



"DESIGNER" SERIES INTERMEDIATE REGULATOR

**1/4" & 3/8"
FOR COMPRESSED AIR SERVICE**

SPECIFICATIONS

PIPE SIZE: 1/4", 3/8"

RELIEVING OR NON-RELIEVING

PRIMARY PRESSURE: 300 PSIG MAXIMUM

SECONDARY PRESSURE: 2 – 125 PSIG STANDARD
1 – 50 PSIG (OPTIONAL)
5 – 250 PSIG (OPTIONAL)

OPERATING TEMPERATURE: 0° TO 175°F.

GAUGE PORTS: 1/4" NPT FULL FLOW

FEATURES

- Excellent flow, regulation and response time.
- Simple panel and wall mount capability.
- Attractive, modern styling.
- Internal coated for corrosion resistance.

WHERE TO USE

This pressure regulator is designed for general application in compressed air service, where reliable, accurate pressure regulation and large flow capacity is required. Gauge port is full-flow and can be used as an outlet port.

ORDER TABLE

Standard models normally available from distributor stock.

FOR RELIEVING REGULATORS

GAUGE	PIPE SIZE	STD. MODELS
		2 – 125 psig
With	1/4"	R01-200-RGL
	3/8"	R01-300-RGL
Without	1/4"	R01-200-RNL
	3/8"	R01-300-RNL

For 1-50 psi adjustable range substitute "E" in 9th position.

For 5-250 psi adjustable range substitute "S" in 9th position.

For Non-Relieving models substitute "N" for "R" in 7th position.

GAUGES		
Black metal case with plastic crystal.	0-160	18-013-209
Center-back 1/4" connection. Dual scale	0-300	18-013-210

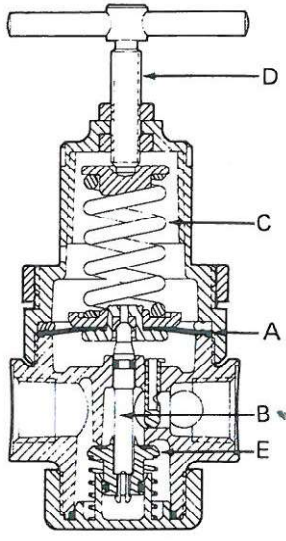
ACCESSORIES

Mounting bracket 5203-01



OPERATION

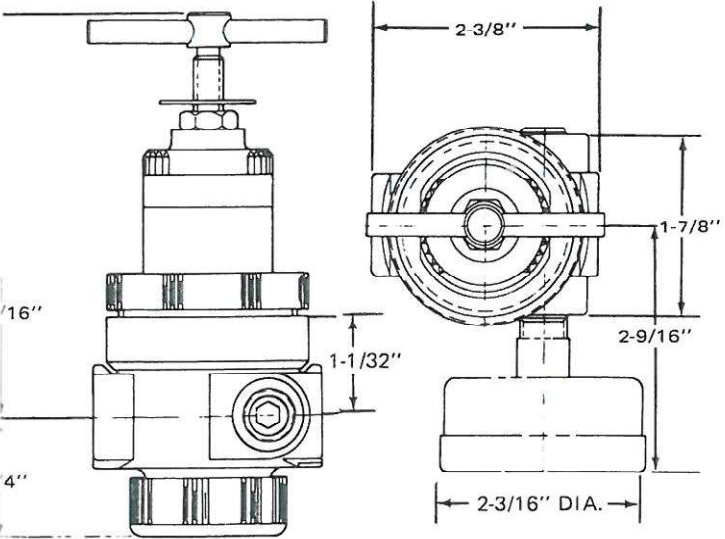
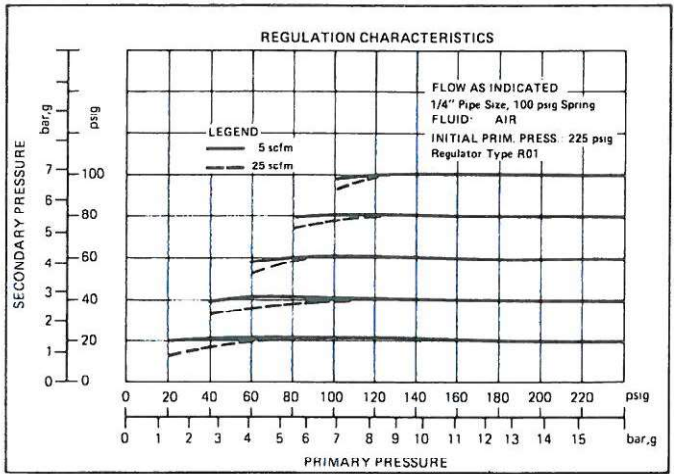
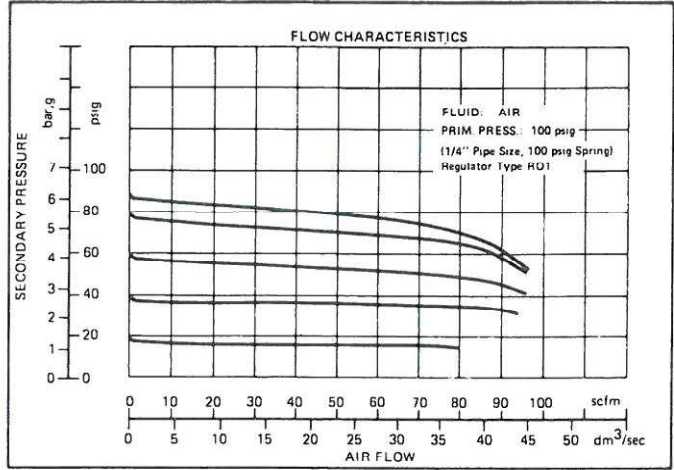
The working elements of a pressure regulator are a flexible diaphragm (A) which controls a valve through an interconnecting valve pin (B) and an adjusting spring (C) which is loaded by means of an adjusting screw (D).



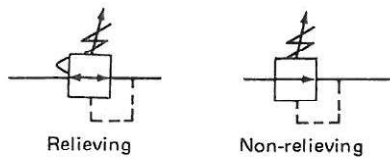
The pressure side of the diaphragm is connected to the outlet port of the regulator so that regulated pressure will be exerted against the diaphragm.

When the adjusting screw is retracted so that no load is applied to the adjusting spring, the regulator valve (E) is closed. As the adjusting screw is turned in, it applies a load to the adjusting spring which is transmitted to the diaphragm and the valve pin, thus opening the valve. As the regulated pressure increases, the pressure against the diaphragm increases, causing the diaphragm to compress the adjusting spring until the load exerted by the regulated pressure equals the spring load. If there is no flow demand, this state of equilibrium will occur with the valve closed. If there is a flow demand, this state of equilibrium will occur with the valve open just the amount necessary to compensate for the demand, thus maintaining the desired regulated pressure.

PERFORMANCE CHARACTERISTICS



GRAPHIC SYMBOL



CAUTION

THIS REGULATOR SHOULD NOT BE USED IN APPLICATIONS WHICH MAY EXCEED MAXIMUM RECOMMENDED OPERATING CONDITIONS. DURING MAINTENANCE PERIODS INSPECT AND CLEAN EACH PART CAREFULLY USING ONLY CLEAR, WARM WATER OR KEROSENE.

FOR FURTHER INFORMATION REFER TO NIP-222

C. A. NORGREN CO.
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ARTS

REPAIR KIT	
Non-relieving	5298-01
Relieving	5298-02