

70 & 72 Series

Stainless Steel FRL Series







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70 & 72 Series Stainless Steel Series

- Two Series Available High Flow and Miniature
- 316 Stainless Steel Construction
- All Viton Seals
- 5 Micron Particulate
- Three Grades Coalescing One Adsorbing
- Meets NACE Specifications
- High Flow in a Compact Size







Particulate Filter F72 Series

Particulate air filters are designed to separate liquid, water, rust, pipe scale, and debris from air lines. They should be installed upstream of the regulator 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 ID of the bowl then fall down past the quiet zone baffle to the water sump. Dry air passes through the sintered element utilizing depth filtration and removes debris down to specified micron size.



ANSI SYMBOL

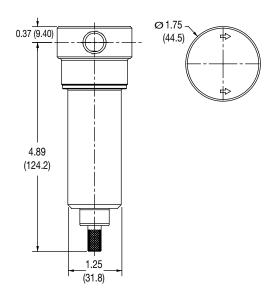
- Features316 stainless steel body construction
- All seals made of Flourocarbon (FKM)
- Meets NACE specifications
- Internal plastic parts
- Acetal and ABS
- Element Polyethelene

Specifications

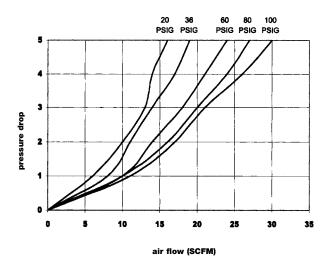
Max. Pressure: 300 PSIG (20 bar)

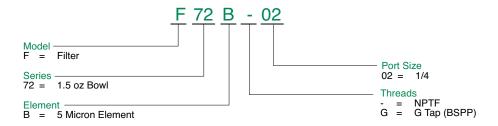
Temperature Range: 40° to 180° F (4° to 82° C)

Dimensions in inches (mm)



Flow Rates











Coalescing Filter

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. It works differently than the particulate filter; dirty air enters the element from the center and passes through a field of glass fibers which cause the aerosols to form into droplets which are heavier than the surrounding air. The droplets grow larger as they pass through the element and gravity causes the oil drops to drain to the sump of the bowl. To maximize the life of a coalescing filter it should always be used after a 5 micron particulate filter or with the optional prefilter.



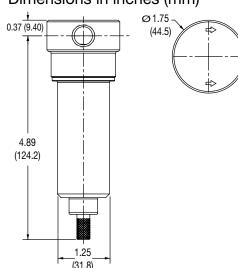
- 316 stainless steel body construction
- All seals made of Flourocarbon (FKM)
- Meets NACE specifications
- Internal plastic parts
- Acetal and ABS
- Element: Vacuum formed borosilicate glass fibers
- Cartridge element design
- Inner and outer support cores prevent element from crushing in either flow direction

Specifications

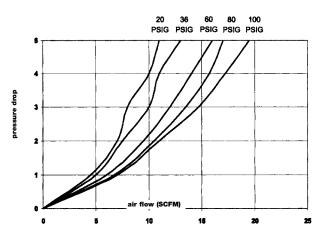
Max. Pressure: 300 PSIG (20 bar)

Temperature Range: 40° to 180° F (4° to 82° C)

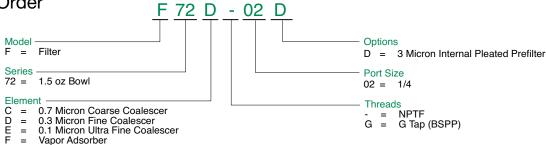
Dimensions in inches (mm)



Flow Rates



How to Order



Recommended Uses

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

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').

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 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 'D

Models using the C, D, or E grade elements can be equipped with an optional 3 micron internal prefilter. The prefilter provides additional protection for the fine borosilicate fibers. For most applications, a separate 5 micron particulate filter is not required.



numatics



R72R-02 pictured

Stainless Steel Regulator R72 Series

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 knob 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 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.



ANSI SYMBOL

Features

- 316 stainless steel body construction
- All seals made of Flourocarbon (FKM)
- Standard output pressure 0-125 PSIG
- Meets NACE specifications
- Bonnet and Knob Acetal

Internal Metal Parts

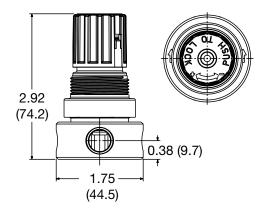
- Valve Stainless Steel
- Springs Stainless Steel

Specifications

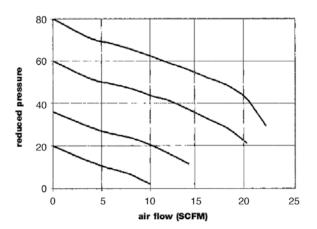
Max. Pressure: 300 PSIG (20 bar)

Temperature Range: 40° to 180° F (4° to 82° C)

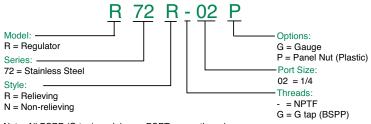
Dimensions in inches (mm)



Flow Rates



How To Order



Note: All BSPP (G tap) models use BSPT gauge threads.





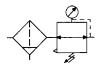


Stainless Steel Particulate Filter/Regulator P72 Series

Application

The integral filter/regulator ('piggyback') is a two station component designed to filter and regulate compressed air when cost and space are of primary concern. As wet, dirty 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 of the 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.





ANSI SYMBOL

Features

- 316 stainless steel body construction
- All seals made of Flourocarbon (FKM)
- 0-125 PSI standard
- Meets NACE specifications
- Bonnet and Knob Acetal

Internal plastic parts

- Acetal and ABS
- Element Polyethelene

Internal Metal Parts

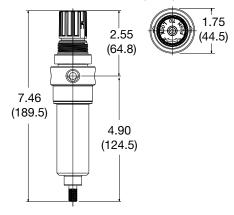
- Valve Stainless Steel
- Springs Stainless Steel

Specifications

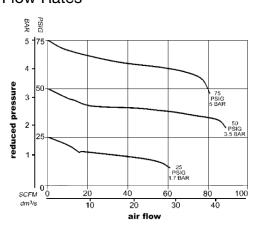
Max. Pressure: 300 PSIG (20 bar)

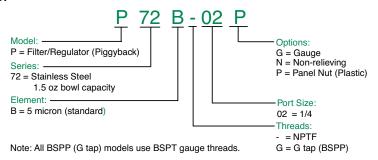
Temperature Range: 40° to 180° F (4° to 82° C)

Dimensions in inches (mm)



Flow Rates









ANSI SYMBOL



Coalescing Filter/Regulator C72 Series

The Numatics C Series Coalescer/ Regulator is a two station point of use air preparation system designed to provide superior filtration and regulation in one compact housing. The C Series combines a multiple support cartridge style borosilicate glass element with a regulator to assure the maximum performance of downstream components. Available with four different element grade choices, the C Series Coalescer/ Regulator can be outfitted to attack and remove the exact type of contamination that is critical to a specific application.

Features

- 316 stainless steel body construction
- All seals made of Flourocarbon (FKM)
- 0-125 PSI standard
- Meets NACE specifications
- Bonnet and Knob Acetal

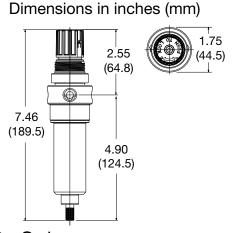
Internal plastic parts

- Acetal and ABS
- Element: Vacuum formed borosilicate glass fibers Internal Metal Parts
- Valve Stainless Steel
- Springs Stainless Steel

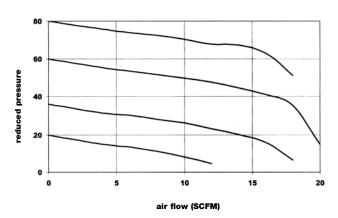
Specifications

Max. Pressure: 300 PSIG (20 bar)

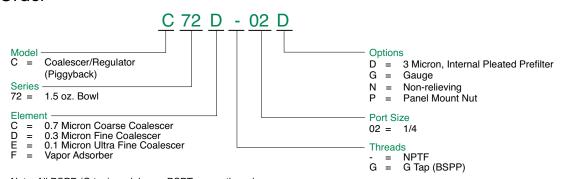
Temperature Range: 40° to 180° F (4° to 82° C)



Flow Rates - based on 100psi inlet



How to Order



Note: All BSPP (G tap) models use BSPT gauge threads.

Prefilter Option - Suffix 'D'

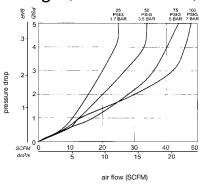
Models using the C, D, or E grade elements can be equipped with an optional 3 micron internal prefilter. The prefilter provides additional protection for the fine borosilicate fibers. For most applications, a separate 5 micron particulate filter is not required.







Flow Ratings (based on 100 PSI inlet)



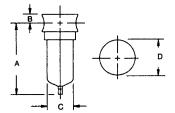
Stainless Steel Particulate Filter F70B Series

- 316 Stainless Steel Body Construction
- All Seals Made of Flourocarbon (FKM)
- 5 Micron Element Standard
- Meets NACE Specifications

Specifications

Temperature Range °F (°C): 40°-180° (4°-82°) Max. Operating Pressure PSIG (BAR): 300 (20)

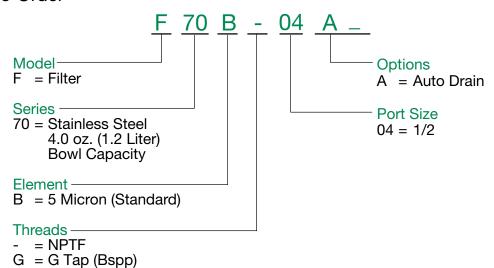
Weight, lbs. (kg.): 1.88 (.85) Element: Sintered Polypropylene



Dimensions

top dimensions = inches bottom dimensions (in parenthesis) = millimeters

SERIES	А	В	С	D
70	5.00	0.56	1.75	2.38
	(127.0)	(14.0)	(44.0)	(60.0)

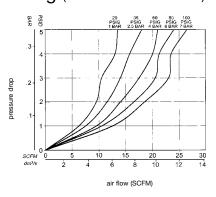








Flow Rating (based on 100 PSI inlet)

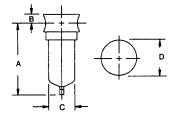


Stainless Steel Coalescing Filter F70D Series

- 316 Stainless Steel Body Construction
- Complete Coalescing Filter Line
- All Seals Made of Flourocarbon (FKM)
- Meets NACE Specifications

Specifications

Temperature Range °F (°C): 40°-180° (4°-82°) Max. Operating Pressure PSIG (BAR): 300 (20) Weight, lbs. (kg.): 1.88 (.85)

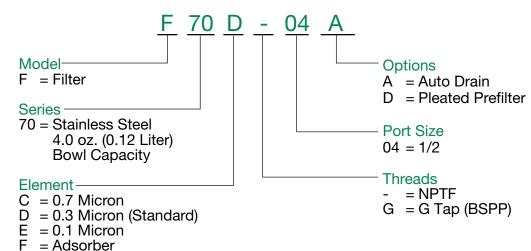


Dimensions

top dimensions = inches

bottom dimensions (in parenthesis) = millimeters

SERIES	А	В	С	D
70	5.00	0.56	1.75	2.38
	(127.0)	(14.0)	(45.0)	(60.0)



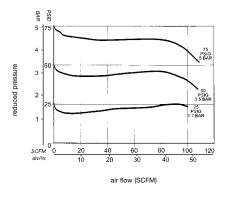








Flow Ratings (based on 100 PSI inlet)



Stainless Steel Regulator

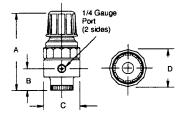
R70 Series

- 316 Stainless Steel Body Construction
- All Seals Made of Flourocarbon (FKM)
- 0-125 PSI Standard
- Meets NACE Specifications

Specifications

Temperature Range °F (°C): 40° to 150° (4° to 65°) Max. Operating Pressure PSIG (BAR): 350 (24)

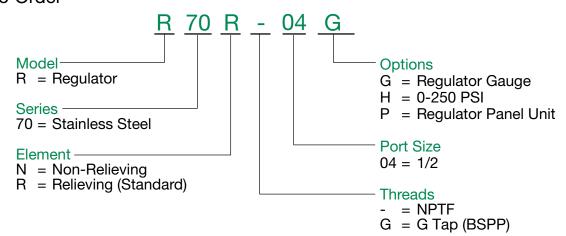
Weight, lbs. (kg.): 1.79 (.81)



Dimensions

top dimensions = inches bottom dimensions (in parenthesis) = millimeters

SERIES	А	В	С	D
70	4.94	1.38	2.31	2.44
	(125.0)	(35.0)	(59.0)	(62.0)

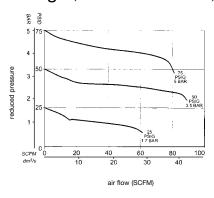








Flow Ratings (based on 100 PSI inlet)



Stainless Steel Particulate Filter/ Regulator

P70 Series

- 316 Stainless Steel Body Construction
- All Seals Made of Flourocarbon (FKM)
- 0-125 PSI Standard
- Meets NACE Specifications

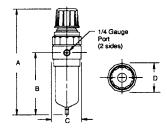
Specifications

Temperature Range °F (°C): 40° to 180° (4° to 82°)

Max. Operating Pressure PSIG (BAR): 300 (20)

Weight, lbs. (kg.): 2.43 (1.1)

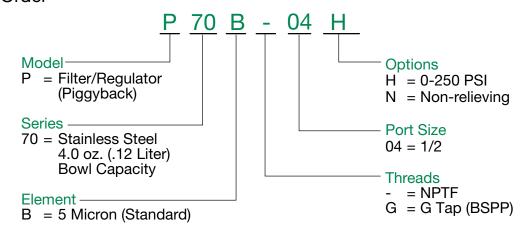
Element: Sintered Polypropylene



Dimensions

top dimensions = inches bottom dimensions (in parenthesis) = millimeters

SERIES	А	В	С	D
70	8.50	4.94	2.38	2.44
	(216.0)	(125.0)	(60.0)	(62.0)

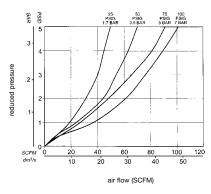








Flow Ratings (based on 100 PSI inlet)



Stainless Steel Lubricator

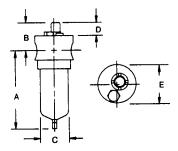
L70L Series

- 316 Stainless Steel Body Construction
- All Seals Made of Flourocarbon (FKM)
- Meets NACE Specifications

Specifications

Temperature Range °F (°C): 40° to 150° (4° to 65°) Max. Operating Pressure PSIG (BAR): 350 (24)

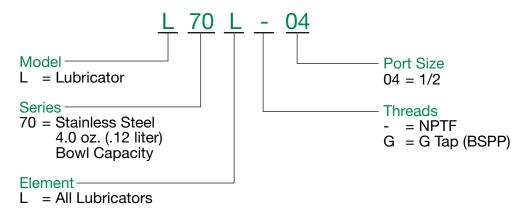
Weight, lbs. (kg.): 1.79 (.81)



Dimensions

top dimensions = inches bottom dimensions (in parenthesis) = millimeters

SERIES	Α	В	С	D	E
70	5.00	1.81	1.75	0.94	2.38
	(126.0)	(46.0)	(45.0)	(24.0)	(60.0)









Replacement Kits

70 Series Stainless Steel Particulate Filter

➤ Element Replacement Kits

includes filter element only

kit # description

EKF20A 70 Series, 40 micron element EKF20B 70 Series, 5 micron element

70 Series Stainless Steel Coalescing Filter

➤ Element Replacement Kits

includes filter element only

kit # description

EKF20C 70 Series, 0.7 micron element EKF20CD

EKF20CD 70 Series, 0.7 micron element with prefilter

EKF20D 70 Series, 0.3 micron element

EKF20DD 70 Series, 0.3 micron element with prefilter

EKF20E 70 Series, 0.1 micron element

EKF20ED 70 Series, 0.1 micron element with prefilter

EKF20F 70 Series, adsorbing element

70 Series Stainless Steel Regulator

➤ Regulator Repair Kits

kit # description

RKC70 70 Series, cage kit (inc. adjustment knob and spring cage)
RKR70R 70 Series, (inc. relieving diaphragm and inner valve)
70 Series, (inc. non-relieving diaphragm and inner valve)

70 Series Stainless Steel Lubricator

➤ Lubricator Repair Kits

includes adjustment assembly

kit # description

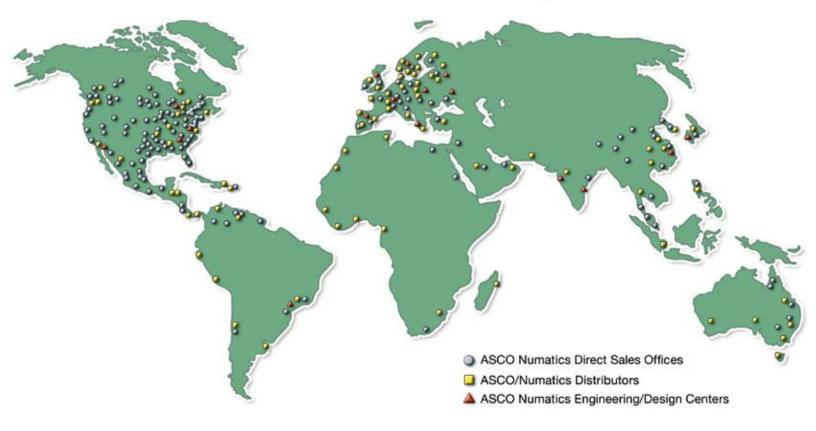
RKL70 70 Series, lubricator repair kit



Notes

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