



REFRIGERATION

RANCO®



O10-1402



O16-528-081

PRESSURE CONTROLS

O Series - Single Low Pressure Controls

The Ranco® O Series Single Low Pressure Controls offer a variety of pressure ranges and switch action to provide maximum application flexibility.

Features and Benefits

- Controls available for most refrigerant types
- High-amp rated switch (SPST) design (O10-1402/O10-1483)
- Super Cap® capillary vibration protection system
- Non-conductive front cover with captive screw
- Adjustable differential and range
- Easy-to-read scale plate
- Vibration cone (absorbs and reduces vibration away from brazed joint)
- Low mass copper alloy capillary tube (reduces capillary stress caused by equipment vibration)

The O16-624 control has additional features:

- Compatible with refrigerants 134A, 401A, 401B, 402A, 402B, 403A, 403B and 404A
- Originally designed for use with obsolete refrigerants R12, R22, R500 and R502
- Cap included on all Australia temperature controls. Optional for all other regions.

Specifications

Part Numbers	Description	Reset	Switch	Pressure Range	Differential	Pressure Connection	Capillary Length	Replaces
O10-1402 (NA)	Low Pressure Control	Auto	SPST	12" Hg to 50 PSI (0.4 to 3.5 bar)	5 to 35 PSI (0.3 to 2.4 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O10-1483 (NA)	Low Pressure Control	Auto	SPST	10" Hg to 100 PSI (0.3 to 7 bar)	10 to 40 PSI (1 to 3 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O16-107 (NA) O16-107-057 (EU, SA)	Low Pressure Control	Auto	SPDT	10" Hg to 100 PSI (0.3 to 7 bar)	10 to 40 PSI (1 to 3 bar)	1/4" SAE Flare Nut	NA	Johnson P70AB-1
O16-527 (NA)	Low Pressure Control	Auto	SPDT	10" Hg to 100 PSI (0.3 to 7 bar)	10 to 40 PSI (1 to 3 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O16-528 (NA) O16-528-081 (EU, SA)	Low Pressure Control	Auto	SPDT	10" Hg to 100 PSI (0.3 to 7 bar)	10 to 40 PSI (1 to 3 bar)	Male Connection 7/16" - 20 UNF for a 1/4" Female Flare	NA	O16-H6703-101
O16-706 (ANZ)	Low Pressure Control	Auto	SPDT	-30 to 700 kPa	60 to 275 kPa	1/4" SAE Flare Male (color dark)	NA	O16-528 O16-6706 O16-8706
O16-713 (ANZ)	Low Pressure Control	Auto	SPDT	-30 to 700 kPa	60 to 300 kPa	1/4" SAE Flare Female (color gold)	36" (0.9m)	O16-529 O16-8713 O16-6713
O16-585-000 (EU, SA)	Low Pressure Control	Manual	SPDT	10" Hg to 100 PSI (0.3 to 7 bar)	10 PSI (1 bar) Fixed	1/4" SAE Flare Nut	NA	
O16-624 (NA)	Low Pressure Control	Auto	SPDT	12" Hg to 80 PSI (0.4 to 5.5 bar)	5 to 38 PSI (0.3 to 2.6 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O16-638 (NA) O16-638-081 (EU, SA)	Low Pressure Control	Manual	SPDT	10" Hg to 100 PSI (0.3 to 7 bar)	9 PSI (0.6 bar) Fixed	Male Connection 7/16" - 20 UNF for a 1/4" Female Flare	NA	O16-H6705-101
O16-705 (ANZ)	Low Pressure Control	Manual	SPDT	-30 to 700 kPa	60 kPa Fixed	1/4" SAE Flare Male	NA	O16-638 O16-8705 O16-6705



1 Year Limited Warranty



PRESSURE CONTROLS

O Series - Single High and Ultra High Pressure Controls

The Ranco® O Series Single High and Ultra High Pressure Controls offer a variety of pressure ranges and switch action to provide maximum application flexibility.

Features and Benefits

- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- Super Cap® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame
- Cap included on all Australia temperature controls. Optional for all other regions.

The O16-6201-070 control has additional features:

- Suitable for 404A, 407A 410A, and R507 applications



O16-200

Specifications

Part Numbers	Description	Reset	Switch	Pressure Range	Differential	Pressure Connection	Capillary Length	Replaces
O16-6201-070	Ultra High Pressure Control	Auto	SPDT	200 to 700 PSI (14 to 48 bar)	50 to 150 PSI (3 to 10 bar)	1/4" flare nut with 7/16-20 UNF straight thread	36" (0.9m)	Johnson Controls P70CA-400C, P70AA-400C, P70CA-3C, Danfoss 060-5245, 060-5242
O10-2054 (NA)	Single High Pressure Control	Auto	SPST	100 to 400 PSI (7 to 27 bar)	40 to 150 PSI (3 to 10 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O16-108 (NA)	Single High Pressure Control	Auto	SPDT	100 to 400 PSI (7 to 27 bar)	40 to 150 PSI (3 to 10 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O16-200 (NA)	Single High Pressure Control	Manual	SPDT	150 to 450 PSI (10 to 31 bar)	40 PSI (3 bar) Fixed	1/4" SAE Flare Nut	48" (1.2m)	
O20-7006 (NA)	Single High Pressure Control	Auto	DPST	100 to 400 PSI (7 to 27 bar)	40 to 150 PSI (3 to 10 bar)	1/4" SAE Flare Nut	36" (0.9m)	
O16-209-000 (EU, SA)	Single High Pressure Control	Manual	SPDT	10" Hg to 100 PSI (0.3 to 7 bar)	40 PSI (3 bar) Fixed	1/4" SAE Flare Nut	NA	
O16-530 (NA) O16-530-081 (EU, SA)	Single High Pressure Control	Auto	SPDT	100 to 400 PSI (7 to 27 bar)	40 to 150 PSI (3 to 10 bar)	Male Connection 7/16" - 20 UNF	NA	O16-H6750-101
O16-750 (ANZ)	Single High Pressure Control	Auto	SPDT	700 to 2800 kPa	300 to 1000 kPa	1/4" SAE Flare Male (color silver)	NA	O16-530 O16-8750 O16-6750
O16-531 (NA) O16-531-081 (EU, SA)	Single High Pressure Control	Manual	SPDT	150 to 450 PSI (10 to 31 bar)	40 PSI (3 bar) Fixed	Male Connection 7/16" - 20 UNF	NA	O16-H6751-101
O16-751 (ANZ)	Single High Pressure Control	Manual	SPDT	1000 to 3000 kPa	350 kPa Fixed	1/4" SAE Flare Male (color silver)	NA	O16-531 O16-8751 O16-6751



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REFRIGERATION

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PRESSURE CONTROLS



O Series - Ice Bank Control

The Ranco® O Series Ice Bank Control is suitable for soft drink dispensers, drink vending machines and ice builders for thermal storage. Uses a special water-filled bulb and transmission fluid to control ice thickness in applications utilizing a refrigerated water bath with ice bank reserve capacity.

Specifications

Part Numbers	Description	Switch	Cut-In	Cut-Out	Temperature	Capillary Length	Sensing Element
018-100	Ice Bank Control	SPST	34.5°F	27.5°F	Fixed 32°F	76"	Bulb
018-100-080 (ANZ, EU, SA)	Ice Bank Control	SPST	34.5°F	27.5°F	Fixed 32°F	76"	Bulb

MINI PRESSURE SENSORS



MPV Series

The Ranco® Mini Pressure Sensors are electromechanical pressure microswitches with fixed settings. It is compact and easy to install. These pressure microswitches are used to protect refrigeration systems that work under critical conditions by programming the high- and low-pressure limit values. Thanks to the innovative technology used in its manufacture, the Ranco® pressure microswitches offer the best solutions to the refrigeration and air conditioning industry.

Specifications

Part Numbers	Description	Refrigerant Gas That is Normally Applied	Off	On	Electrical Connection	Pressure Connection
MPV0121-02U	Mini Pressure Sensor Low Pressure	R22/R407C/R134A/R404A/R507	3 PSI (0.2 bar)	20 PSI (1.4 bar)	Appendage 1m	1/4" SAE
MPV0221-02U	Mini Pressure Sensor Medium Average Pressure	R410A	34.8 PSI (2.4 bar)	59.5 PSI (4.1 bar)	Appendage 1m	1/4" SAE
MPV0321-02U	Mini Pressure Sensor High Pressure	R22/R407C/R404A/R507	385.3 PSI (26.5 bar)	261 PSI (18.0 bar)	Appendage 1m	1/4" SAE
MPV0421-02U	Mini Pressure Sensor Low Pressure	R410A	75 PSI (5.2bar)	100 PSI (6.9 bar)	Appendage 1m	1/4" SAE
MPV0521-02U	Mini Pressure Sensor High Pressure	R410A	600 PSI (41.4 bar)	475 PSI (32.8 bar)	Appendage 1m	1/4" SAE

RoHS



1 Year Limited Warranty

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