



PR300 Installation and Maintenance

MASTER PNEUMATIC-DETROIT, INC.

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JAA 09-21-07

MJF REV: 04-17-13

ECN 4869

SAMPLE PRODUCT NUMBERS:

PR300-24
PR300-24W
PR300-24V
PR300-24VW

THANK YOU!

You have just purchased a quality Externally Piloted Regulator from Master Pneumatic.

With care in its installation and maintenance, you can expect it to have a long and economical service life. Before you go any further, please take a few minutes to look over this information, then save it for future reference and for the useful service information it contains.

Installation & Operation Procedures

INSTALLATION:

1. Depressurize and lockout air pressure.
2. Upstream pipes must be free of dirt and liquids.
3. Filters should be installed immediately ahead of Regulators to insure a clean supply of air.
4. Install the PR300 Regulator as near as possible to the device it is to serve.
5. Install the PR300 Regulator so that air flows from inlet to outlet as shown on the head.
6. The PR300 Regulator can be installed in any orientation.
7. The PR300 Regulator comes with remote ports plugged on front and back of head. These ports **MUST** be plugged, do not remove. See Figure 1.
8. The PR300 Regulator requires a Control Regulator to operate. Available Control Regulators are: R55M, R56M, R57M, R100, R380, IR100, IR380, or ER Servo Valve.
9. The Control Regulator can be installed at a distance from the PR300 Regulator for easier adjustment. The PR300 Regulator has two pilot ports on front and back of inlet side of head. Connect inlet of Control Regulator to one of the pilot ports, and install pipe plug into the other. Connect outlet port of Control Regulator to port on bottom of PR300 Dome. See Figure 1.
10. The PR300 Regulator has two gauge ports on front and back of outlet side of head. It is necessary to install a pressure gauge or pipe plugs into each port before operating.
11. Regulators should be installed upstream of any Lubricators in the airline.

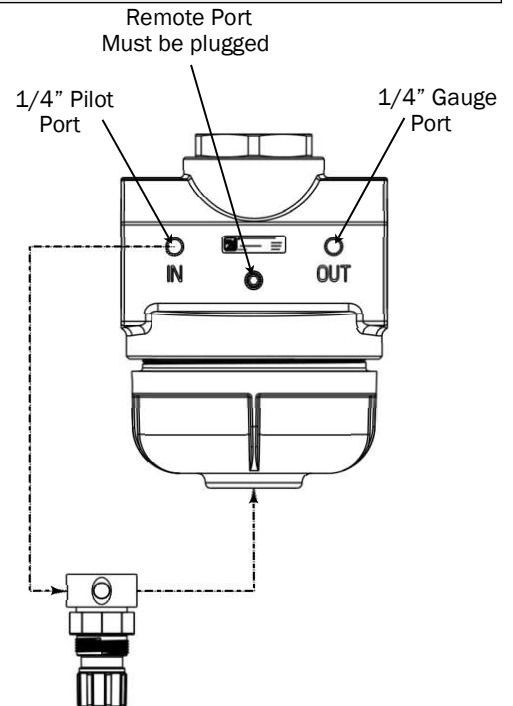


FIGURE 1.

PR300 Shown with R56M Control Regulator

OPERATION:

1. Outlet pressure of PR300 Regulator is dependent on the Control Regulator. To increase the PR300 pressure, increase Control Regulator by turning clockwise, or to decrease PR300 pressure decrease Control Regulator by turning counterclockwise. For more details see specific Installation and Maintenance Sheet for chosen Control Regulator.
2. The Control Regulator pressure setting may need to be a few psi higher than desired pressure for outlet of PR300 Regulator.

TO CLEAN OR REPAIR:

1. Depressurize and lockout air pressure.
2. Remove Dome by turning counter-clockwise.
3. Piston can now be removed.
4. Remove Cap by turning counter-clockwise.
5. Valve Spring and Valve can now be removed.
6. When re-assembling, be sure that all seals are correctly located. Torque Cap and Dome to 80-100 ft-lbs.
7. If the PR300 cannot be repaired by cleaning with soap and water, the parts should be replaced.



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REPLACEMENT PARTS

PART NUMBER	DESCRIPTION
KAPR300	O-Ring Kit (Includes all 7)
KAPR300V	O-Ring Kit - Viton (Includes all 7)
A37-264	Valve Assembly Kit (Valve Spring, O-rings and Poppet Valve)
A37-264V	Valve Assembly Kit - Viton (Valve Spring, O-rings and Poppet Valve)
A37-267	Piston Assembly Kit (Retaining Ring, O-rings and Piston)
A37-267V	Piston Assembly Kit - Viton (Retaining Ring, O-rings and Piston)
A37-267Q	Piston Assembly Kit - Constant Bleed (Retaining Ring, O-rings and Piston)

PARTS LISTING

KEY	DESCRIPTION
1	Cap
2	Valve Spring
3	O-Ring
4	O-Ring
5	Poppet Valve
6	Head
7	Valve Stem
8	O-Ring
9	O-Ring
10	Retaining Ring
11	O-Ring
12	O-Ring
13	Piston
14	O-Ring
15	Dome

