OF ELECTRICAL WIRING



|  |                      |           |
|--|----------------------|-----------|
| Nominal insulation tension               | U <sub>i</sub> 415V~ |           |
| Continuous duty nominal current          | I <sub>th</sub> 16A  |           |
| Operating nominal current I <sub>e</sub> | 220V~                | 380/415V~ |
| Resistive load                           | AC-1                 | - 16A     |
| Inductive load                           | AC-3                 | - 6A      |
| Continuous current                       | DC-13                | 0,2A      |

# HOMOLOGATION AND STANDARDS

Complies with EN 60947-1 and 60947-5-1 standards.

**CE 0497**

# INSTALLATION

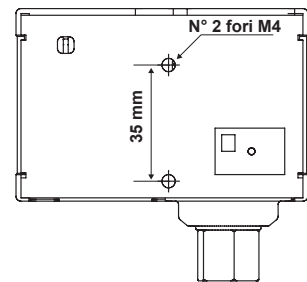
Direct installation on the pipe.

Pressure element connection G 1/4.

In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

Possibility of mounting on metallic clamp, except for the waterproof casing versions.

## MOUNTING MODEL



# OPERATION

When pressure increases: 1-2 opens, 1-4 closes.

In the pressure switch with blocking and manual reset at maximum pressure, the reset takes place when the pressure is below the value set on differential.

# FEATURES

Sensitive element with stainless steel membrane, laser welded.

Metallic frame.

Cover in shockproof thermoplastic material.

Output connections with PVC cable gland.

Female connection G 1/4 (17 mm key).

Maximum temperature of the controlled fluid: 120 °C.

Pressure switch body admissible temperature: -35 ÷ 60°C.

Storage and transport temperature: -35 ÷ 60°C.

Unit weight: 0,43 Kg B12AN.

Unit weight: 0,44 Kg B12BN.

# ACCESSORIES



**303298LA**

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.



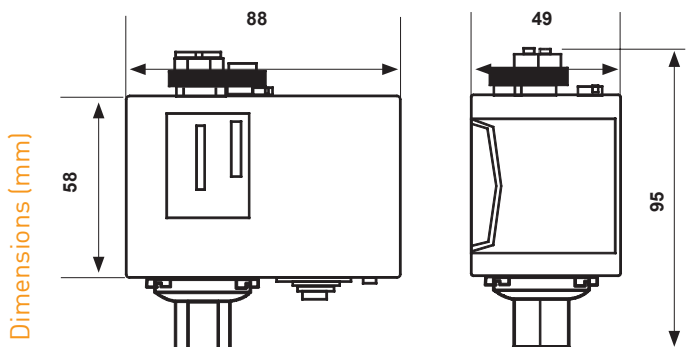
**2593367**

Protection casing IP44.

# B12CN - B12DN - B12EN

Pressure switches up to 28 bar  
with adjustable differential

Pressure switches for control and regulation of all fluids and non-explosive gases. Suitable for compression plants, boilers, tanks, autoclaves, ventilation plants, lubrication plants.

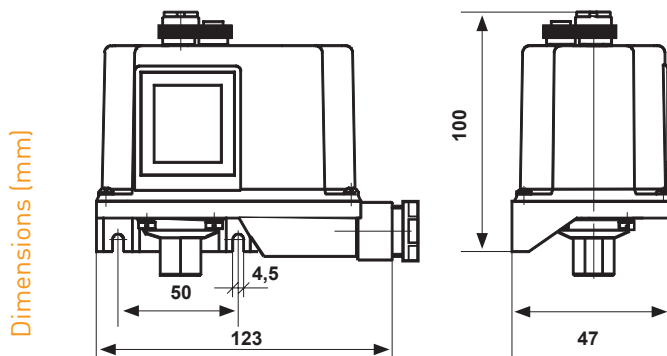


|        | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|--------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B12CN  | -0,2 ÷ 8     | 0,6 ÷ 3              | 9   | female              | IP40                 | in stock     |
| B12DN  | 5 ÷ 16       | 1 ÷ 3,5              | 18  | female              | IP40                 | in stock     |
| B12EN  | 8 ÷ 28       | 2 ÷ 6                | 32  | female              | IP40                 | in stock     |
| B12CRN | -0,2 ÷ 8     | 0,6 ÷ 3              | 9   | SAE                 | IP40                 | in stock     |
| B12ERN | 8 ÷ 28       | 2 ÷ 6                | 32  | SAE                 | IP40                 | in stock     |
| B12CN4 | -0,2 ÷ 8     | 0,6 ÷ 3              | 9   | male                | IP40                 | on request   |
| B12DN4 | 5 ÷ 16       | 1 ÷ 3,5              | 18  | male                | IP40                 | on request   |

## WITH BLOCKING AND MANUAL RESET

|        |        |         |    |        |      |            |
|--------|--------|---------|----|--------|------|------------|
| B12CMN | 1 ÷ 8  | 0,6 ÷ 3 | 9  | female | IP40 | on request |
| B12DMN | 5 ÷ 16 | 1 ÷ 3,5 | 18 | female | IP40 | on request |
| B12EMN | 8 ÷ 28 | 2 ÷ 6   | 32 | female | IP40 | on request |

## WATERPROOF CASING EXECUTION

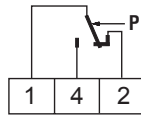


|         | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|---------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B12CNY  | -0,2 ÷ 8     | 0,6 ÷ 3              | 9   | female              | IP65                 | in stock     |
| B12DNY  | 5 ÷ 16       | 1 ÷ 3,5              | 18  | female              | IP65                 | in stock     |
| B12ENY  | 8 ÷ 28       | 2 ÷ 6                | 32  | female              | IP65                 | in stock     |
| B12CRNY | -0,2 ÷ 8     | 0,6 ÷ 3              | 9   | SAE                 | IP65                 | in stock     |
| B12ERNY | 8 ÷ 28       | 2 ÷ 6                | 32  | SAE                 | IP65                 | in stock     |

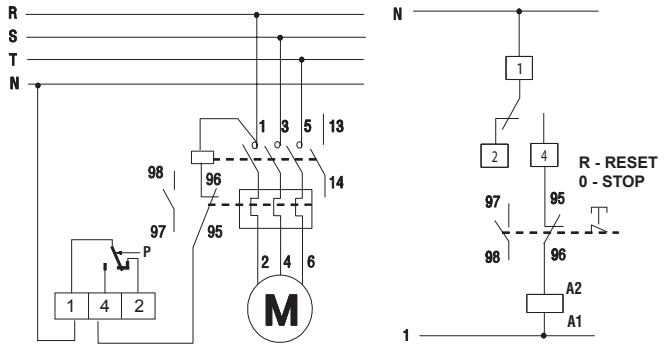
1 Bar = 100Kpa \*The differential must be deducted from the range value.

# ELECTRICAL FEATURES

Snap action SPDT microswitch, contacts in AgCdO.



## EXAMPLE OF ELECTRICAL WIRING



|                                 |       |       |           |
|---------------------------------|-------|-------|-----------|
| Nominal insulation tension      | Ui    | 415V~ |           |
| Continuous duty nominal current | Ith   | 16A   |           |
| Operating nominal current Ie    |       | 220V~ | 380/415V~ |
| Resistive load                  | AC-1  | -     | 16A       |
| Inductive load                  | AC-3  | -     | 6A        |
| Continuous current              | DC-13 | 0,2A  | -         |

# HOMOLOGATION AND STANDARDS

Complies with EN 60947-1 and 60947-5-1 standards.

**CE 0497**

# INSTALLATION

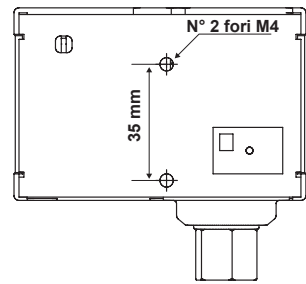
Direct installation on the pipe.

Pressure element connection G 1/4.

In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

Possibility of mounting on metallic clamp, except for the waterproof casing versions.

## MOUNTING MODEL



# OPERATION

When pressure increases: 1-2 opens, 1-4 closes.

In the pressure switch with blocking and manual reset at maximum pressure, the reset takes place when the pressure is below the value set on differential.

# FEATURES

Sensitive element with stainless steel membrane, laser welded.

Metallic frame.

Cover in shockproof thermoplastic material.

Output connections with PVC cable gland.

Fixed differential.

Female connection G 1/4 (17 mm key).

Maximum temperature of the controlled fluid: 120 °C.

Pressure switch body admissible temperature: -35 ÷ 60°C.

Storage and transport temperature: -35 ÷ 60°C.

Unit weight: 0,43 Kg B12AN.

Unit weight: 0,44 Kg B12BN.

# ACCESSORIES



## 303298LA

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.



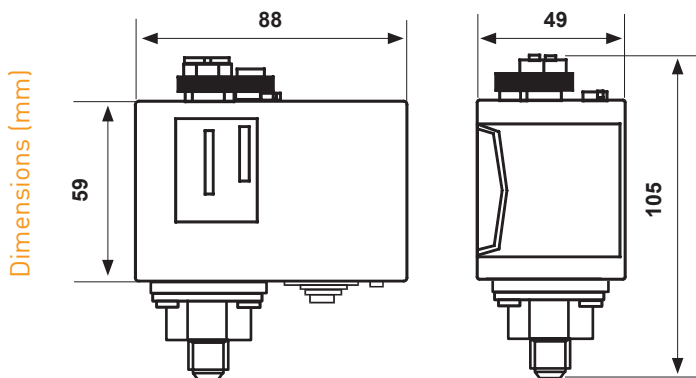
## 2593367

Protection casing IP44.

# B12FN - B12GN - B12HN

## Pressure switches up to 300 bar with adjustable differential

Pressure switches for control and regulation of all fluids and non-explosive gases. Suitable for compression plants, boilers, tanks, autoclaves, ventilation plants, lubrication plants and in general whenever a pressure up to 300 bar must be controlled.

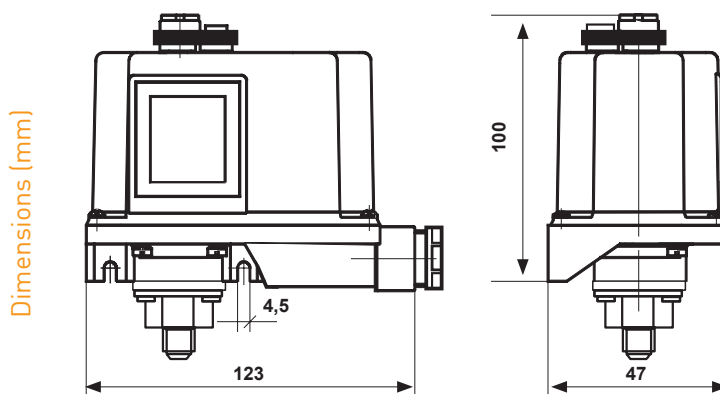


|       | Range<br>bar | Differential*<br>bar | Sensitive element max.<br>pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|-------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B12FN | 12 ÷ 50      | 6 ÷ 15               | 60  | male                | IP40                 | in stock     |
| B12GN | 25 ÷ 150     | 12 ÷ 40              | 180                                       | male                | IP40                 | in stock     |
| B12HN | 60 ÷ 300     | 40 ÷ 80              | 350                                       | male                | IP40                 | in stock     |

### WITH BLOCKING AND MANUAL RESET

|        |          |         |     |      |      |            |
|--------|----------|---------|-----|------|------|------------|
| B12FMN | 12 ÷ 50  | 6 ÷ 15  | 60  | male | IP40 | on request |
| B12GMN | 25 ÷ 150 | 12 ÷ 40 | 180 | male | IP40 | on request |
| B12HMN | 60 ÷ 300 | 40 ÷ 80 | 350 | male | IP40 | on request |

### WATERPROOF CASING EXECUTION

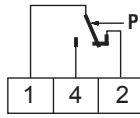


|        | Range<br>bar | Differential*<br>bar | Sensitive element max.<br>pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|--------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B12FNY | 12 ÷ 50      | 6 ÷ 15               | 60  | male                | IP65                 | in stock     |
| B12GNY | 25 ÷ 150     | 12 ÷ 40              | 180                                       | male                | IP65                 | in stock     |
| B12HNY | 60 ÷ 300     | 40 ÷ 80              | 350                                       | male                | IP65                 | in stock     |

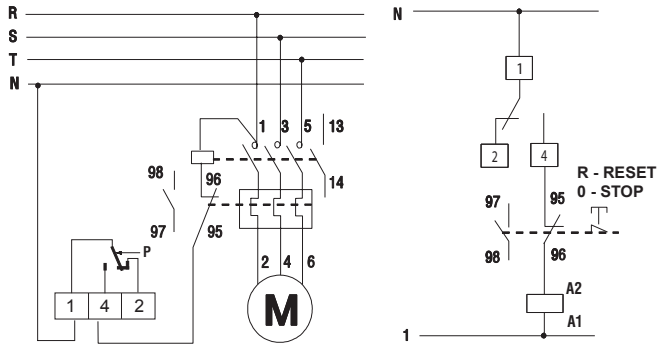
1 Bar = 100Kpa \*The differential must be deducted from the range value.

# ELECTRICAL FEATURES

Snap action SPDT microswitch, contacts in AgCdO.



## EXAMPLE OF ELECTRICAL WIRING



|                                 |       |           |
|---------------------------------|-------|-----------|
| Nominal insulation tension      | Ui    | 415V~     |
| Continuous duty nominal current | Ith   | 16A       |
| Operating nominal current Ie    | 220V~ | 380/415V~ |
| Resistive load                  | AC-1  | - 16A     |
| Inductive load                  | AC-3  | - 6A      |
| Continuous current              | DC-13 | 0,2A -    |

# HOMOLOGATION AND STANDARDS

Complies with EN 60947-1 and 60947-5-1 standards.

**CE 0497**

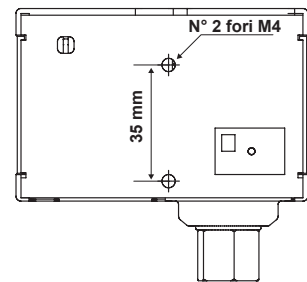
# INSTALLATION

Direct installation on the pipe.

If these devices are used as control pressostats (pressure lack), verify that maximum pressure does not exceed maximum supported sensitive element pressure.

Possibility of mounting on metallic clamp, except for the waterproof casing versions.

## MOUNTING MODEL



# OPERATION

When pressure increases: 1-2 opens, 1-4 closes.

In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

In the pressure switch with blocking and manual reset at maximum pressure, the reset takes place when the pressure is below the value set on differential.

# FEATURES

Piston sensitive element, brass connection.

Metallic frame.

Cover in shockproof thermoplastic material.

Output connections with PVC cable gland.

Adjustable differential.

Male connection G 1/4.

Maximum temperature of the controlled fluid: 80°C.

Pressure switch body admissible temperature: 60°C.

Storage and transport temperature: -35 ÷ 60°C.

Unit weight: 0,47 Kg B12FN-B12GN.

Unit weight: 0,46 Kg B12HN.

# ACCESSORIES



**303298LA**

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.



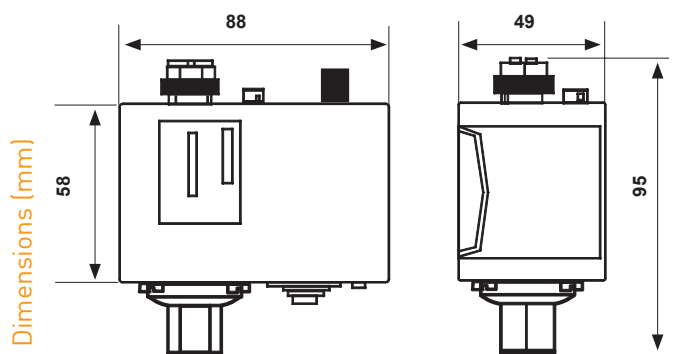
**2593367**

Protection casing IP44.

# B12M

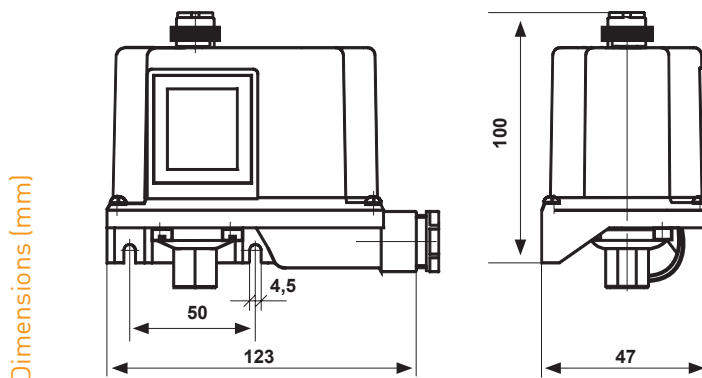
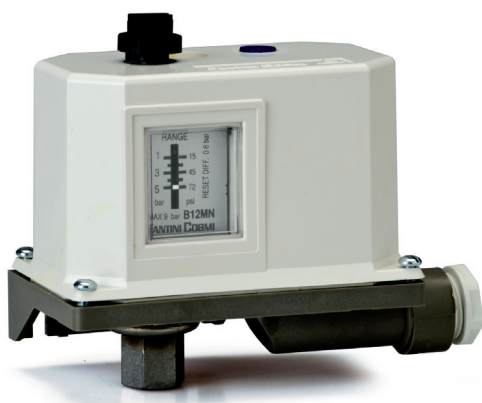
## Blocking pressure switches with manual reset

Blocking and safety pressure controls with manual reset, suitable for steam generators and fluids and inert gases in general.



|       | Range<br>bar | Differential*<br>bar | Sensitive element max.<br>pressure<br>bar | Connection<br>G 1/4<br>female | Protection<br>degree<br>IP40 | Availability<br>in stock |
|-------|--------------|----------------------|---|-------------------------------|------------------------------|--------------------------|
| B12MN | 1 ÷ 5 bar    | 0,6 fixed            | 9   |                               |                              |                          |

### WATERPROOF CASING EXECUTION

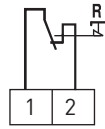


|        | Range<br>bar | Differential*<br>bar | Sensitive element max.<br>pressure<br>bar | Connection<br>G 1/4<br>female | Protection<br>degree<br>IP65 | Availability<br>in stock |
|--------|--------------|----------------------|---|-------------------------------|------------------------------|--------------------------|
| B12MNY | 1 ÷ 5 bar    | 0,6 fixed            | 9   |                               |                              |                          |

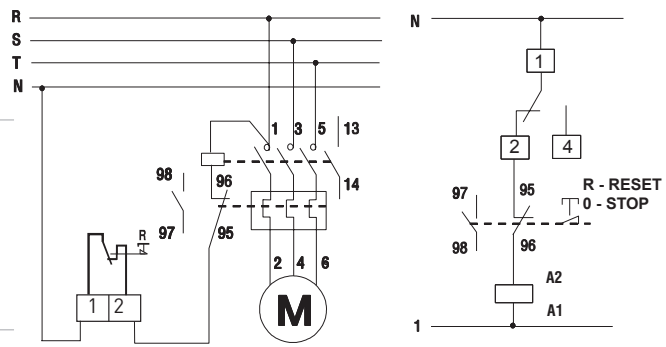
1 Bar = 100Kpa \*The differential must be deducted from the range value.

# ELECTRICAL FEATURES

Snap action SPDT microswitch, with manual reset, contacts in AgCdO.



## EXAMPLE OF ELECTRICAL WIRING



|                                 |       |       |           |
|---------------------------------|-------|-------|-----------|
| Nominal insulation tension      | Ui    | 415V~ |           |
| Continuous duty nominal current | Ith   | 16A   |           |
| Operating nominal current Ie    |       | 220V~ | 380/415V~ |
| Resistive load                  | AC-1  | -     | 16A       |
| Inductive load                  | AC-3  | -     | 6A        |
| Continuous current              | DC-13 | 0,2A  | -         |

# HOMOLOGATION AND STANDARDS

Complies with EN 60947-1 and EN 60947-5-1 standards.

I.S.P.E.S.L. homologation.

Corresponding to the requirements provided in the R.3.B. chapter of the applied technical specifications of D.M. dated December 1st 1975 R.3.B.

**CE 0497**

# INSTALLATION

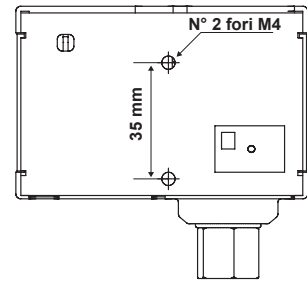
Direct installation on the pipe.

Pressure element connection G 1/4.

In case of fluid temperatures higher than the maximum allowed, connect the pressure switch to the pipe by inserting a metallic spiral between the pressure switch and the pipe to facilitate heat dispersion.

Possibility of mounting on metallic clamp, except for the waterproof casing versions.

MOUNTING MODEL



# OPERATION

When pressure increases: 1-2 opens.

For use in connection with a regulation pressostat.

# FEATURES

Calibration screw made to be welded after testing.

Connection G 1/4.

Sensitive element with stainless steel membrane, laser welded.

Metallic frame.

Cover in shockproof thermoplastic material.

Output connections with PVC cable gland.

Maximum temperature of the controlled fluid: 120°C.

Pressure switch body admissible temperature: -35÷60°C.

Storage and transport temperature: -35÷60°C.

Unit weight: 0,46 Kg.

# ACCESSORIES



**303298LA**

G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.



**2593367**

Protection casing IP44.

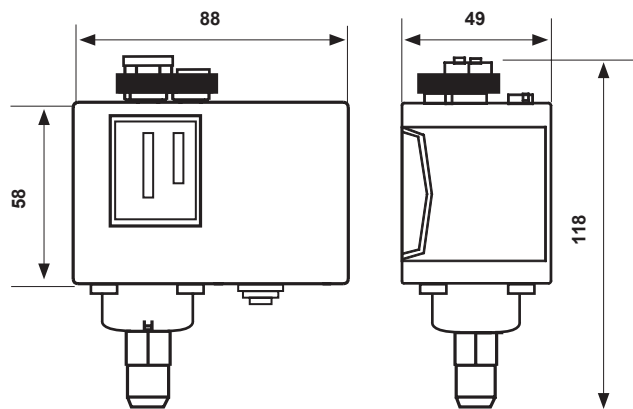
# B13

## Pressure switches up to 10 bar with low adjustable differential

Pressostats with low differential for control and regulation of air compressors, autoclaves, water insulation and tanks in general, where a minimum difference between ON and OFF is required.

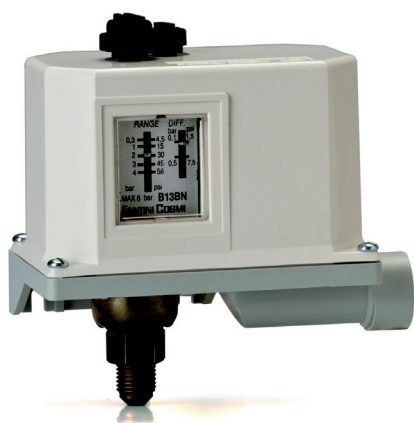


Dimensions (mm)

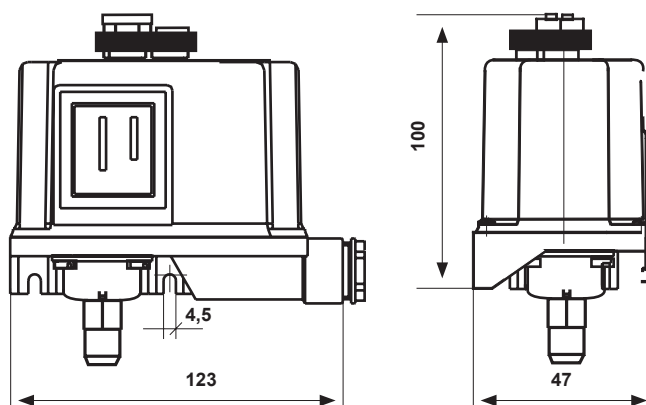


|       | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|-------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B13BN | 0,3 ÷ 4      | 0,1 ÷ 0,5            | 6   | male                | IP40                 | in stock     |
| B13CN | 1 ÷ 10       | 0,3 ÷ 1,5            | 16  | male                | IP40                 | in stock     |

### WATERPROOF CASING EXECUTION



Dimensions (mm)

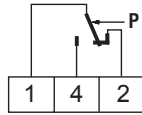


|        | Range<br>bar | Differential*<br>bar | Sensitive element<br>max. pressure<br>bar | Connection<br>G 1/4 | Protection<br>degree | Availability |
|--------|--------------|----------------------|---|---------------------|----------------------|--------------|
| B13BNY | 0,3 ÷ 4      | 0,1 ÷ 0,5            | 6   | male                | IP65                 | in stock     |
| B13CNY | 1 ÷ 10       | 0,3 ÷ 1,5            | 16  | male                | IP65                 | in stock     |

1 Bar = 100Kpa \*The differential must be deducted from the range value.

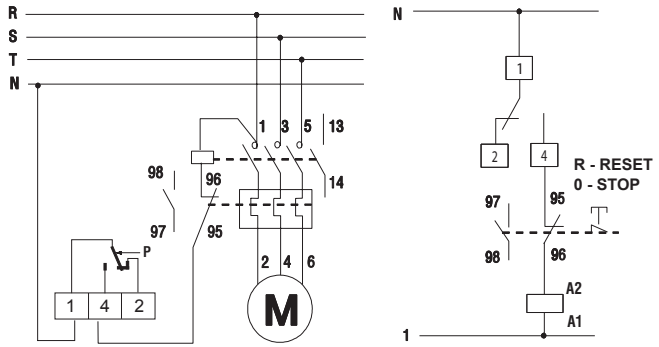
# ELECTRICAL FEATURES

Snap action SPDT microswitch contacts in AgCdO.



|                                 |          |           |     |
|---------------------------------|----------|-----------|-----|
| Nominal insulation tension      | Ui 415V~ |           |     |
| Continuous duty nominal current | Ith 16A  |           |     |
| Operating nominal current Ie    | 220V~    | 380/415V~ |     |
| Resistive load                  | AC-1     | -         | 16A |
| Inductive load                  | AC-3     | -         | 6A  |
| Continuous current              | DC-13    | 0,2A      | -   |

## EXAMPLE OF ELECTRICAL WIRING



# HOMOLOGATION AND STANDARDS

Complies with EN 60947-1 and 60947-5-1 standards.

**CE 0497**

# INSTALLATION

Direct installation on the pipe.  
Pressure element connection G 1/4.

# OPERATION

When pressure increases: 1-2 opens, 1-4 closes.

# FEATURES

- Adjustable differential.
- Metallic bellows sensing element, not suitable for corrosive liquids that affect copper alloys.
- Metallic frame.
- Cover in shockproof thermoplastic material.
- Output connections with PVC cable gland.
- Maximum temperature of the controlled fluid: 100°C.
- Pressure switch body admissible temperature: -35÷60°C.
- Storage and transport temperature: -35÷60°C.
- Unit weight 0,38 Kg B13BN.
- Unit weight 0,39 Kg B13CN.

# ACCESSORIES

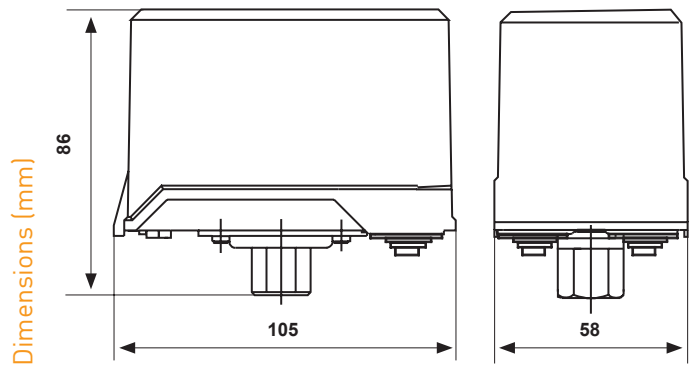


cod. 303298LA  
G1/2 cable gland in V0 self-extinguishing, shockproof thermoplastic material for output connections.

# B70A

## Pressure switches for three-phase motors direct control

Pressure controls suitable to control directly the electric motors of the pumps, compressors, domestic or industrial autoclaves groups. Suitable as well for fluids (gas or liquids) chemically compatible with the friction diaphragm.



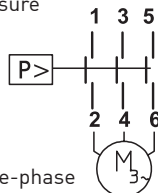
|      | Range<br>bar | Differential*      |                 | Max differential*<br>bar | Protection<br>degree | Sensitive element<br>max. pressure<br>bar | Connection |
|------|--------------|--------------------|-----------------|--------------------------|----------------------|---|------------|
|      |              | range<br>beginning | range<br>ending |                          |                      |   |            |
| B70A | 0,5 ÷ 7      | 0,8 bar            | 1,8 bar         | 3,5                      | IP40                 | 12  | triphase   |

1 Bar = 100Kpa \*The differential must be deducted from the range value.

## ELECTRICAL FEATURES

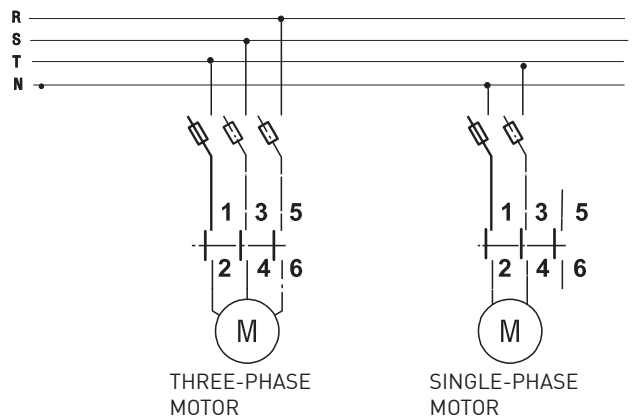
Double breaking switch for each pole, contacts in silver alloy.

Contacts are opening when pressure increases



In case of single-phase motors just two poles are connected

### EXAMPLE OF ELECTRICAL WIRING



|   |             |
|---|-------------|
| Nominal insulation tension                          | Ui 415V~    |
| Continuous duty nominal current                     | Ith 25A     |
| Operating nominal current in AC-1                   | Ie 20A      |
| Operating nominal current in AC-3                   | Ie 9A       |
| Powers controlled by the three-phase motors in AC3: |             |
| 220/250V  | 380/415V~   |
| 2,2kW/[3HP]   | 4kW/[5,5HP] |

# HOMOLOGATION AND STANDARDS

Complies with EN 60947-4-1 standards.

## INSTALLATION

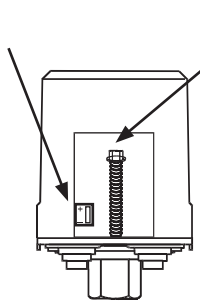
Direct installation on the pipe.

## OPERATION

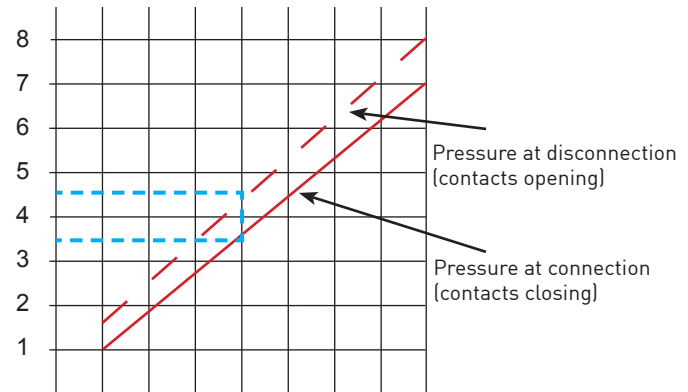
Contacts are opening when pressure rises.

Three-pole contact allows the control of single-phase or three-phase motors up to 9A, without contactor.

Pressure differential regulation at disconnection



Pressure regulation at connection: pressure value rises on screwing



\* EXAMPLE: Pressure at connection 3,5 bar  
Pressure at disconnection 4,5 bar

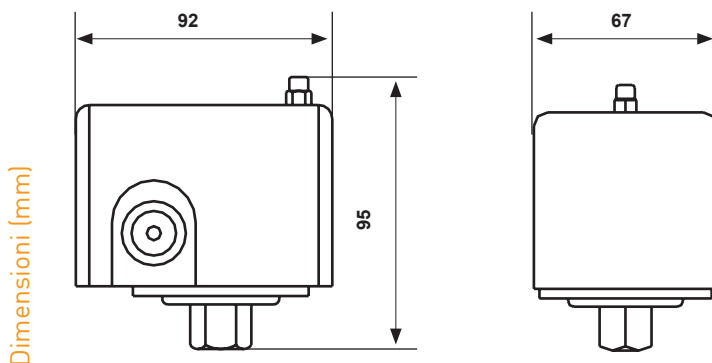
## FEATURES

- Sensitive element with friction membrane.
- Adjustable differential.
- Female connection G 1/4.
- Cover in shockproof thermoplastic material.
- Metallic parts are in stainless steel.
- Earth clamp.
- Output connections with two cable glands.
- Maximum temperature of the controlled fluid: 90°C.
- Pressure switch body admissible temperature: -15 ÷ 60°C.
- Storage and transport temperature: -35 ÷ 60°C.
- Unit weight: 0,39 Kg.

# B71A

## Pressure switches for single-phase / two-phase motors direct control

Pressure controls suitable to control directly the electric motors of the pumps, compressors, domestic or industrial autoclaves groups. Suitable as well for fluids (gas or liquids) chemically compatible with the friction diaphragm.



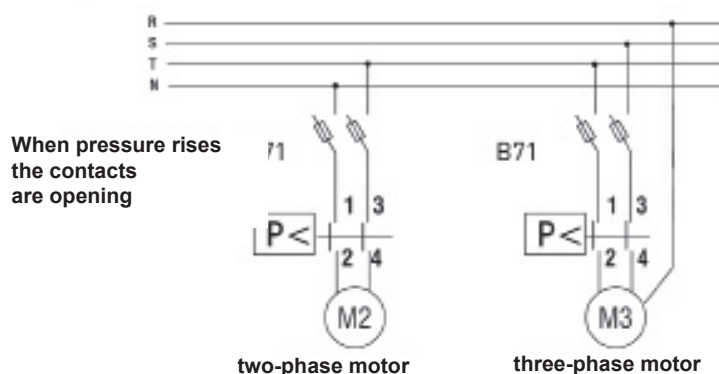
|      | Range<br>bar  | Differential*      |                 | Sensitive element<br>max differential*<br>bar | Protection<br>degree | Connection<br>G 1/4 | Connection |
|------|---------------|--------------------|-----------------|---|----------------------|---------------------|------------|
|      |               | range<br>beginning | range<br>ending |   |                      |                     |            |
| B71A | 1,5 ÷ 4,5 bar | 1,0 ÷ 2,1 bar      | 1,2 ÷ 2,3 bar   | 2,3   | IP20                 | female              | biphase    |

1 Bar = 100Kpa \*The differential must be deducted from the range value.

## ELECTRICAL FEATURES

Double breaking switch for each pole, contacts in silver alloy.

EXAMPLE OF ELECTRICAL WIRING FOR DIRECT CONTROL OF THE ELECTRIC MOTOR



|                                 |             |
|---------------------------------|-------------|
| Nominal insulation tension      | Ui 415V~    |
| Continuous duty nominal current | Ith 15A     |
| Operating nominal current in    | AC-1 le 12A |
| Operating nominal current in    | AC-3 le 3A  |

# HOMOLOGATION AND STANDARDS

Complies with EN 60947-5-1 standards.

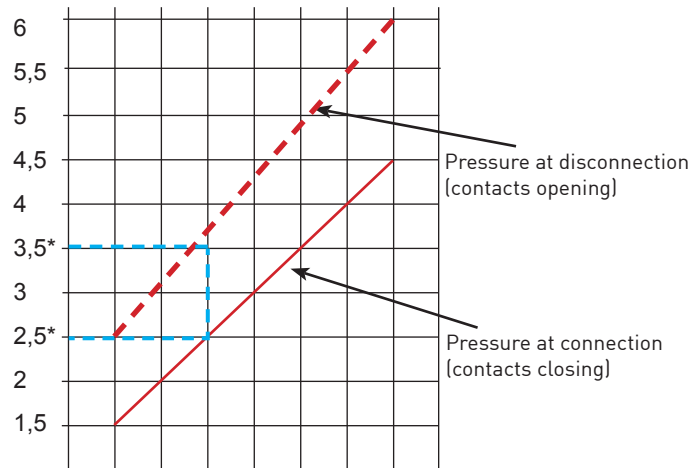
## INSTALLATION

Direct installation on the pipe.

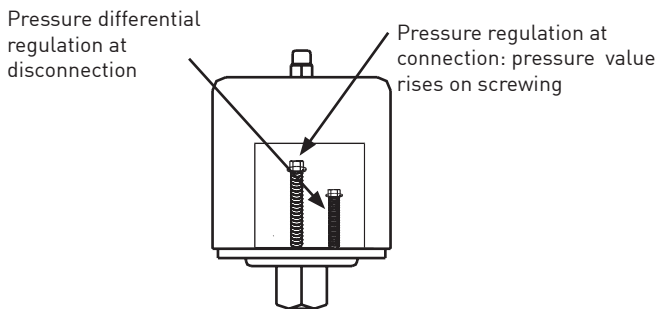
## OPERATION

Contacts are opening when pressure rises.

Bipolar contact allows the control of electric motors up to 3A, without contactor.

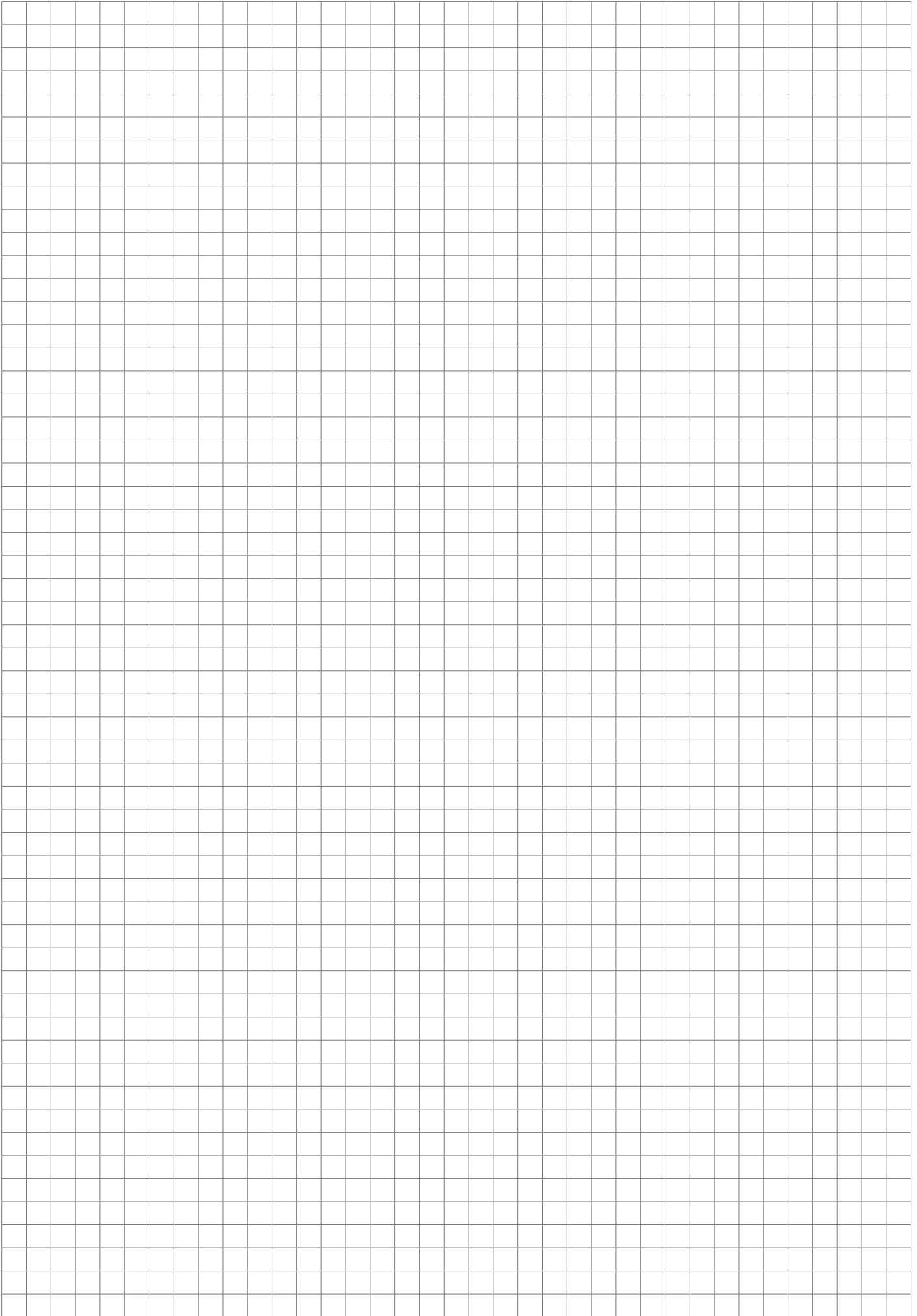


\* EXAMPLE: Pressure at disconnection 3,5 bar  
Pressure at connection 2,5 bar



## FEATURES

- Sensitive element with friction membrane.
- Adjustable differential.
- Female connection G 1/4.
- Cover in shockproof thermoplastic material.
- The metallic parts are in stainless steel.
- Earth clamp.
- Output connections with two cable glands.
- Maximum temperature of the controlled fluid: 70°C.
- Pressure switch body admissible temperature: -15 ÷ 60°C.
- Storage and transport temperature: -15 ÷ 60°C.
- Unit weight: 0,35 Kg.





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