Pneumation Controls

Pneumatic Pressure Controllers

PP901; PP902 Pressure Reducing Valves



Application Type: Pressure Reducing

Connection Size: Inlet and out air: 1/4 in. NPT (female) Air gage: 1/8

in. NPT (female)

Mounting: Bracket furnished

Accessories:

305917-2 in. diameter, 1/4 NPT center stem back mount Pressure Indicating gauge (0 to 160 psi scale) with ±3% accuracy 804191E-2-1/2 in. diameter, panel-mounted Pneumatic Pressure Indicating Gauge (0 to 160 psi), 1/8 in. NPT connection, +/-3% accuracy

305965-1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with ±4% accuracy

Used to control the pressure of the air delivered to pneumatic control systems. Models available for single-pressure systems or two-pressure systems (Day/Night or Summer/Winter) requiring two independently regulated pressure settings. Dual-pressure units switch from the lower settings to the higher settings when main air is applied to the pilot port. Models also available including a sub-micron filter assembly and pressure gauges. Replacement devices are available for Johnson, Powers, Robertshaw, Barber-Colman and older Honeywell pressure reducing valves.

- Built-in adjustable safety relief valve for limiting downstream pressure.
- For two-pressure models: Pressure changes accomplished with manual switch or automatically with electric pneumatic switch.
- · Adjustable stops for desired settings.

Replacement Parts:

316203A-Pressure Regulator Valve Assembly for PP901A; PP902A, C

316134B-PP901A & B Diaphragm Repair Kit

14004203-001-Filter cartridge kit for PP902C and PP902D. **14004205-002-**Filter Station Assembly for PP901, PP902A or B

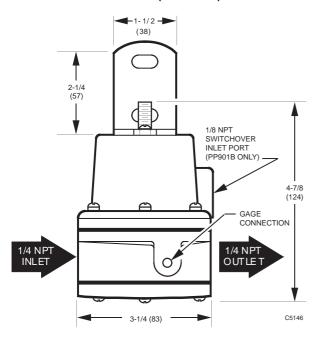
14003121-002-Filter for PP902A or B

	Inlet Pres Range	sure	Output Pressure Range				
Product Number	(psi)	(kPa)	(psi)	(kPa)	Description	Includes	
PP901A1004/U	45 to 150 psi	310 to 1034 kPa	primary pressure: adj.0 to 25 psi.	primary pressure: adj.0 to 172 kPa.	High Pressure Diaphragm Operated Reducing Valve with Built-in Adjustable Relief Valve for Single Pressure Systems. Includes Mounting Bracket and Gage Taps But No Gages.	Gage tapping to measure the regulated pressure.	
PP901B1002/U	45 to 150 psi	310 to 1034 kPa	primary pressure: adj.0 to 25 psi; secondary pressure: adj. 0 to 5 psi above primary rating	primary pressure: adj.0 to 172 kPa; secondary pressure: adj. 0 to 34kPa above primary setting.	High Pressure Diaphragm Operated Reducing Valve with Built-in Adjustable Relief Valve for Dual Pressure Systems. Includes Mounting Bracket and Gage Taps But No Gages.	Gage tapping to measure the regulated pressure.	
PP902C1009/U	45 to 150 psi	310 to 1034 kPa	primary pressure: adj.0 to 25 psi	primary pressure: adj.0 to 172 kPa.	Pressure Reducing Valve for Single Pressure Systems, consists of a PP901A Valve, a sub- micron filter station, 2 psig gages, Interconnecting Pipe Fittings, and a Mounting Bracket	Submicron filter assembly and two psig gages.	
PP902D1007/U	45 to 150 psi	310 to 1034 kPa	primary pressure: adj.0 to 25 psi; secondary pressure: adj. 0 to 5 psi above primary rating		Pressure Reducing Valve for Dual Pressure Systems, consists of a PP901B Valve, a sub- micron filter station, 2 psig gages, Interconnecting Pipe Fittings, and a Mounting Bracket	Submicron filter assembly and two psig gages.	

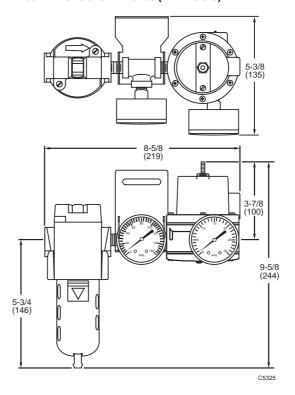
70-6910 **Honeywell** 667

Pneumatic Pressure Controllers

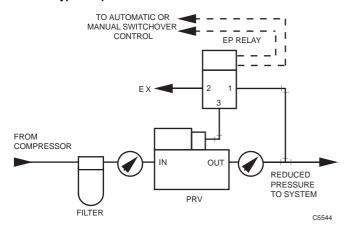
PP901 Dimensions in inches (millimeters)



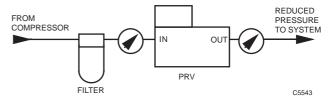
PP902 Dimensions in inches (millimeters)



PP902D Typical Operation



PP902C Typical Operation



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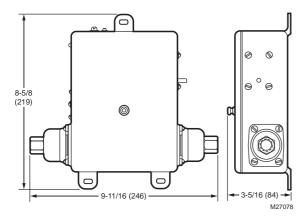
PP903 Pneumatic Differential Pressuretrol



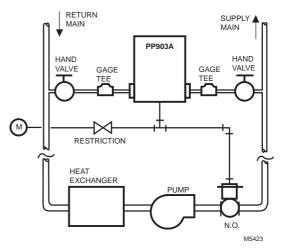
One-pipe, pressure operated device used to provide proportional control of pneumatic valve or damper actuators by varying the pressure to the actuators in relation to the pressure difference between two separate water pressures. Replacement devices are available for Johnson, Powers, Robertshaw, and older Honeywell pneumatic pressure controllers.

- · Easily accessible adjustments.
- Direct Acting (DA) or Reverse Acting (RA) setting.
- Mounting lugs for quick mounting.

Dimensions Diagram



PP903A Typical Piping



Application Type: Differential Pressure **Action:** Reverse Acting, Direct Acting

Connection Size: Input: 1/4 in. NPT; Branch Line: 1/8 in. NPT

Pressure Range: 0 to 300 psi (0 to 2068 kPa)

Approximate Throttling Range, Midscale (max.): 25 psi (172 kPa)

Mounting: Lugs for 3-point surface mounting

	Actuator Force		Maximum Operating Pressure		Differential Pressure Range	
Product Number	(psi)	(kPa)	(psi)	(kPa)	(psi)	(kPa)
PP903A1036/U	7.5 psi	52 kPa	18 psi	124 kPa	5 to 65 psi	34 to 448 kPa

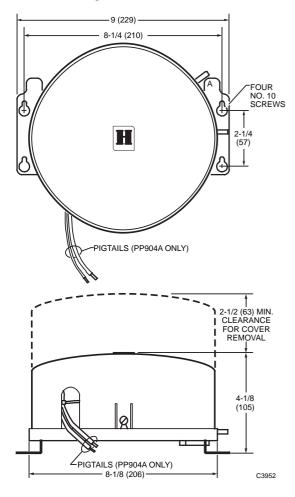
70-6910 **Honeywell** 669

Pneumatic Pressure Controllers

PP904 Static Pressure Regulators



Dimensions Diagram



Application Type: Static or Differential Pressure

Action: Reverse Acting, Direct Acting

Airflow Usage: 0.022 scfm (10.0 mL/s) at 18 psi (124 kPa)

Connections: Main: Sharp-barbed fittings for 1/4 in. diameter tubing;

Branch: Sharp-barbed fittings for 5/32 in. diameter tubing

Mainline Air Pressure (min.): 16 psi (112 kPa)
Mainline Air Pressure (max.): 25 psi (175 kPa)
Throttling Range (in. wc): 0.03 to 0.5 in wc (adjustable)
Maximum Safe Static Pressure: 28 in. wc (7 kPa)

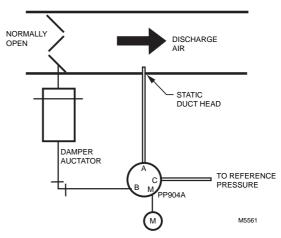
Mounting: Duct mount

Temperature Range: 40 F to 120 F (5 C to 50 C)

One- or two-pipe, direct- or reverse-acting, low- or high-capacity controller used with pneumatic actuators to regulate static or differential pressure in central fan installations. Replacement devices are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell devices.

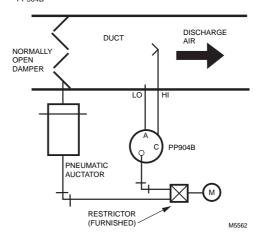
- Adjustable setpoint and throttling range (Zero and span).
- Direct Acting (DA) and Reverse Acting (RA).
- Sharp-barb, push-on connectors for plastic tubing.
- Field calibration poss ble.

PP904A Typical Piping



PP904B Typical Piping

PP904B



Accessories:

14004238-001-Static Pressure Duct Head for 1/4 in., 6 mm diameter

Plastic Tubing

301298B-Outdoor Static Pressure Head

	Number of	Maximum Operating Pressure		Setpoint Range		Throttling Range	
Product Number	Pipes	(psi)	(kPa)	(in. wc)	(kPa)	(in. wc)	Comments
PP904A1035/U	2	25 psi	170 kPa		0 to +/-2 kPa (adjustable)	0.03 to 0.5 in wc (adjustable)	High capacity branchline pressure
PP904B1009/U	1	25 psi	170 kPa	0 to +/-8 in. wc (adjustable)	0 to +/-2 kPa (adjustable)	0.06 to 0.5 in. wc (adjustable)	Low capacity branchline pressure