



Refrigerant Pressure Controls

■ SPST, except where noted

DUAL-PRESSURE CONTROLS

Combine high-pressure compressor protection with low-pressure, cycling, or safety functions.

For R-12, R-22, R-134A, and R-502.

Johnson Controls—Visible pressure scale. Adjustable through the range without removing cover. Manual reset models are trip-free. P170 models require armored capillary tubes; see Grainger.com.

SINGLE-PRESSURE CONTROLS

For R-12, R-22, R-134A, and R-502. Controls 40G337, 40G338, 40G344, 40G388, 40G389, 40G399, and 40G404 are compatible with R-410A.

Low Pressure—Protect compressors against loss of refrigerant. Also used to cycle compressors in commercial refrigeration applications.

High Pressure—Protect compressors from excessive system pressure.

NONADJUSTABLE PRESSURE SWITCHES

■ Automatic reset, except where noted

■ Bursting pressure: 5000 psi

Snap-acting sensor. 1/4" female SAE connection. 24/120/240V. Switches 40G327, 40G323, 2HYV5, 2HYV6, and 2HYV7 are compatible with R-410A.

Low Pressure (psig) * Range (in.)	High Pressure (psig) Range (in.)	Diff.	Reset Low	High	Pressure Connc.	Brand	Mfr. Model	Item No.
Dual Pressure Controls								
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70LB-6C 40G407
12 Hg to 80	5 to 35	100 to 500	65 psig	Auto	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70MA-18C 40G408
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Convertible	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70SA-1C 40G412 #
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Auto	1/4 in Male Flare	Johnson Controls	P170LB-6C 40G347
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Manual	1/4 in Male Flare	Johnson Controls	P170MA-18C 20XH84
12 Hg to 80	5 to 35	100 to 500	55 psig	Auto	Convertible	1/4 in Male Flare	Johnson Controls	P170SA-1C 40G349 #
20 Hg to 100	7 to 50	100 to 500	55 psig	Manual	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70MA-1C 40G411
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70MA-2C 40G410
20 Hg to 100	7 to 50	100 to 500	—	Manual	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P72MA-1C 40G414 †
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70LB-1C 40G406
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70MA-1C 40G409
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Auto	1/4 in Male Flare	Johnson Controls	P170LB-1C 40G346
20 Hg to 100	7 to 50	100 to 500	55 psig	Auto	Manual	1/4 in Male Flare	Johnson Controls	P170MA-1C 40G348
10 to 100	10 to 40	150 to 450	70 Fixed	Auto	Auto	36 in Capillary	Ranco	O12-1549 2E989
10 to 100	10 to 40	150 to 450	70 Fixed	Auto	Auto/Man	48 in Capillary	Ranco	O12-4834 2E990
10 to 100	10 Fixed	150 to 450	70 Fixed	Manual	Manual	Color Coded 1/4 inch Flare Nuts	Ranco	o12-1594 12Z407
12 to 50	5 to 35	100 to 250	50 Fixed	Auto	Auto	36 in Capillary	Ranco	O12-1506 2E986
12 to 50	5 to 35	150 to 450	70 Fixed	Auto	Auto	36 in Capillary	Ranco	O12-1502 2E987
12 to 50	5 to 35	150 to 450	70 Fixed	Auto	Auto/Man	48 in Capillary	Ranco	O12-4833 2E988
Differential Pressure Controls								
8 to 70	8 to 30	—	—	Auto	—	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P74BA-1C 20XH85
2 to 26	3.5 Fixed	—	—	Auto	—	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P74EA-8C 40G415 **
8 to 60	1.5 Fixed	—	—	Auto	—	1/4 in Male Flare	Johnson Controls	P74FA-1C 40G416 **
8 to 60	1.5 Fixed	—	—	Auto	—	1/4 in Female NPT	Johnson Controls	P74FA-5C 40G417 **
2 to 26	1.5 Fixed	—	—	Auto	—	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P74FA-10C 20XH86

Differential Pressure Controls								
8 to 70	8 to 30	—	Auto	—	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P74BA-1C	20XH85
2 to 26	3.5 Fixed	—	Auto	—	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P74EA-8C	40G415 *
8 to 60	1.5 Fixed	—	Auto	—	1/4 in Male Flare	Johnson Controls	P74FA-1C	40G416 *
8 to 60	1.5 Fixed	—	Auto	—	1/4 in Female NPT	Johnson Controls	P74FA-5C	40G417 *
2 to 26	1.5 Fixed	—	Auto	—	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P74FA-10C	20XH86
Range psi	Diff. Pressure (psi)	Reset	Pressure Connec.	Brand	Mfr. Model	Item No.		
Single Pressure Controls								
Switch Opens on Low Pressure								
0 to 150	10 to 70	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70AA-2C	40G388		
12 in to 80	5 to 35	Auto	1/4 in Male SAE	Johnson Controls	P170AB-12C	40G339		
12 in to 80	5 to 35	Auto	1/4 in Flare Nut	Johnson Controls	P70AB-12C	40G391		
20 in to 100	2.2	Manual	1/4 in Male Flare	Johnson Controls	P29NC-2C	40G360		
20 in to 100	2.2	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P29NC-3C	40G361		
20 in to 100	7	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70BA-1C	40G395		
20 in to 100	7 to 50	Auto	1/4 in Male Flare	Johnson Controls	P170AB-2C	40G340		
Switch Opens on High Pressure								
20 in to 100	7 to 50	Auto	1/4 in Male Flare	Johnson Controls	P170CA-1C	40G341		
Switch Opens on Low Pressure								
20 in to 100	7 to 50	Auto	1/4 in. SS Female NPT	Johnson Controls	P70AA-5C	40G390		
20 in to 100	7 to 50	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70AB-2C	40G393		
20 in to 100	7 to 50	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70AB-2CQ	40G394		
50 in to 300	20 to 120	Auto	48 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70AA-162C	20RG54		
50 to 300	20 to 120	Auto	1/4 in Female NPT	Johnson Controls	P70AA-119C	40G387		
50 to 500	60 to 150	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70CA-2C	40G397		
100 to 400	35 to 200	Auto	1/4 in Flare Nut	Johnson Controls	P72AA-27C	40G413 †		
100 to 400	35 to 200	Auto	1/4 in Male SAE	Johnson Controls	P170AA-118C	40G336		
100 to 400	35 to 200	Auto	1/4 in Flare Nut	Johnson Controls	P70AA-118C	40G386		
100 to 470	35 to 200	Auto	1/4 in Male Flare	Johnson Controls	P170AA-400C	40G338		
100 to 470	35 to 200	Auto	1/4 in Flare Nut	Johnson Controls	P70AA-400C	40G389		
10 in to 100	10 to 40	Auto	36 in Capillary with 1/4 in Flare Nut	Ranco	O10-1483	2E982		
12 in to 50	5 to 35	Auto	1/4 in Male Flare	Ranco	O10-1401	2E980		
12 in to 50	5 to 35	Auto	36 in Capillary with 1/4 in Flare Nut	Ranco	O10-1402	2E981		
12 in to 80	5 to 38	Auto	1/4 in Flare Nut	Ranco	o16-624	12Z406		
100 to 400	40 to 150	Auto	36 in Capillary with 1/4 in Flare Nut	Ranco	O10-2054	2E983		
100 to 400	40 to 150	Auto	36 in Capillary with Flare Nut	Ranco	O20-7006	3XL03 †		
0 to 650	—	Auto	1/4 in Female SAE	Supco	SLP75100	4LWX9		
0 to 650	—	Auto	1/4 in Female SAE	Supco	SFC200240	4LWY2		
0 to 150	10 to 70	Auto	1/4 in Male Flare	Johnson Controls	P170AA-2C	40G337		
Switch Opens on High Pressure								
20 in to 100	7 to 50	Auto	1/4 in Brass Female NPT	Johnson Controls	P70CA-61C	20RG55		
20 in to 100	7 to 50	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70CA-4C	40G401		
20 in to 100	7 to 50	Auto	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70CA-1C	40G396		
50 to 450	60	Manual	1/4 in. SS internal NPT	Johnson Controls	P70DA-2C	40G403		
50 to 500	60	Manual	1/4 in Male Flare	Johnson Controls	P170KA-1C	40G345 ‡		
50 to 500	60	Manual	1/4 in Stainless Steel Female NPT	Johnson Controls	P70KA-7C	20RG56		
50 to 500	60	Manual	1/4 in Male SAE	Johnson Controls	P170DA-1C	40G343		
50 to 500	60	Manual	1/4 in Flare Nut	Johnson Controls	P70DA-1C	40G402		
50 to 500	60	Manual	36 in Capillary with 1/4 in Flare Nut	Johnson Controls	P70KA-1C	40G405 ‡		
50 to 500	60 to 150	Auto	1/4 in Flare Nut	Johnson Controls	P70CA-3C	40G398		
50 to 500	60 to 150	Auto	1/4 in Male SAE	Johnson Controls	P170CA-3C	40G342		
200 to 610	60	Manual	1/4 in Male SAE	Johnson Controls	P170DA-400C	40G344		
200 to 610	60	Manual	1/4 in Flare Nut	Johnson Controls	P70DA-400C	40G404		
200 to 610	60 to 150	Auto	1/4 in Male Flare	Johnson Controls	P170CA-400C	2HYV3		
200 to 610	60 to 150	Auto	1/4 in Flare Nut	Johnson Controls	P70CA-400C	40G399		
150 to 450	40 to 150	Auto	1/4 in Male Flare	Ranco	O11-1711	2E985		
0 to 650	—	Auto	1/4 in Female SAE	Supco	SHP600475	4LWY1		

* Low pressure is measured (in vacuum) to psig. ** SPDT switch; 2-3 close on rise, 2-1 open on rise. † DPST switches. ‡ DPST switch. † 4-wire, 2-circuit.