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numatics®

# Air Preparation Products

## FRLs and Accessories





www.numatics.com

EMERSON
Industrial Automation

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## FlexiBlok FRL Series*


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*Port sizes: 14 Series (1/8 & 1/4), 22 Series (1/4, 3/8, & 1/2) 32 Series (1/2 & 3/4), 42 Series (3/4 & 1)

## The FLEXIBLOK® Advantage



While most competitors require numerous additional parts to assemble FRL components, the Numatics FLEXIBLOK® FRL products are easily assembled with 2 button head screws and an o-ring seal. This modular type design reduces the potential for leakage during assembly and lowers the overall cost since brackets or extra tools are not required.

The FLEXIBLOK® line is designed to be simple and economical...

- Service can be performed while the component is installed in the air line.
- 22, 32 and 42 Series bowls feature a unique locking tab bowl. Just pull the locking tab down, turn the bowl 45º, and pull down to remove.
- The unique design of the 22, 32 and 42 series bowls allows the o-ring to be held captive on the bowl, making it easy to check and replace if necessary.
- Differential pressure indicators are standard on all 22, 32 and 42 Series coalescers.
- Particulate filters feature a standard 5 micron element (optional 40 micron element).
- Coalescing filters feature dual support cores which prevent rupture and collapse.
- CircleVision™ bowls allow the machine operator or manager a clear visual indication of the liquid level in a filter or lubricator bowl from up to 40 feet away.
- Every product is tested and approved for quality assurance.

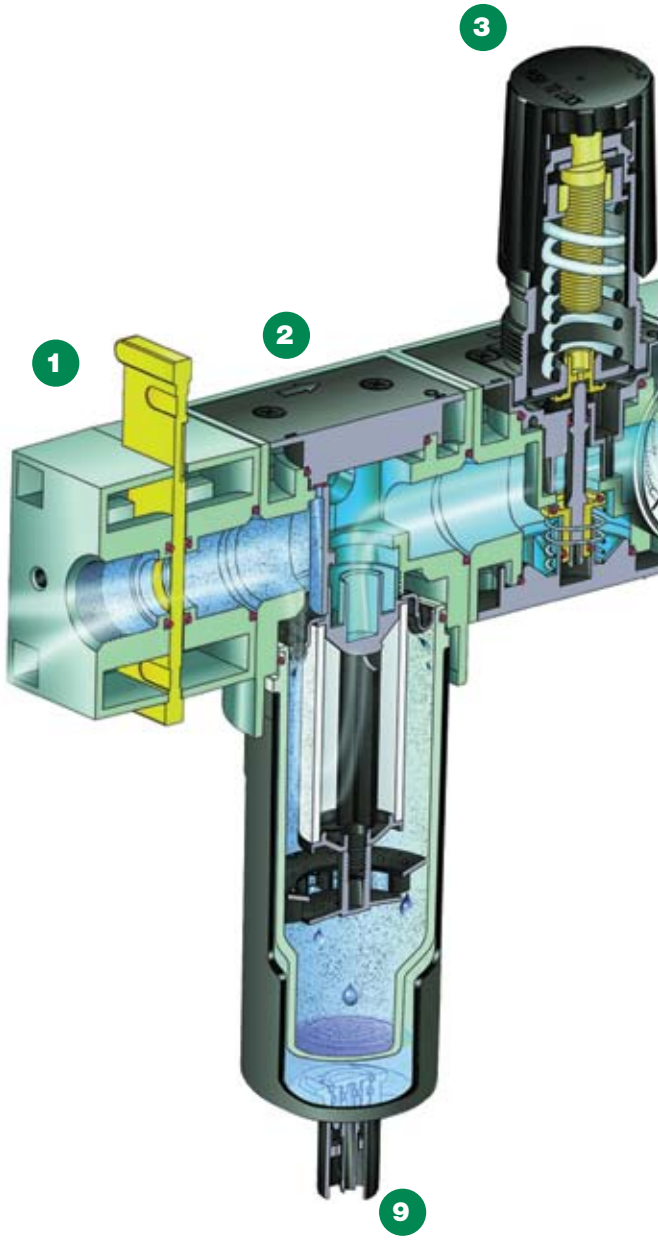


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## The FlexiBlok® Advantage

Designed with lightweight but sturdy aluminum castings, the FLEXIBLOK® FRL Series offers the most reliable performance and durability of any FRL line. Most components can be modified with readily available options and accessories, such as metal bowls and easy-to-operate drains.

The following is an example of an Flexiblok® FRL assembly and a description of each component. For additional specifications and product selection charts, please refer to pages 9 to 29.




### 1 Shutoff Valve

Manual shutoff used to relieve downstream pressure for servicing or maintenance. Security hole provided for lockout capabilities. May also be used as a stand-alone unit.

### 2 Filter

**Particulate Filter:** 5 micron filtration (shown) used as a primary filter to remove water, dust, and debris from air line (40 micron optional). Water removal efficiency is greater than 90% at rated flow.

**Coalescing Filter:** used as a secondary filter to remove up to 99.99% of oil and particles. Available with four different type elements - 0.01, .3, and .7 micron filtration and a vapor adsorbing element that utilizes activated carbon to deodorize compressed air. Recommended uses:

**C grade element**, identified by its blue drain layer, is a coarse filter for large amounts of water, rust, pipe scale, and liquid hydrocarbons. Excellent for environments that have severe contamination. Can be used for lubricated or 'dry' systems. Ideal for mainline filtration of plant air.

**D grade element**, identified by its green drain layer, is a fine filter for cylinder or valves - especially when the circuit is being run without lubrication ('dry'). Excellent filter for desiccant or regenerative style dryers.

**E grade element**, identified by its red drain layer, is an ultra fine filter for oil-free instrumentation air, blow molding, food and drug packaging, electronics applications, and other applications requiring maximum contamination removal.

**F grade element**, identified by its white drain layer, is an adsorbing filter that utilizes activated carbon to capture hydrocarbon vapor and deodorize compressed air. Typically it is used to protect worker environments, food and drug applications, breathing air, and instrumentation for analytical instruments. Life expectancy is approximately 3 months at rated flow.

### 3 Regulator

Reduces supply pressure to a required working pressure. Available in relieving or non-relieving styles and in four different pressure ratings.

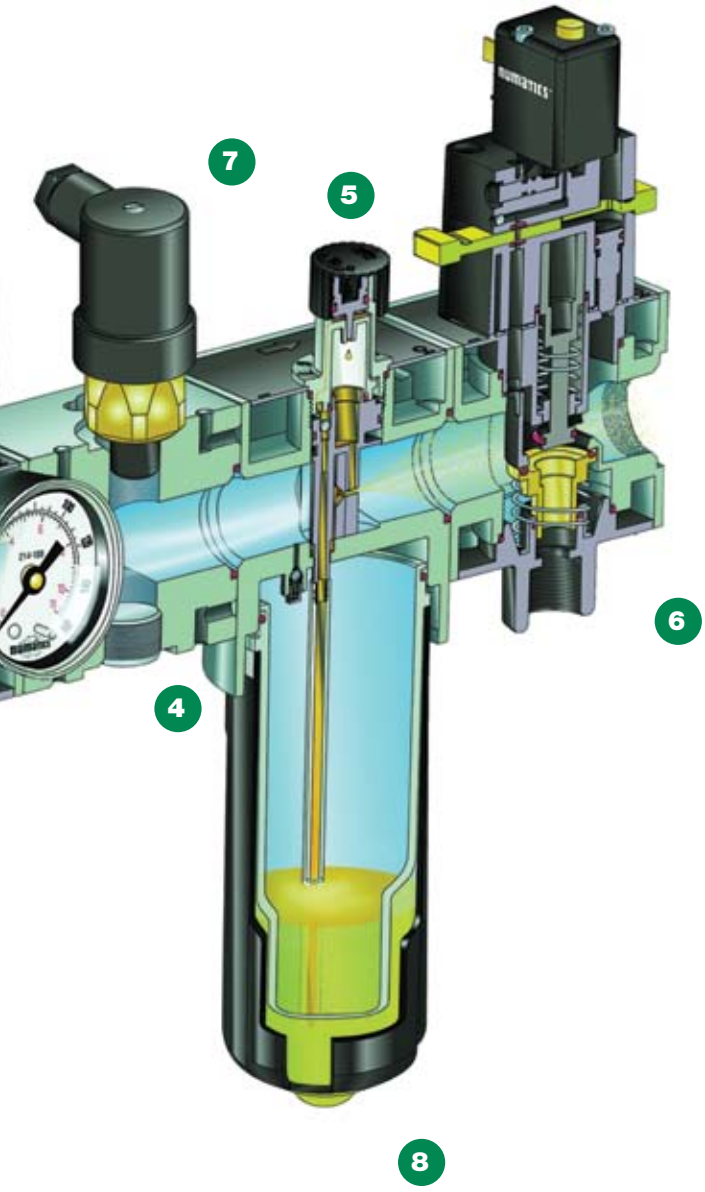
### 4 Diverter Block

Provides total versatility; mounts directly inline to allow additional components to be manifolded without excessive pressure drop.



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## The FlexiBlok® Advantage




### 5 Lubricator

Designed to meter oil aerosols into the air stream where lubrication is required. Tamper-resistant adjustment knob eliminates unauthorized adjustments.

### 6 Solenoid Soft Start Quick Exhaust Valve

When solenoid air pilot is energized, adjustable flow control allows system to be pressurized slowly. When downstream pressure reaches approximately 60% of upstream pressure, slow start shifts to full flow condition. When solenoid air pilot is de-energized, downstream pressure exhausts to atmosphere. Equipped with manual override and lockout.

### 7 Pressure Switch

Allows for remote monitoring of system pressure. An adjustable, tamper-resistant knob resists unauthorized changes.

### 8 Bowls

Three types available: polycarbonate bowl with guard (standard), metal bowl with sight glass, and CircleVision™ - a metal bowl wrapped in polycarbonate, allowing a 360° view of liquid level in bowl.

### 9 Drains

Six types available: Manual drain with internal barb fitting (1/4" I.D.) for drain tube (standard), automatic float drain, flexible drain, external pulse drain, metal manual drain, and manual lever drain. All feature unique characteristics suitable for many different applications.

### High Flow

The Numatics FRL FlexiBlok® line is designed for high flows - with minimal pressure drop.

### Product Connection

Each FlexiBlok® component is engineered to connect directly to the next without inserts or special tools, ensuring optimum stability and strength.

### Integral Mounting Holes

FlexiBlok® components mount directly without the use of special brackets or inserts, allowing for individual component mounting for stand-alone units.



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## The FlexiBlok® Advantage

Numatics coalescing filters use a borosilicate glass fiber to remove contaminant from air lines. Air flows from the inside to the outside of the element through progressively larger openings in the media, trapping contaminant particles and forcing liquids to form into larger drops and drain to the bottom of the bowl. Numatics filters are used to remove hydrocarbon, oil, and more. The filters are made up of seven main features:

### 1 End Seals

Urethane end seals provide positive seal. Compatible with mineral base and synthetic lubricants (silicone is optional)

### 2 Optional Pleated Prefilter

3 micron media protects the fine borosilicate fibers, extending the life of the coalescing media.

### 3 Inner Media Wrap - Inner Support Core

Allows cross flow of gas which initiates the coalescing process. Helps protect element from damage due to excessive pressure drop

### 4 Media

Four media choices for best performance. Proprietary glass fiber blend combines low differential pressures and high efficiencies with maximum holding capacity.

### 5 Outer Media Wrap - Outer Support Core

Provides structural stability to filter media from excessive pressure drop

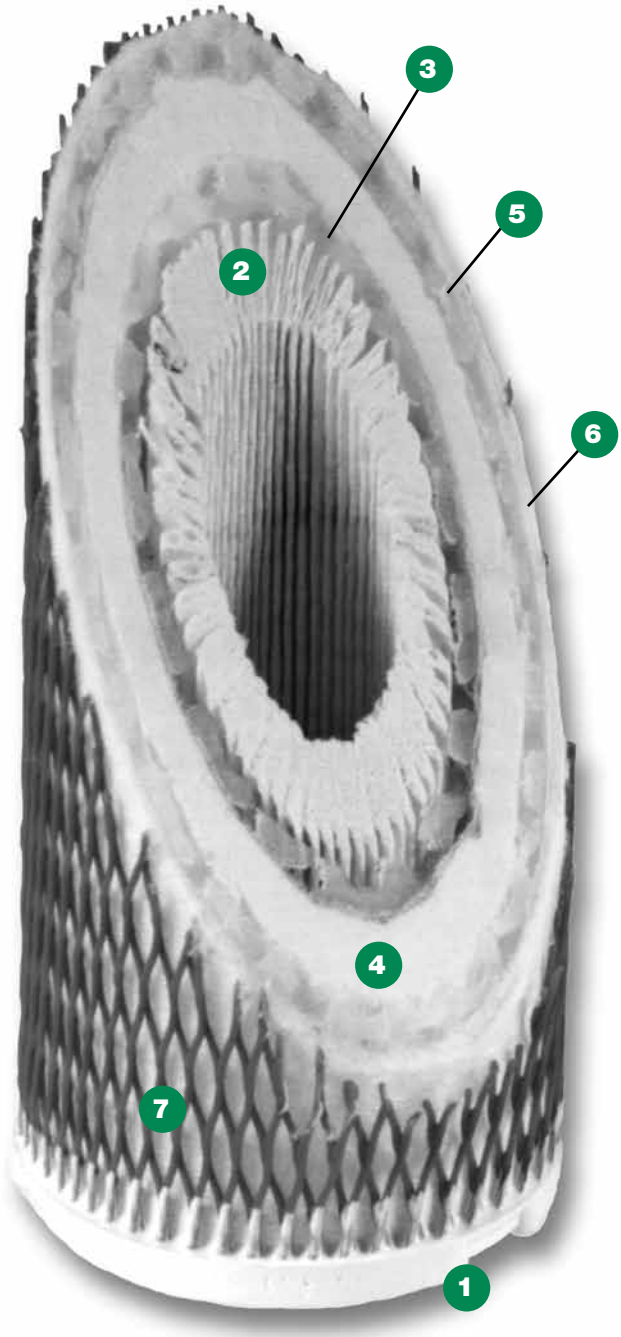
### 6 Drain Layer

Non-wicking fiber prevents re-entrainment

### 7 Color-coded Webbing

Allows for easy identification of media type

See next page for more information about our line of coalescing filters, including media grade information, application notes, and a helpful chart showing diameters of particles and aerosols in microns.

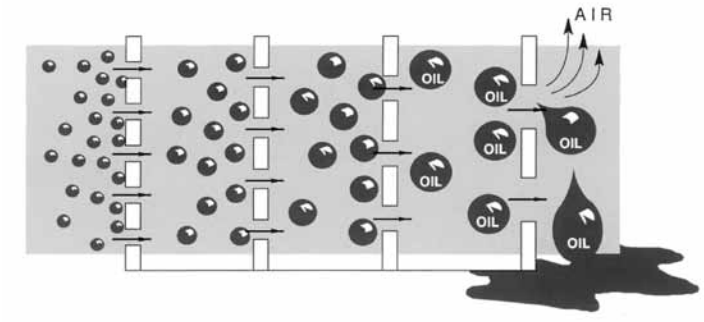



*Cross-section of Numatics coalescing filter element, with optional pleated prefilter*



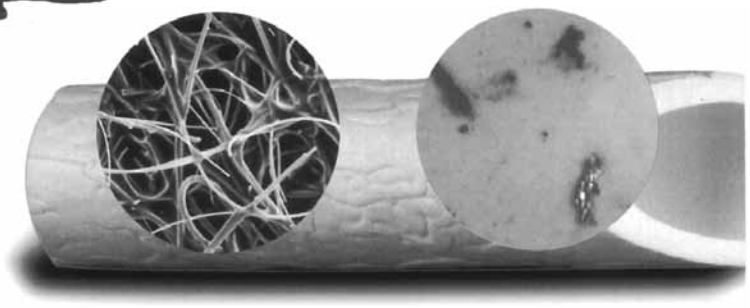
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## The FlexiBlok® Advantage




Air flows from the inside to the outside of the element through progressively larger openings in the media. As contamination moves through the element, solid particles are trapped and liquids are formed into large droplets. As the air exits the element, surface tension holds the liquids and allows them to drain to the bottom.

The Numatics 0.3 micron borosilicate glass fiber element, when magnified 228x (left), shows deep, tortuous paths and large air pockets which provide high performance contaminate removal and longer life.



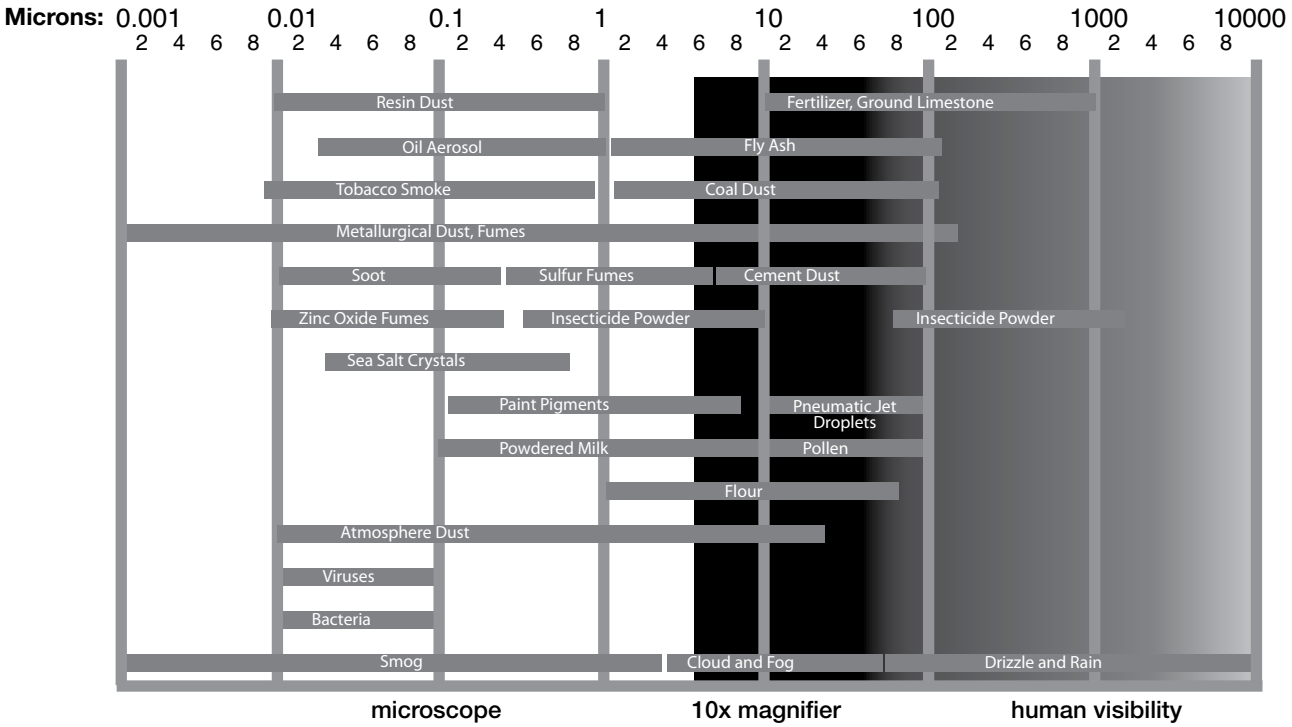
*Scanning electron micrograph (at 228x)*

*Dirty filter magnification (at 40x)*

Contamination removal from a typical compressed air line with 0.3 micron Numatics media is shown magnified 40x (right). The contamination contains hydrocarbon (black), oil (opaque drops), and metal fragments (shiny spots).

With Numatics elements like the one on the left installed in your system, the contamination on the right won't get to where it can cause damage. Your system lasts longer and costs less.

### What you get is not always what you see






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## Endless Manifold Possibilities



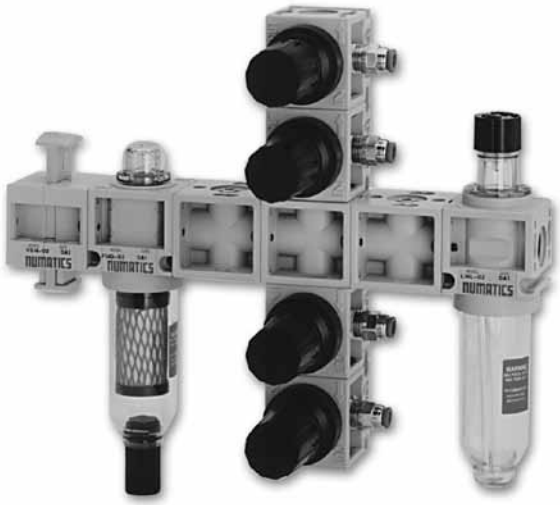

Numatics In-Fittings are the perfect solution for connecting tubing from a Manifold Regulator to the application. For more information see the 'In-Fittings' section in this catalog.

The FLEXIBLOK® 14 Series Manifold Regulator allows several regulators to be connected together in a line. Such a combination may be manifolded left to right or, using a 14 Series Diverter Block, up and down, providing an option for any mounting scenario.

The Manifold Regulator allows flexibility with any necessary pressure. The common P1 port through each regulator makes it possible for the 2nd, 3rd, and any other following inline regulator to provide independent pressure. For example, when 100 PSI enters the first manifold regulator, that pressure will continue to be carried across all following regulators, giving each regulator in the line 100 PSI primary pressure. The reduced pressure is taken from the gauge ports, either front or back!

A system equipped with the Manifold Regulator can help reduce operation costs, since several applications can use pressure supplied by a single FRL assembly.

No room to build left to right? Regulators can be manifolded vertically using 14 Series Diverter Blocks.



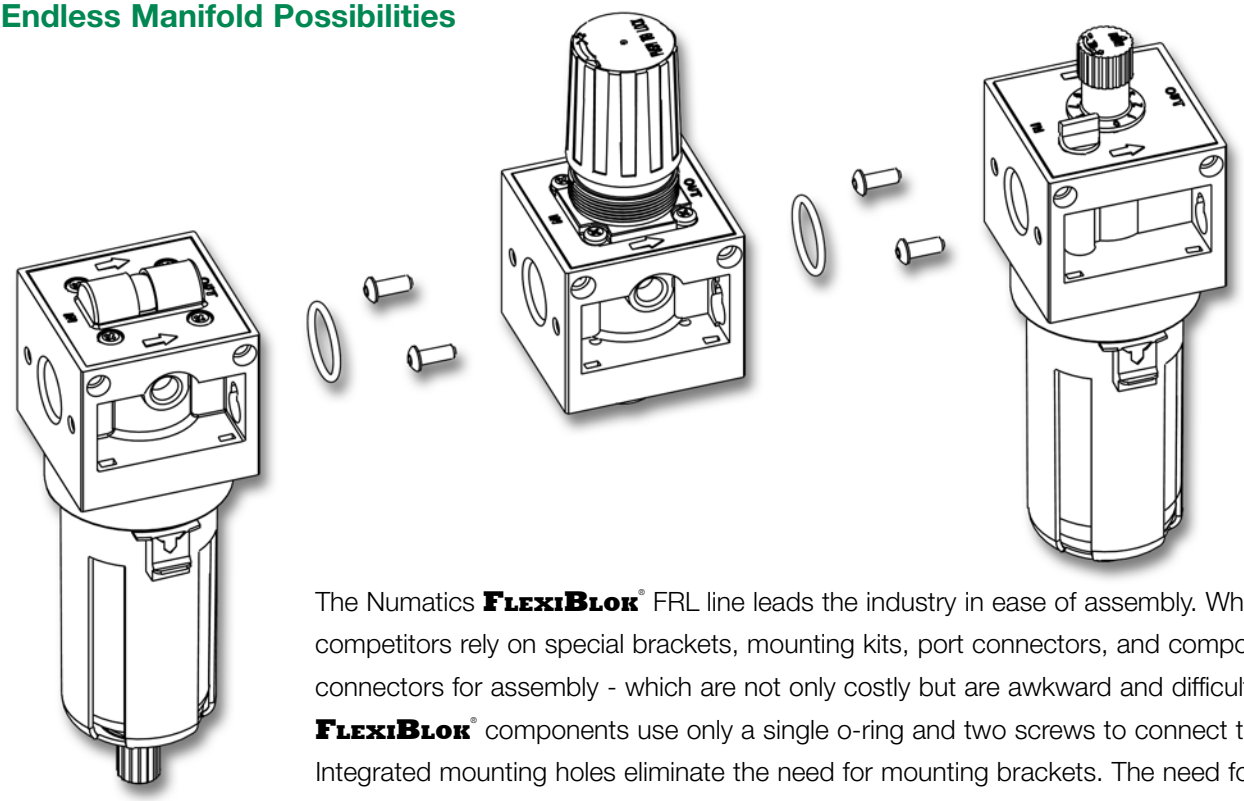


Vertical not an option? Manifold regulators are flexible enough to be built in any direction (notice use of a standard regulator downstream of manifold regulators for reduced & stabilized pressure exiting the lubricator)!



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## Endless Manifold Possibilities



The Numatics **FlexiBlok®** FRL line leads the industry in ease of assembly. While many competitors rely on special brackets, mounting kits, port connectors, and component connectors for assembly - which are not only costly but are awkward and difficult to use - **FlexiBlok®** components use only a single o-ring and two screws to connect together. Integrated mounting holes eliminate the need for mounting brackets. The need for end plates is eliminated, as the in/out ports of all components are tapped so that any unit can be used as a stand alone unit.

By eliminating the need for additional special components, the Numatics **FlexiBlok®** line keeps costs down and maintenance and assembly quick and easy.

## Less is More with FlexiBlok®

The typical **FlexiBlok®** FRL assembly (filter/regulator/lubricator) uses a total of 9 pieces to connect the three components. Some competitor assemblies require as many as 29 individual pieces. Most of these necessary parts are built into **FlexiBlok®** components.



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# Introduction to Numatics

numatics®

Numatics gained its worldwide reputation in the air valve industry with the invention of the multi-purpose precision lapped spool and sleeve assembly design. To complement our valve line and air logic systems, Numatics began expanding its product line to include FRLs and numerous air preparation products in 1988. Today, Numatics leads the industry in air preparation equipment. Here's how Numatics can provide for all of your air preparation needs:

### 1 Numatics Automatic Drain Valve
Automatically expels water on timed sequence, eliminating the potential for water carryover.

### 2 Air Header and Air Drop
Should be installed in a closed loop around plant with a 1/4" per 10' slope to allow water to drain. Remove air from top of header to prevent moisture or contaminant from continuing toward application.

### 3 Drip Leg
Usually sized three times the diameter of the air drop. Collects moisture and contaminant.

### 4 Numatics Valves
Performs equally well with or without lubrication. The lapped spool and sleeve valve is the most reliable valve for dirty or clean environments. For maximum performance, filtration is recommended.

### 5 Numatics Cylinders
Performs equally well with or without lubrication. New seal design eliminates packing cylinder bore with grease to achieve non-lube function.

### 6 Numatics Lockout Valves
Allows system air to be exhausted quickly for safety or other maintenance functions. Large locking hole for trade locked or other security device prevents system from being accidentally turned on during maintenance. Meets OSHA specifications.

### 7 Electropneumatic Transducers
I-P/E-P Pressure Transducer uses critical orifices and components that may be damaged by oils or carryovers incompatible with circuitry.

### 8 Numatics FLEXIBLOK® Shut Off Valves
Relieving model allows bleed down of downstream air for maintenance functions. Can be locked out for security. Meets OSHA specifications.

### 9 Numatics FLEXIBLOK® Particulate Filters
Designed to remove accumulated condensation and particles. Recommended standard filtration is 5 micron (40 micron optional). Also available as a coalescing filter. Optional automatic drain dispels liquid from bowl.

### 10 Numatics FLEXIBLOK® Regulator
Reduces system pressure to working pressure saving both compressed air costs and pressure fluctuation. Since increasing pressure does not necessarily increase speed, the lowest pressure required to perform the task will be the least expensive. Ask us about Numasizing!

### 11 Numatics FLEXIBLOK® Filter/Regulators ('Piggybacks')
Combination filter/regulator performs the duties of both components in one compact unit. Also available as a coalescing filter-regulator.

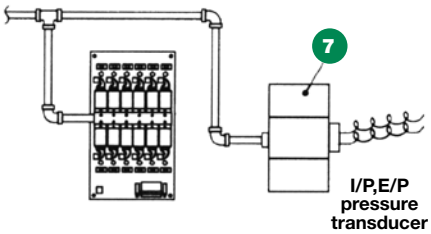
### 12 Numatics FLEXIBLOK® Diverter Block
Allows air to be diverted into multiple directions. Can be used in manifold or direct piped applications.

### 13 Numatics FLEXIBLOK® Lubricator
Allows precise amount of lubricant to atomize and be sent downstream in aerosol form. Useful for air motor or very high-cycle actuator applications.

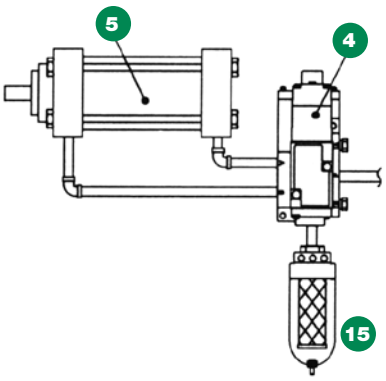
### 14 Numatics FLEXIBLOK® Solenoid Soft Start Quick Exhaust
Solenoid-activated soft start valve allows system to slowly ramp up to working pressure, preventing rapid acceleration from damaging components. Downstream pressure quickly exhausts when solenoid is de-energized.

### 15 Reclassifiers
Removes oil mist and reduces noise from exhaust ports on pneumatic valves, cylinders, and air control systems at extremely high flow rates

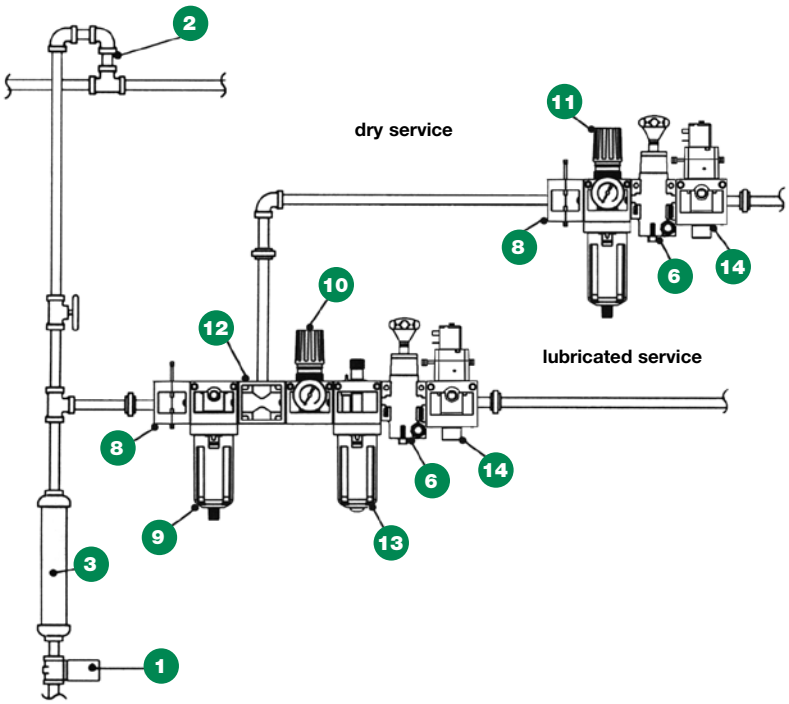
**Instrument Circuit**




**Lubricated Cylinder Circuit**




**Modular Air Preparation System**





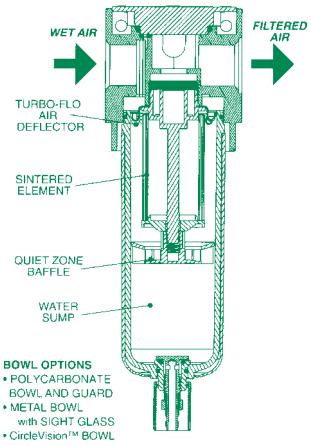

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## F14, F22, F32, F42 Series




- Four convenient sizes
- 5 micron sintered elements standard (40 micron optional)
- Can be installed as modular or individual unit
- Includes screws and o-rings for modular connection
- Manual or automatic drain
- Polycarbonate bowl standard
- Optional metal bowl with sight glass
- Optional **CircleVision™** sight bowl

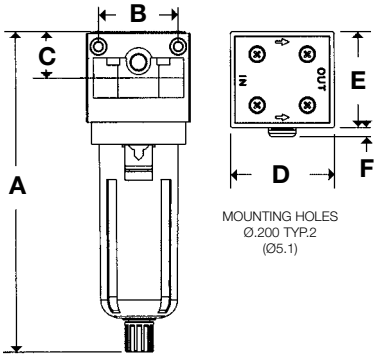



## Specifications

| Bowl | | 14 Series | 22 series | 32 Series | 42 Series |
|---|---|---|---|---|---|
| Temperature Range °F (°C) | | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | Poly C | 150 (10) | 150 (10) | 150 (10) | 150 (10) |
| | Metal | 200 (14) | 200 (14) | 200 (14) | 200 (14) |
| Weight lbs. (kg) | Poly C | 0.60 (0.28) | 0.65 (0.30) | 1.3 (0.59) | 3.70 (1.68) |
| | Metal | 0.65 (0.30) | 1.25 (0.57) | 2.5 (1.14) | 4.80 (2.18) |
| Nominal Flow SCFM (L/M)* | | 32 (906) | 65 (1841) | 105 (2973) | 270 (7647) |
| Body Material | | Zinc | Aluminum | Aluminum | Aluminum |

*Nominal flow with a 5 micron element at 80 psig (5.5 bar) inlet and 5 psig (0.35 bar) pressure drop




## Dimensions: Inches (mm)

| Size | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 14 | 5.94 (151) | 1.45 (37) | 0.85 (22) | 1.68 (43) | 1.6 (41) | |
| 22 | 7.41 (186) | 1.82 (48.5) | 1.045 (26.5) | 2.375 (60.4) | 2.165 (54.9) | 0.21 (5.3) |
| 32 | 8.88 (221) | 2.45 (62) | 1.35 (34.3) | 3 (76) | 3 (76) | 0.14 (3.6) |
| 42 | 12.6 (32) | 3.26 (83) | 1.4 (36) | 4 (102) | 4 (102) | |

## How to Order

**F 22 B – 04 AC**

**Model**
F = Filter

**Series**
14 = 1.5 oz Bowl
22 = 3.8 oz Bowl
32 = 8.5 oz Bowl
42 = 8.5 oz Bowl

**Element**
B = 5 Micron Element
A = 40 Micron Element

**Threads**
– = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
A = Auto Drain (22, 32 and 42 Series)
B = Flexible Drain
C = CircleVision™ Sight Bowl
J = External Pulse Drain
M = Metal Bowl with Sight Glass
Q = Metal Manual Drain
R = Manual Lever Drain
U = Dp Indicator

**Port Size**
01 = 1/8 (14 Series)
02 = 1/4 (14 or 22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 or 42 Series)
08 = 1 (42 Series)



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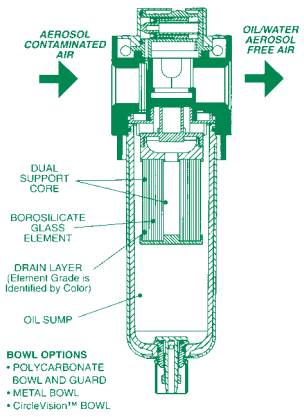
## F14, F22, F32, F42 Series

- Four convenient sizes
- Cartridge element design
- Inner and outer support cores provide stability to filter element
- Available with manual or automatic drain
- Optional metal bowl (sight glass available on 22, 32 and 42 Series)
- Dp indicator standard on 14, 22, 32 and 42 Series





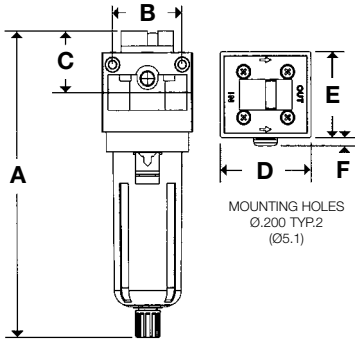





## Specifications

| Bowl | | 14 Series | 22 series | 32 Series | 42 Series |
|---|---|---|---|---|---|
| Temperature Range ºF (ºC) | | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | Poly C | 150 (10) | 150 (10) | 150 (10) | 150 (10) |
| | Metal | 200 (14) | 200 (14) | 200 (14) | 200 (14) |
| Weight lbs. (kg) | Poly C | 0.65 (0.28) | 0.66 (0.30) | 1.42 (0.65) | 3.70 (1.68) |
| | Metal | 0.70 | 1.28 | 2.56 | 4.80 |
| Nominal Flow SCFM (L/M)* | | 12 (340) | 18 (510) | 48 (1359) | 100 (2832) |
| Body Material | | Zinc | Aluminum | Aluminum | Aluminum |

*Nominal flow with a 0.3 micron element at 80 psig (5.5 bar) inlet pressure and 1.5 psig (0.1 bar) pressure drop




## Dimensions: Inches (mm)

| Size | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 14 | 6.57 (167) | 1.45 (37) | 1.48 (38) | 1.68 (43) | 1.6 (41) | |
| 22 | 7.77 (194) | 1.83 (46.5) | 1.56 (39.5) | 2.375 (60.4) | 2.165 (54.9) | 0.21 (5.3) |
| 32 | 9.4 (234) | 2.45 (62) | 1.86 (47) | 3 (76) | 3 (76) | 0.14 (3.6) |
| 42 | 13.09 (332) | 3.26 (83) | | 4 (102) | 4 (102) | |

## How to Order

**F 14 D - 02 AC**

**Model**
F = Filter

**Series**
14 = 1.5 oz Bowl
22 = 3.8 oz Bowl
32 = 8.5 oz Bowl
42 = 8.5 oz Bowl

**Element**
C = 0.7 Micron Coarse Coalescer
D = 0.3 Micron Fine Coalescer
E = 0.01 Micron Ultra Fine Coalescer
F = Vapor adsorber

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

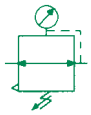
**Options**
A = Auto Drain (22, 32 and 42 Series)
B = Flexible Drain
C = Circlevision™ Sight Bowl
D = 3 Micron, Internal Pleated Prefilter
J = External Pulse Drain
M = Metal Bowl With Sight Glass
Q = Metal Manual Drain
R = Manual Lever Drain
U = No Dp Indicator

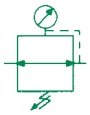
**Port Size**
01 = 1/8 (14 Series)
02 = 1/4 (14 or 22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 or 42 Series)
08 = 1 (42 Series)



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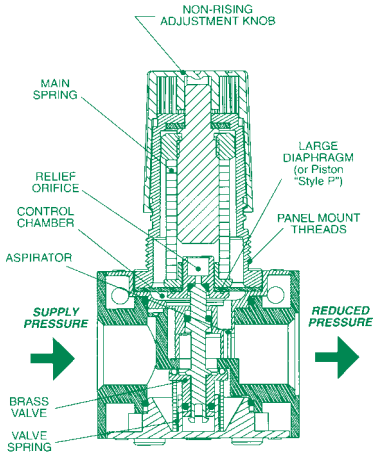
## R14, R22, R32, R42 Series




- Four convenient sizes
- High flow in compact size
- Locking non-rising adjustment knob
- Four different pressure ratings available
- Relieving or non-relieving models
- Can be installed as modular or individual unit
- Standard output pressure 0-125 PSIG

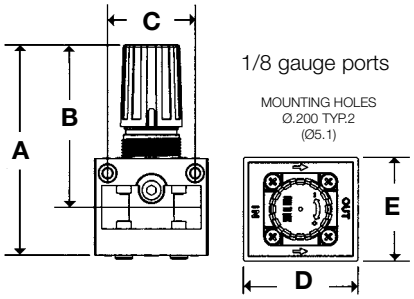



## Specifications

| | 14 Series | 22 Series | 32 Series | 42 Series |
|---|---|---|---|---|
| Temperature Range °F (°C) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | 250 (17) | 200 (14) | 250 (17) | 250 (17) |
| Nominal Flow Rate SCFM (L/M)* | 40 (1133) | 70 (1982) | 100 (2382) | 300 (8495) |
| Weight lbs. (kg) | 0.65 (0.30) | 0.69 (0.31) | 1.37 (0.62) | 4.30 (1.95) |
| Body Material | Zinc | Aluminum | Aluminum | Aluminum |

*Nominal flow at 100 psig (6.9 bar) inlet pressure and 80 psig (5.5 bar) set point pressure




## Dimensions: Inches (mm)

| Size | A | B | C | D | E |
|---|---|---|---|---|---|
| 14 | 3.69 (94) | 2.87 (73) | 1.45 (37) | 1.68 (43) | 1.6 (41) |
| 22 | 4.51 (115) | 3.41 (87) | 1.83 (46.5) | 2.375 60.4 | 2.165 (54.9) |
| 32 | 5.95 (151) | 4.5 (114) | 2.45 (62) | 3 (76) | 3 (76) |
| 42 | 8.19 (208) | 6.19 (157) | 3.26 (83) | 4 (102) | 4 (102) |

## How to Order

R 22 R - 04 GP

**Model**
R = Regulator

**Series**
14
22
32
42

**Style**
R = Relieving
N = Non-Relieving
K = Internal Check (22, 32, and 42 Series)
P = Piston Operator (22, 32 and 42 Series)

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
G = Gauge
H = 0-200 PSIG Output (22, 32 or 42 Series)
I = 0-25 PSIG Output
L = 0-60 PSIG Output
P = Panel Mount Nut (14, 22, 32 Series)
S = Steel T Handle (42 Series)
T = Tamper Resistant

**Port Size**
01 = 1/8 (14 Series)
02 = 1/4 (14 or 22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 or 42 Series)
08 = 1 (42 Series)

Notes:
- 42 Series "H" spring comes standard with "Steel T Handle."
- "T" option tamper resistant cannot be used with high pressure "H" option with 42 Series.

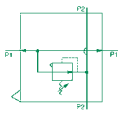


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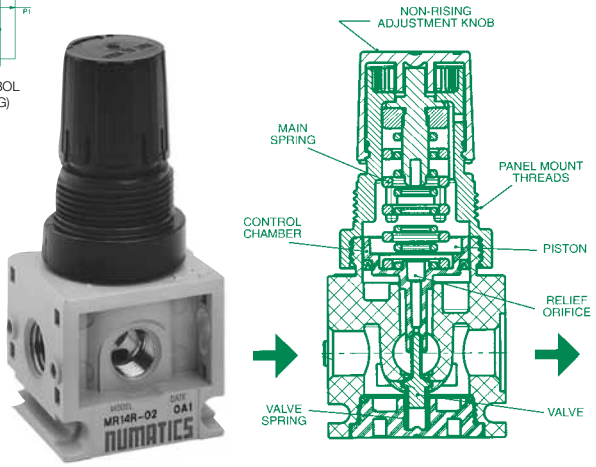
# Manifold Regulator



## MR14 Series



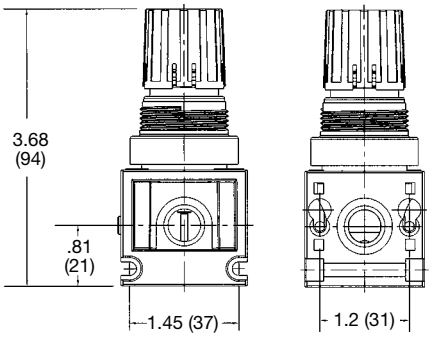
ANSI SYMBOL
(RELIEVING)

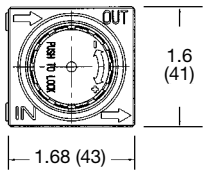



The 14 Series Manifold Regulator allows several regulators to be chained together while maintaining a constant primary pressure to each regulator. This regulator features a dual spring design which covers any possible outlet setting without the need to indicate a specific spring, eliminating confusing options and part numbers. The regulator uses the inner spring for more precise, lower pressures, and the outer spring for middle to high pressures. As the smaller, inner spring is compressed, the larger, outer spring takes over for higher pressures.

Regulators consist of a piston which floats between the main springs (top) and a valve stem (bottom). By turning the adjustment knob clockwise, the main spring is forced onto the piston which, in turn, is pressed onto the valve stem. When the spring force becomes greater than the force of the air pressure in the control chamber below the piston, the valve is forced down and flow begins. As flow continues, the pressure begins to build and air, via the aspirator tube, fills the control chamber. When the underside piston force is greater than the main spring force, the piston is forced upward, causing the main valve to close. The cycle continues in a balanced process of reducing or increasing flow based upon the downstream pressure.

- High flow in compact size
- Locking adjustment knob
- Single pressure range suits any application
- Relieving or non-relieving models
- Can be installed as modular or individual unit
- Standard output pressure 0-125 PSIG




1/4 gauge ports

MOUNTING HOLES
Ø.300 TYP.2 (Ø7.6)

## Specifications

| | 14 Series |
|---|---|
| Temperature Range °F (°C) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | 250 (17) |
| Weight lbs. (kg) | 0.60 (0.27) |
| Body Material | Zinc |
| Nominal Flow Rate SCFM (L/M)* | 40 (1133) |

*Nominal flow at 100 psig (6.9 bar) inlet pressure and 90 psig (6.2bar) set pressure

## How to Order

**MR 14 R - 02 GT**

**Model**
MR = Manifold Regulator

**Series**
14

**Style**
R = Relieving
N = Non-Relieving

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

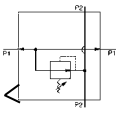
**Options**
G = Gauge
I = 0-25 PSIG Output
L = 0-60 PSIG Output
P = Panel Mount Nut
T = Tamper Resistant

**Port Size**
02 = 1/4



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## MR02 Series



ANSI SYMBOL (Relieving)

### Application

The MR02 Series Miniature Manifold Regulator offers the flexibility necessary for many of today's applications. The MR02 Series allows several regulators to be chained together while maintaining a constant primary pressure to each regulator.

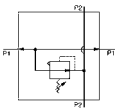
A system equipped with the Miniature Manifold Regulator can help reduce operation costs by reducing unnecessary downstream pressures and improve efficiencies by keeping them in one convenient location for easy adjustment.



MR02R-01G pictured shown assembled and individually

### Features

- Can be installed as an individual or manifold unit
- Standard output pressure 0 -125 PSIG
- 3 available outlet/gauge ports (one in front, one in back, and one in the bottom)
- Integral mounting holes allow for easy panel mounting
- Connects easily without adapters or independent manifold system
- Standard 5 mm tamper resistant adjustment
- Relieving or non-relieving models

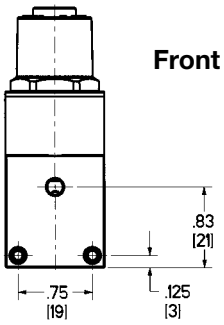


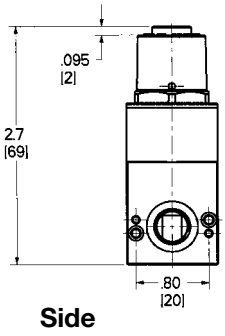
ANSI SYMBOL (Non-Relieving)

### Specifications

| | |
|---|---|
| P1 Ports | 1/8 NPTF |
| Outlet/Gauge Ports | 10-32 UNF |
| Temperature Range ºF (ºC) | 40-120 (4-50) |
| Max. Inlet Pressure PSIG (BAR) | 200 (14) |
| Weight lbs. (g) | 15 (68) |
| **SCFM w/100 PSI inlet set @ 75 | 5 SCFM |
| **SCFM w/100 PSI inlet set @ 60 | 4 SCFM |
| **SCFM w/100 PSI inlet set @ 40 | 3 SCFM |
| Body Material | Aluminum |

** based on a 25% pressure drop from set




### Optional Accessories

| Item | Part No. |
|---|---|
| 23mm Gauge "G" Option | NG23-M |
| 10-32 - 1/8 NPTF Adapter | 134-034 |
| 10-32 - 1/8 O.D Barb Fitting | 134-236 |
| 10-32 - 1/4 O.D Barb Fitting | 134-234 |

Each Regulator includes an R02K assembly kit which includes (1) 10-32 pipe plug, (1) 1/8 pipe plug, (1) P1 port o-ring, (2) connector screws.

### How to Order

**MR 02 R - 01 G**

**Model**
MR = Manifold Regulator

**Series**
02

**Style**
R = Relieving
N = Non-Relieving

**Options**
G = Gauge
I = 0-25 PSI
L = 0-60 PSI

**Port Size**
01 = 1/8
P1 ports are 1/8
outlet/gauge ports are 10-32

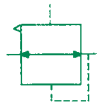
**Threads**
- = NPTF
G = G Tap (BSPP)
R = PT (BSPT)

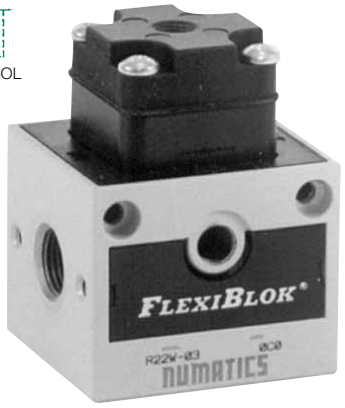


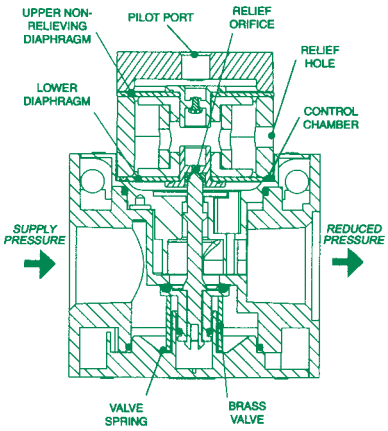
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## R22, R32, R42 Series

- Three convenient sizes
- High flow in compact size
- Can be installed as modular or individual unit
- Standard output pressure 0-125 PSIG
- Relieving or non-relieving models



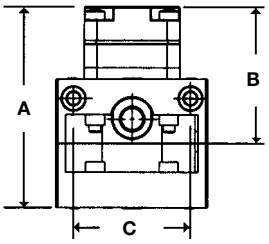



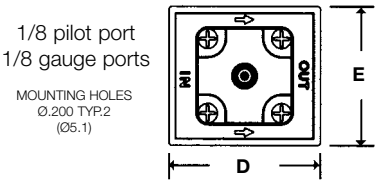




## Specifications

| | 22 Series | 32 Series | 42 Series |
|---|---|---|---|
| Temperature Range °F (°C) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Min. Pilot Pressure PSI (BAR) | 15 (1) | 15 (1) | 15 (1) |
| Max. Pilot Pressure PSI (BAR) | 150 (10.2) | 150 (10.2) | 250 (17.2) |
| Nominal Flow Rate SCFM (L/M)* | 60 (1699) | 110 (3115) | 325 (9203) |
| Weight lbs. (kg) | 0.66 (0.25) | 1.35 (0.50) | 3.85 (1.75) |
| Body Material | Aluminum | Aluminum | Aluminum |

*Nominal flow at 100 psig (6.9 bar) inlet pressure and 80 psig (5.5 bar) set pressure




## Dimensions: Inches (mm)

| Size | A | B | C | D | E |
|---|---|---|---|---|---|
| 22 | 3.12 (79) | 2.12 (55) | 1.83 (46.5) | 2.375 (60.4) | 2.165 (54.9) |
| 32 | 3.93 (100) | 2.58 (65.5) | 3 (76) | 3 (76) | 3 (76) |
| 42 | 3 (76) | 2.601 (66) | 4 (102) | 4 (102) | 4 (102) |

## How to Order

**R 32 W - 04 G**

**Model**
R = Regulator

**Series**
22
32
42

**Style**
W = All Pilot Operated Regulators

**Threads**
- = NPTF
G* = GTap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
G = Gauge
N = Non-Relieving

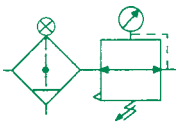
**Port Size**
02 = 1/4 (22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 and 42 Series)
08 = 1 (42 Series)



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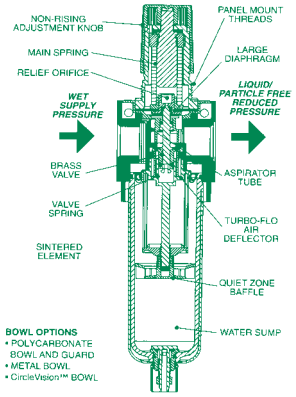
## P14B, P22B, P32B, P42B Series

- Four convenient sizes
- 5 micron element standard (40 micron optional)
- Can be installed as individual or modular unit
- Locking non-rising adjustment knob
- Optional **CircleVision™** sight bowl
- Optional metal bowl (sight glass available on 22, 32 and 42 Series)
- Standard output pressure 0-125 PSIG
- Bowl seal held captive (22, 32, and 42 Series)



ANSI SYMBOL

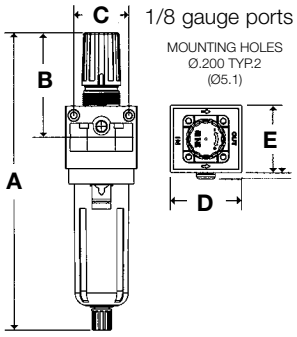





## Specifications

| Bowl | | 14 Series | 22 series | 32 Series | 42 Series |
|---|---|---|---|---|---|
| Temperature Range °F (°C) | | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | Poly C | 150 (10) | 150 (10) | 150 (10) | 150 (10) |
| | Metal | 200 (14) | 200 (14) | 200 (14) | 200 (14) |
| Weight lbs. (kg) | Poly C | 0.75 (0.34) | 0.91 (0.41) | 1.81 (0.82) | 5.05 (2.29) |
| | Metal | 0.80 (0.37) | 1.50 (0.68) | 2.99 (1.34) | 6.15 (2.79) |
| Nominal Flow SCFM (L/M)* | | 40 (1133) | 60 (1699) | 90 (2549) | 300 (8496) |
| Body Material | | Zinc | Aluminum | Aluminum | Aluminum |

*Nominal flow using a 5 micron element, at 100 psig (6.9 bar) inlet pressure and 80 psig (5.5 bar) set pressure




## Dimensions: Inches (mm)

| Size | A | B | C | D | E |
|---|---|---|---|---|---|
| 14 | 7.9 (200) | 2.87 (73) | 1.45 (37) | 1.68 (43) | 1.6 (41) |
| 22 | 9.86 (251) | 3.41 (87) | 1.83 (46.5) | 2.375 (60.4) | 2.165 (54.9) |
| 32 | 12.2 (309) | 4.5 (114) | 2.45 (62) | 3 (76) | 3 (76) |
| 42 | 17.39 (442) | 6.19 (157) | 3.26 (83) | 4 (102) | 4 (102) |

## How to Order

**P 14 B - 02 GIP**

**Model**
P = Particulate/Regulator

**Series**
14 = 1.5 oz Bowl
22 = 3.8 oz Bowl
32 = 8.5 oz Bowl
42 = 8.5 oz Bowl

**Element**
B = 5 Micron Element
A = 40 Micron Element

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

**Port Size**
01 = 1/8 (14 series)
02 = 1/4 (14 or 22 series)
03 = 3/8 (22 series)
04 = 1/2 (22 or 32 series)
06 = 3/4 (32 or 42 series)
08 = 1 (42 series)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
A** = Auto Drain (22, 32, and 42 Series)
B = Flexible Drain
C = CircleVision™ Sight Bowl
G = Gauge
H** = 0-200 PSIG Output (22, 32 and 42 Series)
I = 0-25 PSIG Output
J = External Pulse Drain
L = 0-60 PSIG Output (22, 32 and 42 Series)
M = Metal Bowl (Sight Glass Available 22, 32 and 42 Series)
N = Non-Relieving
P = Panel Mount Nut (14, 22, and 32 Series)
Q = Metal Manual Drain
R = Manual Lever Drain
T = Tamper Resistant
S = Steel T Handle (42 Series)
V = Shut off valve

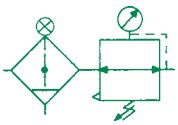
**"A" and "H" options cannot be used together.

Notes:
- To order a piston style particulate filter/regulator, add "P" to the model number.(example: P32BP-04GIP)
- "T" option tamper resistant cannot be used with high pressure "H" option with 42 Series.



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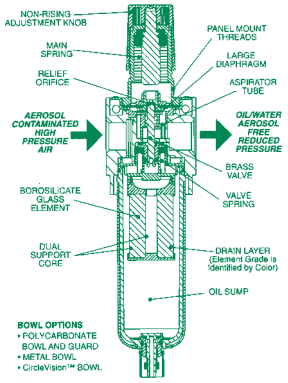
## C14, C22, C32, C42 Series



ANSI SYMBOL

- Four convenient sizes
- Cartridge element design
- Inner/outer support cores prevent element from crushing in either flow direction
- Four element grades available

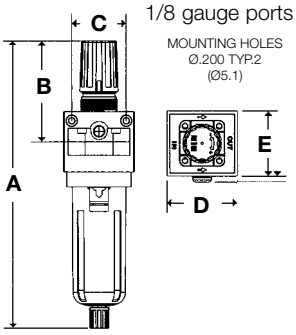





## Specifications

| Bowl | | 14 Series | 22 series | 32 Series | 42 Series |
|---|---|---|---|---|---|
| Temperature Range °F (°C) | | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | Poly C | 150 (10) | 150 (10) | 150 (10) | 150 (10) |
| | Metal | 200 (14) | 200 (14) | 200 (14) | 200 (14) |
| Weight lbs. (kg) | Poly C | 0.80 (0.35) | 0.92 (0.42) | 1.82 (0.83) | 5.05 (2.29) |
| | Metal | 0.85 (0.38) | 1.60 (0.73) | 2.95 (1.34) | 6.15 (2.76) |
| Nominal Flow SCFM (L/M)* | | 20 (560) | 35 (991) | 50 (1416) | 100 (2832) |
| Body Material | | Zinc | Aluminum | Aluminum | Aluminum |

*Nominal flow using a 0.3 micron element, at 100 psig (6.9 bar) inlet pressure and 80 psig (5.5 bar) set pressure




## Dimensions: Inches (mm)

| Size | A | B | C | D | E |
|---|---|---|---|---|---|
| 14 | 7.9 (200) | 2.87 (73) | 1.45 (37) | 1.68 (43) | 1.6 (41) |
| 22 | 9.86 (251) | 3.41 (87) | 1.83 (46.5) | 2.375 (60.4) | 2.165 (54.9) |
| 32 | 12.2 (309) | 4.5 (114) | 2.45 (62) | 3 (76) | 3 (76) |
| 42 | 17.39 (442) | 6.19 (157) | 3.26 (83) | 4 (102) | 4 (102) |

## How to Order

**C 32 C - 06 AGM**

**Model**
C = Coalescer/Regulator

**Series**
14 = 1.5 oz Bowl
22 = 3.8 oz Bowl
32 = 8.5 oz Bowl
42 = 8.5 oz Bowl

**Element**
C = 0.7 Micron Coarse Coalescer
D = 0.3 Micron Fine Coalescer
E = 0.01 Micron Ultra Fine Coalescer
F = Vapor Adsorber

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

**Port Size**
01 = 1/8 (14 series)
02 = 1/4 (14 or 22 series)
03 = 3/8 (22 series)
04 = 1/2 (22 or 32 series)
06 = 3/4 (32 or 42 series)
08 = 1 (42 series)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
A* = Auto Drain (22, 32, and 42 series)
B = Flexible Drain
C = CircleVision™ Sight Bowl
D = 3 Micron, Internal Pleated Filter
G = Gauge
H* = 0-200 PSIG Output
I = 0-25 PSIG Output
J = External Pulse Drain
L = 0-60 PSIG Output
M = Metal Bowl (Sight Glass Available 22, 32 and 42 Series)
N = Non-Relieving
P = Panel Mount Nut
Q = Metal Manual Drain
R = Manual Lever Drain
S = Steel T Handle (42 Series)
T = Tamper Resistant
V = Shut Off Valve

*"A" and "H" options cannot be used together.

Note: To order a piston style coalescing/regulator add "P" to the model number. (ie: C32CP-06AGQ)



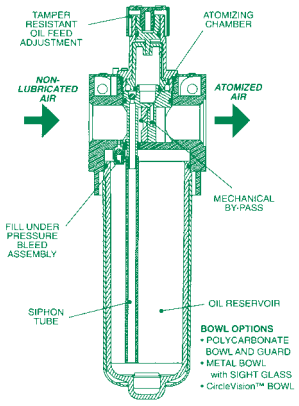
Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.

## L14L, L22L, L32L, L42L Series

- Four convenient sizes
- Lubrication to begin at 2 SCFM
- Can be filled under pressure (32 and 42 series)
- Tamper-resistant knob standard
- Optional CircleVision™ sight bowl
- Optional metal bowl (sight glass available on 22, 32, and 42 series)
- Can be mounted as individual or modular unit
- Button head fill optional on all sizes
- Atomizing chamber develops longer life aerosols

ANSI SYMBOL

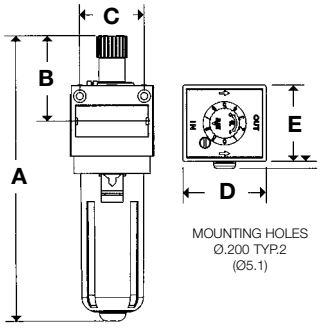





## Specifications

| | 14 Series | 22 Series | 32 Series | 42 Series |
|---|---|---|---|---|
| Temperature Range °F (°C) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Max. Pressure PSIG (BAR) | 200 (14) | 200 (14) | 200 (14) | 200 (14) |
| Nominal Flow Rate SCFM (L/M)* | 30 (850) | 95 (2690) | 230 (6513) | 240 (6796) |
| Weight lbs. (kg) | 0.60 (0.27) | 0.69 (0.31) | 1.37 (0.62) | 4.15 (2.18) |
| Body Material | Zinc | Aluminum | Aluminum | Aluminum |

*Nominal flow at 80 psig (5.5 bar) inlet pressure and 5 psig (0.35 bar) pressure drop




## Dimensions: Inches (mm)

| Size | A | B | C | D | E |
|---|---|---|---|---|---|
| 14 | 6.65 (169) | 2.24 (88) | 1.45 (37) | 1.68 (43) | 1.6 (41) |
| 22 | 8.12 (206) | 2.41 (61) | 1.83 (46.5) | 2.375 (60.4) | 2.165 (54.9) |
| 32 | 9.65 (245) | 2.72 (70) | 2.45 (62) | 3 (76) | 3 (76) |
| 42 | 13.27 (337) | 2.72 (70) | 3.26 (83) | 4 (102) | 4 (102) |

## How to Order

**L 22 L - 02 M**

**Model**
L = Lubricator

**Series**
14 = 1.5 oz Bowl
22 = 3.8 oz Bowl
32 = 3.8 oz Bowl
42 = 3.8 oz Bowl

**Style**
L = Standard Lubricators

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
C = CircleVision Sight Bowl
F = Button Head Fill
K = Drain on Bowl
M = Metal Bowl (Sight Glass Available on 22, 32, and 42 Series)

**Port Size**
01 = 1/8 (14 series)
02 = 1/4 (14 or 22 series)
03 = 3/8 (22 series)
04 = 1/2 (22 or 32 series)
06 = 3/4 (32 or 42 series)
08 = 1 (42 series)

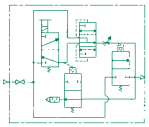
Note: F and K options cannot be used together.

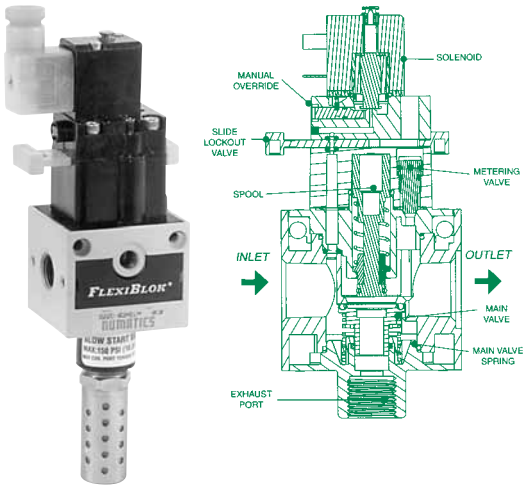


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# Solenoid Soft Start Quick Exhaust Valve

numatics®


ANSI SYMBOL



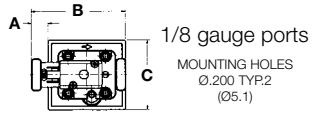

## S22C, S32C, S42C Series

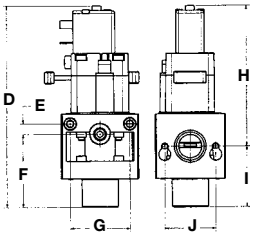
- Three convenient sizes
- Lockout feature prevents unauthorized pressurization of system
- High exhaust capacity for quick depletion of pressure
- High inlet to outlet flow capability
- Connects easily to FLEXIBLOK® Modular system
- Incorporated metering valve controls how quickly downstream pressure is reached, which controls the slow start feature

## Specifications

| | 22 Series | 32 Series | 42 Series |
|---|---|---|---|
| Exhaust Ports NPTF (Gauge Ports NPTF) | 1/2 (1/8) | 1/2 (1/4) | 3/8: 3 exh. ports (1/4) |
| Temperature Range °F (°C) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Min. Pressure PSI (BAR) | 60 (4) | 60 (4) | 20 (1.38) |
| Max. Pressure PSIG (BAR) | 150 (10) | 150 (10) | 150 (10) |
| Weight lbs. (kg) | 0.94 (0.43) | 1.56 (0.71) | 4.35 (1.97) |
| Body Material | Aluminum | Aluminum | Aluminum |

| Wattage and Amperage | |
|---|---|
| 110V AC | 1.42 watts / 0.022 amps |
| 230V AC | 2.00 watts / 0.016 amps |
| 24V AC | 2.00 watts / 0.011 amps |
| 24V DC | 2.00 watts / 0.080 amps |




| Series | Cv Flow Factor | |
|---|---|---|
| | In/Out | Out/Exhaust |
| 22 Series 1/4 | 2.0 | 1.2 |
| 22 Series, 3/8 | 2.87 | 1.38 |
| 22 Series, 1/2 | 3.62 | 1.38 |
| 32 Series, 1/2 | 5.24 | 3.01 |
| 32 Series, 3/4 | 6.47 | 3.14 |
| 42 Series, 1 | 8.0 | 5.0 |

## Dimensions: Inches (mm)

| Size | A | B | C | D | F | G |
|---|---|---|---|---|---|---|
| 22 | 0.51 (13) | 2.9 (73) | 2.1 (65) | 6.3 (160) | 2.2 (58) | 1.8 (46) |
| 32 | 0.26 (6) | 3.25 (82) | 3.0 (76) | 6.9 (168) | 2.7 (68) | 2.45 (62) |
| 42 | N/A | 4.0 (102) | 4.0 (102) | 7.4 (188) | 2.0 (51) | 3.26 (83) |

## How to Order

**S 32 C - 06 B EGM**

**Model**
S = Solenoid Soft Start

**Series**
22
32
42

**Style**
C = Standard Solenoid Soft Start

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
E = 110V AC 50/60 Hz
F = 230V AC 50/60 Hz
G = Gauge
J = 24V AC 50/60 Hz Coil
K = 24V DC Coil
L = Plug with Light
M = Muffler
N = No manual Override
P = Black Plug Assembly
Q = 4 Pin Micro Connector
X = No Slide

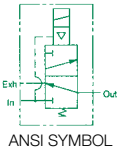
**Revision Level**
B

**Port Size**
02 = 1/4 (22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 or 42 Series)
08 = 1 (42 Series)



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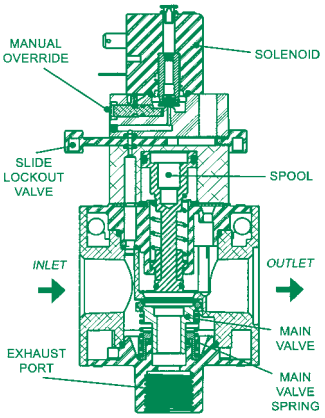
## S14E, S22E, S32E, S42E Series



ANSI SYMBOL

- Four convenient sizes
- Lockout feature (located in slide valve) prevents unauthorized pressurization of system (22, 32, and 42 Series)
- Standard manual override (optional without manual override)
- Low-wattage coil
- High exhaust capacity for quick depletion of pressure
- High inlet to outlet flow capability
- Connects easily to FLEXIBLOK® Modular system



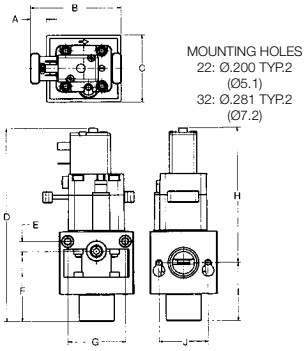




## Specifications

| | 14 Series | 22 Series | 32 Series | 42 Series |
|---|---|---|---|---|
| Exhaust Ports NPTF (Gauge Ports NPTF) | 1/8 (10-32 UNF) | 1/2 (1/8) | 1/2 (1/4) | 3/4 (1/4) |
| Temperature Range °F (°C) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Min. Pressure PSI (BAR) | 40 (2.76) | 40 (2.76) | 40 (2.76) | 20 (1.38) |
| Max. Pressure PSIG (BAR) | 150 (10) | 150 (10) | 150 (10) | 150 (10) |
| Weight lbs. (kg) | 1.25 (0.57) | 1.15 (0.53) | 1.75 (0.79) | 3.45 (1.56) |
| Body Material | Zinc | Aluminum | Aluminum | Aluminum |

| Series | Cv Flow Factor | |
|---|---|---|
| | In/Out | Out/Exhaust |
| 14 Series 1/4 | 1.55 | 1.10 |
| 22 Series, 1/4 | 2.0 | 1.2 |
| 22 Series, 3/8 | 2.87 | 1.38 |
| 22 Series, 1/2 | 3.62 | 1.32 |
| 32 Series, 1/2 | 5.24 | 3.01 |
| 32 Series, 3/4 | 6.47 | 3.14 |
| 42 Series, 1 | 8.0 | 5.0 |

| Wattage and Amperage | |
|---|---|
| 110V AC | 1.42 watts / 0.022 amps |
| 230V AC | 2.00 watts / 0.016 amps |
| 24V AC | 2.00 watts / 0.011 amps |
| 24V DC | 2.00 watts / 0.080 amps |



MOUNTING HOLES
22: Ø.200 TYP.2 (Ø5.1)
32: Ø.281 TYP.2 (Ø7.2)

## Dimensions: Inches (mm)

| Size | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 22 | .51 (13) | 2.9 (73) | 2.1 (65) | 6.3 (160) | .32 (8) | 2.2 (58) | 1.8 (46) | 4.4 (112) | 1.9 (48) | 1.5 (40) |
| 32 | .25 (6) | 3.2 (82) | 3.0 (76) | 6.9 (168) | .5 (13) | 2.7 (68) | 2.4 (61) | 4.7 (121) | 2.1 (55) | 2.0 (51) |
| 42 | N/A | 4.0 (102) | 4.0 (102) | 7.4 (188) | .49 (12) | 2.47 (63) | 3.26 (83) | 5.4 (127) | 2.0 (51) | 3.2 (81) |

## How to Order

**S 32 E - 04 B EGM**

**Model**
S = Solenoid Quick Exhaust

**Series**
14
22
32
42

**Style**
E = Standard Solenoid Quick Exhaust Valve

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Port Size**
01 = 1/8 (14 Series)
02 = 1/4 (14 or 22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 or 42 Series)
08 = 1 (42 Series)

**Revision Level**
B

**Options**
E = 110V AC 50/60 Hz
F = 230V AC 50/60 Hz
G = Gauge
J = 24V AC 50/60 Hz Coil
K = 24V DC Coil
L = Plug with Light
M = Muffler
N = No manual Override
P = Standard Black Plug Assembly
Q = 4 Pin Micro Connector
X = No Slide



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# Internally/Externally Pilot Operated Quick Exhaust Valves



## Pilot Operated "Soft Start" Quick Exhaust Valves

External Pilot - Style "C" – Available in three series S22, S32, S42

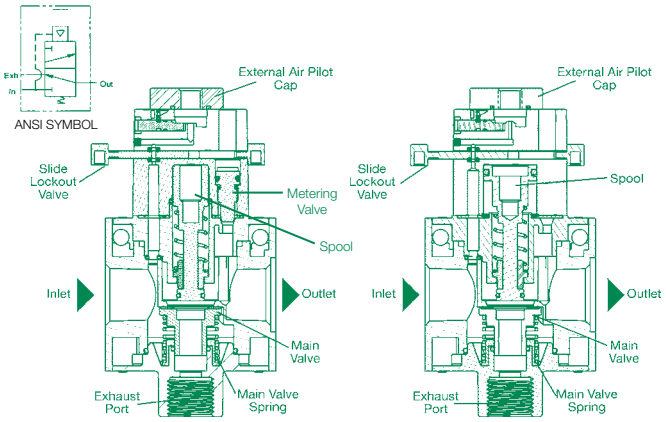
## Pilot Operated "Soft Start" Quick Exhaust Valves

Internal Pilot - Style "P" – Available in three series S22, S32, S42

## Pilot Operated "Quick Exhaust" Valves

External Pilot - Style "E" – Available in four series S14, S22, S32, S42

- Lockout feature (located in yellow slide valve) prevents unauthorized system pressurization. Available in three series S22, S32, S42 only
- High flow capacity Inlet to Outlet
- High exhaust capacity for quick depletion of downstream pressure
- Connects easily to FLEXIBLOK® Modular FRL systems




Air Piloted Soft Start Quick Exhaust Valve

Air Piloted Quick Exhaust Valve

## Specifications

| | 14 Series | 22 Series | 32 Series | 42 Series |
|---|---|---|---|---|
| Exhaust Ports NPTF (Gauge Ports NPTF) | 1/4 (10-32 UNF) | 1/2 (1/8) | 1/2 (1/4) | 3/4 (1/4) |
| Temperature Range °F (°C) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) | 40-120 (4-50) |
| Min. Pressure PSI (BAR) | 40 (2.76) | 40 (2.76) | 40 (2.76) | 40 (2.76) |
| Max. Pressure PSIG (BAR) | 150 (10) | 150 (10) | 150 (10) | 150 (10) |
| Weight, lbs. (kg.) | 1.25 (0.57) | 1.15 (0.53) | 1.75 (0.79) | 3.45 (1.56) |
| Body Material | Zinc | Aluminum | Aluminum | Aluminum |

| Series | Cv | |
|---|---|---|
| | In/Out | Out/Exhaust |
| 14 Series 1/4 | 1.55 | 1.10 |
| 22 Series, 1/4 | 2.0 | 1.2 |
| 22 Series, 3/8 | 2.87 | 1.38 |
| 22 Series, 1/2 | 3.62 | 1.32 |
| 32 Series, 1/2 | 5.24 | 3.01 |
| 32 Series, 3/4 | 6.47 | 3.14 |
| 42 Series, 1 | 8.0 | 5.0 |

## How to Order

**S 22 E - 04 B GMW**

**Model**
S = Internally or Externally Pilot Operated Quick Exhaust Valves

**Series**
14
22
32
42

**Style**
C = Soft Start Quick Exhaust Valves (External Pilot 22, 32, 42 Series)
P = Soft Start Quick Exhaust Valves (Internal Pilot 22, 32, 42 Series)
E = Quick Exhaust Valves (External Pilot 14, 22, 32, 42 Series)

**Threads**
- = NPTF
G* = G Tap (BSPP)
R = PT (BSPT)

*Conforms to ISO Standards 1179-1 and 228-1

**Options**
G = Gauge
M = Muffler
W = External Air Pilot (Use for styles "C & E")
X = No Slide on Valve

**Revision Level**
B

**Port Size**
01 = 1/8 (14 Series)
02 = 1/4 (14 or 22 Series)
03 = 3/8 (22 Series)
04 = 1/2 (22 or 32 Series)
06 = 3/4 (32 and 42 Series)
08 = 1 (42 Series)

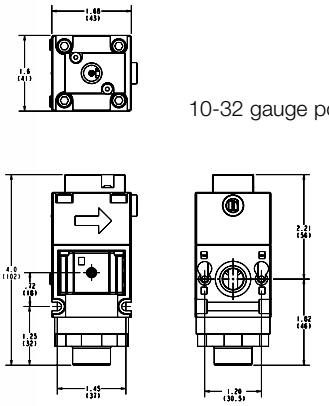
Note: How to order examples for the three different models:
"C" Externally Piloted Soft Start Quick Exhaust Valve: eg S22C-04BW
"P" Internally Piloted Soft Start Quick Exhaust Valve: eg S22P-04
"E" Externally Piloted Quick Exhaust Valve: eg S22E-04BW
" C & E "externally pilot operated valves are not field convertible to solenoid operated. Consult factory.



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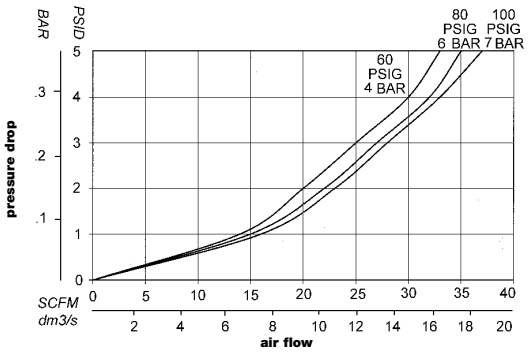
## 14 Series Internally/Externally Piloted Quick Exhaust Valve





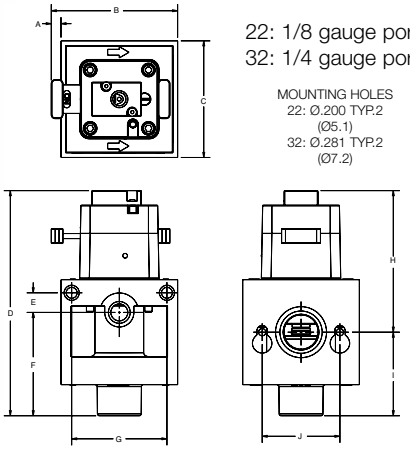
10-32 gauge ports

**S14*-04BW (14 Series Pilot Operated Quick Exhaust Valve)**




## 22 and 32 Series Internally/Externally Piloted Quick Exhaust Valve

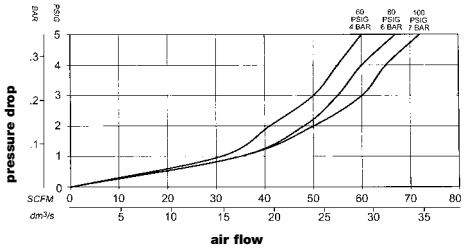




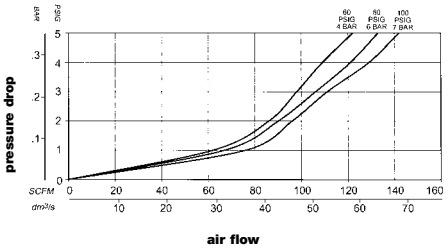
22: 1/8 gauge ports
32: 1/4 gauge ports

MOUNTING HOLES
22: Ø.200 TYP.2
(Ø5.1)
32: Ø.281 TYP.2
(Ø7.2)

**S22*-04BW (22 Series Pilot Operated Soft Start Quick Exhaust Valve)**




**S32*-06BW (32 Series Pilot Operated Soft Start Quick Exhaust Valve)**



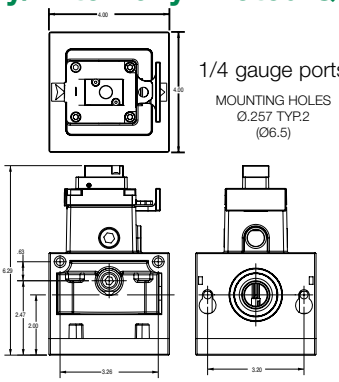

### Dimensions: Inches (mm)

| | A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| 22 Series | .51 (13) | 2.9 (73) | 2.1 (65) | 5.2 (132) | .32 (8) | 2.2 (58) | 1.8 (46) | 3.3 (84) | 1.9 (48) | 1.5 (38) |
| 32 Series | .25 (6) | 3.2 (82) | 3.0 (76) | 5.8 (147) | .5 (13) | 2.7 (68) | 2.4 (61) | 3.6 (93) | 2.6 (55) | 2.0 (51) |

## 42 Series Internally/Externally Piloted Quick Exhaust Valve



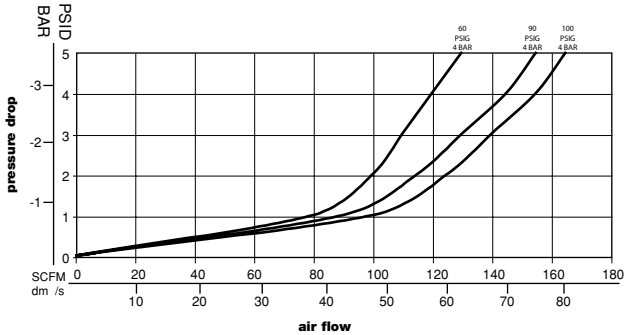
* Muffler not included



1/4 gauge ports

MOUNTING HOLES
Ø.257 TYP.2
(Ø6.5)

**S42*-08BW (42 Series Pilot Operated Soft Start Quick Exhaust Valve)**






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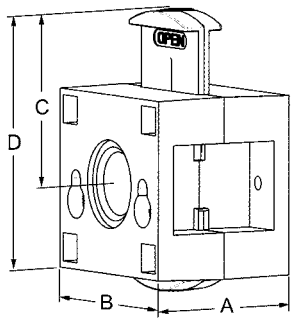
## VS14, VS22, VS32, VSL42 Series

The FLEXIBLOK® Shut-Off Valve is an easy and inexpensive way to add shut off capability to an FRL. The valve includes a lockout feature designed for a padlock to prevent unauthorized downstream pressurization during maintenance. The shut off valve is usually mounted first in the assembly.

**Max. inlet pressure:** 200 PSI (13.7 bar)
250 PSI (17 bar) - 42 Series

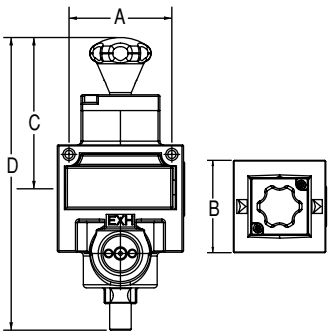
- Relieves downstream pressure when closed
- Lockout feature prevents unauthorized pressurization of system

14, 22, 32 Series




| | Model #s | | | Dimensions | | | | | Flow Rates | |
|---|---|---|---|---|---|---|---|---|---|---|
| | NPTF | BSPP | BSPT | A | B | C | D | Ports | SCFM | L/M |
| 14 | VS14-01 | VS14G01 | VS14R01 | 1.63 (41) | 1.6 (41) | 1.6 (41) | 3 (76) | 1/8 | 33 | 934 |
| | VS14-02 | VS14G02 | VS14R02 | 1.63 (41) | 1.6 (41) | 1.6 (41) | 3 (76) | 1/4 | | |
| 22 | VS22-02 | VS22G02 | VS22R02 | 2.0 (50) | 2.16 (55) | 1.86 (47) | 3.1 (79) | 1/4 | 67 | 1897 |
| | VS22-03 | VS22G03 | VS22R03 | 2.0 (50) | 2.16 (55) | 1.86 (47) | 3.1 (79) | 3/8 | | |
| | VS22-04 | VS22G04 | VS22R04 | 2.0 (50) | 2.16 (55) | 1.86 (47) | 3.1 (79) | 1/2 | | |
| 32 | VS32-04 | VS32G04 | VS32R04 | 2.25 (57) | 3.0 (76) | 2.57 (65) | 4.2 (107) | 1/2 | 132 | 3738 |
| | VS32-06 | VS32G06 | VS32R06 | 2.25 (57) | 3.0 (76) | 2.57 (65) | 4.2 (107) | 3/4 | | |
| 42 | VSL42-06 | VSL42G06 | VSL42R06 | 3.2 (83) | 4.0 (102) | 4.8 (122) | 9.3 (236) | 3/4 | 155 | 4389 |
| | VSL42-08 | VSL42G08 | VSL42R08 | 3.2 (83) | 4.0 (102) | 4.8 (122) | 9.3 (236) | 1 | | |

42 Series



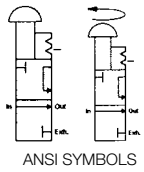

NOTE: Add "N" to end of model number for non-relieving model (i.e. VS14-01N)
(Not available on 42 series models).

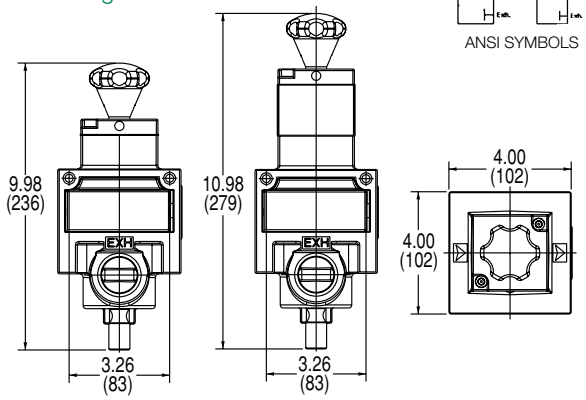


## Quick Exhaust Lockout Valve
### MVL42/MVT42 Series

- Rugged all metal design
- Placed last in an air preparation assembly. To be used as a system quick exhaust valve.

*Additional information can be found in the Shut Off/Lock out valve section of the catalog.


ANSI SYMBOLS




## Specifications

Temperature Range: 40-120°F (4-50°C)
Max. Pressure: 250 PSIG (17 bar)
Weight: 4.95 lbs (2.25 kg)

## CV Ratings

| Model # | Cv In/Out | Cv Out/Exhaust |
|---|---|---|
| MVL42-06Y | 11.5 | 9 |
| MVL42-08Y | 12.5 | 10 |
| MVT42-06Y | 11.5 | 9 |
| MVT42-08Y | 12.5 | 10 |

## How to Order

MVL 42 – 08 _Y

**Model**
MVL = Standard
MVT = Slo-Start™ Feature

**Series**
42

**Options**
A = Metal Muffler (ie MVT42-08AY)
B = Scissor Lockout (ie MVT42-08BY)

**Port Size**
06 = 3/4
08 = 1

**Threads**
– = NPTF
G = G Tap (BSPP)
(Conforms to ISO Standards 1179-1 and 228-1)
R = PT (BSPT)

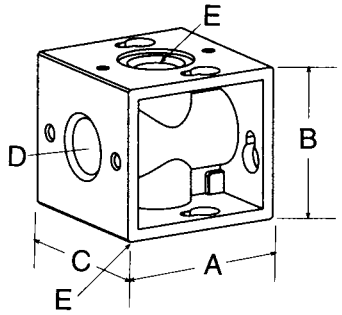


Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.

## DK14, DK22, DK32, DK42 Series - Diverter Blocks

Designed to give FLEXIBLOK® components total versatility, the diverter block mounts directly in line with the FRL combination. Additional components can then be manifold mounted in a compact manner that doesn't cause excessive pressure drop. There are two available tapped ports per unit.

**Max. inlet pressure:** 200 PSI (13.7 bar) (14, 22, 32 Series)
250 PSI (17 bar) (42 Series)

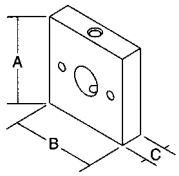



| Series | Model # | | | Dimensions inches (mm) | | | | | Ports |
|---|---|---|---|---|---|---|---|---|---|
| | NPTF | BSPP | BSPT | A | B | C | D | E | |
| 14 | DK14-02 | DK14G02 | DK14R02 | 1.72 (44) | 1.54 (39) | 1.6 (41) | 1/4 | 1/8 | Tapped 1/4 NPTF In & Out with two 1/8 NPTF branches |
| 22 | DK22-03 | DK22G03 | DK22R03 | 2.16 (55) | 2.00 (50) | 2.16 (55) | 1/2 | 3/8 | Tapped 1/2 NPTF in & out with two 3/8 NPTF branches |
| 32 | DK32-04 | DK32G04 | DK32R04 | 3.00 (76) | 2.70 (69) | 3.00 (76) | 3/4 | 1/2 | Tapped 3/4 NPTF in & out with two 1/2 NPTF branches |
| 42 | DK42-06 | DK42G06 | DK42R06 | 4.00 (102) | 3.40 (87) | 4.00 (102) | 3/4 | 3/4 | In & Out and branches 3/4 with two 3/4 NPTF branches |
| 42 | DK42-08 | DK42G08 | DK42R08 | 4.00 (102) | 3.40 (87) | 4.00 (102) | 1 | 1 | In & Out and branches 1 with two 1 NPTF branches |

## HK14, HK22, HK32 Series - Diverter Plates

Diverter plates are designed to provide air signals in a compact space. Used individually or in combination, they can be used with gauges or switches to determine a pressure or pressure signal.

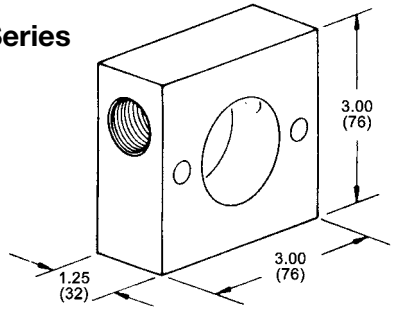
**Max. inlet pressure:** 200 PSI (13.7 bar)




| Series | Model # | | | Dimensions inches (mm) | | | Outlet Port | Application |
|---|---|---|---|---|---|---|---|---|
| | NPTF | BSPP | BSPT | A | B | C | | |
| 14 | HK14-01 | HK14G01 | HK14R01 | 1.54 (39) | 1.50 (38) | .75 (19) | 1/8 | Mounts between two units |
| 22 | HK22-01 | HK22G01 | HK22R01 | 2.00 (51) | 2.15 (55) | .75 (19) | 1/8 | Mounts between two units |
| 32 | HK32-01 | HK32G01 | HK32R01 | 3.00 (76) | 3.00 (76) | .75 (19) | 1/8 | Mounts between two units |

## Rear-Ported End Plates

### MR32 Series




Available only in the 32 Series, the Rear-Ported End Plate allows an FRL to be mounted flush with a surface and the piping to exit the rear of the combination.

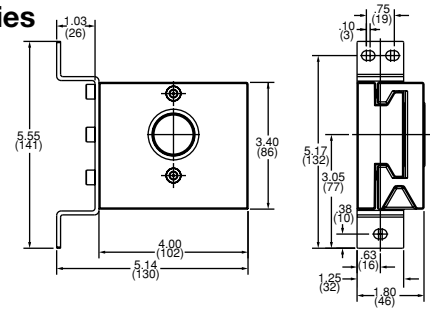
**Max. inlet pressure:** 200 PSI (13.7 bar)

### How to Order

| Model Number | Style | NPTF | Description |
|---|---|---|---|
| MR32A | A | 1/2 | Left rear porting |
| MR32B | B | 1/2 | Right side rear porting |
| MR32AB | A/B | 1/2 | Both rear ported plates |

## End Plates

### MK42 Series




The 42 series easy slide end plate and mounting bracket kit is a unique option allowing a full FRL assembly to be quickly added or removed.

**Max. inlet pressure:** 250 PSI (17 bar)

### How to Order

| Port Size | Model # | | |
|---|---|---|---|
| | NPTF | BSPP | BSPT |
| 3/4 | MK42AB-06 | MK42ABG06 | MK42ABR06 |
| 1 | MK42AB-08 | MK42ABG08 | MK42ABR08 |



Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.

## Bowl Drain Options

### Automatic Float Drain - 'A' Option



The Auto Float Drain is installed into the bottom of the filter bowl. As the liquid level inside the bowl increases, the tire-like float lifts, allowing the liquid to drain. This drain should not be used in applications exceeding 175 PSI.

| Model | For Series |
|---|---|
| AKF00 | 22, 32, 42 Series Autodrain only |
| AKF02 | 22, 32, 42 Series (inc. drain, bushing, o-ring) |

### Flexible Drain - 'B' Option



The Flexible Drain is as easy to use as pushing the stem to one side and allowing contents to expel. A popular option due to low cost and ease of use. This drain should not be used in applications exceeding 125 PSI.

| Model | For Series |
|---|---|
| BKF02 | 14, 22, 32, 42 Series (inc. flexible rubber exterior and inner stem) |

### External Pulse Drain - 'J' Option



The External Pulse Drain is designed for use in the 12, 14 and 42 Series bowl but also works with the 22 and 32 Series. This inexpensive and reliable drain features an incorporated barbed fitting which fits 3/16 ID tubing for easy drainage of liquid and contaminant.

| Model | For Series |
|---|---|
| JKF02 | 12,14, 22, 32, 42 Series (includes bushing kit) |
| IDF-01 | drain only |

### Metal Manual Drain - 'Q' Option



The Metal Manual Drain is a newer drain option for the FLEXIBLOK® line. Simply turn the drain counter-clockwise to expel bowl contents. Standard on 50 and 70 Series.

| Model | For Series |
|---|---|
| QKF02 | 14, 22, 32, 42 Series (inc. drain, retaining clip, bushing, o-ring) |

### Manual Lever Drain - 'R' Option



The Manual Lever Drain allows for convenience and ease of use. Press down on the white lever to manually drain bowl contents. Available for all FLEXIBLOK® filters.

| Model | For Series |
|---|---|
| RKF02 | 14, 22, 32, 42 Series Filters (inc. drain, bushing, clip, o-ring) |

### Manual Drain (Standard):

Manual Drain (Standard): This standard product is equipped with an internal barb fitting (1/4" I.D.) for drain tube connection.



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# StockBlok FRLs in standard combinations

**StockBlok** assemblies utilize one model number for standard configurations, complete with gauges. Each component is factory assembled and tested.

Each of the standard **StockBlok** combinations is a complete assembly. Bowl, drain, and fill options are available where applicable. Additional options are not available and, if required, components can be ordered as a **ModuBlok**™ combination (see page 29).

To order any of the **StockBlok** models without the Shut-Off Valve, replace the “V” in the part number with an “X” (i.e. M22-03XFCXX).

See individual component pages for specifications and dimensions.

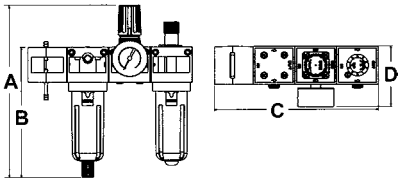


*All **StockBlok** model # assemblies on the next few pages are called out as NPT. For BSPP models replace the "-" with a "G". For BSPT models replace "-" with an "R"

## Shut Off/Particulate Filter/Regulator/Lubricator (with Gauge)



| Model # | Shut Off | Particulate Filter | Regulator | Lubricator |
|---|---|---|---|---|
| M14-01VFRLX | VS14-01 | F14B-01 | R14R-01G | L14L-01 |
| M14-02VFRLX | VS14-02 | F14B-02 | R14R-02G | L14L-02 |
| M22-02VFRLX | VS22-02 | F22B-02 | R22R-02G | L22L-02 |
| M22-03VFRLX | VS22-03 | F22B-03 | R22R-03G | L22L-03 |
| M22-04VFRLX | VS22-04 | F22B-04 | R22R-04G | L22L-04 |
| M32-04VFRLX | VS32-04 | F32B-04 | R32R-04G | L32L-04 |
| M32-06VFRLX | VS32-06 | F32B-06 | R32R-06G | L32L-06 |
| M42-06VFRLX | VSL42-06 | F42B-06 | R42R-06G | L42L-06 |
| M42-08VFRLX | VSL42-08 | F42B-08 | R42R-08G | L42L-08 |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 6.72 (172) **D** 3.1 (74)

**22 Series:**
**A** 10.02 (255) **B** 7.62 (194) **C** 9.32 (237) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 11.25 (286) **D** 4.10 (104)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 16.0 (406) **D** 5.3 (135)

* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFRLX).

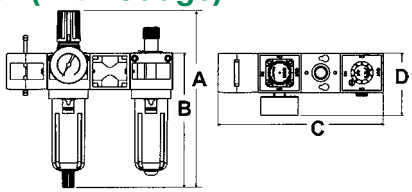
**A** = Auto Drain (22, 32, 42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**J** = External Pulse Drain

**M** = Metal Bowls w/ Sight Glass
**F** = Lubricator Quick Fill
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

## Shut Off/Particulate Filter-Regulator/Diverter Block/Lubricator (with Gauge)



| Model # | Shut Off | Particulate Filter-Regulator | Diverter Block | Lubricator |
|---|---|---|---|---|
| M14-01VPDLX | VS14-01 | P14B-01G | DK14-02 | L14L-01 |
| M14-02VPDLX | VS14-02 | P14B-02G | DK14-02 | L14L-02 |
| M22-02VPDLX | VS22-02 | P22B-02G | DK22-03 | L22L-02 |
| M22-03VPDLX | VS22-03 | P22B-03G | DK22-03 | L22L-03 |
| M22-04VPDLX | VS22-04 | P22B-04G | DK22-03 | L22L-04 |
| M32-04VPDLX | VS32-04 | P32B-04G | DK32-04 | L32L-04 |
| M32-06VPDLX | VS32-06 | P32B-06G | DK32-04 | L32L-06 |
| M42-06VPDLX | VSL42-06 | P42B-06G | DK42-06 | L42L-06 |
| M42-08VPDLX | VSL42-08 | P42B-08G | DK42-08 | L42L-08 |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 6.72 (172) **D** 3.1 (74)

**22 Series:**
**A** 9.93 (252) **B** 7.62 (194) **C** 9.11 (231) **D** 3.41 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 11.25 (286) **D** 4.10 (104)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 16.0 (406) **C** 5.3 (135)

* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08VPDLX).

**A** = Auto Drain (22,32,42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**J** = External Pulse Drain

**M** = Metal Bowls w/ Sight Glass
**F** = Lubricator Quick Fill
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

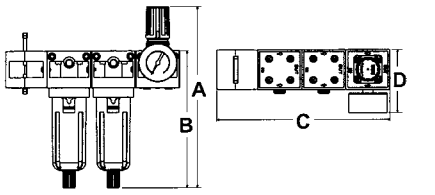


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## Shut Off/Particulate Filter/Coalescing Filter/Regulator (with Gauge)



| Model # | Shut Off | Particulate Filter | Coalescing Filter | Regulator |
|---|---|---|---|---|
| M14-01VFFRX | VS14-01 | F14B-01 | F14D-01 | R14R-01G |
| M14-02VFFRX | VS14-02 | F14B-02 | F14D-02 | R14R-02G |
| M22-02VFFRX | VS22-02 | F22B-02 | F22D-02 | R22R-02G |
| M22-03VFFRX | VS22-03 | F22B-03 | F22D-03 | R22R-03G |
| M22-04VFFRX | VS22-04 | F22B-04 | F22D-04 | R22R-04G |
| M32-04VFFRX | VS32-04 | F32B-04 | F32D-04 | R32R-04G |
| M32-06VFFRX | VS32-06 | F32B-06 | F32D-06 | R32R-06G |
| M42-06VFFRX | VSL42-06 | F42B-06 | F42D-06 | R42R-06G |
| M42-08VFFRX | VSL42-08 | F42B-08 | F42D-08 | R42R-08G |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 6.72 (172) **D** 3.1 (79)

**22 Series:**
**A** 10.02 (255) **B** 7.62 (194) **C** 9.30 (237) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 11.25 (286) **D** 4.10 (104)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 16.0 (406) **D** 5.3 (135)

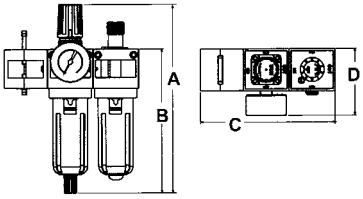
* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFFRX).

**A** = Auto Drain (22,32,42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glass
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

## Shut Off/Coalescing Filter-Regulator/Lubricator (with Gauge)



| Model # | Shut Off | Coalescing Filter-Regulator | Lubricator |
|---|---|---|---|
| M14-01VCLXX | VS14-01 | C14D-01G | L14L-01 |
| M14-02VCLXX | VS14-02 | C14D-02G | L14L-02 |
| M22-02VCLXX | VS22-02 | C22D-02G | L22L-02 |
| M22-03VCLXX | VS22-03 | C22D-03G | L22L-03 |
| M22-04VCLXX | VS22-04 | C22D-04G | L22L-04 |
| M32-04VCLXX | VS32-04 | C32D-04G | L32L-04 |
| M32-06VCLXX | VS32-06 | C32D-06G | L32L-06 |
| M42-06VCLXX | VSL42-06 | C42D-06G | L42L-06 |
| M42-08VCLXX | VSL42-08 | C42D-08G | L42L-08 |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 5.04 (129) **D** 3.1 (79)

**22 Series:**
**A** 7.93 (252) **B** 7.62 (194) **C** 6.95 (177) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 8.25 (210) **D** 4.10 (103)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 12.0 (305) **D** 3.5 (135)

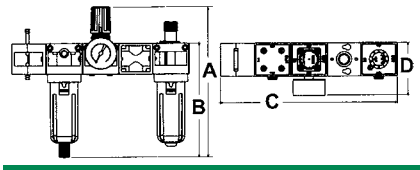
* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFRLX).

**A** = Auto Drain (22, 32, 42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**D** = 3 Micron Internal Prefilter
**E** = Endplates (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glass
**F** = Lubricator Quick Fill
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

## Shut Off/Particulate Filter/Regulator/Diverter Block/Lubricator (with Gauge)



| Model # | Shut Off | Particulate Filter | Regulator | Diverter Block | Lubricator |
|---|---|---|---|---|---|
| M14-01VFRDL | VS14-01 | F14B-01 | R14R-01G | DK14-02 | L14L-01 |
| M14-02VFRDL | VS14-02 | F14B-02 | R14R-02G | DK14-02 | L14L-02 |
| M22-02VFRDL | VS22-02 | F22B-02 | R22R-02G | DK22-03 | L22L-02 |
| M22-03VFRDL | VS22-03 | F22B-03 | R22R-03G | DK22-03 | L22L-03 |
| M22-04VFRDL | VS22-04 | F22B-04 | R22R-04G | DK22-03 | L22L-04 |
| M32-04VFRDL | VS32-04 | F32B-04 | R32R-04G | DK32-04 | L32L-04 |
| M32-06VFRDL | VS32-06 | F32B-06 | R32R-06G | DK32-04 | L32L-06 |
| M42-06VFRDL | VSL42-06 | F42B-06 | R42R-06G | DK42-06 | L42L-06 |
| M42-08VFRDL | VSL42-08 | F42B-08 | R42R-08G | DK42-08 | L42L-08 |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 8.4 (215) **D** 3.1 (79)

**22 Series:**
**A** 10.02 (255) **B** 7.62 (193) **C** 11.50 (292) **D** 3.42 (87)

**32 Series**
**A** 12.32 (313) **B** 9.12 (232) **C** 14.25 (362) **D** 4.10 (103)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 20.0 (508) **D** 3.5 (135)

* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFRLX).

**A** = Auto Drain (22, 32, 42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**D** = 3 Micron Internal Prefilter
**E** = Endplates (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glass
**F** = Lubricator Quick Fill
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

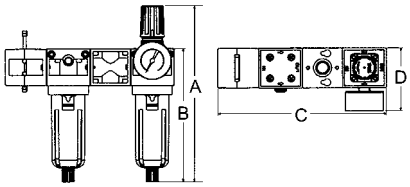


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## Shut Off/Particulate Filter/Diverter Block/Coalescing Filter-Regulator (with Gauge)



| Model # | Shut Off | Particulate Filter | Diverter Block | Coalescing Filter-Regulator |
|---|---|---|---|---|
| M14-01VFDCX | VS14-01 | F14B-01 | DK14-02 | C14D-01G |
| M14-02VFDCX | VS14-02 | F14B-02 | DK14-02 | C14D-02G |
| M22-02VFDCX | VS22-02 | F22B-02 | DK22-03 | C22D-02G |
| M22-03VFDCX | VS22-03 | F22B-03 | DK22-03 | C22D-03G |
| M22-04VFDCX | VS22-04 | F22B-04 | DK22-03 | C22D-04G |
| M32-04VFDCX | VS32-04 | F32B-04 | DK32-04 | C32D-04G |
| M32-06VFDCX | VS32-06 | F32B-06 | DK32-04 | C32D-06G |
| M42-06VFDCX | VSL42-06 | F42B-06 | DK42-06 | C42D-06G |
| M42-08VFDCX | VSL42-08 | F42B-08 | DK42-08 | C42D-08G |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 6.72 (172) **D** 3.1 (79)

**22 Series:**
**A** 9.93 (252) **B** 7.61 (193) **C** 9.11 (231) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 11.25 (286) **D** 4.10 (104)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 6.3 (135) **D** 16.0 (406)

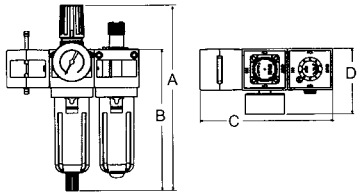
* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFDCX).

**A** = Auto Drain (22,32,42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**F** = Lubricator Quick Fill (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glass
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

## Shut Off/Particulate Filter-Regulator/Lubricator (with Gauge)



| Model # | Shut Off | Particulate Filter-Regulator | Lubricator |
|---|---|---|---|
| M14-01VPLXX | VS14-01 | P14B-01G | L14L-01 |
| M14-02VPLXX | VS14-02 | P14B-02G | L14L-02 |
| M22-02VPLXX | VS22-02 | P22B-02G | L22L-02 |
| M22-03VPLXX | VS22-03 | P22B-03G | L22L-03 |
| M22-04VPLXX | VS22-04 | P22B-04G | L22L-04 |
| M32-04VPLXX | VS32-04 | P32B-04G | L32L-04 |
| M32-06VPLXX | VS32-06 | P32B-06G | L32L-06 |
| M42-06VPLXX | VSL42-06 | P42B-06G | L42L-06 |
| M42-08VPLXX | VSL42-08 | P42B-08G | L42L-08 |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 5.04 (129) **D** 3.1 (79)

**22 Series:**
**A** 7.93 (252) **B** 7.62 (194) **C** 6.95 (177) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 8.25 (210) **D** 4.10 (103)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 5.3 (135) **D** 12.0 (305)

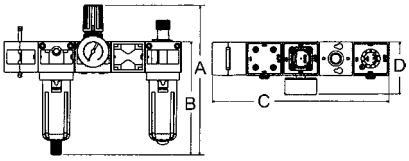
* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XPLXX).

**A** = Auto Drain (22, 32, 42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glas
**F** = Lubricator Quick Fill
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

## Shut Off/Particulate Filter/Diverter Block/Regulator/Lubricator (with Gauge)



| Model # | Shut Off | Particulate Filter | Diverter Block | Regulator | Lubricator |
|---|---|---|---|---|---|
| M14-01VFDRL | VS14-01 | F14B-01 | DK14-02 | R14R-01G | L14L-01 |
| M14-02VFDRL | VS14-02 | F14B-02 | DK14-02 | R14R-02G | L14L-02 |
| M22-02VFDRL | VS22-02 | F22B-02 | DK22-03 | R22R-02G | L22L-02 |
| M22-03VFDRL | VS22-03 | F22B-03 | DK22-03 | R22R-03G | L22L-03 |
| M22-04VFDRL | VS22-04 | F22B-04 | DK22-03 | R22R-04G | L22L-04 |
| M32-04VFDRL | VS32-04 | F32B-04 | DK32-04 | R32R-04G | L32L-04 |
| M32-06VFDRL | VS32-06 | F32B-06 | DK32-04 | R32R-06G | L32L-06 |
| M42-06VFDRL | VSL42-06 | F42B-06 | DK42-06 | R42R-06G | L42L-06 |
| M42-08VFDRL | VSL42-08 | F42B-08 | DK42-08 | R42R-08G | L42L-08 |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 8.4 (215) **D** 3.1 (79)

**22 Series:**
**A** 10.02 (255) **B** 7.62 (194) **C** 11.50 (292) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 14.25 (362) **D** 4.10 (104)

**42 Series:**
**A** 17.4 (442) **B** 12.6 (320) **C** 5.3 (135) **D** 20.0 (508)

* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFDRL).

**A** = Auto Drain (22, 32, 42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glas
**F** = Lubricator Quick Fill
**Q** = Metal Manual Drain
**R** = Manual Lever Drain

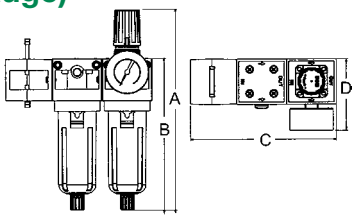


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## Shut Off/Particulate Filter/Coalescing Filter-Regulator (with Gauge)



| Model # | Shut Off | Particulate Filter | Coalescing/ Regulator |
|---|---|---|---|
| M14-01VFCXX | VS14-01 | F14B-01 | C14D-01G |
| M14-02VFCXX | VS14-02 | F14B-02 | C14D-02G |
| M22-02VFCXX | VS22-02 | F22B-02 | C22D-02G |
| M22-03VFCXX | VS22-03 | F22B-03 | C22D-03G |
| M22-04VFCXX | VS22-04 | F22B-04 | C22D-04G |
| M32-04VFCXX | VS32-04 | F32B-04 | C32D-04G |
| M32-06VFCXX | VS32-06 | F32B-06 | C32D-06G |
| M42-06VFCXX | VSL42-06 | F42B-06 | C42D-06G |
| M42-08VFCXX | VSL42-08 | F42B-08 | C42D-08G |




**Dimensions: Inches (mm)**

**14 Series:**
**A** 7.90 (200) **B** 5.84 (148) **C** 5.04 (129) **D** 3.1 (79)

**22 Series:**
**A** 9.93 (252) **B** 7.62 (193) **C** 6.95 (177) **D** 3.42 (87)

**32 Series:**
**A** 12.32 (313) **B** 9.12 (232) **C** 8.25 (210) **D** 4.10 (104)

**42 Series:**
17.4 (442) **B** 12.6 (320) **C** 5.3 (135) **D** 12.0 (305)

* To order this **StockBlok** model without a shutoff valve, replace the "V" in the model number with an "X" (ie. M42-08XFCXX).

**A** = Auto Drain (22,32,42 Series only)
**B** = Flexible Drain
**C** = CircleVision™ Sight Bowl
**E** = Endplates (42 Series only)
**J** = External Pulse Drain
**M** = Metal Bowls w/ Sight Glass
**Q** = Metal Manual Drain
**R** = Manual Lever Drain



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# ModuBlok™ Combination models



**MOD22-08**

| Station Position | Description | Model Number |
|---|---|---|
| 1 | Shut-Off Valve | VS22-03 |
| 2 | Particulate Filter | F22B-03 |
| 3 | Coalescer w/ metal bowl and pulse drain | F22D-03JM |
| 4 | Diverter Block | DK22-03 |
| 4T | Regulator | R22R-03 |
| 4B | Pressure Switch | PS180CAN02 |
| 5 | Regulator w/ gauge | R22R-03G |
| 6 | Lubricator | L22L-03 |

NEED MORE PARTS AND INFORMATION?
- *See page 26* for more information on available drain options.

## About ModuBlok™ Assemblies

The FLEXIBLOK® modular system is designed to connect individual components into a complete assembly. Sometimes it is necessary to order an assembly using additional or non-standard components or combinations. The MODUBLOK™ system makes it easy to order non-standard combinations.

As with all other components and combinations, all modular assemblies come factory tested and approved and assembled complete. For more information on flow, dimensions, options, and accessories, see individual component pages.

Because of the many possible combinations when utilizing modular systems, it is recommended that complex stations include a schematic drawing. When ordering, specify all components at each station, based on the example to the left.

### How to label diverter blocks

When using a diverter block, indicate all units at that station before continuing. If additional units are mounted above the diverter block, use the letter 'T' (for 'top') as well as a letter sequence (TA, TB, TC, etc.) starting from the diverter block, and continuing out. If units are placed below the diverter block, begin the two letter alphabetic sequence with the letter 'B' (for bottom) as well as a letter sequence (BA, BB, BC, etc.) starting with the diverter block and continuing outward. Continue in this pattern until all units are placed correctly.

### Reducing Bushings

Reducing bushings may be required to connect some components (i.e. pressure switches, etc).

| Series | Size |
|---|---|
| 22 | 3/8 to 1/4 or 3/8 to 1/8 |
| 32 | 1/2 to 1/4 or 1/2 to 1/8 |
| 42 | Not necessary as diverter block has 1/4 indicator ports. |

## L1 AND L2 Series Air Prep to Valve Adapter



### Application

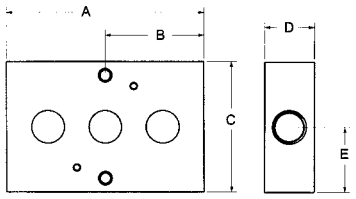
The Numatics L1 and L2 Series Valve Adapters, when used with a coalescing regulator ('piggyback') equipped with a pleated prefilter coalescing element and the specified valve, provides a low-cost, complete control package. This design eliminates fittings and potential air leaks - thus reducing cost, space, and installation time.

### Features

- Modular adaptable to 22 or 32 Series FLEXIBLOK® products.
- Easy installation and service.

### How to Order

| Model Number | Description |
|---|---|
| L1A22 | L1 Series valve adapter for use with 22 Series air preparation products |
| L2A22 | L2 Series valve adapter for use with 22 Series air preparation products |
| L1A32 | L1 Series valve adapter for use with 32 Series air preparation products |
| L2A32 | L2 Series valve adapter for use with 32 Series air preparation products |




### Dimensions: Inches (mm)

| Series | A | B | C | D | E |
|---|---|---|---|---|---|
| L1A22 | 2.5 (64) | 1.25 (32) | 2 (51) | 1 (25) | .75 (19) |
| L2A22 | 3 (76) | 1.5 (38) | 2 (51) | 1 (52) | .75 (19) |
| L1A32 | 3 (76) | 1.5 (38) | 3 (76) | 1.5 (38) | .75 (19) |
| L2A32 | 3 (76) | 1.5 (38) | 3 (76) | 1.5 (38) | .75 (19) |



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## FLEXIBLOK® Coalescing Filter

| Element Replacement Kits Filter & Filter-Reg<br>includes filter element and seal | |
|---|---|
| **Kit #** | **Description** |
| **14 Series** | |
| EKF12C | 0.7 micron element |
| EKF12CD | 0.7 micron element with prefilter |
| EKF12D | 0.3 micron element |
| EKF12DD | 0.3 micron element with prefilter |
| EKF12E | 0.1 micron element |
| EKF12ED | 0.1 micron element with prefilter |
| EKF12F | adsorbing element |
| **22 Series** | |
| EKF22C | 0.7 micron element |
| EKF22CD | 0.7 micron element with prefilter |
| EKF22D | 0.3 micron element |
| EKF22DD | 0.3 micron element with prefilter |
| EKF22E | 0.1 micron element |
| EKF22ED | 0.1 micron element with prefilter |
| EKF22F | adsorbing element |
| **32 Series** | |
| EKF32C | 0.7 micron element |
| EKF32CD | 0.7 micron element with prefilter |
| EKF32D | 0.3 micron element |
| EKF32DD | 0.3 micron element with prefilter |
| EKF32E | 0.1 micron element |
| EKF32ED | 0.1 micron element with prefilter |
| EKF32F | adsorbing element |
| **42 Series** | |
| EKF42C | .7 micron element |
| EKF42CD | .7 micron element with prefilter |
| EKF42D | .3 micron element |
| EKF42DD | .3 micron element with prefilter |
| EKF42E | .1 micron element |
| EKF42ED | .1 micron element with prefilter |
| EKF42F | adsorbing element |

| DPI Replacement Kits<br>Includes DPI assembly | |
|---|---|
| **Kit #** | **Description** |
| UK600 | 14 Series DPI replacement kit |
| DPI22 | 22 Series DPI replacement kit |
| DPI32 | 32/42 Series DPI replacement kit |

| Bowl Replacement Kits Filter & Filter-Reg<br>includes bowl and o-ring | |
|---|---|
| **Kit #** | **Description** |
| **14 Series** | |
| BKF12 | polycarbonate bowl with guard |
| BKF12M | metal bowl |
| BKF12C | Circle vision bowl |
| **22 Series** | |
| BKF22 | polycarbonate bowl |
| BKF22C | CircleVision™ bowl |
| BKF22M | metal bowl |
| **32 & 42 Series** | |
| BKF32 | polycarbonate bowl |
| BKF32C | CircleVision™ bowl |
| BKF32M | metal bowl |

To order the bowl replacement kit with a drain, specify the drain suffix in the kit number (keeping suffixes in alphabetical order). For example, to order an flexible drain with a BKF12 kit, order as **BKF12B**. To order an external pulse drain with a BKF12M kit, order as **BKF12JM**. Drain suffixes are as follows: B=flexible drain, J=external pulse drain, Q=metal manual drain, R=manual lever drain. See page 24 for additional drain option information.

| Bowl Replacement Kits Lubricators<br>includes bowl and o-ring | |
|---|---|
| **Kit #** | **Description** |
| BKL12 | 12 & 14 Series, polycarbonate bowl |
| BKL12M | 12 & 14 Series, metal bowl |
| BKL22 | 22 Series, polycarbonate bowl |
| BKL22C | 22 Series, CircleVision™ bowl |
| BKL22M | 22 Series, metal bowl |
| BKL32 | 32 Series, polycarbonate bowl |
| BKL32C | 32 Series, CircleVision™ bowl |
| BKL32M | 32 Series, metal bowl |

To order the bowl replacement kit with a drain or buttonhead fill, specify the appropriate suffix in the kit number (keeping suffixes in alphabetical order). For example, to order a drain with a BKL12 kit, order as **BKF12K**. To order a buttonhead fill with a BKL22M kit, order as **BKL22FM**. Drain suffixes are as follows: F=buttonhead fill, K=drain.

| Replacement Drain Kits | |
|---|---|
| **Kit #** | **Description** |
| AKF02 | auto float drain kit (inc. drain, bushing, clip, o-ring) |
| BKF02 | flexible drain (includes drain ass'y) |
| DKF02 | standard drain (inc. drain ass'y) |
| QKF02 | metal manual drain (inc. drain, bushing, clip, o-ring) |
| JKF02 | external pulse drain (inc. drain, bushing, clip, o-ring) |
| RKF02 | manual lever drain (inc. drain, bushing, clip, o-ring) |

## FLEXIBLOK® Particulate Filter

| Element Replacement Kits Filter & Filter-Reg<br>includes bowl and o-ring | |
|---|---|
| **Kit #** | **Description** |
| EKF12A | 12/14 Series, 40 micron element |
| EKF12B | 12/14 Series, 5 micron element |
| EKF22A | 22 Series, 40 micron element |
| EKF22B | 22 Series, 5 micron element |
| EKF32A | 32 Series, 40 micron element |
| EKF32B | 32 Series, 5 micron element |
| EKF42A | 42 Series, 40 micron element |
| EKF42B | 42 Series, 5 micron element |

| Filter Repair Kits<br>includes Turbo-Flo, element retainer, quiet zone baffle, deflector retainer | |
|---|---|
| **Kit #** | **Description** |
| RKF12B | 12/14 Series, 5 micron element |
| RKF22B | 22 Series, 5 micron element |
| RKF32B | 32 Series, 5 micron element |
| RKF42B | 42 Series, 5 micron element |

## FLEXIBLOK® Regulator

| Regulator & F/R Repair Cage Kits<br>includes bonnet with main spring (0-125 psi), adjusting screw and adjusting knob | |
|---|---|
| **Kit #** | **Description** |
| RKC14 | 14 Series |
| RKC22 | 22 Series |
| RKC32 | 32 Series |
| RKC42 | 42 Series |

| Diaphragm Repair Kits<br>includes diaphragm, inner valve assembly and inner valve spring | |
|---|---|
| **Kit #** | **Description** |
| RKR12R | 12 & 14 Series, relieving kit |
| RKR22R | 22 Series, relieving kit |
| RKR32R | 32 Series, relieving kit |
| RKR42R | 42 Series, relieving kit |
| RKR12N | 12 & 14 Series, non-relieving kit |
| RKR22N | 22 Series, non-relieving kit |
| RKR32N | 32 Series, non-relieving kit |
| RKR42N | 42 Series, non-relieving kit |

| Piston Repair Kits<br>includes piston assembly, inner valve assembly and inner valve spring | |
|---|---|
| **Kit #** | **Description** |
| PKR12R | 12 Series, relieving kit |
| PKR12N | non-relieving kit |
| PKR14R | 14 Series, relieving kit |
| PKR22R | 22 Series, relieving kit |
| PKR32R | 32 Series, relieving kit |
| PKR42R | 42 Series, relieving kit |
| PKR14N | 14 Series, non-relieving kit |
| PKR22N | 22 Series, non-relieving kit |
| PKR32N | 32 Series, non-relieving kit |
| PKR42N | 42 Series, relieving kit |

| Replacement Adjustment Knob Kits<br>Includes adjustment knob only | |
|---|---|
| **Kit #** | **Description** |
| R12-03 | 12 &14 Series, adjustment knob |
| R22-03B | 22 Series, adjustment knob |
| R32-03 | 32 Series, adjustment knob |
| R32-03 | 42 Series, adjustment knob |

## FLEXIBLOK® Pilot Operated Regulators

| Diaphragm Repair Kits<br>includes upper & lower diaphragm, inner valve assembly and inner valve spring | |
|---|---|
| **Kit #** | **Description** |
| RKW22 | 22 Series, relieving kit |
| RKW32 | 32 Series, relieving kit |
| RKW42 | 42 Series, relieving kit |
| RKW22N | 22 Series, non-relieving kit |
| RKW32N | 32 Series, non-relieving kit |
| RKW42N | 42 Series, non-relieving kit |

## FLEXIBLOK® Lubricator

| Lubricator Dome Repair Kits<br>includes adjustment knob and adjustment assembly | |
|---|---|
| **Kit #** | **Description** |
| RKL12T | 12/14 Series, lub. dome repair kit |
| | 22 Series, lub. dome repair kit |
| | 32 Series, lub. dome repair kit |
| | 42 Series, lub. dome repair kit |

| Replacement Adjustment Knob Kits<br>includes adjustment knob only | |
|---|---|
| **Kit #** | **Description** |
| L32-06 | 12/14 Series, adjustment knob |
| | 22 Series, adjustment knob |
| | 32 Series, adjustment knob |

## FLEXIBLOK® Shut-Off Valve

| Shut-Off Valve Repair Kits<br>includes slide and 2 o-rings | |
|---|---|
| **Kit #** | **Description** |
| RKSV12 | 12 Series, shut-off valve repair kit |
| RKSV14 | 14 Series, shut-off valve repair kit |
| RKSV22 | 22 Series, shut-off valve repair kit |
| RKSV32 | 32 Series, shut-off valve repair kit |

| Mounting Brackets<br>includes bracket and panel nut | |
|---|---|
| **Kit #** | **Description** |
| PK12 | 12 & 14 Series mounting bracket |
| PK22 | 22Series mounting bracket |
| PK32 | 32 Series mounting bracket |

## FLEXIBLOK® Sol. Soft Start Quick Exhaust

| Solenoid Replacement Kits<br>includes coil only (fits 22 or 32 Series)<br><br>NOTE: Numatics FRL does not recommend the disassembly of a solenoid soft start unit outside of our factory. | |
|---|---|
| **Kit #** | **Description** |
| S32-44A | 110V (22 or 32 Series) |
| S32-45A | 230V (22 or 32 Series) |
| S32-46A | 24V AC (22 or 32 Series) |
| S32-43A | 24V DC (22 or 32 Series) |

## FLEXIBLOK® Screws & O-Rings

| Screw & O-Ring Replacement Kits<br>NOTE: Numatics FRL does not recommend the disassembly of a solenoid soft start unit outside of our factory. | |
|---|---|
| **Kit #** | **Description** |
| KAVS12-06 | 12 Series, 2 81 mm tie rods, 2 106mm tie rods, 4 nuts |
| BKAVS12-06 | 12 Series, 20 81 mm tie rods, 20 106mm tie rods, 40 nuts |
| KG12 | 12 Series, inc. 2 screws, 1 o-ring (M4 x 12mm) |
| KGB12 | 12 Series bulk pack 100 screws, 50 o-rings (M4 x 12mm) |
| KG14 | 14 Series, 2 screws, 1 o-ring (M4 x 12mm) |
| KGB14 | 14 Series bulk pack 100 screws, 50 o-rings (M4 x 12mm) |
| KG22 | 22 Series, inc. 2 screws, 1 o-ring (M5 x 12mm) |
| KGB22 | 22 Series bulk pack 100 screws, 50 o-rings (M5 x 12mm) |
| KG32 | 32 Series, inc. 2 screws, 1 o-ring (M6 x 16mm) |
| KGB32 | 32 Series bulk pack 100 screws, 50 o-rings (M6 x 16mm) |
| KG42 | 42 Series, inc. 2 screws, 1 o-ring (M8 x 1.25) |
| KGB42 | 42 Series bulk pack 100 screws, 50 o-rings (M8 x 1.25) |



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