

TANK RELIEF VALVE MODEL NUMBERS

	Model Numbers - Relief Pressure Adjustment Ranges *			
Port Size	25 to 50 psig (1,7 to 3,5 bar)	25 to 75 psig (1,7 to 5,2 bar)	70 to 150 psig (4,8 to 10,4 bar)	125 to 300 psig (8,6 to 20,7 bar)
1/8 PTF	16-004-001	16-004-002	16-004-003	16-004-004
1/4 PTF	16-004-009	16-004-010	16-004-011	16-004-012

ALTERNATIVE MODELS

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Factory set, non adjustable pressure	Add **
Locktite adjusting cap	Z

Factory Set Relief Pressure Setting	Add **
Insert desired relief pressure setting in psig	025 through 300

* Relief valves 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.

** Example: 16-004-001-Z025
Locking method: Locktite cap
Relief pressure setting: 25 psig

TECHNICAL DATA

Fluid: Compressed air and water
Maximum pressure: 300 psig (20 bar)
Operating temperature*: -30° to +200°F (-34° to +93°C)
* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).
Repeatability: ± 20% of relief pressure setting
Materials:
Body, cap, springrest: Brass
Valve: Brass and nitrile
Regulating spring: Stainless steel

REPLACEMENT ITEMS

The 16-004 tank relief valve is not repairable and should be replaced if it malfunctions.

INSTALLATION

1. Shut off pressure to tank and reduce pressure in tank to zero.
2. Install relief valve in tank using pipe thread sealant on male threads only. Do not allow sealant to enter interior of tank or relief valve.

WARNING

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

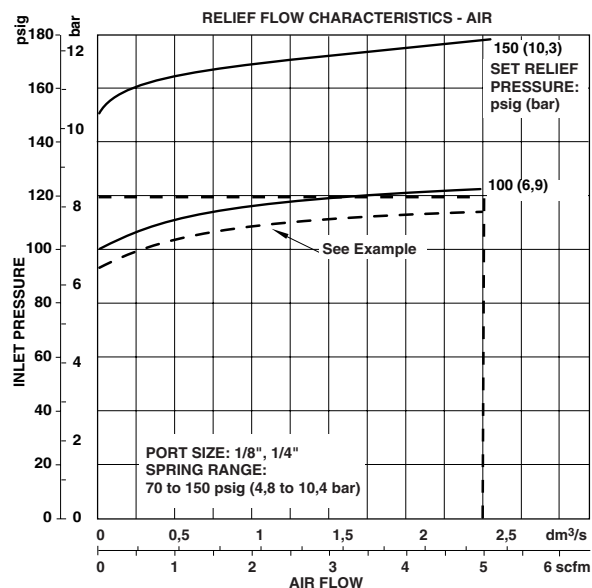
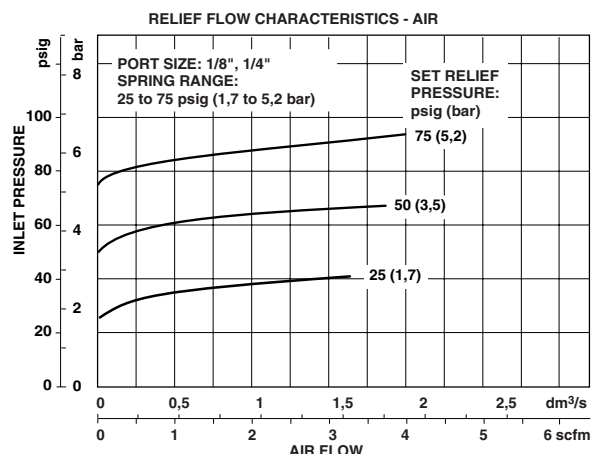
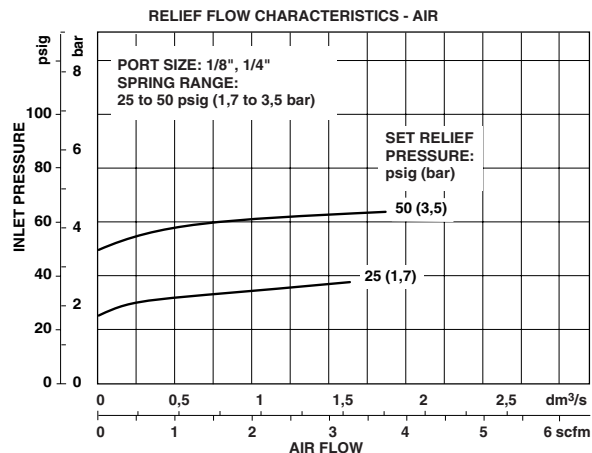
To provide overpressure protection for pneumatic equipment, the flow capacity of the relief valve selected for a specific application must be greater than the maximum possible flow rate of the system connected to the inlet of the relief valve.

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.

HOW TO SELECT A RELIEF VALVE

The function of the 16-004 relief valve is to retard excess pressure buildup in a low volume air tank. Typically, a pressure regulator reduces supply pressure from the air compressor to a suitable working pressure. Compressed air, reduced to the working pressure, is stored in the low volume air tank. The 16-004 relief valve is installed in the tank to vent air from the tank should pressure become excessive. Flow capacity of the relief valve selected must equal or exceed the flow and pressure rating of the air compressor supplying the air tank.

TYPICAL PERFORMANCE CHARACTERISTICS


EXAMPLE: If your compressor delivers 5 scfm at 120 psig and your tank requires a working pressure of 90 psig, the relief valve must have a set pressure slightly higher than the 90 psig working pressure and be capable of flowing 5 scfm at 120 psig (or pressures less than 120 psig).