

Relief Valve
V07 - ★★ - ★★
Installation & Maintenance
Instructions

Port 1....1/8" 2....1/4"	Option 0....Not applicable	Option 0....Not applicable	Factory Preset N....Not factory preset P....Factory preset, Non adjustable relief pressure	Gauge G....With N....Without	Spring (Relief Pressure Range) * A....0,1 to 0,7 bar (1 to 10 psig) E....0,3 to 3,5 bar (5 to 50 psig) K....0,3 to 7 bar (5 to 100 psig)	Thread Form A....PTF B....ISO Rc taper G....ISO G parallel
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* Relief pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

TECHNICAL DATA

Fluid: Compressed air
 Maximum pressure: 20 bar (300 psig)
 Operating temperature*: -34° to +65°C (-30° to +150°F)
 * Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Gauge ports:

- 1/8 PTF with PTF main ports
- Rc1/8 with ISO Rc main ports
- Rc1/8 with ISO G main ports

Materials:

- Body: Zinc
- Bonnet : Acetal
- Valve seat: Acetal
- Elastomers: Nitrile

REPLACEMENT ITEMS

Service Kits (includes items circled on exploded view):3407-80
 Valve seat and valve seat seal (10, 11, 12, 13).....3439-11
 Tamper resistant knob18-001-094

PANEL MOUNTING DIMENSIONS

Panel mounting hole diameter: 30 mm (1.19")
 Panel thickness: 2 to 6 mm (0.06" to 0.25")

INSTALLATION

1. Shut off air pressure. Install relief valve in air line -
 - with air flow in direction of arrow on body,
 - as close as possible to the device being serviced.
 - at any angle.
2. Connect piping to proper ports using pipe thread sealant on male threads only. Do not allow sealant to enter interior of relief valve.
3. Install a pressure gauge or plug the gauge ports.

WARNING

Do not cap or in any way restrict the outlet port of the relief valve. Outlet port must be open to atmosphere.

ADJUSTMENT

1. Turn adjustment (2, 5A) clockwise to increase and counterclockwise to decrease pressure setting.
2. 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.
4. Push adjusting knob down to lock pressure setting; pull up to release. Install tamper resistant knob (see **Replacement Items**) to make setting tamper resistant.

DISASSEMBLY

1. Relief valve can be disassembled without removal from air line.
2. Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
3. Turn adjustment (2 or 5A) fully counterclockwise to remove all force on regulating spring (6).
4. Disassemble in general accordance with the item numbers on exploded view.

CLEANING

1. Clean parts with warm water and soap.
2. Rinse and dry parts. Blow out internal passages in body with clean, dry compressed air.
3. Inspect parts. Replace those found to be damaged.

ASSEMBLY

1. Lubricate seals and o-rings with o-ring grease.
2. Assemble the unit as shown on the exploded view.
3. Torque Table

ITEM	TORQUE
	NM (INCH-POUNDS)
2, 5A (Bonnet)	7,34 to 8,47 (65 to 75)
9, 11 (Valve seat)	0,45 to 0,68 (4 to 6)

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**.

To provide overpressure protection for pneumatic equipment, the flow capacity of the relief valve selected for a specific application must be greater than the maximum possible flow rate of the system connected to the inlet of the relief valve.

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.

