

P70 Series

Single Pole Dual Pressure Control



P70LB-1 Universal Mounting Bracket Included

Description

This P70 Series of dual pressure controls employs a SPST switch, that is opened when either high pressure or low pressure beyond the control settings is sensed at the control's two bellows sensing elements. The load-carrying contacts provide direct control of AC motors within the control's rating. These controls provide close high—open low (low pressure) or open high—close low (high pressure) contact action.

Features

- · full adjustability through all pressure ranges
- minimum differential
- long life contact structure...no bounce on make
- manual reset models are "trip-free"

Accessories

• includes a universal mounting bracket.

Applications

- air conditioning and refrigeration applications
- · control of air, water, and oil pressure

To Order

Specify the code number from the following selection chart. Also refer to *P170 Series* Single Pole Dual Pressure Control.

Cross Reference

Ranco	JCI/PENN
012-1502	P70LB-6
012-1549	P70LB-1
012-1554	P70LB-6
012-1594	P70NA-1
012-4834	P70SA-1

Selection Chart

Code Number	Switch Action	Low Pressure psig (kPa)		High Pressure psig (kPa)		Pressure Connector	Limited Knob	Maximum Over-pressure
		Range	Diff	Range	Diff (Non-Adj)	Connector	Adj.	psig (kPa)
MICRO-SET [™] FOR R-12, R-22, R-134A, R-500, R-502 (R)								
P70LB-6C (a)	SPST	12 in. to 80 (-41 to 552)	Min 5 (34) Max 35 (241)	100 to 500 (690 to 3447)	65 psi at < 300 psig 75 psi at 300-400 psig 95 psi at > 400 psig	36 in. Cap. with 1/4 in. Flare Nut	None	325 Low 525 High (2241 Low) (3620 High)
P70MA-18C		(-41 to 332)			Lockout (Requires Manual Reset)	36 in. Cap. with 1/4 in. Flare Nut		
"ALL RANGE" FOR R-12, R-22, R-134A, R-500, R-502 (R)								
▲ P70LB-1C	SPST	20 in to 100		100 to 500	65 psi < 300 psig 75 psi 300-400 psig 95 psi > 400 psig	36 in. Cap. with 1/4 in. Flare Nut	Cut-out (b)	325 Low 525 High (2241 Low) (3620 High)
▲ P70MA-1C					Lockout (Requires Manual Reset)	36 in. Cap. with 1/4 in. Flare Nut		
▲ P70NA-1C			Lockout (Manual Reset)		Lockout (Requires Manual Reset)	36 in. Cap. with 1/4 in. Flare Nut	None	
P70SA-1C ^(e)	Two independent SPDT switches	12 in. to 80 (-41 to 552)	Min 5 (34) Max 35 (241)	100 to 500 (690 to 3445)	Switchable between Manual and Automatic Reset	36 in Cap. with 1/4 in. Flare Nut	None	525 Low 525 High
	FOR AMMONIA							
P70LA-2C	SPST	20 in. to 100 Min. 7 (48 (-68 to 690) Max 50 (3	. ,	100 to 500 (690 to 3445)	65 psi < 300 psig 75 psi 300-400 psig 95 psi > 400 psig	1/4 in. Female NPT Conn.	None	325 Low 525 High (2241 Low) (3620 High)
P70MA-2C			viax 50 (545) (690 I		Lockout (Requires Manual Reset)	1/4 in. Female NPT Conn.		

- (a) Replaces Ranco 012-1505, 012-1506, 012-1554
- (b) Adjusting knob supplied on differential (low side cutout setting) to limit adjustment 5 psi (34 kPa) above or below setting.
- (c) Replaces Ranco 012-1549
- (d) Replaces Ranco 012-1594.
- (e) Replaces Ranco 012-4834.



P70 Series Single Pole Dual Pressure Control (Continued)

SPDT Electrical Ratings (per switch) (P70S models)

•	Standard Single-Phase Ratings					
	120 VAC	208 VAC	240 VAC	277 VAC		
Motor Full-Load Amp	16.0	9.2	8.0	7.0		
Motor Locked-Rotor Amp	96.0	55.2	48.0	42.0		
Non-Inductive Amp	16.0	9.2	8.0	7.0		
Pilot Duty	125 VA at 24 VAC; 720 VA at 277 VAC					

SPST Electrical Ratings (P70L, P70M, and P70N models)

		Standard -Phase R	Hermetic Compressor Single-Phase Ratings	
	120 VAC	208 VAC	240 VAC	208/240 VAC
Motor Horsepower	1.5	3	3	_
Motor Full-Load Amp	20	18.7	17	20
Motor Locked-Rotor Amp	120	112.2	102	120
Non-Inductive Amp	22	22	22	_
Pilot Duty	125 VA at	120 to 600	VAC; 57.5 \	/A at 120 to 300 VDC