

TYPE R02

STANDARD REGULATOR

1/4" — 3/4"

FOR COMPRESSED AIR SERVICE



SPECIFICATIONS

PIPE SIZES: 1/4", 3/8", 1/2", 3/4"

RELIEVING OR NON-RELIEVING

GAUGE PORTS: TWO (2), FULL FLOW, 1/4"

PRIMARY PRESSURE: UP TO 400 PSIG

*SECONDARY (REGULATED) PRESSURE RANGES:

3 — 150 PSIG (STANDARD)

1 — 50 PSIG (OPTIONAL)

5 — 250 PSIG (OPTIONAL)

TEMPERATURE RANGE: 32°F. TO 175°F. AMBIENT

MOUNTING HOLES: STANDARD 9/32"

*Can be adjusted to 0 psig.

FEATURES

- Non-rising, low torque pressure adjustment throughout the entire range of pressure.
- Regulator adjustment easily locked in place with a finger-operated friction lock.
- Large valve area provides for effective control.
- Built-in mounting provision.
- Full flow 1/4" gauge ports may be used as outlets.
- Rapid response to circuit-induced overshoot.
- No appreciable pressure decay over a wide range of air flows.
- Can be disassembled and serviced without tools and without removal from air line.

GRAPHIC SYMBOL



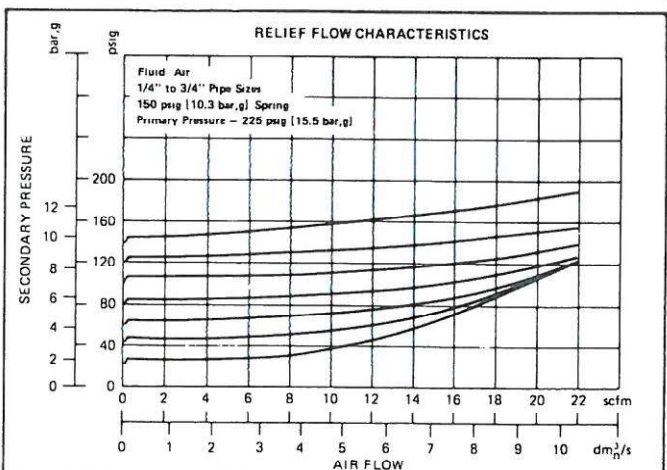
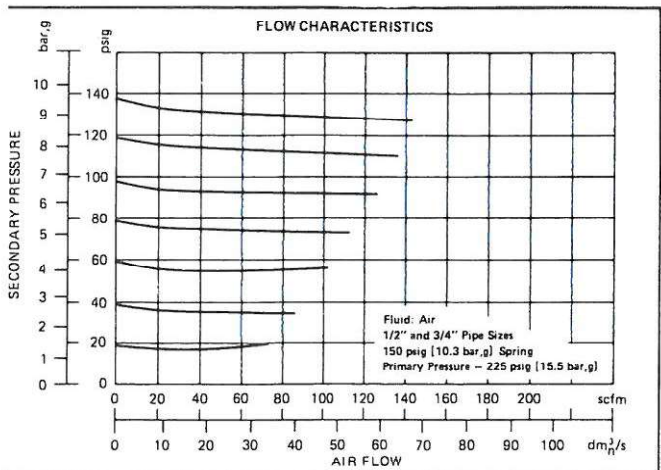
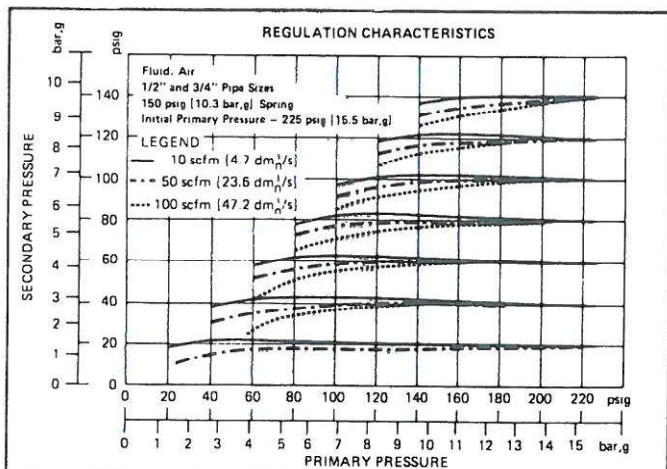
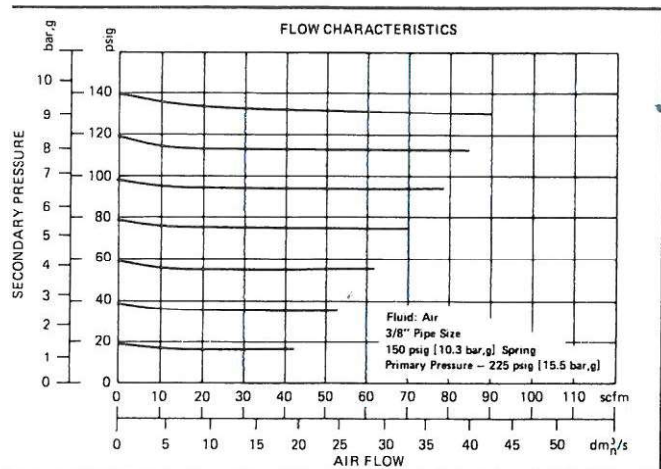
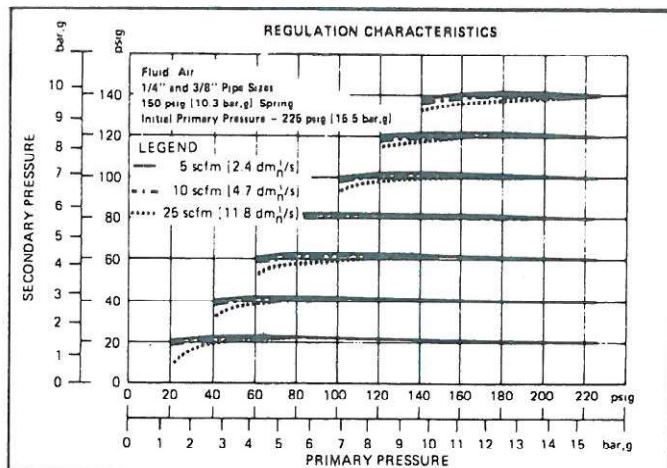
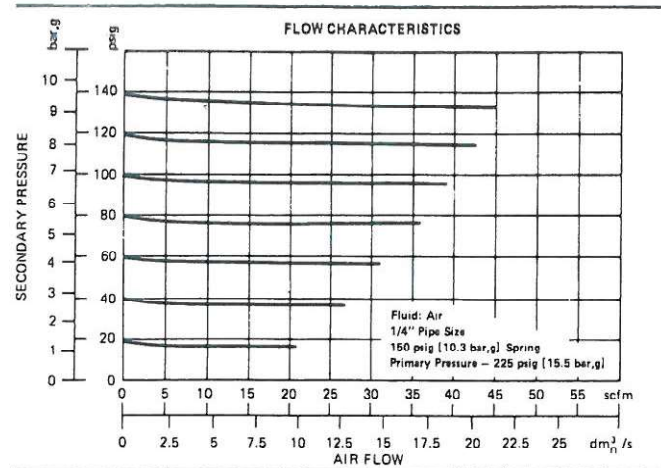
APPLICATION

The R02 pressure regulator is designed for general application on air and non-corrosive gas systems where reliable, accurate pressure regulation and large flow capacity are required.

NORGREN
LITTLETON, COLORADO ®

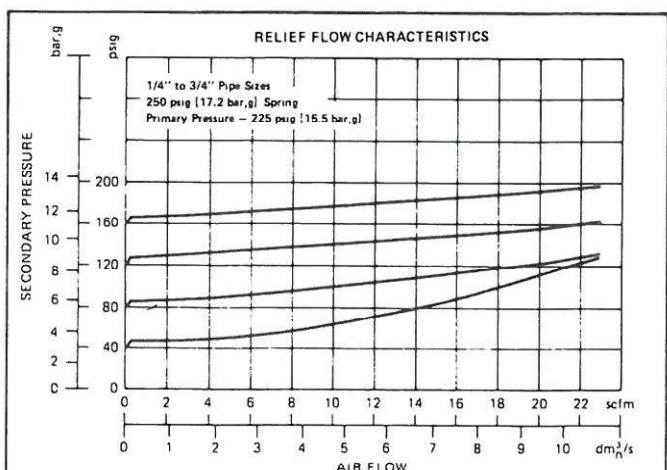


PERFORMANCE CHARACTERISTICS



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 EROSENE.



OPERATION

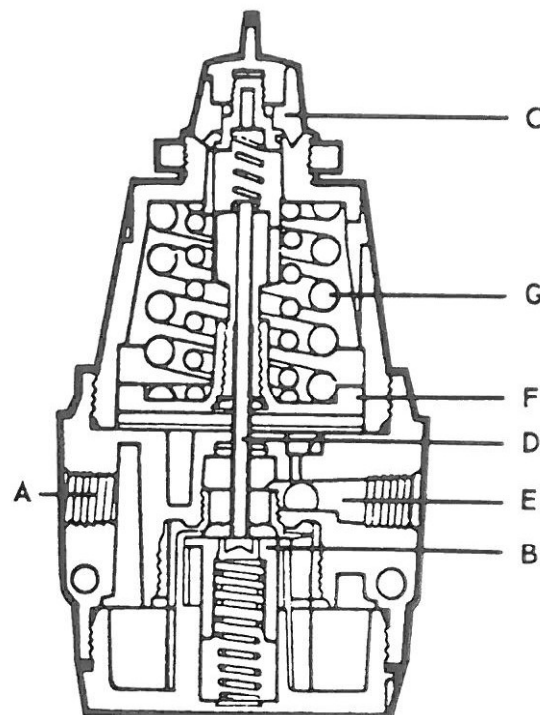
Primary air enters the regulator through inlet port (A), moves through a protective screen to the regulator valve (B). Rotating the adjusting knob (C) clockwise causes the adjusting screw (D) to move the valve away from the seat, permitting air to pass to the secondary side (E).

This secondary or system pressure is applied to the underside of the piston (F) through the sensing hole. As the secondary pressure increases, the force on the piston causes the springs (G) to compress. This action also moves the adjusting screw (D) in the same direction permitting the valve (B) to close, interrupting the flow of air from primary to secondary.

While the secondary pressure is equal to or greater than the spring force, the valve remains closed. When the system demand causes the pressure to drop, the movement of the piston opens the valve and the process is repeated.

Secondary air is bled through two small holes in the valve (B) to the underside. This provides a balanced valve.

If a sudden increase in secondary pressure should occur, it will cause the piston (F) to compress the spring (G) lifting the hollow adjusting screw off the valve face. This permits excess secondary pressure to dissipate rapidly to atmosphere, and operation returns to normal.



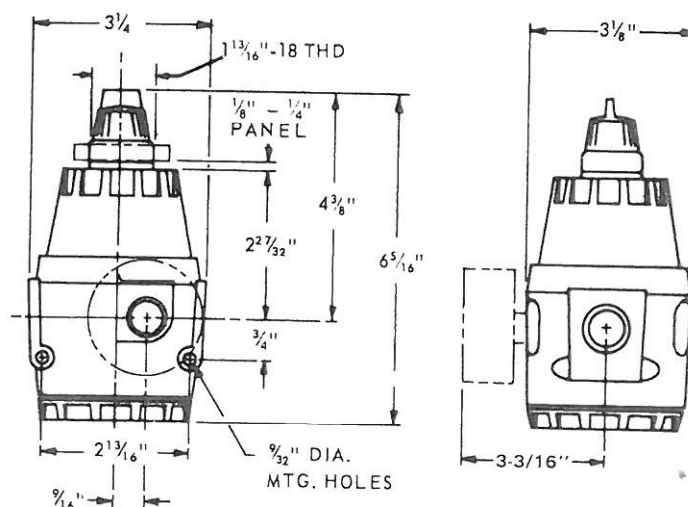
ORDER TABLE





Standard **RELIEVING REGULATOR** models are normally available from distributor stock. To order **NON-RELIEVING REGULATORS**, substitute "N" for "R" in 7th digit.

GAUGE	PIPE SIZE	STANDARD	OPTIONAL MODELS	
		3-150 Psig	1-50 Psig	5-250 Psig
With Gauge	1/4"	R02-200-RGM-AU	R02-200-RGE-AU	R02-200-RGS-AU
	3/8"	R02-300-RGM-AU	R02-300-RGE-AU	R02-300-RGS-AU
	1/2"	R02-400-RGM-AU	R02-400-RGE-AU	R02-400-RGS-AU
	3/4"	R02-600-RGM-AU	R02-600-RGE-AU	R02-600-RGS-AU
Less Gauge	1/4"	R02-200-RNM-AU	R02-200-RNE-AU	R02-200-RNS-AU
	3/8"	R02-300-RNM-AU	R02-300-RNE-AU	R02-300-RNS-AU
	1/2"	R02-400-RNM-AU	R02-400-RNE-AU	R02-400-RNS-AU
	3/4"	R02-600-RNM-AU	R02-600-RNE-AU	R02-600-RNS-AU

*Overported

DIMENSIONS



ACCESSORIES			
	PANEL MOUNT Threaded bonnet and nut.	Ordered With Unit 18-003-063	
		Ordered Separately 18-003-064	
	MOUNTING KIT Consists of bolt, lock washer and spacer. Fits built-in mounting holes.	Ordered With Unit 18-001-051	
		Ordered Separately 18-001-052	
	TAMPER-PROOF CAP Metal cap fits over adjusting knob after regulator is set. Field conversion cap includes bonnet.	Ordered With Unit 18-021-003	
		Replacement Only 18-021-004 For Field Conversion 18-021-007	
	GAUGES Black metal case with plastic crystal, center-back 1/4" connection. Dual scale.	0-60 psig	18-013-208
		0-160 psig	18-013-209
		0-300 psig	18-013-210

CONVERSION KIT

The standard R02 Regulator can be quickly converted to the B02 Filter-Regulator by ordering the correct conversion kit listed below in the kit order number table. Please refer to sheet No. NIP-201 for illustrated conversion instructions.

FILTER - ELEMENT MICRON	ORDER KIT NUMBER	
	WITH AUTOMATIC DRAIN	WITH MANUAL DRAIN
50 Micron	3046-07	3046-03
25 Micron	3046-08	3046-04
5 Micron	3046-09	3046-05