



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. Range (in.)	Reset Low	Reset High	Pressure Connec.	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 P70NA-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	—	psig	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 012-1549 2E989
10 to 100	10 to 40	150 to 450	70	Fixed	Auto	Auto/Man	48 in Capillary	Ranco 012-4834 2E990
10 to 100	10 Fixed	150 to 450	70	Fixed	Manual	Manual	Color Coded 1/4 inch Flare Nuts	Ranco 012-1594 122407
12 to 50	5 to 35	100 to 250	50	Fixed	Auto	Auto	36 in Capillary	Ranco 012-1506 2E986
12 to 50	5 to 35	150 to 450	70	Fixed	Auto	Auto	36 in Capillary	Ranco 012-1502 2E987
12 to 50	5 to 35	150 to 450	70	Fixed	Auto	Auto/Man	48 in Capillary	Ranco 012-4833 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

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
20 in to 100	7 to 50	Auto	1/4 in Male Flare	Johnson Controls	P170CA-1C	40G341
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-20C	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	010-1483	2E982
12 in to 50	5 to 35	Auto	1/4 in Male Flare	Ranco	010-1401	2E980
12 in to 50	5 to 35	Auto	36 in Capillary with 1/4 in Flare Nut	Ranco	010-1402	2E981
12 in to 80	5 to 38	Auto	1/4 in Flare Nut	Ranco	016-624	122406
100 to 400	40 to 150	Auto	36 in Capillary with 1/4 in Flare Nut	Ranco	010-2054	2E983
100 to 400	40 to 150	Auto	36 in Capillary with Flare Nut	Ranco	020-7006	3XL03 †
0 to 650	Auto	Auto	1/4 in Female SAE	Supco	SLP75100	4LWX9
0 to 650	Auto	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	40G346
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-400E	2HYV3
200 to 610	60 to 150	Auto	1/4 in Flare Nut	Johnson Controls	P70CA-400E	40G399
150 to 450	40 to 150	Auto	1/4 in Male Flare	Ranco	011-1711	2E985
0 to 650	Auto	Auto	1/4 in Female SAE	Supco	SHP600475	4LWY1
Switch Opens on High/Low Pressure						
100 to 400	40 to 150	Auto	36 in Capillary with Flare Nut	Ranco	016-108	2E984 **

Open (psi)	Close (psi)	Brand	Mfr. Model	Item No.
Nonadjustable Pressure Switches				
Switch Opens on Low Pressure				
5 psi	20	Johnson Controls	P100AC-1C	40G315
10 psi	32	Johnson Controls	P100AP-201C	2HYV6
15 psi	30	Johnson Controls	P100AC-2C	40G316
35 psi	60	Johnson Controls	P100AA-2C	40G313
35 psi	60	Johnson Controls	P100AP-2C	40G317
40 psi	70	Johnson Controls	P20EB-1C	20RG50
40 psi	Lockout	Johnson Controls	P20BB-1C	20RG48
150 psi	225	Johnson Controls	P100AA-3C	40G314
150 psi	225	Johnson Controls	P100AP-3C	40G318
170 psi	250	Johnson Controls	P100AA-4C	40G319
300 psi	400	Johnson Controls	P100AP-332C	2HYV5
15 psi	35	Supco	SLP1532	2FRB6
25 psi	50	Supco	SLP2550	2FRB7
40 psi	80	Supco	SLP4080	2FRB8
5 psi	20	—	—	6AL2
10 psi	25	—	—	6AL3
10 psi	32	—	—	6ALC2
25 psi	65	—	—	6AL4A
25 psi	80	—	—	6AL5A
35 psi	60	—	—	6ALC3
Switch Opens on High Pressure				
275 psi	175	Johnson Controls	P100CC-9C	20RG46
350 psi	Manual Reset	Johnson Controls	P100DA-35C	40G326
360 psi	Lockout	Johnson Controls	P20GB-1C	20RG52
375 psi	Manual Reset	Johnson Controls	P100DC-3C	40G328
400 psi	300	Johnson Controls	P100CA-1C	40G320
400 psi	300	Johnson Controls	P100CP-2C	40G321
400 psi	324	Johnson Controls	P20EB-2C	20RG51
400 psi	Lockout	Johnson Controls	P20DB-1C	20RG49
410 psi	Manual Reset	Johnson Controls	P100DA-1C	40G324
425 psi	325	Johnson Controls	P100CP-2C	40G322
425 psi	325	Johnson Controls	P100CA-2C	20RG45
475 psi	Manual Reset	Johnson Controls	P100DA-2C	40G325
575 psi	Manual Reset	Johnson Controls	P100DA-86C	40G327
630 psi	Manual Reset	Johnson Controls	P100DA-81C	2HYV7
665 psi	565	Johnson Controls	P100CP-95C	40G323
350 psi	250	Supco	SHP350250	2FBP9
375 psi	265	Supco	SHP375265	2FBF1
400 psi	200	Supco	SHP400200	2FRB2
400 psi	300	Supco	SHP400300	2FRB3
425 psi	300	Supco	SHP425300	2FRB4
450 psi	250	Supco	SHP450250	2FRB5
200 psi	150	—	—	6AL7A
300 psi	200	—	—	6ALC0
410 psi	—	—	—	6ALC4

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