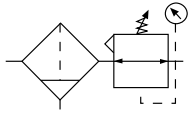


Filter / Regulator B39

= "Most Popular"

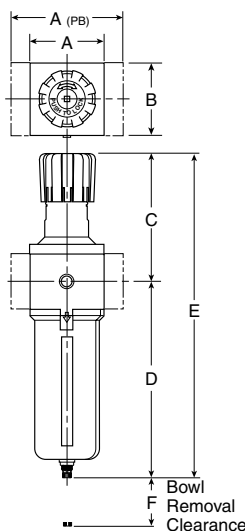


B39-06-FL00

Features

- 5 Micron Filtration
- Balanced Valve Design
- Solid Control Piston for Extended Life
- 3/4" and 1" NPT Ports
- Port Blocks Available for BSPP Thread and 1-1/2" Port
- Quick Disconnect Bowl
- High Flow Capacities

⚠ WARNING
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.



Dimensions

Models	Inches (mm)	A	A (PB)	B	C	D†	E†	F
Standard Unit B39-XX-FL00		3.62 (92)	5.91 (150)	3.62 (92)	6.38 (162)	9.57 (243)	15.95 (405)	4.92 (125)

† With Manual or Internal Auto Drain

Specifications

Flow Capacity*	3/4	250 SCFM (118 dm ³ /s)
	1	250 SCFM (118 dm ³ /s)
Adjusting Range Pressure	0 to 125 PSIG (0 to 8.6 bar)	
Gauge Port	NPT	1/4
Maximum Supply Pressure	250 PSIG (17 bar)	
Operating Temperature	32° to 175°F (0° to 80°C)	
Port Size†	NPT	3/4, 1
Standard Filtration***	Micron	5
Useful Retention**	oz. (cm ³)	6.8 (200)
Weight	lb. (kg)	5.3 (2.4)

* Inlet pressure 100 PSIG (6.9 bar). Secondary pressure 90 PSIG (6.2 bar).

** Useful retention refers to volume below the quiet zone baffle.

† Port blocks available for BSPP thread & 1-1/2" port.

*****Type "A" 5 micron elements:** All Wilkerson Type "A" 5 micron elements **meet or exceed ISO Class 3** for maximum particle size and concentration of solid contaminants.

Materials of Construction

Body & Bowl	Aluminum
Element Retainer, Deflector and Baffle	Plastic
Filter Element	Sintered Polyethylene
Piston	Plastic
Seals	Nitrile
Sight Gauge	Polyamide (Nylon)
Springs	Steel
Valve Assembly	Brass / Nitrile

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Replacement Bowl Kits

- Metal Bowl –
- Sight Gauge / Internal Auto Drain P3NKA00BSA
- Sight Gauge / Manual Drain P3NKA00BSM

Replacement Element Kits

- 40 Micron..... P3NKA00ESG
- 5 Micron..... P3NKA00ESE
- Activated Charcoal P3NKA00ESA

Replacement Kits

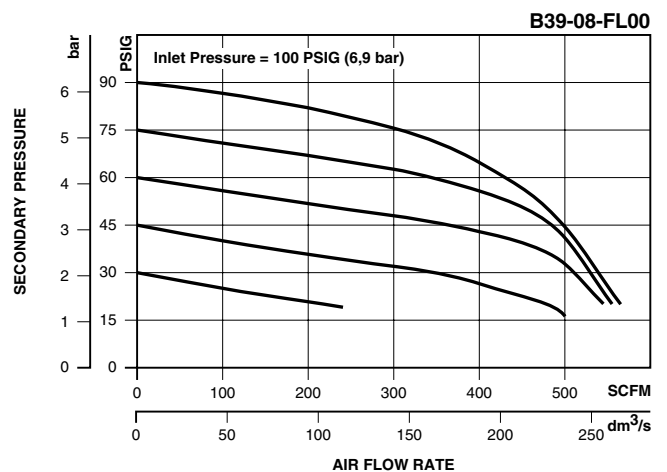
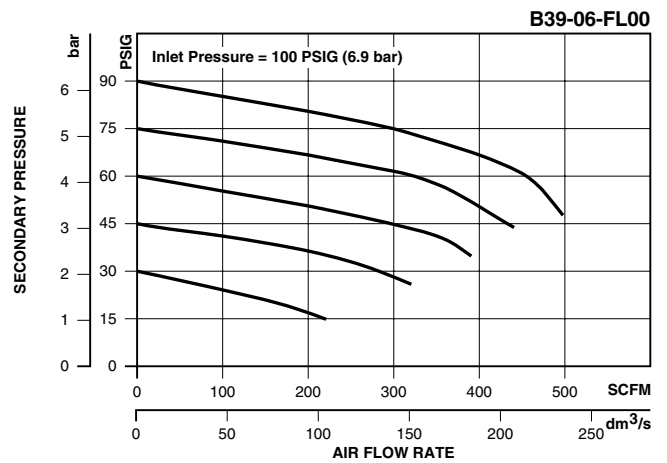
- Service Kit –
- Relieving..... P3NKA00RR
- Non-relieving P3NKA00RN

- Springs –
- 1 to 60 PSIG Range..... C10A1304
- 2 to 125 PSIG Range..... C10A1308
- 5 to 250 PSIG Range..... C10A1317

Accessories

- Bowl Latch Kit C11A33
- Control Knob P3NKA00PN
- Drain Kit –
- Internal Auto Drain..... PS506
- Manual Drain PS512
- Gauges –
- 60 PSIG (0 to 4 bar)..... K4520N14060
- 160 PSIG (0 to 11 bar) K4520N14160
- 300 PSIG (0 to 20 bar) K4520N14300
- Mounting Bracket Kit P3NKA00MW
- Sight Gauge Kit P3NKA00PE

= “Most Popular”



Ordering Information

Model Type	Port Size	Metal Bowl / Sight Gauge Without Gauge 2 to 125 PSIG (0.4 to 8.6 bar)	Metal Bowl / Sight Gauge With Gauge 2 to 125 PSIG (0.4 to 8.6 bar)
Manual Drain	3/4	B39-06-FL00	B39-06-FLG0
	1	B39-08-FL00	B39-08-FLG0

Options - To order an option supplied with the unit model, add the appropriate coded suffix letter in the designated position of the model number.

B

⚠ WARNING

To avoid unpredictable system behavior that can cause personal injury and property damage:

- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to this product before installation, servicing, or conversion.
- Operate within the manufacturer's specified pressure, temperature, and other conditions listed in these instructions.
- Medium must be moisture-free if ambient temperature is below freezing.
- Service according to procedures listed in these instructions.
- Installation, service, and conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversion, air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or the product does not operate properly, do not put into use.
- Warnings and specifications on the product should not be covered by paint, etc. If masking is not possible, contact your local representative for replacement labels.

⚠ WARNING

**Product rupture can cause serious injury.
 Do not connect regulator to bottled gas.
 Do not exceed maximum primary pressure rating.**

Safety Guide

For more complete information on recommended application guidelines, see the Safety Guide section of Pneumatic Division catalogs or you can download the **Pneumatic Division Safety Guide** at: www.parker.com/safety

Introduction

Follow these instructions when installing, operating, or servicing the product.

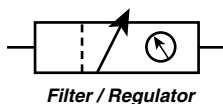
Application Limits

These products are intended for use in general purpose compressed air systems only.

	kPa	PSIG	bar
Operating Pressure Maximum	1700	250	17.0
Operating Temperature Maximum		80°C (175°F)	
Operating Temperature Minimum		0°C (32°F)	

Note: The maximum recommended pressure drop for a particulate filter is 70 kPa (10 PSIG, 0.7 bar).

Symbols



Installation

1. The filter/regulator should be installed with reasonable accessibility for service whenever possible – repair service kits are available. Keep pipe or tubing lengths to a minimum with inside clean and free of dirt and chips. Pipe joint compound

should be used sparingly and applied only to the male pipe – never into the female port. Do not use PTFE tape to seal pipe joints – pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also, new pipe or hose should be installed between the filter/regulator and equipment being protected.

2. The upstream pipe work must be clear of accumulated dirt and liquids.
3. Select a filter/regulator location as close as possible to the equipment being protected.
4. Install filter/regulator so that air flows in the direction of arrow on body.
5. Install filter/regulator vertically with the bowl drain mechanism at the bottom. Free moisture will thus drain into the sump (“quiet zone”) at the bottom of the bowl.
6. Gauge ports are located on both sides of the filter/regulator body for your convenience. It is necessary to install a gauge or socket pipe plugs into each port during installation.

Operation

1. Both free moisture and solids are removed automatically by the filter.
2. Manual drain filters must be drained regularly before the separated moisture and oil reaches the bottom of the baffle or end cap.
3. The filter element should be removed and replaced when pressure differential across the filter is 69 kPa (10 PSIG).
4. Before turning on the air supply, turn the knob counterclockwise until compression is released from the pressure control spring. Then turn knob clockwise and adjust regulator to desired downstream pressure. This permits pressure to build up slowly in the downstream line.
5. To decrease regulated pressure settings, always reset from a pressure lower than the final setting required. Example, lowering the secondary pressure from 550 to 410 kPa (80 to 60 PSIG) is best accomplished by dropping the secondary pressure to 350 kPa (50 PSIG), then adjusting upward to 410 kPa (60 PSIG).
6. When desired secondary pressure settings have been reached, push the knob down to lock this pressure setting.

⚠ WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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Service

⚠ Caution: Disconnect or shut off air supply and exhaust the primary and secondary pressures before servicing unit. Turning the adjusting knob counterclockwise does not vent downstream pressure on non-relieving regulators. Downstream pressure must be vented before servicing regulator.

Note: Grease packets are supplied with kits for lubrication of seals. Use only mineral based grease or oils. Do not use synthetic oils such as esters. Do not use silicones.

Note: After servicing unit, turn on air supply and adjust regulator to the desired downstream pressure. Check unit for leaks. If leakage occurs, do not operate - conduct repairs and retest.

Service Kits Available

Description	Kit Number	Contains Items
Element Kits:		
5 Micron	P3NKA00ESE	(5) Bowl Seal and (2) Element
40 Micron	P3NKA00ESG	
25 Micron Porous Bronze	P3NKA00ESJ	
Relieving Regulator Repair Kit	P3NKA00RR	(1) Piston, (3) O-ring, (4) Poppet Assembly,
Non-relieving Regulator Repair Kit	P3NKA00RN	(6) Poppet Return Spring, (7) Lipseal, (8) O-ring
Auto Drain Kit	PS506	(9) Auto Drain Assembly

Servicing Filter Element

Refer to picture for disassembling, servicing, and re-assembling unit.

Servicing Regulator

1. Disengage the adjusting knob by pulling upward. Turn adjusting knob counterclockwise until the compression is released from the pressure control spring.
2. Disassemble and service as required. Refer to picture for details.
3. Re-assemble unit. Refer to picture for details.

- ⦿ Lightly grease with provided lubricant.
- ✓ Inspect for nicks, scratches, and surface imperfections. If present, reduced service life is probable and future replacement should be planned.
- Ⓒ Clean with lint-free cloth.

