

Refrigeration

RANCO® - O SERIES SINGLE FUNCTION PRESSURE CONTROLS

O11 SERIES - LOW PRESSURE CONTROLS

PART NO	RESET AUTO	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O11-1799 ■	.	SPST-OPENS HIGH		*	JOHNSON:P70CA-56, P70CA-92, P70CA-39, P70CA-97	10" TO 100	10 TO 40
RAN-O11-3099	•	SPST-OPENS HIGH	36"	†	JOHNSON: P70CC-4, P70CA-1, 4P3 262AP01, P70CA-66 4P6A 2P5 4P6 P70CA-65, P70CA-9	10" TO 100	10 TO 40
RAN-O11-3173	•	SPST-OPENS HIGH	36"	†		12" TO 50	5 TO 35

O16 SERIES - LOW PRESSURE CONTROLS

PART NO	RESET AUTO	MANUAL	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O16-107	Y	--	SPDT	--	--	JOHNSON: P70AB-1	10 TO 100	10 TO 40
RAN-O16-120	Y	--	SPDT	--	*	HONEYWELL: L414A, JOHNSON: P70AA-157, P70AA-64, P70AN-8, PAN-9, P70EA-7, P70EA-8	12 TO 50	5 TO 35
RAN-O16-166	Y	--	SPDT	36	†	JOHNSON: P70AA-2	50 TO 150	10 TO 40
RAN-O16-261	--	Y	SPDT	48	†	JOHNSON: P70DA-19, P70DA-21, P70DA-34, P70DA-35	10 TO 100	10
RAN-O16-527	Y	--	SPDT	36	†	JOHNSON: P70AB-2	10 TO 100	10 TO 40
RAN-O16-557	Y	--	SPDT	--	*	HONYWELL: P420B, JOHNSON: P70AB-2	12 TO 50	5 TO 35
RAN-O16-585	--	Y	SPDT	--	--	JOHNSON: P70DA-9, P70DA-21, P70DA-34, P70DA-35	10 TO 100	10
RAN-O16-624 tt	Y	--	SPDT	36	†	--	12 TO 80	4 TO 30

O20 SERIES - LOW PRESSURE CONTROLS

PART NO	RESET AUTO	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O20-7002	Y	DPST	36	†	JOHNSON: P72AQ-1	12 TO 50	5 TO 35

*1/4" SAE male flare.

**36" refrigerant hose.

† 1/4" SAE flare nut

†† Compatible with new refrigerants 134A, 401A, 401E, 402A, 402B, 4C3A, 403B and 404A

■ Obsolete – Use O16-107

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration

RANCO® - O SERIES SINGLE FUNCTION PRESSURE CONTROLS



These controls offer a tailored variety of ranges and options for R12, R22 and R502 refrigerants. Low and high pressure functions are combined into a single control switch.

Features

- Exclusive “convertible” reset for manual or automatic high pressure reset on some models.
- 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.
- Color coded flare nuts.

ELECTRICAL RATING

RATING	O12- SPST				O22-DPST			
	24V	120V	240V	241-600V	120V	240V	480V	600V
FULL LOAD AMPS	-	24	24	-	20	72	7.5	6
LOCKED ROTOR AMPS	-	144	144	-	120	72	45	36
PLOT DUTY (VA)	144	720	720	125	125	125	125	12.5

ORDERING INFORMATION

PART NO.	LOW PRESSURE (OPENS LOW)				HIGH PRESSURE (OPENS HIGH)				CAPILLARY LENGTH	REPLACES
	RESET		CUT-IN RANGE (PSI)	DIFFERENTIAL PSI	RESET		CUT-OUT RANGE PSI	DIFFERENTIAL PSI		
	AUTO	MAN			AUTO	MAN				

O12 SERIES – SPST SWITCH

RAN-O12-1505	•				•				*	HONEYWELL: L413A
RAN-O12-1506	•				•		100 TO 250	50-FIXED	36"†	HONEYWELL: P421B, JOHNSON: P70LA-88
RAN-O12-1439	•				•				*	
RAN-O12-1502	•				•				36"†	JOHNSON: P70LA-87, P70LA-96
RAN-O12-4842	•		12" TO 50	5 TO 35	•	•			*	
RAN-O12-4833	•				CONVERTIBLE				48"†	HONEYWELL: P421B, JOHNSON: P70LA-50, P70LA-81, P70LB-6, P70LN-8, P70LN-9, P70MA-48, P70MN-2
RAN-O12-1550	•				•		150 TO 450	70 - FIXED	*	JOHNSON: P70LA-42, P70LA-43, P70LA-44, P70LA-52, P70LA-86, P70LB-20, P70LB-23, P70LB-5
RAN-O12-1549	•				•				36"†	HONEYWELL: 107555, JOHNSON: P70LA-1, P70LA-14, P70LA-20, P70LA-24, P70LA-28, P70LB-1, P70LB-19
RAN-O12-4120**	•		10" TO 100	10 TO 40	•				*	
RAN-O12-4840**	•				•				36"†	
RAN-O12-4846	•				•	•			*	
RAN-O12-4834	•				CONVERTIBLE				48"†	HONEYWELL: 107555, 107556, 110198, JOHNSON: P70LA-1, P70LB-1, P70MA-1
RAN-O12-1594		•		10-FIXED		•			36"†	HONEYWELL: 107295, 107710, 107554, JOHNSON: P70NA-1, P70NA-13, P70NA-7
RAN-O12-4147		•		10 TO 40		•			*	

O22 SERIES – DPST SWITCH

RAN-O22-7702	•		12" TO 50	5 TO 35	•	•	100 TO 250	50-FIXED	36"†	JOHNSON: P72LA-1, P72LB-1, P72MA-1
RAN-O22-7706	•		10" TO 100	10 TO 40	CONVERTIBLE		150 TO 450	70-FIXED		

*Has 1/4" SAE male flare

†Has 1/4" SAE flare nut

**Has 350 PSI limit stop

*†36" refrigerant hose

RANCO® - O SERIES SINGLE FUNCTION HIGH PRESSURE CONTROLS



These controls offer a variety of pressure ranges and switch action to provide maximum application flexibility.

FEATURES

- 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 bellow for extended life
- Heavy-duty plated steel frame
- Suitable for R12, R22, and R502 applications

O10 SERIES- HIGH PRESSURE CONTROLS

PART NO	RESET AUTO	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O10-1807	Y	SPST-OP ENS LOW	--	Y	JOHNSON: P70AA-151	100 TO 250	20 TO 100
RAN-O10-1894	Y	SPST-OP ENS LOW	--	Y	JOHNSON: P70AC-2, P70AA-70, P70AA-122, P70AA-58, P70AA-17	100 TO 400	40 TO 150
RAN-O10-2000	Y	SPST-OP ENS LOW	48	†	JOHNSON: P70AA-152, P70AA-142, P70AA-162, P70AA-135, P70AA-159	100 TO 250	20 TO 100
RAN-O10-2054	Y	SPST-OP ENS LOW	36	†	JOHNSON: P70AA-144, P70AA-143, P70AC-1, P70AC-8, P70AA-158, 2P6 P70AA-91, P70AA-66, P70AA-78	100 TO 400	40 TO 150

O10 SERIES- HIGH PRESSURE CONTROLS WITH REFRIGERANT HOSE

PART NO	RESET AUTO	SWITCH	PRESSURE CONNECTION	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O10-1894H	Y	SPST-OPENS LOW	**	100 TO 400	40 TO 150

O11 SERIES- HIGH PRESSURE CONTROLS

PART NO	RESET AUTO	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O11-1711	*	SPST-OPENS HIGH		*	JOHNSON: P70CA-95, P70CA-99, P70CA-100 4P10, P70CA-14, P70CA-2, 4P10A	150 TO 450	40 TO 150
RAN-O11-1713 ■	*	SPST-OPENS HIGH	36"	†	HONEYWELL: P422A, JOHNSON: 2P3, P70CA-33, P70CA-77, 4P8, P70CA-70-96, P70CA-76	150 TO 450	10 TO 40

O16 SERIES- HIGH PRESSURE CONTROLS

PART NO	RESET AUTO	MANUAL	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O16-108	Y	--	SPDT	36	†	JOHNSON: P70CA-17, P70CA-46, P70CA-50, P70CA-76, P70CA-77, P70EA-6	100 TO 400	40 TO 150
RAN-O16-142	Y	--	SPDT	--	†	JOHNSON: P70CA-13	--	17-FIXED
RAN-O16-200	--	Y	SPDT	48	†	HONEYWELL: P422B. JOHNSON: P700A-1	--	40
RAN-O16-209	--	Y	SPDT	--	*	JOHNSON: P70DA-47, P70DA-56, P70DA-57, P70DA-58	150 TO 450	40
RAN-O16-503	Y	--	SPDT	--	*	JOHNSON: P70DA-47, P70DA-56, P70AA-130, P70AA-137, P70CA-100, P70CA-14, P70CA-95. JOHNSON: P70-CA-32	150 TO 450	40 TO 150
RAN-O16-570	Y	--	SPDT	--	*	--	100 TO 400	40 TO 150

O20 SERIES- HIGH PRESSURE CONTROLS

PART NO	RESET AUTO	SWITCH	CAPILLARY LENGTH (in)	PRESSURE CONNECTION	REPLACES	RANGE (psig)	DIFFERENTIAL (psi)
RAN-O20-7006	Y	DPST-OPENS LOW	36	†	JOHNSON: P72AA-27	100 TO 400	40 TO 150

* 1/4" SAE Male Flare

** 36" refrigerant hose

† 1/4" SAE flare nut

■ Obsolete - use O16-503.

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