

RV-EC-BLPS-YK PRESSURE CONTROLLER

APPLICATION

Mainly used for high- and low-pressure protection and control in household, commercial, and automotive air-conditioning refrigeration systems. It can also be applied to high- and low-pressure protection and control for various equipment and tools.

STRUCTURAL DIAGRAM

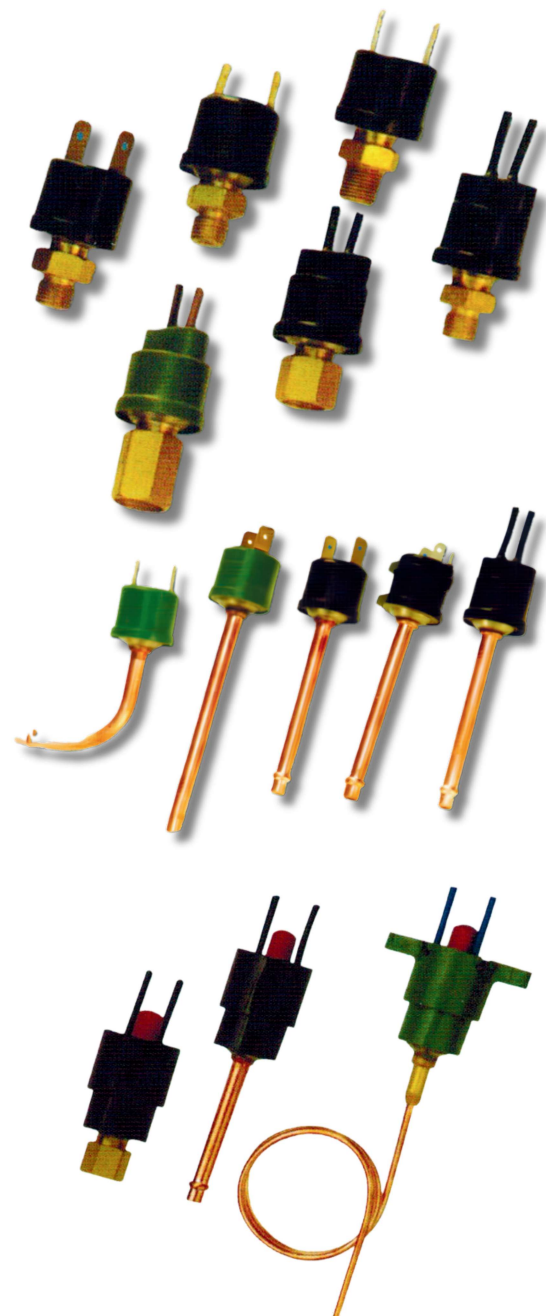
- Uses imperial pipe thread quick connectors or copper tube brazed installation structures, offering flexible installation and convenient use, with no special mounting fixtures required.
- Spade terminal connection or lead wire connection can be selected by the user.
- SPST or SPDT, and normally open (NO) or normally closed (NC) contact configurations are available as options.
- Sealed stainless steel sensor ensures safety and reliability.
- Can be manufactured according to user-selected pressure settings within the range of 3–650 PSI (0.02–4.5 MPa).

WORKING PRINCIPLE

When the system pressure is higher or lower than the rated safe pressure, the sensor diaphragm moves instantaneously and, through the connecting rod, drives the switch contacts to open or close. When the pressure drops to or rises back to the rated reset value, the diaphragm returns instantly to its original position and the switch automatically resets.

TECHNICAL SPECIFICATION

S. No.	Name	Technical Requirements
1	Pressure Setting Range	3–667 PSI / 0.02–4.6 MPa
2	Pressure Tolerance Range	1.45–14.5 PSI / 0.01–0.1 MPa
3	Contact Type	Normally Closed (High) / Normally Open (Low) NC (High) / NO (Low)
4	Contact Rating	AC 240V 3A, AC 120V 6A
5	Contact Resistance	≤ 50 mΩ
6	Insulation Resistance	Insulation resistance between terminal and housing ≥ 100 MΩ
7	Dielectric Strength	Withstand AC 1500V for 1 minute without breakdown or flashover
8	Maximum Burst Pressure	No rupture under burst pressure of ≤ 5000 PSI (≤ 34.5 MPa) for 1 minute
9	Airtightness	No leakage at 4.8 MPa for 1 minute
10	Operating Temperature Range	Ambient temperature: -30°C ~ +80°C Medium temperature: -50°C ~ +120°C



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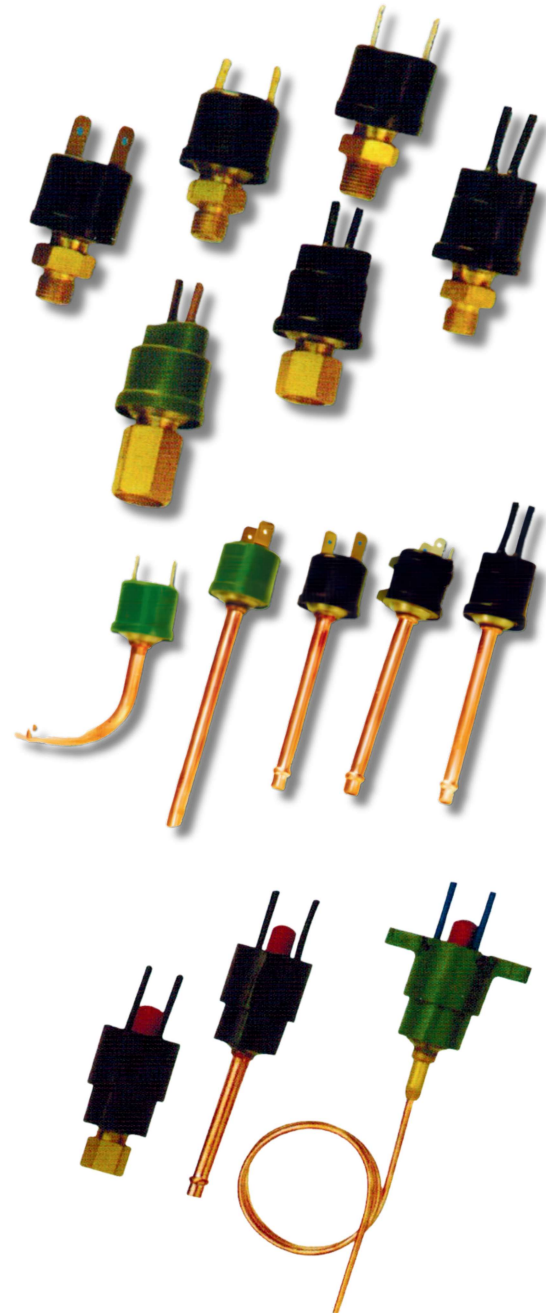
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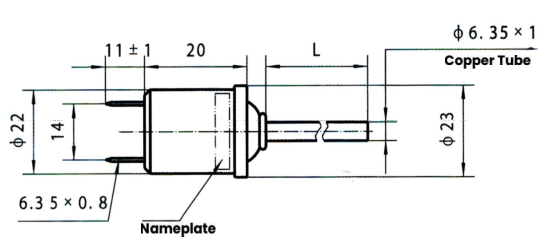
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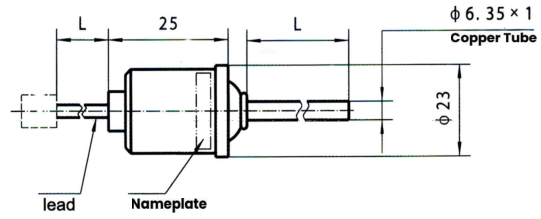
RV-EC

PRESSURE CONTROLLER

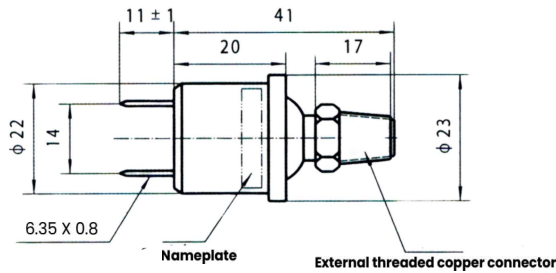
RV-EC-BLPS-YK PRESSURE CONTROLLER



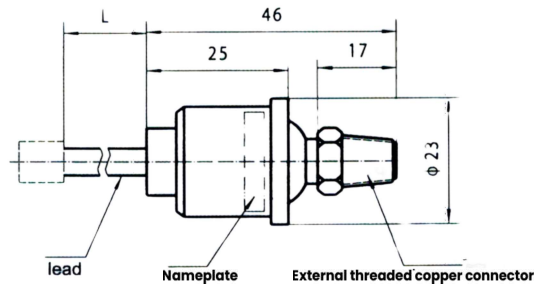
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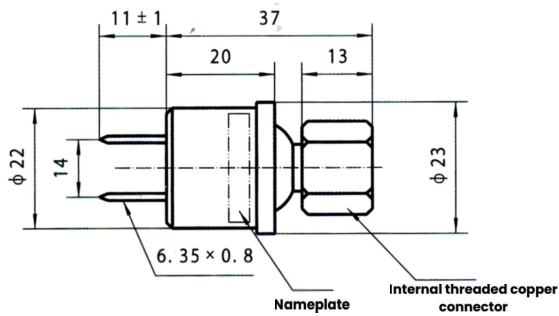
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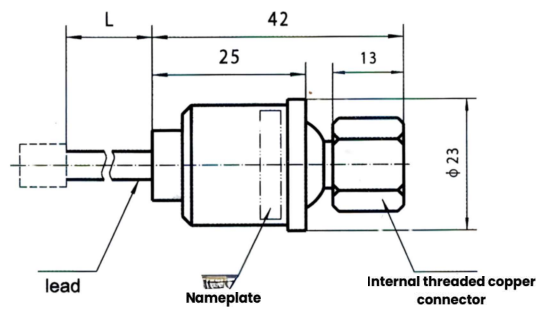
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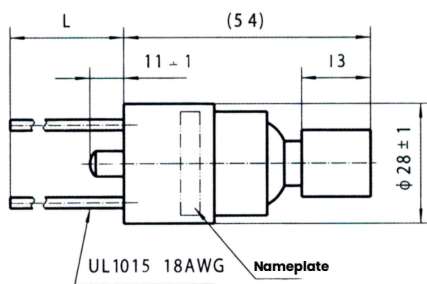
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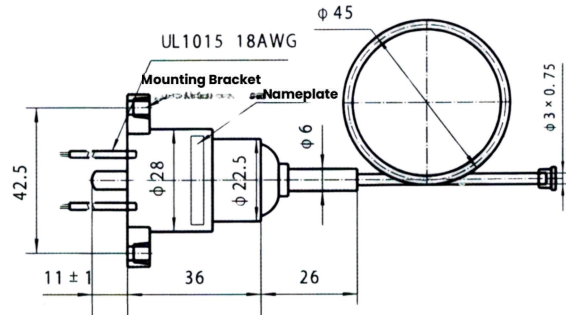
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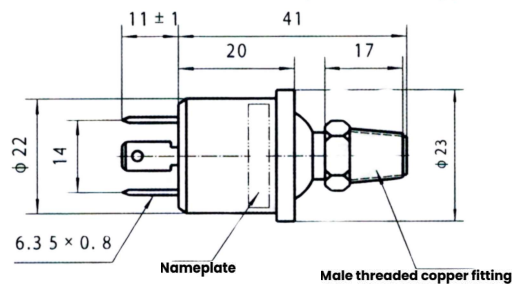
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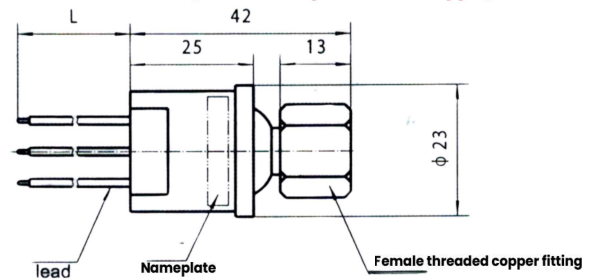
RV-EC-BLPS-YK M (Manual Replacement Type)



RV-EC-BLPS-YK M (Manual Replacement Type)



RV-EC-BLPS-YKHA (Single Tool Double Throw)



RV-EC-BLPS-YKHB (Single Tool Double Throw)