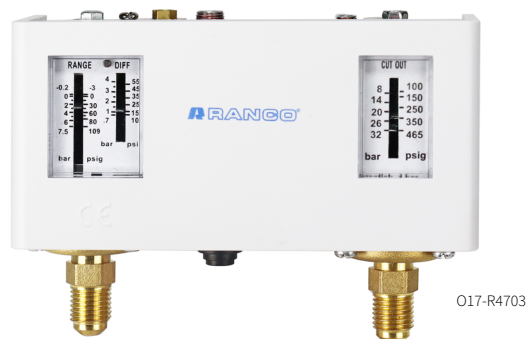


# Pressure Controls



## O Series



**1** Year  
Limited  
Warranty



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## Description

The Ranco® O Series Pressure Controls are the new range of adjustable pressure controls which are generally used in commercial refrigeration and air conditioning applications to control the compressor start/stop and fans on air-cooled condensers. The O Series feature high capacity SPDT contacts and are available as single low, single high, and dual pressure controls, with auto or manual reset. They are offered in a variety of pressure ranges and different fittings including solder braze tube and 1/4" SAE Male Flare connections to provide maximum application flexibility. All models are standard equipped with IP44 enclosures.

## New Improvements

- Increased pressure ranges allows controls to be used in different applications
- Smaller differential ranges gives users more precision when setting control parameters
- New modern compact design with heavy-duty plated steel frame
- Laser-welded dual bellows for protection against leakage provides superior safety
- Designed for high-cycle lifetime applications greater than 100,000 cycles (standard according to UL requirements)

## Features and Benefits

- Screw terminal block is fully accessible for easy wiring
- High conductivity and reliable electrical continuity through premium silver contacts
- Easy-to-read scale plate: low-pressure / high-pressure
- Automatic reset or reset button for manual controls
- Premium material for extended life
  - Laser welded stainless steel high-pressure bellow
  - Brass / bronze low-pressure bellow
- High Pressure Controls equipped with mechanical flare or braze tube solder fittings
- Bellows compatible with most non-corrosive, non-flammable HFO's, HFC's blends
- Available as individually packed with accessories (universal mounting bracket and screws) or in bulk

# Applications

- Air Conditioning Systems
- Refrigeration Systems
- Chillers
- Cold Storage Rooms

# Technical Data

|                             |                                |
|-----------------------------|--------------------------------|
| Contact Rating              | 10A 240VAC                     |
| Pilot Duty                  | 120VAC - 96LRA; 240VAC - 48LRA |
| Electrical Connector        | Screw Gasket Lock              |
| Operating Temperature Range | -40°C to 65°C (-40°F to 149°F) |
| Certifications              | CE and UL                      |

# Specifications - Single Pressure Controls

| Part Numbers | Description           | Switch | Reset  | Pressure Range                   | Differential                   | Pressure Connection |
|--------------|-----------------------|--------|--------|----------------------------------|--------------------------------|---------------------|
| O16-R6703    | Low Pressure Control  | SPDT   | Auto   | -0.2 to 8 bar<br>(-3 to 116 PSI) | 0.7 to 4 bar<br>(10 to 58 PSI) | 1/4" SAE Male Flare |
| O16-R6750    | High Pressure Control | SPDT   | Auto   | 8 to 32 bar<br>(116 to 464 PSI)  | 2 to 6 bar<br>(29 to 87 PSI)   | 1/4" SAE Male Flare |
| O16-R6751    | High Pressure Control | SPDT   | Manual | 8 to 32 bar<br>(116 to 464 PSI)  | 2 bar Fixed<br>(29 PSI)        | 1/4" SAE Male Flare |
| O16-R6763    | High Pressure Control | SPDT   | Auto   | 8 to 32 bar<br>(116 to 464 PSI)  | 2 to 6 bar<br>(29 to 87 PSI)   | Braze Tube          |

# Specifications - Dual Pressure Controls

| Part Numbers | Description           | Switch | Low Reset | Low Cut-in                         | Low Differential               | High Reset | High Differential       | Pressure Connection |
|--------------|-----------------------|--------|-----------|------------------------------------|--------------------------------|------------|-------------------------|---------------------|
| O17-R4701    | Dual Pressure Control | SPDT   | Auto      | -0.2 to 7.5 bar<br>(-3 to 109 PSI) | 0.7 to 4 bar<br>(10 to 58 PSI) | Auto       | 4 bar Fixed<br>(58 PSI) | 1/4" SAE Male Flare |
| O17-R4703    | Dual Pressure Control | SPDT   | Manual    | -0.2 to 7.5 bar<br>(-3 to 109 PSI) | 1 bar Fixed<br>(14.5 PSI)      | Manual     | 4 bar Fixed<br>(58 PSI) | 1/4" SAE Male Flare |
| O17-R4705    | Dual Pressure Control | SPDT   | Auto      | -0.2 to 7.5 bar<br>(-3 to 109 PSI) | 0.7 to 4 bar<br>(10 to 55 PSI) | Manual     | 4 bar Fixed<br>(58 PSI) | 1/4" SAE Male Flare |
| O17-R4763    | Dual Pressure Control | SPDT   | Auto      | -0.2 to 7.5 bar<br>(-3 to 109 PSI) | 0.7 to 4 bar<br>(10 to 58 PSI) | Auto       | 4 bar Fixed<br>(58 PSI) | Braze Tube          |
| O17-R4764    | Dual Pressure Control | SPDT   | Auto      | -0.2 to 7.5 bar<br>(-3 to 109 PSI) | 0.7 to 4 bar<br>(10 to 58 PSI) | Manual     | 4 bar Fixed<br>(58 PSI) | Braze Tube          |

# Replacement Information - Single Pressure Controls

| Ranco     | Eliwell   | Danfoss    | Johnson Controls | Sanhua     | Emerson Alco | Totaline    |
|-----------|-----------|------------|------------------|------------|--------------|-------------|
| O16-R6703 | O16-H6703 | 060-110166 | P77AAA-9300      | PS01AL-S01 | PS1-A3A      | T-O16-H8735 |
| O16-R6750 | O16-H6750 | 060-117166 | P77AAA-9350      | PS50AL-S51 | PS1-A5A      | T-O16-H8784 |
| O16-R6751 | O16-H6751 | 060-117366 | P77BEA-9350      | PS50ML-S51 | PS1-R5A      | T-O16-H8785 |
| O16-R6763 | O16-H6763 | 060-120366 | P77AAW-9850      | PS50AH-S02 | PS1-W5U      |             |

# Replacement Information - Dual Pressure Controls

| Ranco     | Eliwell   | Danfoss    | Johnson Controls | Sanhua      | Emerson Alco | Totaline    |
|-----------|-----------|------------|------------------|-------------|--------------|-------------|
| O17-R4701 | O17-H4701 | 060-124166 | P78LCA-9300      | PS15AAL-S51 | PS2-A7A      | T-O17-H8716 |
| O17-R4703 | O17-H4703 | 060-124566 | P78PGA-9300      |             | PS2-R7A      | T-O17-H8717 |
| O17-R4705 | O17-H4705 | 060-124366 | P78MCA-9300      | PS15AML-S51 | PS2-L7A      |             |
| O17-R4763 | O17-H4763 | 060-127666 | P78LCW-9800      | PS15AAH-S02 | PS2-W7U      |             |
| O17-R4764 | O17-H4764 | 060-127466 | P78MCB-9800      | PS15AMH-S02 | PS2-C7L      |             |