**GI-5**

**GI-3**

**GI-1**

**GENERAL INSTALLATION**

Water vapour will pass through these units and could condense into a liquid form downstream as air temperature drops. Install an air dryer if water condensation could have a detrimental effect on the application.

Installation, commissioning, servicing, and maintenance must only be carried out by qualified specialist personnel with expertise and experience on pneumatics technology and in cases of electrical devices and/or electrical technology.

**WARNINGS**

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

2. Polypropylene plastic bowls can be damaged and/or小女孩 exposed to such substances as certain strong alkalies, compressor oils containing ester-based additives or synthetic oils. Fumes of these substances in contact with the polypropylene bowl, externally or internally, can result in damage.

3. Use metal inlet applications where a plastic bowl might be exposed to substances that are incompatible with polycarbonate.

4. An outlet pressure more than the pressure setting could cause downstream equipment to rupture or malfunction. Install a downstream self-dismantling of the filter-regulator regulator. Do not modify or interfere with the adjusting mechanism.

5. The inlet pressure level for these units can be reduced to the minimum pressure ratings that are identified on the product label.

6. The accuracy of the indication of pressure gauges can change both during shipment (despite care in packaging) and during service life. Changes in these gauges are a potential gauge to be used with these products if inaccurate indications may be hazardous to personnel or property.

7. Two replacement product models are for Integrated Electronic Pressure Switches.

**FILTERS**

All-In-One filters are supplied with either the air or non-air industrial applications or for life-support systems. Consult Norgren.

**GI-7**

**GI-7.1** Automatic drain:

- **GI-7.2** Gauge port:

- **GI-7.3** Bowl:

Upstream of lubricators and cycling valves, downstream of filters, and oriented vertically. The accuracy of the indication of pressure gauges can change both during shipment (despite care in packaging) and during service life. Changes in these gauges are a potential gauge to be used with these products if inaccurate indications may be hazardous to personnel or property. Units should be installed with air flow in the bottom port is recommended.

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**GI-4**.1 Upstream of lubricators and cycling valves, and downstream of filters

Install filters:

- **GI-4.2** Upstream of regulators, lubricators, and cycling valves and oriented vertically

Install regulators:

- **GI-4.3** Upstream of lubricators and cycling valves, and downstream of filters

Install lubricators:

- **GI-4.4** Upstream of lubricators and cycling valves and oriented vertically

Install catheters:

- **GI-4.5** Upstream of lubricators and cycling valves and oriented vertically

**GI-6**

- **GI-6.1** Visually inspect the unit for damaged or worn parts.

- **GI-6.2** If the unit is in postion when lock clip snaps into body. Bowl toward the body directional arrow.

- **GI-6.3** Ensure the clip and cover arrows are aligned before pressurizing.

**GI-7**

**GI-7.1** Automatic drain:

- **GI-7.2** Gauge port:

- **GI-7.3** Bowl:

- **GI-10** Shut-off valve

- **GI-11** Tamperproofing

- **GI-12** SERVICING

**GI-8**

**GI-8.1**系列 Automatic Drain Manual drain

- **GI-8.2** Series Automatic Drain Override

**GI-9**

**GI-9.1** Shut-off valve

- **GI-9.2** Tamperproofing

- **GI-9.3** SERVICING

**GI-10**

**GI-10.1** Reduce the pressure by at least 5 psi before opening the valve. Open the valve slowly and continue to reduce the pressure until it is at the desired pressure. Reinstall the bowl per GI-7.3

**GI-11**

**GI-11.1** Tamperproofing

- **GI-11.2** The accuracy of the indication of pressure gauges can change both during shipment (despite care in packaging) and during service life. Changes in these gauges are a potential gauge to be used with these products if inaccurate indications may be hazardous to personnel or property.

**GI-12**

**GI-12.1** SERVICING

- **GI-12.2** Note: Service Kits contain soft seals only, for replacement elements see separate table.

**GI-13**

**GI-13.1** Replacement accessories for GI-7.3, GI-7.2, GI-7.3Bowls:

- **GI-13.1.1** Pin, hasp lock-out device

**GI-14**

**GI-14.1** Shut-off valve

- **GI-14.2** Tamperproofing

- **GI-14.3** SERVICING

**GI-15**

**GI-15.1** Panel replacement bowl required for part numbers preceded by a “P” or “P” please contact the factory.
Moving Gauge Right to Left Flow–Filter/regulator and Regulator

R-7.1 Pull off the knob.
R-7.2 Use the spanner from the FRLB kit to remove the bonnet.
R-7.3 Remove the diaphragm, adjusting screw, and spring.
R-7.4 Pull apart the diaphragm seal and spring next.
R-7.5 Push the new seal completely onto the springrest, the springrest will fit into the ribs.
R-7.6 Reference bonnet torque: 80-110 IN-LB (10.2-12.4 Nm) for 82 Series

R-7.3 Remove the diaphragm, adjusting screw, and spring

R-7.2 Use the spanner from the FRLB kit to remove the bonnet.

Changing Gauge-Filter/regulator and Regulator

R-6.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-6.2 Remove the gauge screws and gauge.
R-6.3 Install the corresponding replacement gauge.
R-6.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-6.5 Install cover ensuring tabs snap into place.

R-6.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-6.2 Remove the gauge screws and gauge.
R-6.3 Install the gauge on the side of unit that the plug was installed.
R-6.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-6.5 Install cover ensuring tabs snap into place.

R-7.2 Use the spanner from the FRLB kit to remove the bonnet.

Serving Bowl Replacement
L-1 • Remove and install bowl per GI-7.3.

Lubricator

Lubricator–Oil level

R-8.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

R-8.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

R-7.5 Push the new seal completely onto the springrest, the springrest will fit into the ribs.

Recommended Quickclamp Locations

R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

R-8.5 Install cover ensuring tabs snap into place.

R-6.5 Install cover ensuring tabs snap into place.

Mounting bracket options

R-8.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

R-9.5 Torque the gauge screws to:

Lubricator–Oil level

R-9.3 Remove the gauge screws and gauge.
R-9.4 Install the gauge on the side of unit that the plug was installed.
R-9.5 Torque the gauge screws to:

R-9.3 Remove the gauge screws and gauge.
R-9.4 Install the gauge on the side of unit that the plug was installed.
R-9.5 Torque the gauge screws to:

Single Unit Bracket

Mounting bracket options

R-8.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

Recommended Panel Hole Size

R-9.4 Install the gauge on the side of unit that the plug was installed.
R-9.5 Torque the gauge screws to:

Recommended Panel Hole Size

Panel Thickness: up to 0.16” (4 mm)

R-8.5 Install cover ensuring tabs snap into place.

R-8.5 Install cover ensuring tabs snap into place.

R-9.4 Install the gauge on the side of unit that the plug was installed.
R-9.5 Torque the gauge screws to:

R-8.5 Install cover ensuring tabs snap into place.

R-8.1 Use a flat-blade screwdriver to push out both cover tabs and remove the cover.
R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

Mounting bracket options

R-8.2 Remove the gauge screws and gauge.
R-8.3 Install the gauge on the side of unit that the plug was installed.
R-8.4 Torque the gauge screws to: 3.0-6.0 IN-LB (0.34-0.68 Nm) for 82 Series
R-8.5 Install cover ensuring tabs snap into place.

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Recommended Panel Hole Size

82 Series

at 42° to 1.447” (36.25 to 36.75 mm)
Panel Thickness: up to 0.16” (4 mm)

Recommended Panel Hole Size

84 Series

at 42° to 2.246” (57 to 57 mm)
Panel Thickness: 0.20” to 0.25” (5 to 6 mm)

* Dimensions do not apply to smooth start dump valves.