

# M

NEW

# monnaie

# MODULARS

Standard Where Custom Solutions Become



*Monnaie Modulars™* were created to meet the demands of today's air preparation market by **maximizing flow, reducing weight and minimizing price**. This new series of modular filters, regulators and lubricators compliments the over 3,000 standard products in the Monnier catalog and the thousands of custom units designed annually.

**Each component is engineered to connect easily** without the use of inserts and special tools. Standard button-head screws are used to join components, combined with the new modular design ensures that *Monnaie Modulars™* offer optimum stability and strength.

Components are available as preassembled **modular FRL assemblies** or in an unlimited combination of filters, regulators, lubricators and accessories. Each component is available with **3 bowl options** -- polycarbonate with guard (standard), metal bowl or with the CircleView bowl, allowing fluid to be viewed 360 degrees around the bowl. Each bowl is available with automatic, flexible or manual drain options.

A **manual shut off** with a deep slide design is available conforming to OSHA requirements. The off position relieves downstream pressure to all components allowing for service or repair.

**Shipment can be made from stock** so call your local Monnier distributor to place your order today .

Note: All Monnaie Modulars™ are available with "G Tap" (Europe).

## Features

- ✓ O-ring bowl
- ✓ Integral mounting holes
- ✓ Bayonet bowl guards
- ✓ Face plates for units
- ✓ One filter housing for particulate/coalescer
- ✓ Units individually threaded
- ✓ Diverter block
- ✓ Simple manifold connections

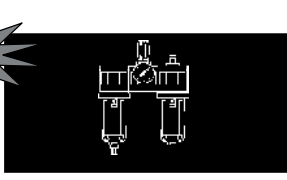
## Benefits

- ✓ O-ring held captive
- ✓ Mounts without brackets
- ✓ Quick on/off bowls
- ✓ Unique identity - customer logo
- ✓ Less inventory - field change
- ✓ Each unit can stand alone
- ✓ Regulator mounts any direction
- ✓ Build any configuration

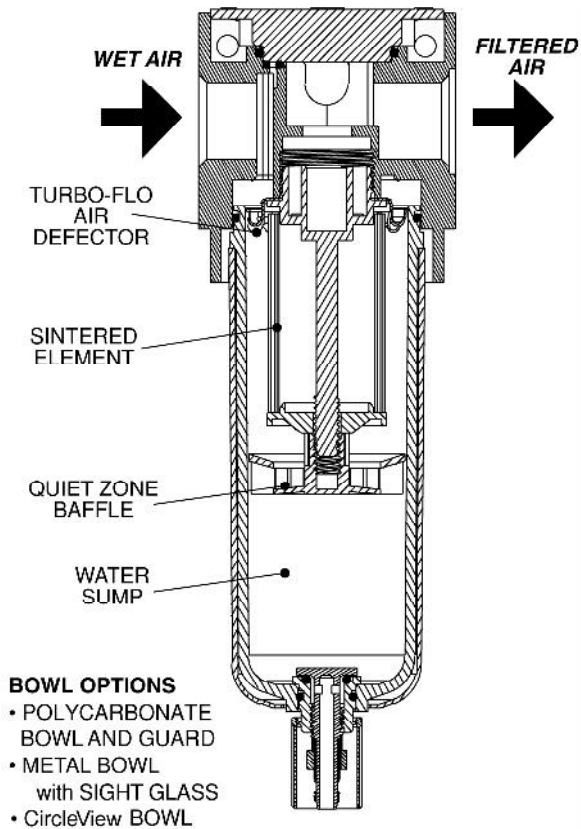
## Advantages

- ✓ Works right every time
- ✓ Vendor does not make bracket
- ✓ Faster turns in maintenance
- ✓ Parts business for OEM's
- ✓ Faster response possible
- ✓ Adapts to any application
- ✓ Flexible assembly
- ✓ Eliminates frustration

MONNAIRE MODULARS™  
AIRLINE PRODUCTS  
MONNAIRE



## Monnaire Modular™ Filters



## Application

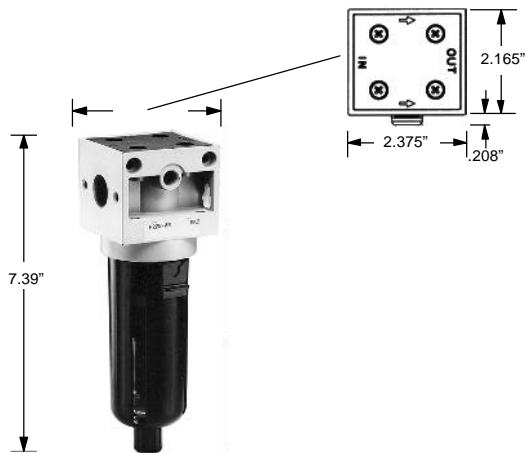
Primary air filters are designed to separate liquid water and rust, scale and debris from the airlines. They should be installed upstream of the regulator or lubricator to prevent contamination from reaching other components.

Water is removed mechanically by the deflector which causes the air to move in a swirling motion. The condensed water droplets are then centrifugally impounded upon the I.D. of the bowl and migrate down past the quiet zone baffle to the water sump. Dry air passes through the sintered element utilizing depth filtration and removes debris down the specified micron size.

## Features

- Two convenient sizes
- 5 micron sintered elements standard
- Can be installed as modular or individual unit
- Includes screws and o-rings for modular connection
- Manual or automatic drains
- Polycarbonate bowl standard
- Optional CircleView sight bowl
- Bowl seal held captive

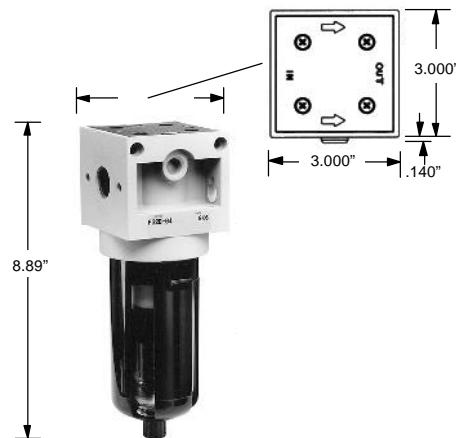
**22 SERIES FILTERS**  
3.8-OUNCE CAPACITY  
PIPE SIZE: 1/4, 3/8, 1/2"



PIPE SIZE	BOWL TYPE AND MODEL NO.			FLOW CAPACITY SCFM	
	POLYCARBONATE W/ BOWL GUARD	METAL	CIRCLEVIEW	C <sub>v</sub>	SCFM
1/4"	222-2100-2	222-2300-2	222-2000-2	C <sub>v</sub> = 1.9	45
3/8"	222-2100-3	222-2300-3	222-2000-3	C <sub>v</sub> = 2.6	60
1/2"	222-2100-4	222-2300-4	222-2000-4	C <sub>v</sub> = 3.0	70

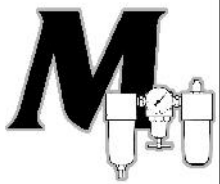
- 5 micron sintered element standard.
- Flow Ratings based upon 100 PSIG inlet and 5 PSID.
- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.

**32 SERIES FILTERS**  
8.5-OUNCE CAPACITY  
PIPE SIZE: 1/2, 3/4"

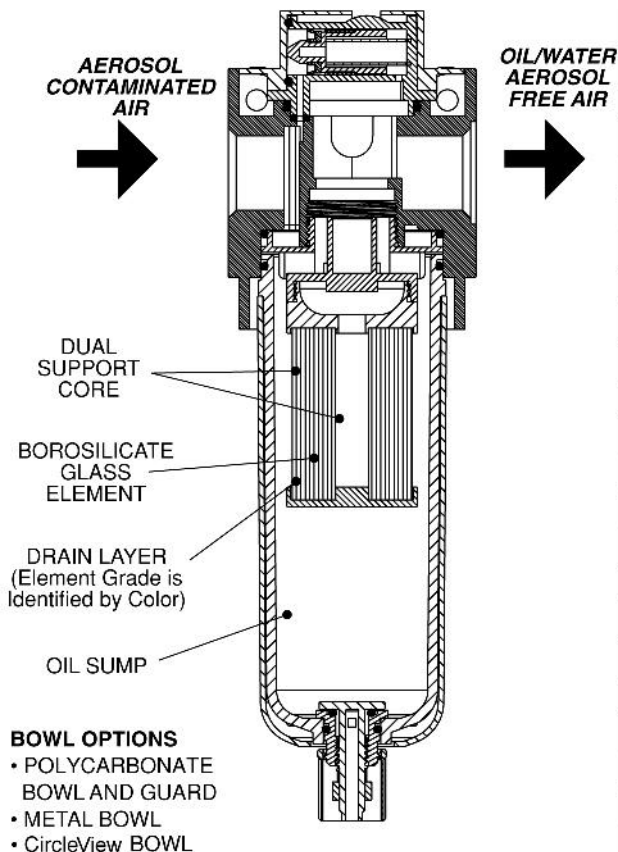


PIPE SIZE	BOWL TYPE AND MODEL NO.			FLOW CAPACITY SCFM	
	POLYCARBONATE W/ BOWL GUARD	METAL	CIRCLEVIEW	C <sub>v</sub>	SCFM
1/2"	232-1100-4	232-1300-4	232-1000-4	C <sub>v</sub> = 4.5	105
3/4"	232-1100-6	232-1300-6	232-1000-6	C <sub>v</sub> = 4.7	110

- 5 micron sintered element standard.
- Flow Ratings based upon 100 PSIG inlet and 5 PSID.
- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.



## Monnaie Modular™ Coalescing Filters



- BOWL OPTIONS**
- POLYCARBONATE BOWL AND GUARD
  - METAL BOWL
  - CircleView BOWL

### Application

The coalescing filter is utilized when either clean air is required or longer component life is desired. This type of filter removes water and oil aerosols. Working differently than the particulate filter; oily air enters the element from its center and passes through a field of glass fibers which cause the aerosols to form into heavier-than-air droplets. The droplets grow larger as they pass through the element and gravity drains the oil drops to the sump of the bowl. With the harmful oil varnishes and contaminants that attack seals and gaskets now removed, the valve and cylinder is much less likely to stick. To maximize the life of a coalescing filter it should always be used after a 5 micron filter with the optional prefilter.

### Features

- Two convenient sizes
- Cartridge element design
- Inner/outer support cores prevent element from crushing in either flow direction
- Available with manual or automatic drain
- Optional CircleView sight bowl
- Differential pressure indicator standard

### Recommended Uses

**0.7 Micron Element**, identified by its BLUE drain layer, is a coarse filter for large amounts of water, rust, pipe scale and hydrocarbons. Excellent filter for environments that have severe contamination. Can be used for lubricated or "dry" systems. Mainline filtration of plant air.

**0.3 Micron Element**, identified by its GREEN drain layer, is a fine filter for cylinders or valves especially when the circuit is being run without lubrication ("dry"). Excellent filters for desiccant or regenerative style filters.

**0.1 Micron Element**, identified by its RED drain layer, is an ultrafine filter for oil free instrumentation air, blow molding, food and drug packaging, electronics applications, and other applications requiring maximum contamination removal.

**Adsorber Element**, identified by its WHITE drain layer, is an adsorbing filter that utilizes activated carbon to deodorize compressed air. Typically, it is used to protect worker environments, food and drug applications and instrumentation for analytical instruments. Life expectancy is approximately 3 months at rated flow.

### Prefilter Option - Suffix "E"

All models can be equipped with an optional internal prefilter. The prefilter provides additional protection for the fine borosilicate fibers. For most applications, a separate 3 micron particulate filter is not required.

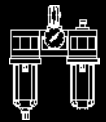


WARNING



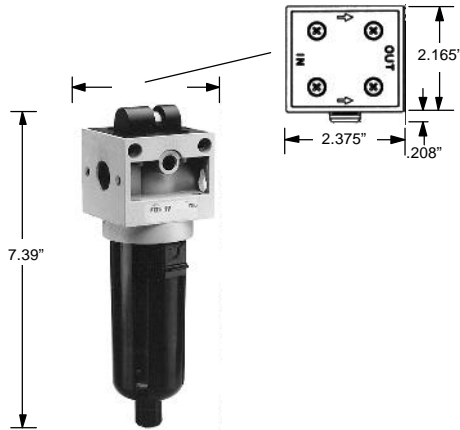
**POLYCARBONATE BOWLS CAN BE DAMAGED AND MAY FAIL IF THEY ARE EXPOSED TO, OR COME IN CONTACT WITH SOLVENTS, STRONG ALKALIES, FIRE RESISTANT AND/OR SYNTHETIC COMPRESSOR LUBRICANTS.**

**MAXIMUM PRESSURE AND TEMPERATURE IN MONNAIRE MODULAR™ POLYCARBONATE BOWLS IS 150 PSI AND 120°F. METAL BOWL: 200 PSI, 120°F AND CIRCLEVIEW BOWL: 250 PSI AND 150°F.**



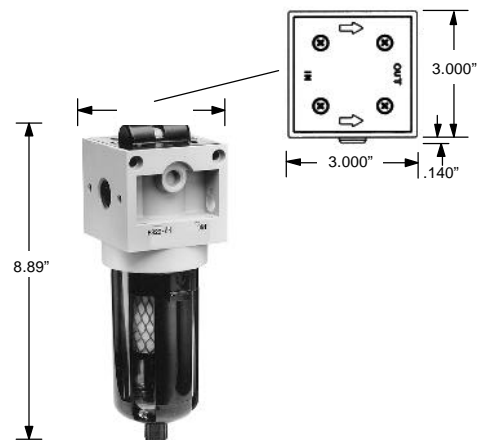
## 22 SERIES COALESCER

3.8-OUNCE CAPACITY  
PIPE SIZE: 1/4, 3/8, 1/2"



## 32 SERIES COALESCER

8.5-OUNCE CAPACITY  
PIPE SIZE: 1/2, 3/4"

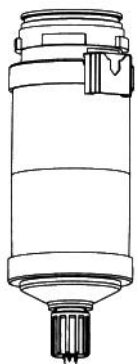


PIPE SIZE	ELEMENT RATING: BOWL TYPE AND MODEL NO.			FLOW CAPACITY	SCFM
	<b>0.7 MICRON</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/4"	222-2107-2	222-2307-2	222-2007-2	$C_v = 2.0$	25
3/8"	222-2107-3	222-2307-3	222-2007-3		
1/2"	222-2107-4	222-2307-4	222-2007-4		
	<b>0.3 MICRON</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/4"	222-2103-2	222-2303-2	222-2003-2	$C_v = 1.2$	15
3/8"	222-2103-3	222-2303-3	222-2003-3		
1/2"	222-2103-4	222-2303-4	222-2003-4		
	<b>0.1 MICRON</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/4"	222-2101-2	222-2301-2	222-2001-2	$C_v = 0.7$	9
3/8"	222-2101-3	222-2301-3	222-2001-3		
1/2"	222-2101-4	222-2301-4	222-2001-4		
	<b>VAPOR ADSORBER</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/4"	222-210A-2	222-230A-2	222-200A-2	$C_v = -$	-
3/8"	222-210A-3	222-230A-3	222-200A-3		
1/2"	222-210A-4	222-230A-4	222-200A-4		

PIPE SIZE	ELEMENT RATING: BOWL TYPE AND MODEL NO.			FLOW CAPACITY	SCFM
	<b>0.7 MICRON</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/2"	232-1107-4	232-1307-4	232-1007-4	$C_v = 5.3$	70
3/4"	232-1107-6	232-1307-6	232-1007-6		
	<b>0.3 MICRON</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/2"	232-1103-4	232-1303-4	232-1103-4	$C_v = 3.7$	48
3/4"	232-1103-6	232-1303-6	232-1103-6		
	<b>0.1 MICRON</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/2"	232-1101-4	232-1301-4	232-1101-4	$C_v = 2.0$	25
3/4"	232-1101-6	232-1301-6	232-1101-6		
	<b>VAPOR ADSORBER</b>	<b>METAL</b>	<b>CIRCLEVIEW</b>		
	<b>POLYCARBONATE W/ BOWL GUARD</b>				
1/2"	232-110A-4	232-130A-4	232-110A-4	$C_v = -$	45
3/4"	232-110A-6	232-130A-6	232-110A-6		

- 0.3 micron element standard.
- Flow Ratings based upon 100 PSIG inlet and 1.5 PSID.
- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.

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- Flow Ratings based upon 100 PSIG inlet and 1.5 PSID.
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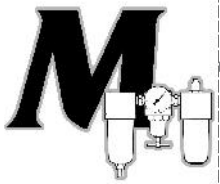


### CircleView Sight Bowl

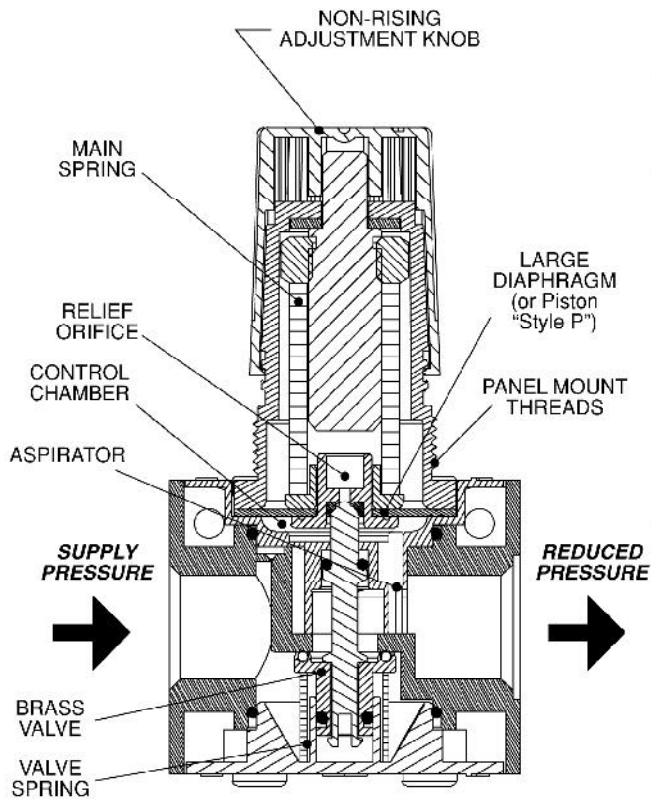
The Monnaire Modular™ CircleView Sight Bowl utilizes a dual bowl configuration to eliminate the bowl guard or sight glass. This allows the strength and security of an interior metal bowl to be used with the exterior convenience of polycarbonate. Water condensation and contaminants in filter bowls and the oil level in the lubricator bowls can be seen for 360 degrees around the unit. This lowers maintenance cost by allowing easy detection of units that require service.

### Metal Bowl with Sight Glass





## Monnaie Modular™ Regulators



### Application

Regulators are used to reduce pressure to a required working pressure. Utilizing optimum pressure can save companies both component life and many dollars in compressed air costs.

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

### Features

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

### Internal Check VALVE

The 22 and 32 Series are offered with an optional internal check valve. This allows the regulator to function between a valve and cylinder and not be damaged by the constant change in direction of flow. Excellent for applications where multiple pressures are required from one supply valve.

### Piston Operator

The 22 and 32 series are offered with an optional Piston Operator. A Piston regulator will achieve extremely high cycle rates with limited wear. It is standard on the Internal Check Regulator.

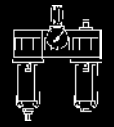


Find More Information on  
Monnaie Modulators™ on the Internet

#### Go to...

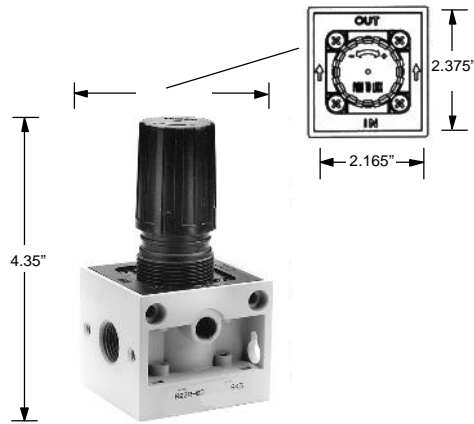
<http://www.monnier.com>

...and click on the **Monnaie Modulators™ Tab** to link to the latest information on Monnier's new line of modular FRLs.



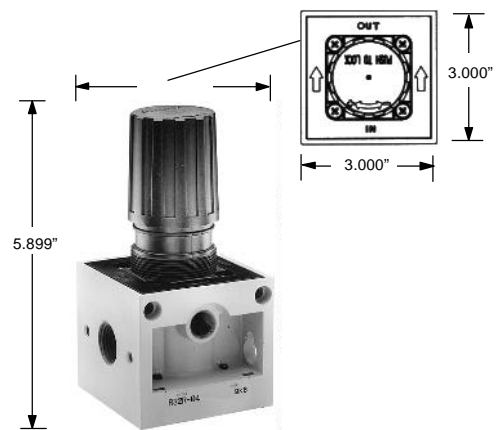
## 22 SERIES REGULATOR

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



## 32 SERIES REGULATOR

PIPE SIZE: 1/2, 3/4"

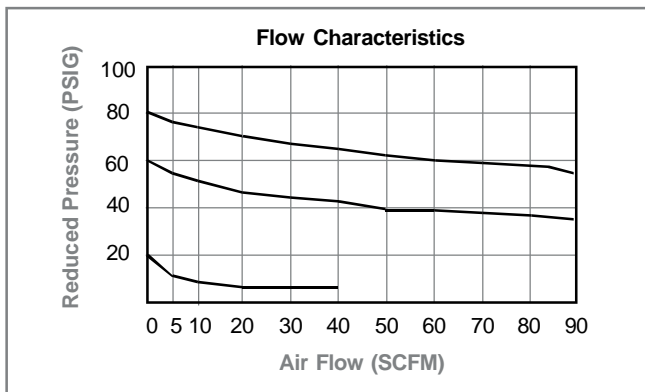


PIPE SIZE	MODEL NO.		GAUGE PRESSURE RANGE (PSIG)
	RELIEVING	NON-RELIEVING	
1/4"	122-2000-2	122-2001-2	0-125
3/8"	122-2000-3	122-2001-3	
1/2"	122-2000-4	122-2001-4	
1/4"	122-2002-2	122-2003-2	0-60
3/8"	122-2002-3	122-2003-3	
1/2"	122-2002-4	122-2003-4	
1/4"	122-2004-2	122-2005-2	0-25
3/8"	122-2004-3	122-2005-3	
1/2"	122-2004-4	122-2005-4	

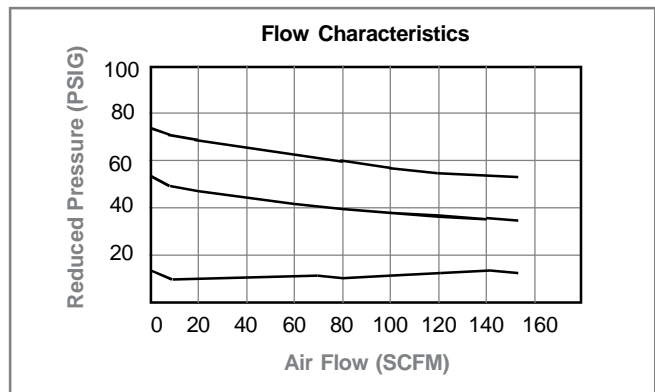
PIPE SIZE	MODEL NO.		GAUGE PRESSURE RANGE (PSIG)
	RELIEVING	NON-RELIEVING	
1/2"	132-1000-4	132-1001-4	0-125
3/4"	132-1000-6	132-1001-6	
1/2"	132-1002-4	132-1003-4	0-60
3/4"	132-1002-6	132-1003-6	
1/2"	132-1004-4	132-1005-4	0-25
3/4"	132-1004-6	132-1005-6	
1/2"	132-1006-4	132-1007-4	0-250
3/4"	132-1006-6	132-1007-6	

- To order with a gauge, add suffix "G".
- To order with panel nut, add suffix "P".
- To order with check valve, add "C" after the 3rd digit
- To order with piston, add "P" after the 3rd digit

- To order with a gauge, add suffix "G".
- To order with panel nut, add suffix "P".
- To order with check valve, add "C" after the 3rd digit
- To order with piston, add "P" after the 3rd digit
- To order with Tamperproof option, add suffix "T".



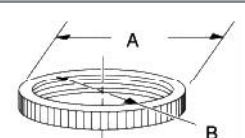
• Flows are at 100 PSIG and a 25% PSID.



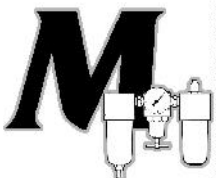
• Flows are at 100 PSIG and a 25% PSID.

## PANEL MOUNT NUT

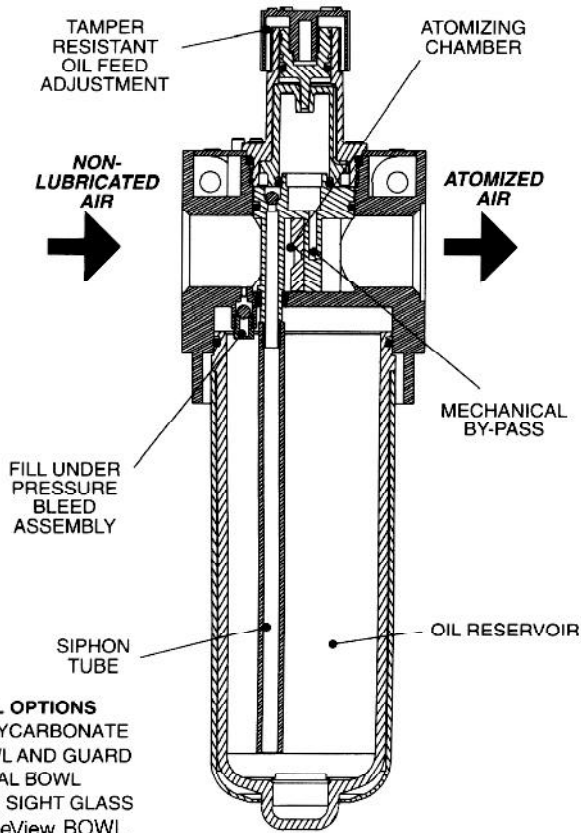
Series	Model Dia.	Hole	A	B
22	PN-22	1.31"	1.50"	1-1/4-16
32	PN-32	1.77"	2.05"	1-3/4-16



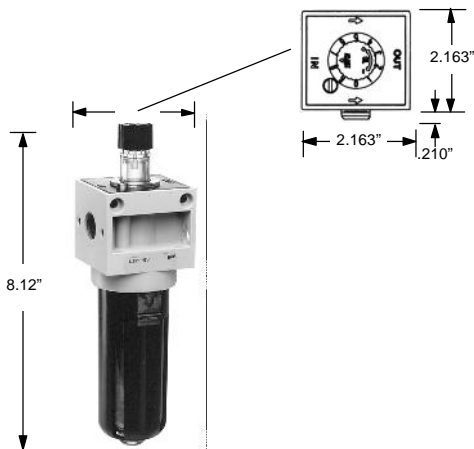
- For regulator brackets, see page 59



## Monnaire Modular™ Lubricators



**22 SERIES LUBRICATOR**  
3.8-OUNCE CAPACITY  
PIPE SIZE: 1/4, 3/8, 1/2"



PIPE SIZE	BOWL TYPE AND MODEL NO.			FLOW CAPACITY SCFM	
	POLYCARBONATE W/ BOWL GUARD	METAL	CIRCLEVIEW	$C_v$	
1/4"	322-2100-2	322-2300-2	322-2000-2	$C_v = 1.9$	40
3/8"	322-2100-3	322-2300-3	322-2000-3	$C_v = 3.0$	70
1/2"	322-2100-4	322-2300-4	322-2000-4	$C_v = 4.4$	100

- To order with a manual drain, add suffix "K".
- To order with a Quick Fill Button Head, add suffix "Q".

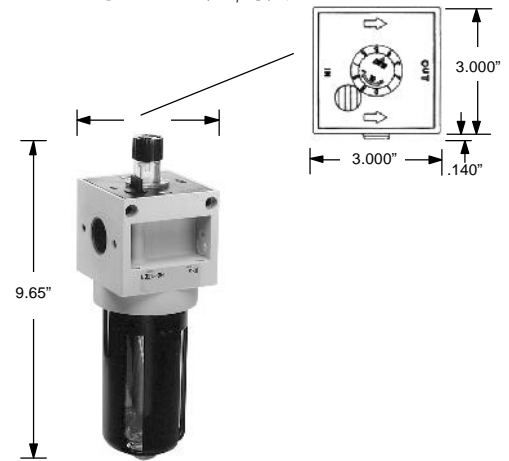
## Application

Usually mounted third in the F-R-L series, the lubricator is designed to inject oil aerosols into the air stream of a pneumatic circuit. As air flows from the regulator, some air is divided from the main orifice and is allowed to flow through the fill under pressure bleed assembly and pressurizes the bowl. This forces oil up in the siphon tube past a flow check and into the integral valve/sight down. The oil film then drops through the valve and into the atomization chamber at a rate that is automatically proportional to the airflow. This virtually eliminates the need for readjustment. The Monnaire Modulares™ lubricator can begin delivering lubrication at flows less than 2 SCFM.

## Features

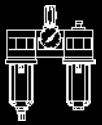
- Two convenient sizes
- Lubrication to begin at less than 2 SCFM
- Fillable under pressure
- Tamper-resistant knob standard
- Available with CircleView sight bowl
- Can be mounted as a modular or individual unit
- Button Head Fill option on both sizes
- Atomizing chamber develops longer life aerosols

**32 SERIES LUBRICATOR**  
8.5-OUNCE CAPACITY  
PIPE SIZE: 1/2, 3/4"

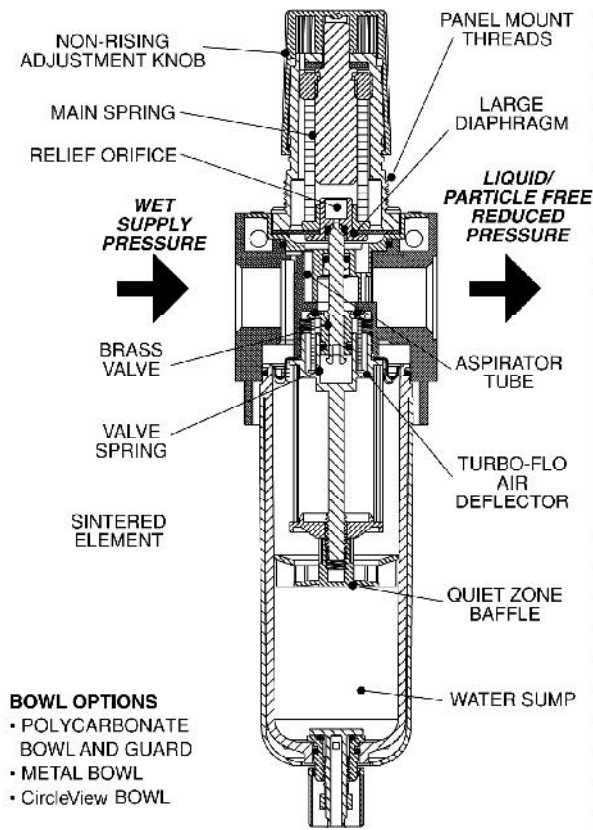


PIPE SIZE	BOWL TYPE AND MODEL NO.			FLOW CAPACITY SCFM	
	POLYCARBONATE W/ BOWL GUARD	METAL	CIRCLEVIEW	$C_v$	
1/2"	332-1100-4	332-1300-4	332-1000-4	$C_v = 4.7$	110
3/4"	332-1100-6	332-1300-6	332-1000-6	$C_v = 7.3$	150

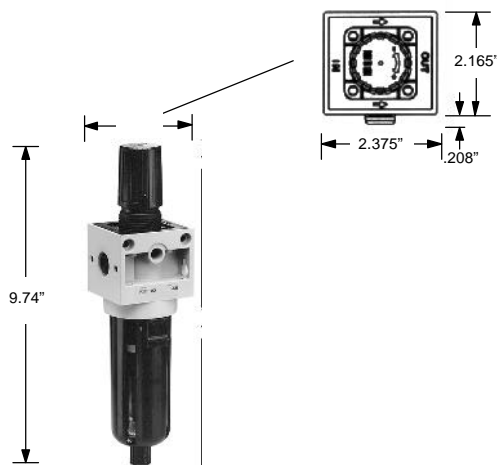
- To order with a manual drain, add suffix "K".
- To order with a Quick Fill Button Head, add suffix "Q".



## Monnaire Modular™ Integral Filter/Regulators



22 SERIES FILTER/REGULATOR  
3.8-OUNCE CAPACITY  
PIPE SIZE: 1/4, 3/8, 1/2"



PIPE SIZE	BOWL TYPE AND MODEL NO.			SCFM AT REDUCED PRESSURE OF		
	POLYCARBONATE W/ BOWL GUARD	METAL	CIRCLEVIEW	25 PSIG	60 PSIG	80 PSIG
1/4"	FR22-2100-2	FR22-2300-2	FR22-2000-2	40	50	65
3/8"	FR22-2100-3	FR22-2300-3	FR22-2000-3	60	70	75
1/2"	FR22-2100-4	FR22-2300-4	FR22-2000-4	60	70	75

- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.
- To order with a gauge, add suffix "G".
- See Monnaire Modular™ Regulators for "Flow Characteristics".
- Flows are at 100 PSIG and a 25% PSID.

## Application

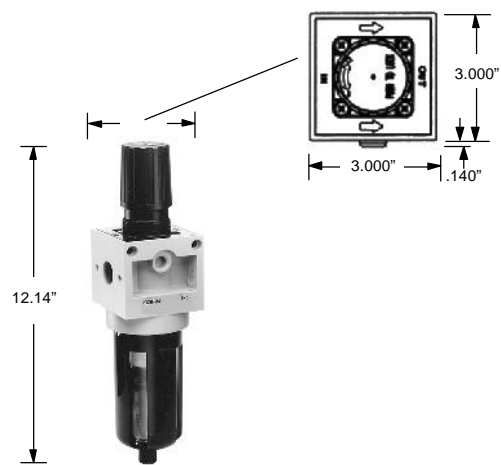
The integral filter/regulator (piggyback) is a two-station component designed to filter and regulate compressed air when cost and space are a primary concern. As dirty, wet air enters, it immediately flows through the air deflector causing the air to move in a swirling motion. After condensed water is centrifugally removed, air passes through the filter and into the regulator. The high-pressure air is systematically reduced via the adjustment spring and valve and exits the housing as clean and dry air that is ready to work at the specified pressure.

Note: See separate Monnaire Modular™ Filter and Regulator sections for additional information.

## Features

- Two convenient sizes
- 5 micron sintered elements standard
- Can be installed as modular or individual unit
- Non-rising knob
- Standard output pressure 0-125 PSIG
- Bowl seals held captive

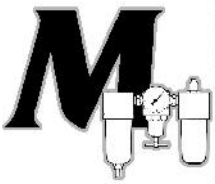
32 SERIES FILTER/REGULATOR  
8.5-OUNCE CAPACITY  
PIPE SIZE: 1/2, 3/4"



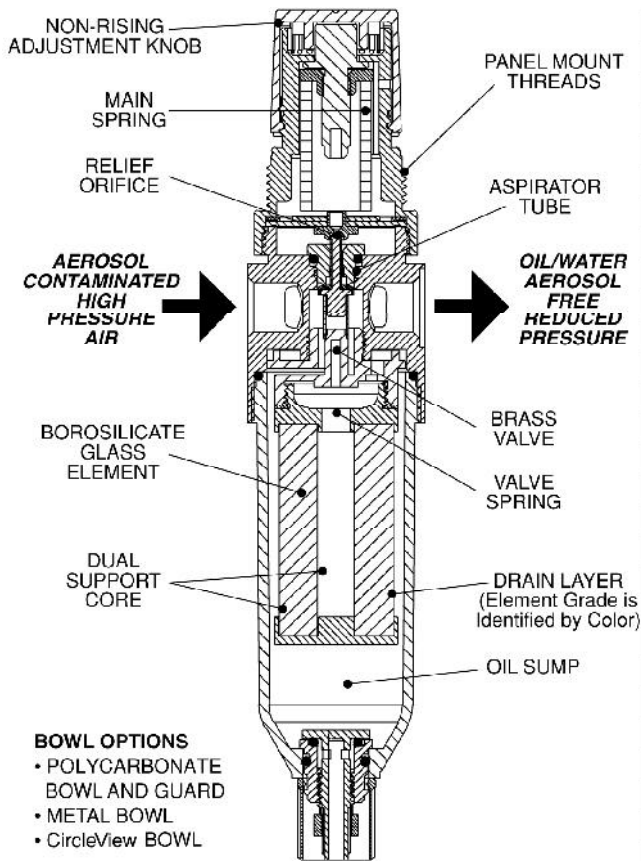
PIPE SIZE	BOWL TYPE AND MODEL NO.			SCFM AT REDUCED PRESSURE OF		
	POLYCARBONATE W/ BOWL GUARD	METAL	CIRCLEVIEW	25 PSIG	60 PSIG	80 PSIG
1/2"	FR32-1100-4	FR32-1300-4	FR32-1000-4	100	115	130
3/4"	FR32-1100-6	FR32-1300-6	FR32-1000-6	100	115	130

- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.
- To order with a gauge, add suffix "G".
- See Monnaire Modular™ Regulators for "Flow Characteristics".
- Flows are at 100 PSIG and a 25% PSID.

"Where Custom Solutions Become Standard"



## Monnaie Modular™ Coalescer/Regulators



### Element Performance Data

Performance of any coalescing filter is in relationship to the velocity of the air passing through (inside to outside) the element.

Since velocity and  $\Delta P$  are directly proportional (the higher the  $\Delta P$  the higher the velocity). We must size filters according to the flow at the optimum  $\Delta P$  rather than at maximum velocity to atmosphere. Tests indicate the most effective  $\Delta P$  for removing aerosols and contaminants from airline in 1.5 PSI or less. This indicates that the filters are capable of flowing much more air than is recommended for maximum contamination removal.

In the individual Monnaie Modular™ filter sections of the catalog, we have included the Cv ratings on all our coalescing filters. This allows an exact determination of flow based upon known parameters.



#### WARNING



**POLYCARBONATE BOWLS** CAN BE DAMAGED AND MAY FAIL IF THEY ARE EXPOSED TO, OR COME IN CONTACT WITH SOLVENTS, STRONG ALKALIES, FIRE RESISTANT AND/OR SYNTHETIC COMPRESSOR LUBRICANTS.

### Application

Monnier's Monnaie Modular™ Coalescer/Regulator is a two-station point of use air preparation system designed to provide superior filtration and regulation in one compact housing.

Available with four different element choices, the Coalescer/Regulator can be specified to attack and remove the exact type of contamination that is critical to the specific application.

### Features

- Cartridge element design
- Inner and outer support cores prevent element from crushing in either flow direction
- Connects to modular design
- Four element grades available

### Recommended Uses

**0.7 Micron Element**, identified by its BLUE drain layer, is a course filter for large amounts of water, rust, pipe scale and hydrocarbons. Excellent filter for environments that have severe contamination. Can be used for lubricated or "dry" systems. Mainline filtration of plant air.

**0.3 Micron Element**, identified by its GREEN drain layer, is a fine filter for cylinders or valves especially when the circuit is being run without lubrication ("dry"). Excellent filters for desiccant or regenerative style filters.

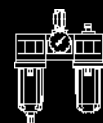
**0.1 Micron Element**, identified by its RED drain layer, is an ultrafine filter for oil free instrumentation air, blow molding, food and drug packaging, electronics applications, and other applications requiring maximum contamination removal.

**Adsorber Element**, identified by its WHITE drain layer, is an adsorbing filter that utilizes activated carbon to deodorize compressed air. Typically, it is used to protect worker environments, food and drug applications and instrumentation for analytical instruments. Life expectancy is approximately 3 months at rated flow.

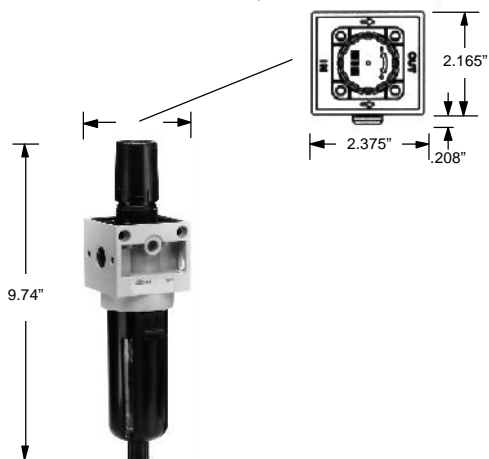
### Prefilter Option - Suffix "E"

All models can be equipped with an optional internal prefilter. The prefilter provides additional protection for the fine borosilicate fibers. For most applications, a separate 3 micron particulate filter is not required.

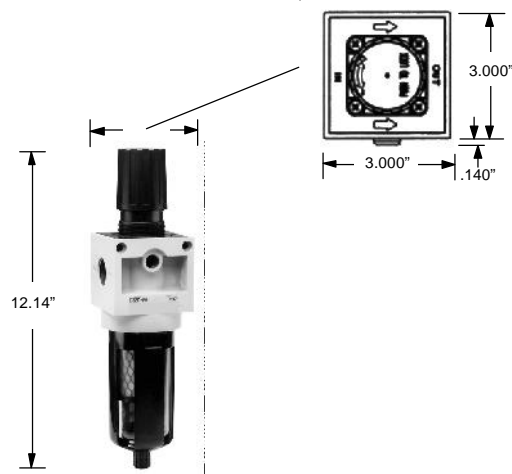
**MAXIMUM PRESSURE AND TEMPERATURE** IN MONNAIE MODULAR™ POLYCARBONATE BOWLS IS 150 PSI AND 120°F. METAL BOWL: 200 PSI, 120°F AND CIRCLEVIEW BOWL: 250 PSI AND 150°F.



## 22 SERIES COALESCER/REGULATOR 3.8-OUNCE CAPACITY PIPE SIZE: 1/4, 3/8, 1/2"



## 32 SERIES COALESCER/REGULATOR 8.5-OUNCE CAPACITY PIPE SIZE: 1/2, 3/4"

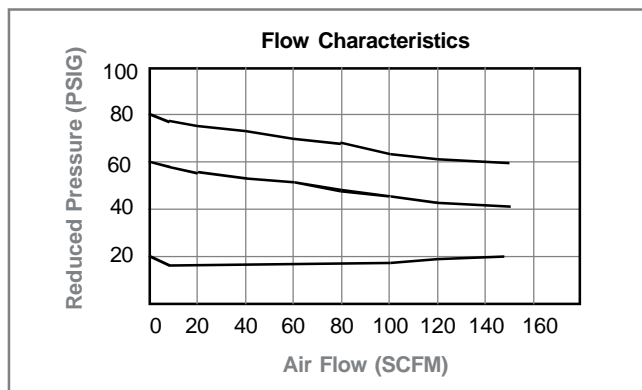
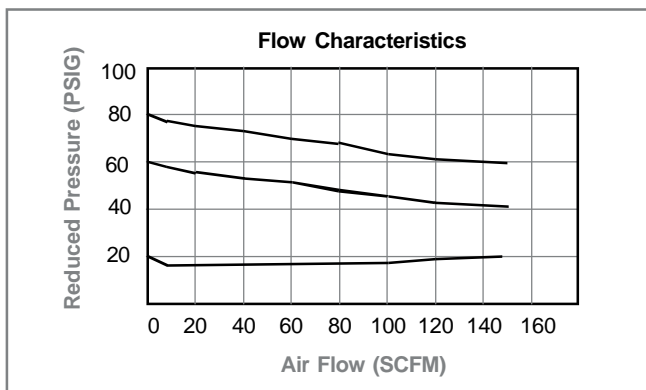


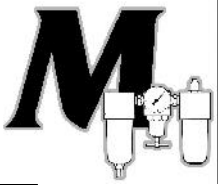
PIPE SIZE	ELEMENT RATING: BOWL TYPE AND MODEL NO.		SCFM AT 100 PSIG INLET & 1.5 PSID ACROSS THE ELEMENT		
<b>0.7 MICRON</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	<b>25    60    100</b>
1/4"	FR22-2107-2	FR22-2307-2	FR22-2007-2	20	26    34
3/8"	FR22-2107-3	FR22-2307-3	FR22-2007-3		
1/2"	FR22-2107-4	FR22-2307-4	FR22-2007-4		
<b>0.3 MICRON</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	
1/4"	FR22-2103-2	FR22-2303-2	FR22-2003-2	8	11    15
3/8"	FR22-2103-3	FR22-2303-3	FR22-2003-3		
1/2"	FR22-2103-4	FR22-2303-4	FR22-2003-4		
<b>0.1 MICRON</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	
1/4"	FR22-2101-2	FR22-2301-2	FR22-2001-2	3	5    6
3/8"	FR22-2101-3	FR22-2301-3	FR22-2001-3		
1/2"	FR22-2101-4	FR22-2301-4	FR22-2001-4		
<b>VAPOR ADSORBER</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	
1/4"	FR22-210A-2	FR22-230A-2	FR22-200A-2	8	11    15
3/8"	FR22-210A-3	FR22-230A-3	FR22-200A-3		
1/2"	FR22-210A-4	FR22-230A-4	FR22-200A-4		

PIPE SIZE	ELEMENT RATING: BOWL TYPE AND MODEL NO.		SCFM AT 100 PSIG INLET & 1.5 PSID ACROSS THE ELEMENT		
<b>0.7 MICRON</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	<b>25    60    100</b>
1/2"	FR32-1107-4	FR32-1307-4	FR32-1007-4	45	70    90
3/4"	FR32-1107-6	FR32-1307-6	FR32-1007-6		
<b>0.3 MICRON</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	
1/2"	FR32-1103-4	FR32-1303-4	FR32-1003-4	28	40    55
3/4"	FR32-1103-6	FR32-1303-6	FR32-1003-6		
<b>0.1 MICRON</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	
1/2"	FR32-1101-4	FR32-1301-4	FR32-1001-4	15	24    28
3/4"	FR32-1101-6	FR32-1301-6	FR32-1001-6		
<b>VAPOR ADSORBER</b>					
<b>POLYCARBONATE W/ BOWL GUARD</b>			<b>METAL</b>	<b>CIRCLEVIEW</b>	
1/2"	FR32-110A-4	FR32-130A-4	FR32-100A-4	28	40    55
3/4"	FR32-110A-6	FR32-130A-6	FR32-100A-6		

- Flow Ratings based upon 100 PSIG inlet and 1.5 PSID.
- To order with a gauge, add suffix "G".
- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.
- To order with prefilter, add suffix "E".
- To order with panel nut, add suffix "P".

- Flow Ratings based upon 100 PSIG inlet and 1.5 PSID.
- To order with a gauge, add suffix "G".
- To order with automatic drain, add suffix "D" for impulse drain or suffix "F" for float drain.
- To order with prefilter, add suffix "E".
- To order with panel nut, add suffix "P".





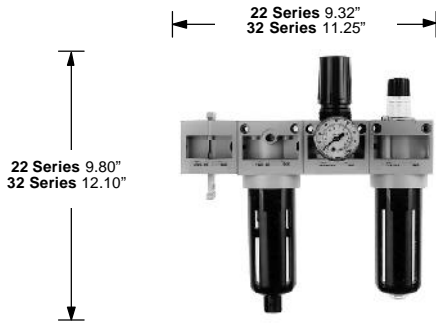
### ASSEMBLY OPTIONS

*Example*      **A22-VFRL-2**

- C** = Coalescer/Regulator Piggyback
- D** = Diverter Block
- F** = Filter
- FF** = Particulate & Coalescing Filters
- L** = Lubricators
- P** = Filter/Regulator Piggyback
- R** = Regulator
- V** = Shutoff Valve

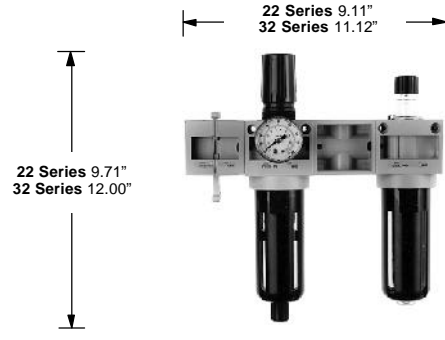
Suffixes	
Description	Suffix
Impulse Drain	= <b>D</b>
Automatic Float Drain	= <b>F</b>
Metal Bowl	= <b>M</b>
CircleView Bowl	= <b>C</b>

### SHUT OFF-FILTER-REGULATOR-LUBRICATOR WITH GAUGE



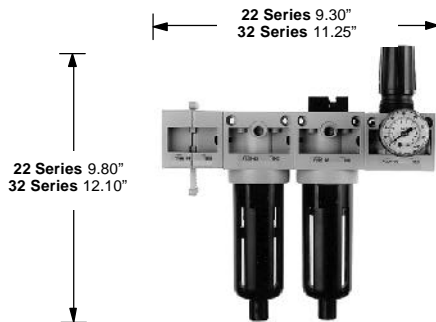
PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VFRL-2	A22-FRL-2
3/8"	A22-VFRL-3	A22-FRL-3
1/2"	A22-VFRL-4	A22-FRL-4
	<b>32 SERIES</b>	
1/2"	A32-VFRL-4	A32-FRL-4
3/4"	A32-VFRL-6	A32-FRL-6

### SHUT OFF-FILTER/REGULATOR-DIVERTER BLOCK-LUBRICATOR WITH GAUGE



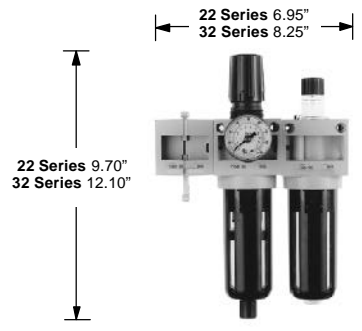
PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VPDL-2	A22-PDL-2
3/8"	A22-VPDL-3	A22-PDL-3
1/2"	A22-VPDL-4	A22-PDL-4
	<b>32 SERIES</b>	
1/2"	A32-VPDL-4	A32-PDL-4
3/4"	A32-VPDL-6	A32-PDL-6

### SHUT OFF-FILTER-COALESING FILTER-REGULATOR WITH GAUGE

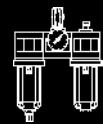


PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VFFR-2	A22-FFR-2
3/8"	A22-VFFR-3	A22-FFR-3
1/2"	A22-VFFR-4	A22-FFR-4
	<b>32 SERIES</b>	
1/2"	A32-VFFR-4	A32-FFR-4
3/4"	A32-VFFR-6	A32-FFR-6

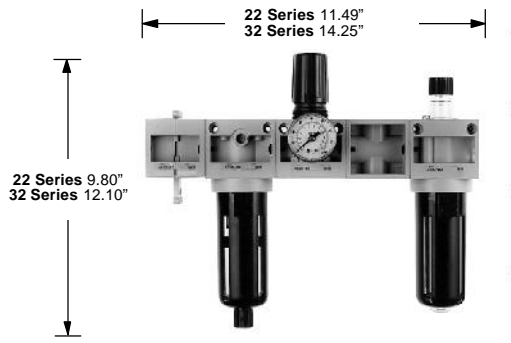
### SHUT OFF-COALESCEER/REGULATOR-LUBRICATOR WITH GAUGE



PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VCL-2	A22-CL-2
3/8"	A22-VCL-3	A22-CL-3
1/2"	A22-VCL-4	A22-CL-4
	<b>32 SERIES</b>	
1/2"	A32-VCL-4	A32-CL-4
3/4"	A32-VCL-6	A32-CL-6

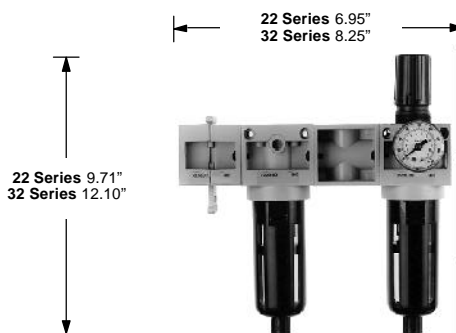


SHUT OFF-FILTER-REGULATOR-DIVERTER BLOCK-LUBRICATOR WITH GAUGE



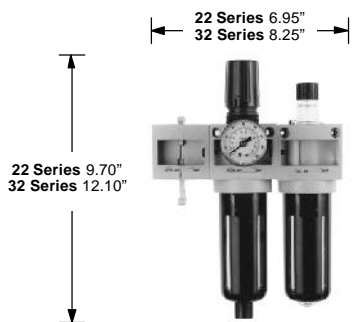
PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VERDL-2	A22-FRDL-2
3/8"	A22-VERDL-3	A22-FRDL-3
1/2"	A22-VERDL-4	A22-FRDL-4
	<b>32 SERIES</b>	
1/2"	A32-VERDL-4	A32-FRDL-4
3/4"	A32-VERDL-6	A32-FRDL-6

SHUT OFF-FILTER-DIVERTER BLOCK-COALESCE/REGULATOR WITH GAUGE



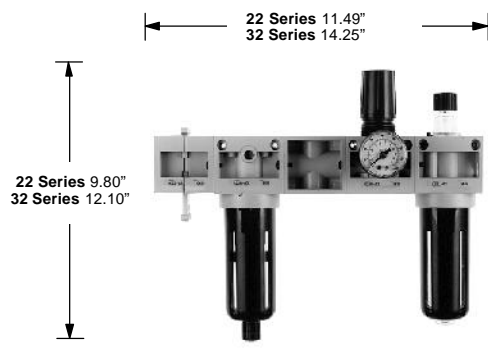
PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VFDC-2	A22-FDC-2
3/8"	A22-VFDC-3	A22-FDC-3
1/2"	A22-VFDC-4	A22-FDC-4
	<b>32 SERIES</b>	
1/2"	A32-VFDC-4	A32-FDC-4
3/4"	A32-VFDC-6	A32-FDC-6

SHUT OFF-FILTER/REGULATOR-LUBRICATOR WITH GAUGE

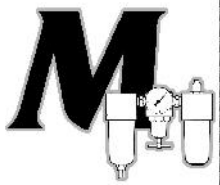


PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VPL-2	A22-PL-2
3/8"	A22-VPL-3	A22-PL-3
1/2"	A22-VPL-4	A22-PL-4
	<b>32 SERIES</b>	
1/2"	A32-VPL-4	A32-PL-4
3/4"	A32-VPL-6	A32-PL-6

SHUT OFF-FILTER-DIVERTER BLOCK-REGULATOR-LUBRICATOR WITH GAUGE

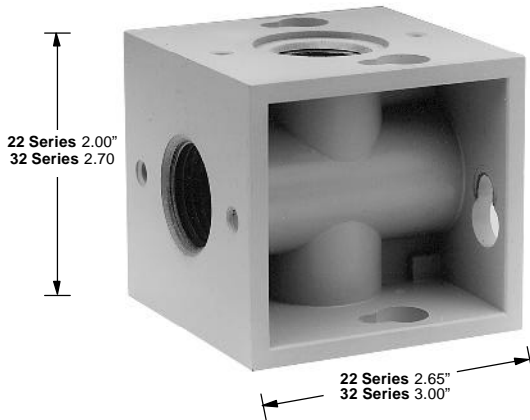


PIPE SIZE	MODEL NO.	
	<b>22 SERIES</b>	
	<b>W/ SHUTOFF</b>	<b>W/O SHUTOFF</b>
1/4"	A22-VFDR-2	A22-FDR-2
3/8"	A22-VFDR-3	A22-FDR-3
1/2"	A22-VFDR-4	A22-FDR-4
	<b>32 SERIES</b>	
1/2"	A32-VFDR-4	A32-FDR-4
3/4"	A32-VFDR-6	A32-FDR-6



## DIVERTER BLOCKS

Designed to give Monnaie Modulares™ 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 ports per unit; both are tapered for standard service.

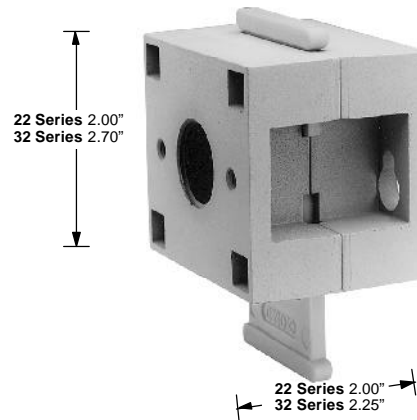


SERIES	MODEL NUMBER		PORTS
	NPTF	G TAP	
22	DB-22	DBG-22	Tapped 1/2" NPTF in and out with two 3/8" NPTF branches.
32	DB-32	DBG-32	Tapped 3/4" NPTF in and out with two 1/2" NPTF branches.

## SHUT-OFF VALVE

### Features

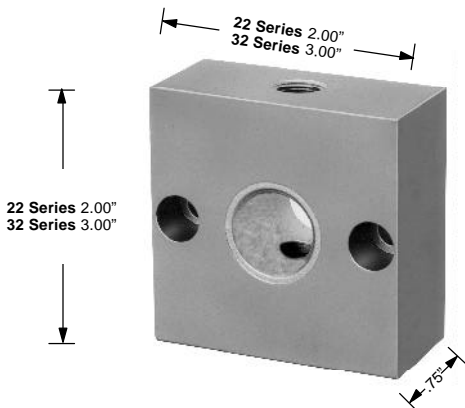
- Relieves downstream pressure when closed
- Security hole provided for lock-off
- Easy Modular Connection
- Can be used as individual component



SERIES	MODEL NUMBER		PORTS
	NPTF	G TAP	
22	V22-2	VG22-2	1/4"
	V22-3	VG22-3	3/8"
	V22-4	VG22-4	1/2"
32	V32-4	VG32-4	1/2"
	V32-6	VG32-6	3/4"

## DIVERTER PLATES

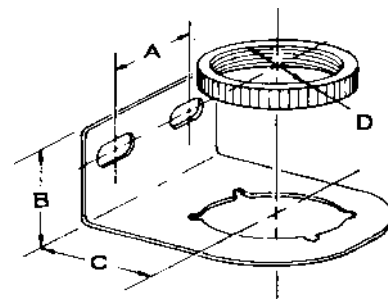
Monnaie Modular™ Diverter Plates are designed to provide air signals in compact space. Used individually or in combination they can be used with gauges or switches to determine a pressure or ΔP signal.



SERIES	NPTF	MODEL NUMBER		OUTLET PORTS
		G TAP		
22	DP-22	DPG-22		1/8"
32	DP-32	DPG-32		1/8"

**Application:** Mounts between two units

## MOUNTING BRACKETS



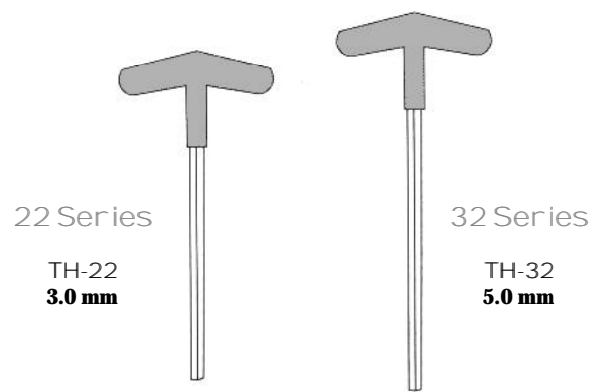
SERIES	MODEL NO.	DIMENSIONS			
		A	B	C	D
22	MB-22	.69"	1.06"	1.25"	1-1/4-16
32	MB-32	1.63"	1.20"	1.50"	1-3/4"-16



## Monnaie Modular™ T-Handle Drivers

For easy assembly or disassembly of Monnaie Modular™ combinations, we recommend T-Handle drivers. For your convenience, we offer both sizes required.

SERIES	MODEL NUMBER	SIZE RANGE
22	TH-22	3.0 mm
32	TH-32	5.0 mm



## Application

Monnier's new line of pressure switches is designed for accurate indication that proper system pressure is being achieved. Available in 1/8" or 1/4" threads, it is easily incorporated into an air system using a diverter plate or other manifold.

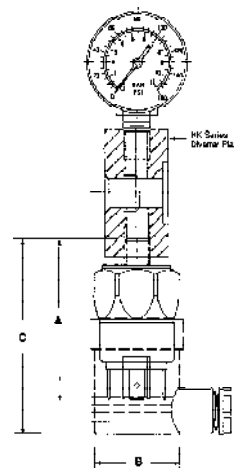
With its rugged housing made from zinc coated steel, Monnier's pressure switches are designed for industrial multi-million cycle applications. The four-pin connector plug is included and contains a key way preventing accidental misconnection. Pressure adjustment is tamper resistant hindering unauthorized changes. It can be wired in either normally open or normally closed configurations and includes a case ground pin.

## Monnaie Modular™ Pressure Switches



## Specifications

- Contact Rating: 4 A @ 250 VAC
- Protection: IP 65, terminals IP00
- Maximum Operation: 200/min
- Temperature Range: 0° F to 190° F/-15° C to 85° C
- Maximum Pressure: 300 PSI/20 BAR
- Maximum Voltage: 250 VAC/200 DC
- Hysteresis Adjustment: 15%
- Connector Material: Polyamid
- Diaphragm Material: Buna N
- Housing Material: Zinc Plated Steel



THREAD NPT	MODEL NUMBER PSG180	PSIG	DIMENSIONS		
			A	B	C
1/8"	PSG180B-1	4-20	2.5	1.0	3.1
1/8"	PSG180B-1	14-150	2.5	1.0	3.1
1/4"	PSG180B-1	4-20	2.5	1.0	3.1
1/4"	PSG180B-1	14-150	2.5	1.0	3.1
METRIC G-TAP	MODEL NUMBER PSG180	PSIG	DIMENSIONS		
1/4"	PSG180B-1	4-20	2.3	1.0	2.9
1/4"	PSG180B-1	14-150	2.3	1.0	2.9
REPLACEMENT CAP	PS-180				