Special Instructions for a Feedback Pilot:

1. Shut off air pressure. Install regulators in air line -
   - upstream of lubricators and cycling valves.
   - at any angle.

   - install the 11-042 pilot operated regulator as close as possible to the device being serviced.
   - install the pilot regulator at any convenient, accessible location.

2. Use pipe thread sealant on male threads only when making the following pipe connections. Do not allow sealant to enter interior of regulator.

   - Connect inlet and outlet air lines to 11-042 main ports.
   - Connect inlet and outlet air lines to a gauge port on the 11-042.

3. Special Instructions for a Feedback Pilot:

   - Connect one end of the feedback line to the feedback port on the pilot regulator.
   - The feedback line on the R41 is marked FDBK. The 11-104 has two 1/8” PTF feedback ports.
   - Plug the unused feedback port.

   - Connect the other end of the feedback line to a gauge port on the 11-042.

   - Use 1/4” or 3/8” OD copper tube for the feedback line. Plug unused gauge ports.

   - Install the gauge next to the pilot regulator. Plug unused gauge ports.

   - Do not plug exhaust port. Relief feature will fail if exhaust port is plugged.

ADJUSTMENT

1. Before applying inlet pressure to regulators, turn pilot regulator adjustment counterclockwise to remove all force on regulating spring.

   - Apply inlet pressure, then turn pilot regulator adjustment clockwise to increase and counterclockwise to decrease pressure setting.

   - Always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired pressure.

DISASSEMBLY

1. Regulator can be disassembled without removal from air line.

   - Shut off inlet pressure to pilot regulator and to the 11-042. Reduce pressure in and outlet lines to zero.

   - Turn pilot regulator adjustment counterclockwise to remove all force on regulating spring.

   - Disassemble the 11-042 in general accordance with the item numbers on exploded view.

CLEANING

1. Clean parts with warm water and soap

   - Rinse and dry parts. Blow out internal passages in body with clean, dry compressed air.

   - Inspect parts. Replace those found to be damaged.

ASSEMBLY

1. Lubricate o-rings and surfaces in contact with o-rings with a light coat of good quality o-ring grease.

   - Assemble the unit as shown on the exploded view. Apply increasing torque to the bonnet screws (1) in a crisscross pattern. Apply final torque of 5.6 to 7.9 Nm (50 to 70 inch-pounds). Tighten bottom plug (9) hand tight.

WARNING

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under Technical Data.

If outlet pressure in excess of the regulator pressure setting could cause downstream equipment to rupture or malfunction, install a pressure relief device downstream of the regulator. The relief pressure and flow capacity of the relief device must satisfy system requirements.

The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use.

Before using these products with fluids other than air, for non industrial applications, or for life-support systems consult Norgren.

Pilot Operated Regulator

Technical Data

Fluid: Compressed air

Inlet pressure range: 0.7 bar to 27.6 bar (10 to 400 psig). For best performance, inlet pressure should be at least 0.7 bar (10 psig) greater than the desired regulated pressure, but must not exceed the specified maximum.

Operating temperature: -20°C to +80°C (0° to +175°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Typical flow with a conventional pilot regulator at 6.9 bar (100 psig) inlet pressure, 0.3 bar (90 psig) outlet pressure, and a droop of 0.35 bar (5 psig) from desired regulated pressure, but must not exceed the specified maximum.

Pressure and must be connected before turning on air pressure. If the feedback line is not connected, 11-042 feedback pilot regulator to control outlet pressures greater than 100 psig (7 bar).

Use the Norgren 11-104-001, the 11-042, or the 11-042 feedback regulator types (the R41 and the 11-042). Use the Norgren muffler for non industrial applications, or for life-support systems consult Norgren.

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ADJUSTMENT

1. Before applying inlet pressure to regulators, turn pilot regulator adjustment counterclockwise to remove all force on regulating spring.

   - Apply inlet pressure, then turn pilot regulator adjustment clockwise to increase and counterclockwise to decrease pressure setting.

   - Always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired pressure.

DISASSEMBLY

1. Regulator can be disassembled without removal from air line.

   - Shut off inlet pressure to pilot regulator and to the 11-042. Reduce pressure in and outlet lines to zero.

   - Turn pilot regulator adjustment counterclockwise to remove all force on regulating spring.

   - Disassemble the 11-042 in general accordance with the item numbers on exploded view.

CLEANING

1. Clean parts with warm water and soap

   - Rinse and dry parts. Blow out internal passages in body with clean, dry compressed air.

   - Inspect parts. Replace those found to be damaged.

ASSEMBLY

1. Lubricate o-rings and surfaces in contact with o-rings with a light coat of good quality o-ring grease.

   - Assemble the unit as shown on the exploded view. Apply increasing torque to the bonnet screws (1) in a crisscross pattern. Apply final torque of 5.6 to 7.9 Nm (50 to 70 inch-pounds). Tighten bottom plug (9) hand tight.

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