

STANDARD FILTER-REGULATOR

**1/4"- 3/4" • FOR COMPRESSED
AIR SERVICE**

SPECIFICATIONS

PIPE SIZES: 1/4", 3/8", 1/2", 3/4"
FILTER SECTION: FILTER ELEMENTS:
50 MICRON (STANDARD)
5 AND 25 MICRON (OPTIONAL)
AUTOMATIC OR MANUAL DRAIN
REGULATOR SECTION: RELIEVING OR NON-RELIEVING
GAUGE PORTS: TWO (2), FULL FLOW, 1/4"
PRIMARY PRESSURE: UP TO 250 PSIG

*SECONDARY (REGULATED) PRESSURE RANGES:

3 - 150 PSIG (STANDARD)
1 - 50 PSIG (OPTIONAL)
5 - 250 PSIG (OPTIONAL)

MAXIMUM RECOMMENDED OPERATING CONDITIONS:

SAFETY-GREEN BOWLS → TRANSPARENT
[250 PSIG AT 120°F. AMBIENT] 150 PSI @ 125°F
[100 PSIG AT 175°F. AMBIENT]
METAL BOWLS
250 PSIG AT 175°F. AMBIENT

* 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 for outlets.

Interchangeable automatic drain or manual drain.

Safety-Green, polycarbonate, transparent or metal bowl is threaded for easy removal, no clamp ring.

Rapid response to circuit-induced overshoot.

No appreciable pressure decay over a wide range of air flows.

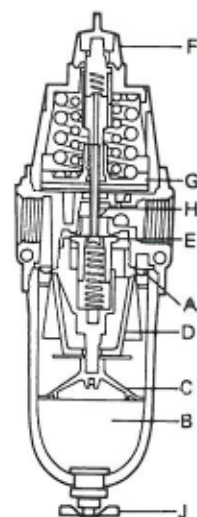
Can be disassembled and serviced without tools and without removal from air line.

OPERATION

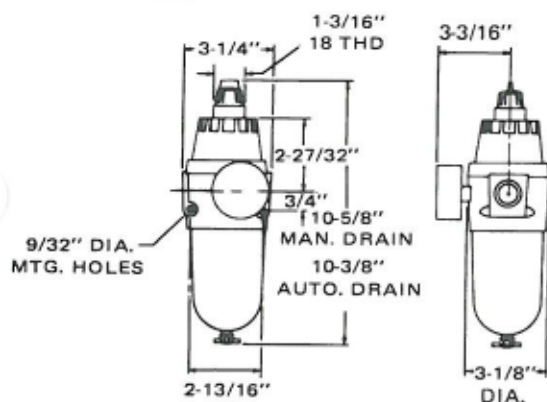
Flow through the directional louvers (A) forces air into a swirling pattern. Liquids and heavy solids in the air stream are directed away from the filter element and held against the inside of the bowl by centrifugal force. They move down the bowl wall into the quiet zone (B) below the baffle. The baffle (C) maintains the quiet zone in the lower part of the bowl to prevent air turbulence from picking up the liquid and returning it to the air stream. Air then flows inward and passes through the filter element (D) which further cleans the air and removes the fine solids.

Clean air flows from the filter element directly to the regulator valve (E). Desired secondary pressure is adjusted by a low torque, non-rising adjusting knob (F). The secondary pressure is sensed by the regulator piston (G) which moves the valve pin (H) opening or closing the regulator valve to maintain the desired outlet pressure.

Liquids accumulated in the filter quiet zone are drained off through the manual drain (J) or an automatic drain.



DIMENSIONS



PARTS

REPAIR KIT.	3034-01
(Kit contains: "O" ring, washer, seals, valve assembly, gasket)	
Spring:	
50 lb.	2757-02
100 lb.	2757-01
150 lb.	2654-01
250 lb.	2654-01 & 2757-01
Filter element (kit includes gaskets):	
5 micron	2992-04
25 micron	2992-03
50 micron	2992-02
Transparent bowl assembly (manual drain)	2487-51
Automatic drain	3000-03
Automatic drain float	3003-50
Metal bowl assembly (manual drain)	3047-50
(Bowl assemblies include insert, gasket, bowl retainer, drain cock)	
Bowl only	
Transparent	2487-02
Metal	3047-01

CAUTION

THIS FILTER-REGULATOR SHOULD NOT BE USED WHERE PRESSURE OR TEMPERATURE MAY EXCEED SPECIFIED MAXIMUM RECOMMENDED OPERATING CONDITIONS. USE WITH MEDIA OTHER THAN COMPRESSED AIR SERVICE IS NOT RECOMMENDED. USE ONLY CLEAN, WARM WATER OR KEROSENE TO CLEAN POLYCARBONATE BOWL.



ORDER TABLE

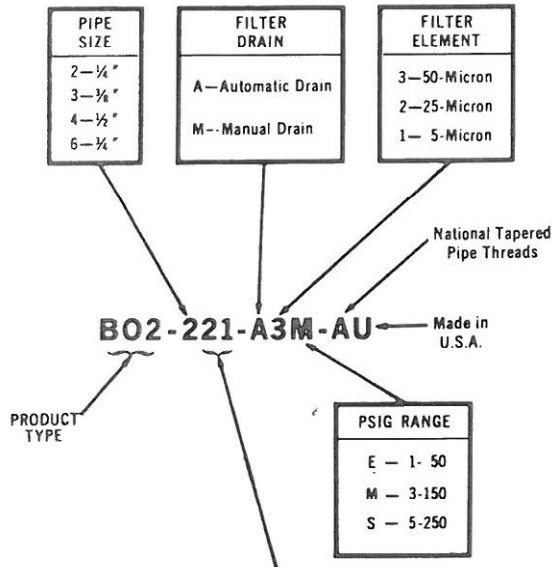
The standard B02 units are: Safety-Green bowl, 50-micron filter element, automatic or manual drain, 3-150 psig range, relieving type, with gauge. They are normally available from distributor stock.

PIPE SIZE	AUTOMATIC DRAIN	MANUAL DRAIN
1/4"	B02-221-A3M-AU	B02-221-M3M-AU
3/8"	B02-321-A3M-AU	B02-321-M3M-AU
1/2"	B02-421-A3M-AU	B02-421-M3M-AU
3/4"	B02-621-A3M-AU	B02-621-M3M-AU

Imported

OPTIONAL MODELS

Optional models may be ordered as follows:



VARIATIONS			5th and 6th DIGIT IN MODEL NUMBER SHOULD READ:
FILTER BOWL	REGULATOR MODEL	GAUGE	
SAFETY-GREEN	RELIEVING	NO	00
		YES	21
	NON-RELIEVING	NO	22
		YES	23
METAL	RELIEVING	NO	24
		YES	25
	NON-RELIEVING	NO	26
		YES	27
BOWL GUARD	RELIEVING	NO	17
		YES	18
	NON-RELIEVING	NO	19
		YES	20

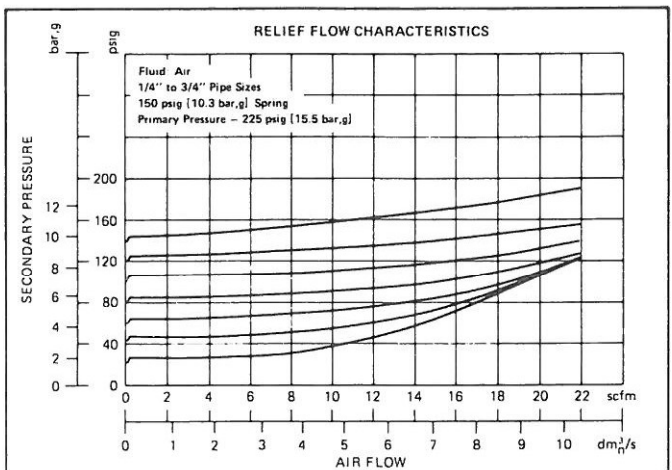
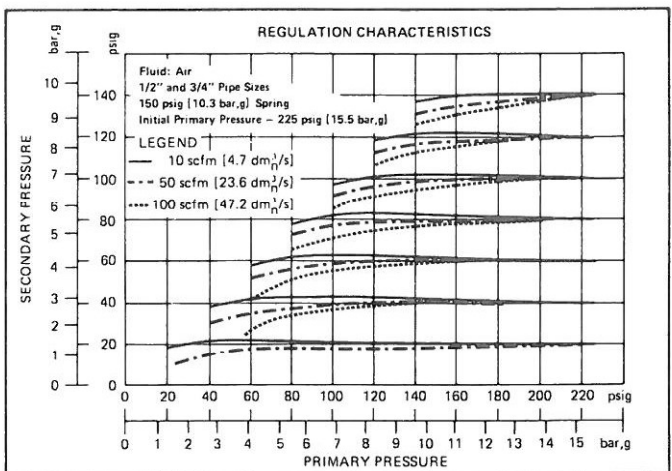
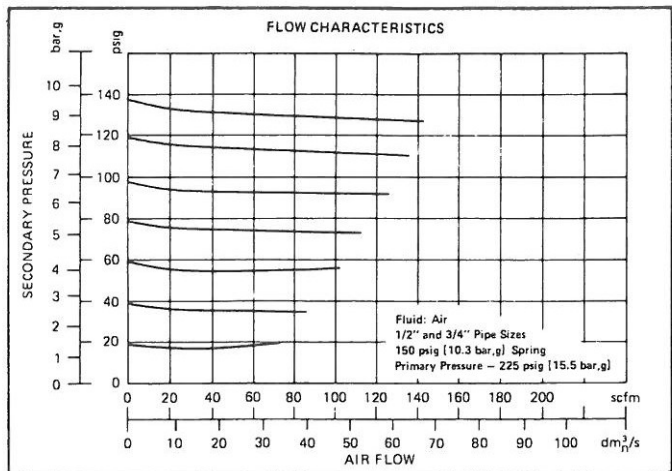
ACCESSORIES

	BOWL GUARD (With Bowl & Drain) Perforated metal gives positive protection, yet allows visibility.	Ordered With Unit See Table Above
		Ordered Separately Manual 18-012-010 Automatic 18-012-014
	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 KITS

Convert manual to automatic drain	3000-01
Convert R02 to B02	
50 Micron	Auto Drain 3046 07 Manual Drain 3046 03
25 Micron	3046 08 3046 04
5 Micron	3046 09 3046 05

PERFORMANCE CHARACTERISTICS



C. A. NORGREN CO.
LITTLETON, COLORADO 80120 / 303-794-2611



Copyright © 1972, C.A. NORGREN CO.

Printed in U.S.A.