

Schroeder Process Filtration - Table of Contents

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	RF3-C	20-120 (80-470)	
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	RF3-1	395-1,120 (1,500-4,235)	
	RF3-2	880-1,980 (3,335-7,500)	
	RF3-2.5	1,760-2,640 (6,670-10,000)	
	RF3-3	2,420-3,790 (9,170-14,350)	
	RF3-4	3,570-7,490 (13,500 - 28,300)	
	RF3-5	6,600-10,790 (25,000 - 40,850	
	RF3-6	8810-15,850 (33,350-60,000)	
	RF3-7	13,200-22,000 (50,000-83,350)	
	RF3-8	19,800-33,000 (75,000-125,000)TR	
	RF5	748-18,480 (2,833-70,000)	
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Corporate Overview



Schroeder Industries, an ISO 9001:2008 certified company, focuses on developing filtration and fluid service products for our customers in the fluid power industry, and is proud of our proven track record of providing quality products over the last sixty five years. The designs you see in this catalog are the result of

thousands of hours of field testing and laboratory research and decades of experience.

Schroeder was one of the first companies to demonstrate the need for, and benefits of, hydraulic filtration. We pioneered the development of micronic filtration, helping to set performance standards in industrial fluid power systems. As a result, Schroeder is now a leader in filtration and fluid conditioning and the proof of our expertise lies in our broad mix of unsurpassed products. Our mission statement reflects our continuing commitment to excellence:

Partnerships

Innovating products, solutions, processes and services to improve performance and efficiency in industry.

We design solutions for industry and for the success of our customers by:

- Optimizing the use of technology with applications
- Using an efficient, timely customized process to fill specific customer needs
- Increasing manufacturing capacity and streamlining operations
- Preserving our reputation for reliability
- Expanding globally to support our customers and stay current with new technologies
- Leveraging and sharing our knowledge to meet challenges openly
- Nurturing a creative, cooperative culture committed to the individual and to providing the best solutions for our customers

Our goal is to be your partner in filtration. Our expertise in filtration technology, superior filter and element technology capabilities and a level of dedication to customer service and product support are the reasons we're a worldwide leader in Advanced Fluid Conditioning Solutions.TM

Committed to providing the best available filter products, Schroeder Industries will show how we meet all of the necessary cleanliness levels at a competitive price. As a cost-effective quality producer, we will work with your purchasing department to supply filtration technology and develop long-range pricing programs that can improve your company's bottom line.



Introduction to Process Filtration Technology

The keystone product of Schroeder Process Filtration is the RF3 automatic self-cleaning backflush filter. This filter along with bag filters, cartridge filters and custom designed systems allows Schroeder to offer you complete solutions to your process filtration needs.

Our process filters are used to remove solid contamination from fluids and protect the integrity of high grade components that depend on low viscosity water or water-based fluids and emulsions. Schroeder offers high performance filters for all industrial sectors. Improvements in operational efficiency, reduced downtime, lower maintenance costs and reduced environmental impact can all be expected.

Schroeder's backflush filters come in many sizes to fit a wide range of applications. From pressures of 150 psi to 5,000 psi and flows from 20 gpm to 33,000 gpm, there is a backflush solution for many processes. Backflush filters are either automatic or manually operated. Many are made from stainless steel, but they are also available in carbon steel, with protective coating or from brass. Backflush filters are generally used more for coarse filtration.

Fine filtration can be achieved in many ways. Schroeder offers bag filters and cartridge filters to filter fluids as low as 1 micron. Bag, cartridge and rolling media filters offer an economical filtration solution. The elements are disposable and easily changed.

The most important aspects of filter selection include performance, efficiency, system parameters and of course, economic impact. Choosing the proper filter for your specific need is not difficult, but certainly requires some attention and understanding of specific parameters. This catalog was designed to help you find the right filter to meet your needs.



Industries Served



























Agriculture

Irrigation is critical to the success of the agriculture industry. Filtering irrigation water will extend the life of pumps, pipes, nozzles and headers.

Automotive Manufacturing

Better filtration of cutting fluid water emulsions to extend service life and reduce environmental impact. Treatment of the cooling water allows for a cleaner, less abrasive supply.

Chemical Processing

Improving the product quality by filtration of process fluids.

Industrial

Continuous filtration of cooling water, cutting fluids and other service liquids within the plant increases component reliability and reduced downtime due to service interventions.

Machine Tool

Improving the condition of emulsified cutting fluids to extend service life and reduce environmental impact.

Marine

Filtration of inlet water used for cooling various components, fire suppression, bilges, ballast and raw stock for potable water generators.

Mining Technology

Underground spray water filtration for process consistency and improved reliability of pumps and cutting heads. Treatment of water hydraulics in long-wall applications to increase component life and reduce environmental impact.

Offshore

Filtration of inlet water used for cooling various components, fire suppression, bilges and raw stock for potable water generators.

Paper Industry

Protecting screen spray nozzles and dynamic shaft seals through efficient filtration to increase efficiency and extend service life.

Power Generation

Treatment of inlet cooling water supply for the generators allows for a cleaner, less abrasive supply. Filtration of the water supply to the dynamic "sliding-ring" water seal on the turbine shaft increases service life of the seal.

Sewage and Waste Water Treatment

Coarse filtration of the water supply and pre-treatment of effluent. In industrial situations, take-off filtration of the clear run water saves valuable potable resources.

Steel Making

Treatment of inlet cooling water supply used for various processes, including rolling mills and furnaces. Nozzles and pumps in descaling operations are protected by thorough filtration of the water.

Thermal Transfer

Protection of heat exchangers and radiant devices from becoming clogged with solid contaminants in the transfer fluid.

Filter Selection

When considering a Schroeder Process Filter for your application, you can select from three basic designs:

- 1. Backflush Filters (automatic and manual) Backflushing filters cover a wide range of flows and filtration ratings. Some are automatic using electronics and pneumatics controlled by a PLC-based panel. Others require an operator to manually back-flush the filter. The elements in each of the backflush filters are reusable.
- 2. Bag Filter Systems These filter housings come standard sizes 1, 2, 3 and 4. Size 2 multi-bag housings are available for higher flow applications. The filter bags are disposable and available in many types of felt and mesh. They are suitable for coarse and fine filtration.
- 3. Cartridge Filter Systems Cartridge elements utilize depth filtration to increase dirt holding capacity while offering efficient filtration. The elements are well suited for fine filtration. Housings for these elements are available in polypropylene for single cartridges and stainless steel for multiple cartridges.

There are eight (8) main considerations in choosing the proper filter housing:

1. Fluid Compatibility – How will the materials of construction and seals for both the housing and element withstand the process medium?

Materials of Construction

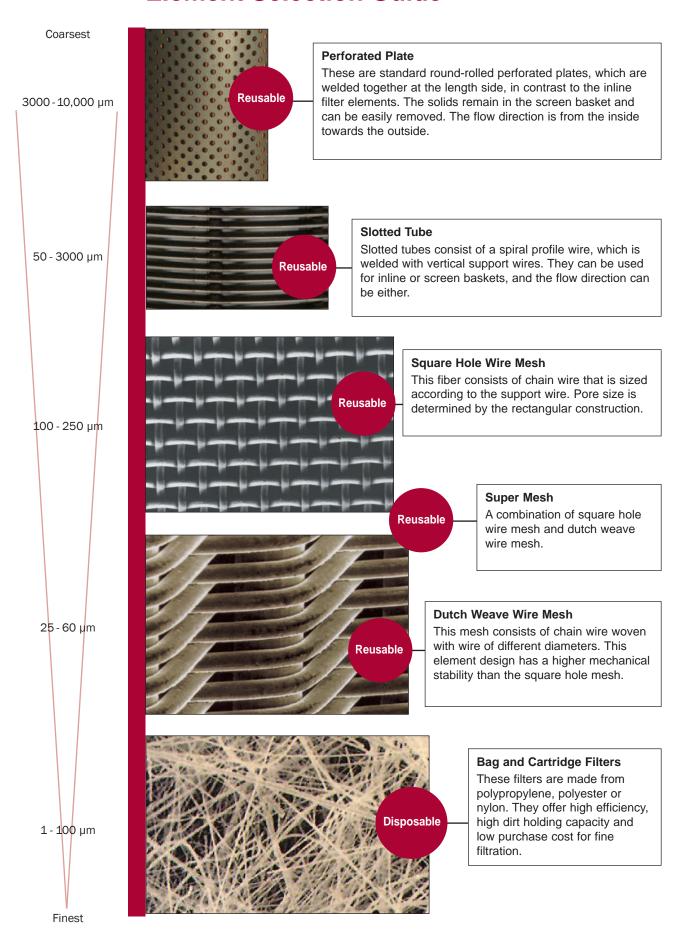
- a. Housing Construction Carbon steel, stainless steel, polypropylene, brass and more.
- b. Seals Buna, EPDM, Viton, Teflon® (a registered trademark of DuPont Dow Elastomers) and more.
- c. Filter Elements Please see Element Selection Guide and Technical Data Section (page 6) for more detailed information.
- 2. Pressure Rating The maximum sustainable working pressure of the system.
- 3. Pressure Drop (loss) How important is maintaining pressure rating and heat generation in the system?
- 4. Process Connection Size The process piping and specific requirements of the system determine these criteria.
- 5. Filter Element Options What is the desired pore size of the element and the requirements of the system (please see Filter Element Selection)?
- 6. Overall Efficiency Based on filter element selection.
- 7. Accessories Gauges, system monitoring, control panels.
- 8. Economic Considerations

The model numbering selection chart on each product spread will provide an easy method to fully define the product you need for your specific application.

The information provided in this section is for reference only, and should be used as a guide when selecting the proper filters, elements, materials of construction and determining fluid compatibility. For your specific application, contact Schroeder Industries at www.schroederindustries.com, by phone at 724.318.1100 or fax at 724.318.1200.

Filter Housing Selection

Element Selection Guide



Element Selection Guide

The fundamentals of filter element selection will focus upon the type of fluid you are filtering and what filtration level you require.

In some cases, basic filtration is required when coarse materials in the fluid are to be removed. In other instances, extremely fine filtration may be needed for the specific process or equipment within the system.

There are two classes of filter elements:

- 1. Reusable
- 2. Disposable

Once again, we set the standard for environmental stewardship with reusable filter elements. When choosing the proper filter element, you now have a choice not only based on filtration requirements, but on the materials of construction and the possibility of environmental impact. As you begin the selection process for filters and filter elements, you will be able to add to your criteria whether a disposable or reusable element suits your application best. Consideration should be given to all of the environmental consequences, and we urge you to contact our application engineers during the selection process.

Reusable Elements

Designed to allow the user to replenish the media through cleaning, these elements utilize metallic media for long-term usage. Reusable elements are easily cleaned. In some cases, "intelligence" is built into the filter housing and through an internal process, the filter performs the cleaning process itself. This feature is the benchmark of the RF3 backflushing products.

Disposable Elements

Our disposable bag and cartridge elements are manufactured from polypropylene, polyester, nylon and other low cost durable materials. They are engineered to offer high dirt holding capacity and high efficiency at an economical price. These elements are reliable and are used for fine filtration.

The graphical representation on the previous page demonstrates five differing element types and their corresponding micronic range. This is critical to selecting the level of cleaning required in your system. It is important to select the medium that is appropriate to your application. There are dangers in both undersizing and oversizing of the element. Selecting a pore size too large can have adverse effects on your process or the equipment you are trying to protect. Selecting a pore size smaller than your requirements will ad unnecessary protection and introduce pressure drop and heat that may affect your process. If you are unsure of your specific requirements, please contact our application engineers for assistance. The filter model number selection chart on each product spread will provide an easy method to fully define the product you need for your specific application.

Filter Element Selection

Automatic Backflushing Filters



- Non-stop filtration.
- Virtually maintenancefree filter for continuous operation.

The RF3 Automatic Backflushing Filters are complete filtration systems. These unique products are not only performing the task of filtering low viscosity liquids, but also the cleaning of their array of reusable conical filter elements via PLC controlled mechanism.

Since particles in process fluids have an influence on the quality of the end product and they increase the attrition rate of system components, proper protection through efficient filtration is needed. The RF3 self-cleaning filters provide this protection with uninterrupted operation.

The RF3 automatic self-cleaning filters are used for extracting particulate contaminants. The rugged design and automatic self-cleaning capability give this filter product the ability to make a major contribution to operational reliability, reduction of maintenance costs and overall efficiency in many process systems.

The RF3 filters have a special housing design that incorporates an array of filter elements. The special Slotted Tube and SuperMesh elements with pore sizes from 25 to 3000 micron ensure highly effective removal of particulate contamination from the process medium. The adjustable differential pressure switch triggers the self-cleaning function. Each individual filter element is cleaned with filtrate in the reverse flow direction while being totally isolated from the rest of the element array. This is how the RF3 can continue to filter without any interruption of the filtration process during the backflush cycle.

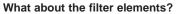
The RF3 filters are a relatively simple mechanical design as illustrated here. Pre filtered liquid enters the inlet port and exits through the outlet port after passing through the conical element array. The flow direction of the elements is from inside out, and particles are collected on the smooth interior surfaces for easy cleaning. As the level of contamination increases, so does the differential pressure across the

When does the self-cleaning function occur?

As the amount of contamination collected in the elements increases, so does the differential pressure. When the differential pressure reaches the set point, a signal is sent to the PLC inside the control panel, which initiates the backflush cycle. The cleaning cycle can also be started by the adjustable timer located inside the control panel, or by simply pressing the cycle start button located on the front of the control panel.

How does the self-cleaning system operate?

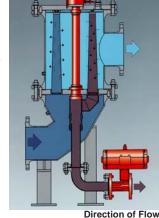
The process starts with the geared motor located on top of the filter positioning the backflush arm beneath the first element to be cleaned. Once in position, the control panel opens the backflush valve, which creates a pressure gradient that reverses the flow of filtrate through this single element. The reverse flow cleans the element of the collected particles. The valve then closes and the motor positions the arm beneath the next element to be cleaned. The backflush cycle is complete when all of the elements in the array have been cleaned.



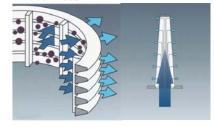
The conical shaped filter elements used in the RF3 selfcleaning filters are specially designed for isokinetic filtering and backflushing. This tapered design results in an even flow distribution, low pressure drop and a uniform distribution of contaminate inside the elements. The advantages: longer time between backflush cycles, less loss of process fluid and more complete and efficient cleaning of the conical wedge wire elements.

Are there any other unique features?

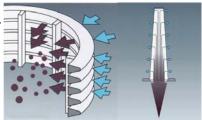
The PLC control has some benefits that aren't immediately visible. During the self-cleaning operation, the backflush valve is in position under the element being cleaned for just a few seconds. The backflush valve is opened and closed rapidly, causing a "pulsation" of filtrate through the filter element openings. These pressure surges produce a superior cleaning effect in a shorter time. The result is fewer cleaning cycles, shorter duration and lower consumption of filtrate.



Filtration Mode



Backflush Mode



Automatic Backflushing Filters

Some of the RF3 Benefits:

- Excellent price to performance ratio
- High filtration quality
- Low occurrence of service staff intervention
- Low operating cost
- Low maintenance cost
- Continuous operation of process
- High flow rate for maximum performance

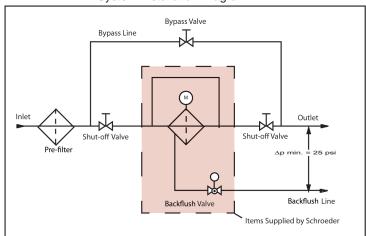
- Low pressure drop
- Low energy consumption
- Superior self-cleaning functionality
- Application specific design
- Efficient design / small envelope
- Simple installation
- Maximum use of filtration surfaces for best efficiency
- Patented element design
- 25 to 3000 micron filtration

Filter Elements

Installation Guidelines

- Minimum inlet pressure of 35 psi
- Maximum 2 psi clean pressure differential between inlet and outlet
- Minimum 25 psi between the outlet and the backflush line (preferably the backflush line goes to atmospheric pressure)

System Installation Diagram















MACHINE TOOL

PAPER INDUSTRY

WASTEWATER TREATMENT

TECHNOLOGY

INDUSTRIAL **GENERATION**

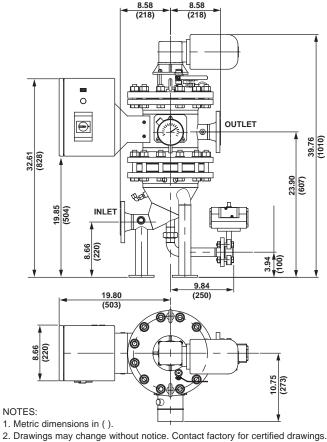
SCHROEDER INDUSTRIES | PROCESS FILTRATION

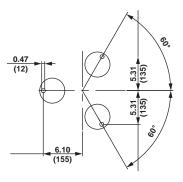
Industries Served

20-120 gpm 80-470 L/min

> 150 psi 10 bar







MOUNTING PATTERN

Flange Size: 2" ANSI

Flow Range: 20-120 gpm (80-470 L/min)

Working Pressure: 230 psi (16 bar)

Max. Working Temperature: 194°F (90°C)

Empty Weight: 266 lbs. (121 kg)

Housing Volume: 4 gallons (15 L)

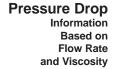
Filter Area: 331 in² (2140 cm²)

No. of Filter Elements:

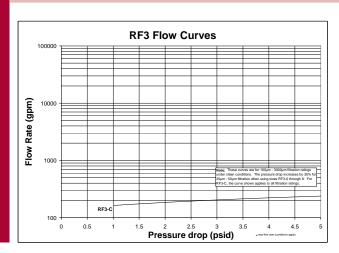
Backflushing Flange Size: 1"ANSI

> Backflush Volume: 7 gallons (25L/cycle) Electric-Pneumatic Controls (EPT) 35 gallons

(125L/cycle) All Electric Controls (EU)



Specifications





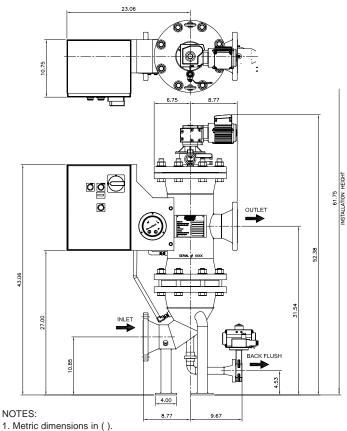
How to Build a Valid Model Number for a RF3: **Filter** RF3-C Model BOX 1 BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** BOX 2 BOX 3 BOX 4 BOX 5 Number RF3 RF3-0 Selection Example: NOTE: One option per box BOX 2 BOX 3 BOX 4 BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** RF3-1 EPT8 = RF3-C-EPT8-NG-N-1-3-0/ RF3 NMA 3 0 KS1000 С Ν KS1000-C-ASME RF3-2 BOX 1 BOX 2 BOX 3 BOX 5 Filter / Flange **Drive Control / Connecting Housing Material** Shut-Off Filter RF3-2.5 Size Voltage and Coating Valve Material Series N = Standard Steel N = Standard Steel EPT = Electric pneumatic cycle RF3 С 1.0038. outside control, Δp dependent RF3-3 primed = Electric control, Δp NM = Standard Steel dependent 1.0038, outside RF3-4 PT = Pneumatic cyclic control, primed, inside Δp dependent metallogal painted PTZ = Pneumatic cyclic timed NG =Standard Steel RF3-5 control 1.0038, outside primed, inside rubber 7 = 3X415V/N/PE 60Hzcoated 8 = 3X460V/X/PE 60HzRF3-6 E = Stainless Steel B = 3X575V/X/PE 60Hz1.4571 E = 1X230V/N/PE 60HzRF3-7 A = with ANSI-flanged, F = 1X110V/N/PE 60Hz additional A at the end **RF3-8** BOX 6 BOX 7 BOX 8 BOX 9 **Differential Pressure** Flange Position **Modification Number Element Set** Gauge RF5 1 = Filter outlet opposite KD25 Conical 1 = Pressure Chamber, filter inlet (standard) Aluminum 3.258302 0 = Latest version SuperMesh supplied by factory 2 = Filter outlet offset 90° RF7 KD40 Conical 2 = Pressure Chamber, clockwise to standard SuperMesh Stainless Steel 1.4305 3 = Filter outlet offset by KS50 Conical Slotted 3 = With Chemical Seal 180° clockwise to RF4-1 Stainless Steel 315TI standard KS100 Conical Slotted Tubes 4 = Filter outlet offset by RF4-2 270° clockwise to KS200 Conical Slotted standard Tubes KS300 Conical Slotted **BWF** Tubes KS400 Conical Slotted Tubes RFH-1 KS500 Conical Slotted Tubes RFH-2 Conical Slotted KS1000 Tubes KS1500 Conical Slotted RFH-4 Tubes **BOX 10 BOX 11** KS2000 Conical Slotted Tubes Size of Element Set **Vessel Certification ATF** NOTES: KS2500 Conical Slotted Box 3. Needs to have Tubes control type and Omit = Standard Version С voltage selected ex. EPT8. KS3000 Conical Slotted ASME = ASME Version Tubes Box 4. can contain two options ex. NMA. If ANSI flanges are not specified DIN style will be

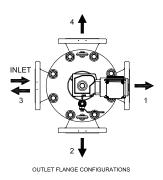
provided.

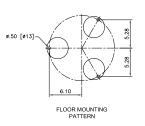
110-500 gpm 420-1880 L/min

> 150 psi 10bar









- 2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Flange Size: 4"ANSI

Flow Range: 110-500 gpm (420-1800 L/min)

Working Pressure: 150 psi (10 bar)

Max. Working Temperature: 194°F (90°C)

> **Empty Weight:** 320 lbs. (145 kg) Housing Volume: 7 gallons (25 L)

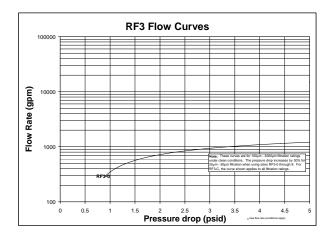
Filter Area: 590 in.2 (3810 cm2)

No. of Filter Elements 6

Backflush Flange Size: 1"ANSI

> Backflush Volume: 7 gallons (26 L/cycle) Electric-Pneumatic Controls (EPT) 35 gallons (132 L/cycle) All Electric Con-







How to Build a Valid Model Number for a RF3: **Filter** Model BOX 1 BOX 2 BOX 3 BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** BOX 5 Number RF3 RF3-0 Selection Example: NOTE: One option per box RF3-1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 RF3 EPT8 KS1000 ASME = RF3-0-EPT8-NG-N-1-3-0/ NG Ν 0 KS1000-0-ASME RF3-2 BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 Filter Flange **Drive Control / Connecting Housing Material** RF3-2.5 Voltage and Coating Valve Material Series N = Standard steel N = Standard Steel EPT = Electric pneumatic cycle RF3 0 1.0038. outside control, Δp dependent RF3-3 E = Stainless Steel primed = Electric control, Δp NM = Standard Steel dependent 1.0038, outside RF3-4 primed, inside = Pneumatic cyclic control, Δp dependent metallogal painted PTZ = Pneumatic cyclic timed NG =Standard Steel RF3-5 control 1.0038, outside primed, inside rubber 7 = 3X415V/N/PE 60Hzcoated 8 = 3X460V/X/PE 60HzRF3-6 E = Stainless Steel B = 3X575V/X/PE 60Hz1.4571 E = 1X230V/N/PE 60Hz A = with ANSI-flanged, RF3-7 F = 1X110V/N/PE 60Hzadditional A at the end BOX 6 BOX 7 BOX 8 BOX 9 RF3-8 **Differential Pressure Modification Number** Flange Position **Element Set** Gauge 1 = Filter outlet opposite RF5 KD25 1 = Pressure Chamber, Conical filter inlet (standard) 0 = Latest version supplied SuperMesh Aluminum 3.258302 by factory 2 = Filter outlet offset 90° KD40 Conical 2 = Pressure Chamber, RF7 clockwise to standard SuperMesh Stainless Steel 1.4305 3 = Filter outlet offset by KS50 Conical Slotted 3 = With Chemical Seal 180° clockwise to Tubes Stainless Steel 315 TI RF4-1 standard KS100 Conical Slotted Tubes 4 = Filter outlet offset by 270° clockwise to KS200 Conical Slotted RF4-2 standard Tubes KS300 Conical Slotted Tubes **BWF** Conical Slotted KS400 Tubes RFH-1 KS500 Conical Slotted Tubes KS1000 = Conical Slotted RFH-2 Tubes KS1500 = Conical Slotted **BOX 10 BOX 11** Tubes RFH-4 Size of Element Set **Vessel Certification** KS2000 = Conical Slotted Tubes Omit = Standard Version KS2500 Conical Slotted ATF 0 ASME = ASME Version Tubes NOTES: Box 3. Needs to have KS3000 = Conical Slotted control type and Tubes voltage selected ex. EPT8. Box 4. can contain two options ex. NMA. If ANSI flanges are not specified

RF3-C

DIN style will be provided.

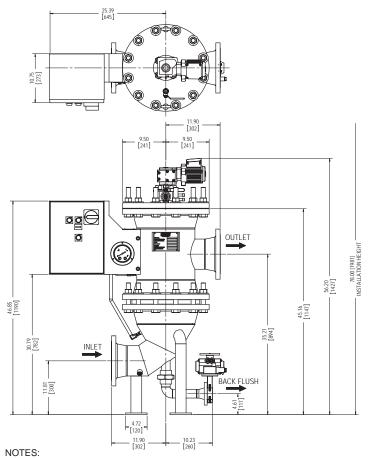
RF3-1

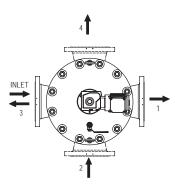
Backflushing Filter AutoFilt® RF3

395-1120 gpm 1500-4235 L/min

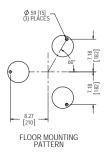
150 psi *10 bar*







OUTLET FLANGE CONFIGURATIONS



- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact factory for certified drawings.

Flange Size: 6"ANSI

Flow Range: 395-1120 gpm (420-1800 L/min)

Working Pressure: 150 psi (10 bar)

Max. Working Temperature: 194°F (90°C)

Empty Weight: 530 lbs. (240 kg)

Housing Volume: 16 gallons (60 L)

Filter Area: 960 in.2 (6190 cm2)

No. of Filter Elements 6

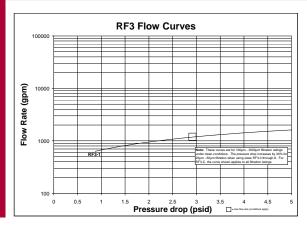
Backflush Flange Size: 1 1/2"ANSI

Backflush Volume: 9 gallons (34 L/cycle) Electric-Pneumatic Controls (EPT)

45 gallons (170 L/cycle) All Electric Controls (EU)



Specifications





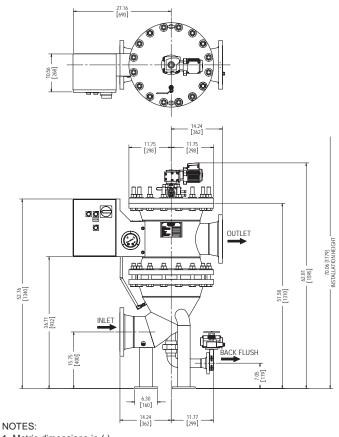
RF3-C How to Build a Valid Model Number for a RF3: **Filter** Model BOX 1 BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** Number RF3 RF3-0 Selection Example: NOTE: One option per box RF3-1 BOX 2 BOX 3 BOX 5 BOX 6 BOX 4 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 KS1000 ASME RF3 EPT8 NG Ν 1 3 1 = RF3-1-EPT8-NG-N-1-3-0/ KS1000-1-ASME RF3-2 BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 Flange **Drive Control / Connecting Housing Material** Shut-Off Filter RF3-2.5 Voltage and Coating Valve Material Size N = Standard Steel N = Standard Steel EPT = Electric pneumatic cycle RF3 1.0038, outside 1 control, Δp dependent RF3-3 E = Stainless Steel primed EU = Electric control, Δp NM = Standard Steel dependent 1.0038, outside RF3-4 primed, inside PT = Pneumatic cyclic control, Δp dependent metallogal painted PTZ = Pneumatic cyclic timed NG =Standard Steel RF3-5 control 1.0038, outside 7 = 3X415V/N/PE 60Hzprimed, inside rubber coated 8 = 3X460V/X/PE 60Hz RF3-6 E = Stainless Steel B = 3X575V/X/PE 60Hz1.4571 E = 1X230V/N/PE 60HzA = with ANSI-flanged, RF3-7 F = 1X110V/N/PE 60Hzadditional A at the end RF3-8 BOX 6 BOX 7 BOX 8 BOX 9 RF5 **Differential Pressure** Flange Position **Modification Number Element Set** Gauge 1 = Filter outlet opposite KD25 1 = Pressure Chamber, 0 = Latest version supplied Conical RF7 filter inlet (standard) SuperMesh Aluminum 3.258302 by factory 2 = Filter outlet offset 90° KD40 Conical 2 = Pressure Chamber, clockwise to standard SuperMesh Stainless Steel 1.4305 RF4-1 3 = Filter outlet offset by KS50 Conical Slotted 3 = With Chemical Seal 180° clockwise to Tubes Stainless Steel 315 TI standard RF4-2 KS100 Conical Slotted Tubes 4 = Filter outlet offset by 270° clockwise to KS200 Conical Slotted standard **BWF** Tubes KS300 Conical Slotted Tubes RFH-1 KS400 Conical Slotted Tubes Conical Slotted KS500 RFH-2 Tubes **BOX 10** BOX 11 KS1000 Conical Slotted Tubes RFH-4 Size of Element Set **Vessel Certification** KS1500 Conical Slotted Tubes Omit = Standard Version ATF KS2000 = Conical Slotted ASME = ASME Version Tubes NOTES: Box 3. Needs to have KS2500 Conical Slotted control type and Tubes voltage selected KS3000 Conical Slotted ex. EPT8. Box 4. can contain two Tubes options ex. NMA. If ANSI flanges are not specified DIN style will be

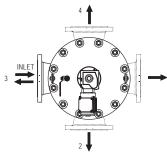
provided.

880-1980 gpm 3335-7500 L/min

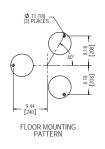
> 150 psi 10 bar







OUTLET FLANGE CONFIGURATIONS



- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Flange Size: 8"ANSI

Flow Range: 880-1980 gpm (420-1800 L/min)

Working Pressure: 150 psi (10 bar) Max. Working Temperature: 194°F (90°C)

Empty Weight: 805 lbs. (365 kg) Housing Volume: 28 gallons (60 L)

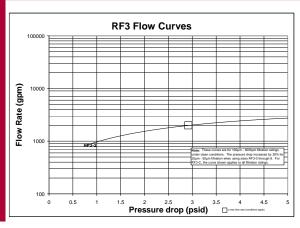
> 1280 in.2 (8250 cm2) Filter Area:

No. of Filter Elements 2"ANSI Backflush Flange Size:

> 13 gallons (50 L/cycle) Electric-Pneumatic Controls (EPT) Backflush Volume:

65 gallons (246 L/cycle) All Electric Controls (EU)

Pressure Drop Information Based on Flow Rate and Viscosity





RF3-C How to Build a Valid Model Number for a RF3: **Filter** Model BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** RF3 Number RF3-0 Selection Example: NOTE: One option per box RF3-1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 RF3 EPT8 NG KS1000 2 ASME = RF3-2-EPT8-NG-N-1-3-0/ Ν 3 KS1000-2-ASME RF3-2 BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 Filter Flange **Drive Control / Connecting Housing Material** Shut-Off RF3-2.5 Size and Coating Valve Material Voltage Series N = Standard Steel N = Standard Steel EPT = Electric pneumatic cycle 2 RF3 1.0038, outside control, Δp dependent E = Stainless Steel RF3-3 primed EU = Electric control. Δp NM = Standard Steel dependent 1.0038, outside RF3-4 primed, inside PT = Pneumatic cyclic control, Δp dependent metallogal painted PTZ = Pneumatic cyclic timed NG =Standard Steel RF3-5 control 1.0038, outside 7 = 3X415V/N/PE 60Hzprimed, inside rubber coated 8 = 3X460V/X/PE 60Hz RF3-6 E = Stainless Steel B = 3X575V/X/PE 60Hz1.4571 E = 1X230V/N/PE 60HzA = with ANSI-flanged, RF3-7 F = 1X110V/N/PE 60Hz additional A at the end BOX 6 BOX 7 BOX 8 BOX 9 RF3-8 **Differential Pressure** Flange Position **Modification Number Element Set** Gauge 1 = Filter outlet opposite RF5 1 = Pressure Chamber. KD25 Conical filter inlet (standard) 0 = Latest version supplied SuperMesh Aluminum 3.258302 by factory 2 = Filter outlet offset 90 KD40 Conical 2 = Pressure Chamber, clockwise to standard RF7 SuperMesh Stainless Steel 1.4305 3 = Filter outlet offset by KS50 Conical Slotted 3 = With Chemical Seal 180° clockwise to Tubes Stainless Steel 315 TI RF4-1 standard KS100 Conical Slotted Tubes 4 = Filter outlet offset by 270° clockwise to KS200 Conical Slotted RF4-2 standard Tubes KS300 Conical Slotted Tubes **BWF** KS400 Conical Slotted Tubes **BOX 10 BOX 11** RFH-1 KS500 Conical Slotted Size of Element Set **Vessel Certification** Tubes Conical Slotted KS1000 Omit = Standard Version RFH-2 Tubes 2 ASME = ASME Version Conical Slotted KS1500 Tubes RFH-4 KS2000 = Conical Slotted Tubes KS2500 Conical Slotted ATF NOTES: KS3000 Conical Slotted Box 3. Needs to have Tubes control type and voltage selected ex. EPT8. Box 4. can contain two options ex. NMA. If ANSI flanges are not specified DIN style will be

provided.

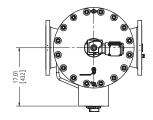
RF3-2.5 Backflushing Filter AutoFilt® RF3

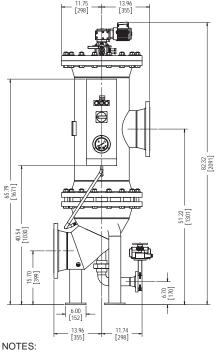
1760-2640 gpm 6670-10,000 L/min

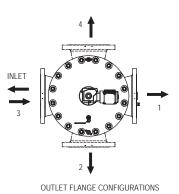
> 150 psi 10bar

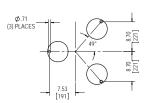


Specifications









- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact factory for certified drawings.

Flange Size: 10"ANSI

1760-2640 gpm (6670-10,000 L/min) Flow Range:

Working Pressure: 150 psi (10 bar) Max. Working Temperature: 194°F (90°C)

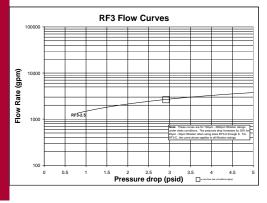
> **Empty Weight:** 990 lbs. (450 kg) Housing Volume: 50 gallons (190 L) Filter Area: 1940 in.2 (12,500 cm2)

No. of Filter Elements Backflush Flange Size:

> Backflush Volume: 17 gallons (65 L/cycle) Electric-Pneumatic Controls (EPT)

85 gallons (325 L/cycle) All Electric Controls (EU)





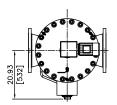
RF3-C How to Build a Valid Model Number for a RF3: **Filter** Model BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** RF3 Number RF3-0 Selection Example: NOTE: One option per box RF3-1 BOX 2 BOX 3 BOX 4 BOX 6 BOX 7 BOX 5 BOX 8 BOX 9 BOX 10 BOX 11 RF3 2.5 EPT8 KS1000 ASME = RF3-2.5-EPT8-NG-N-1-3-0 NG Ν 3 2.5 KS1000-2.5-ASME RF3-2 BOX 1 BOX 2 BOX 4 BOX 5 BOX 3 **Flange Drive Control / Connecting Housing Material** Shut-Off Filter RF3-2.5 Size Voltage and Coating Valve Material Series N = Standard Steel N = Standard Steel EPT = Electric pneumatic cycle RF3 2.5 1.0038, outside control, Δp dependent E = Stainless Steel RF3-3 primed EU = Electric control, Δp NM = Standard Steel dependent 1.0038, outside RF3-4 PT = Pneumatic cyclic control, primed, inside Δp dependent metallogal painted PTZ = Pneumatic cyclic timed NG =Standard Steel RF3-5 control 1.0038, outside primed, inside rubber 7 = 3X415V/N/PE 60Hzcoated 8 = 3X460V/X/PE 60Hz RF3-6 E = Stainless Steel B = 3X575V/X/PE 60Hz1.4571 E = 1X230V/N/PE 60HzA = With ANSI-flanged, RF3-7 F = 1X110V/N/PE 60Hzadditional A at the end BOX 6 BOX 7 BOX 8 BOX 9 RF3-8 Differential Pressure **Modification Number** Flange Position **Element Set** Gauge 1 = Filter outlet opposite RF5 1 = Pressure Chamber. KD25 Conical filter inlet (standard) Aluminum 3.258302 SuperMesh 2 = Filter outlet offset 90° KD40 Conical 2 = Pressure Chamber, 0 = Latest version supplied clockwise to standard RF7 SuperMesh Stainless Steel 1.4305 by factory 3 = Filter outlet offset by KS50 Conical Slotted 3 = With Chemical Seal 180° clockwise to Tubes Stainless Steel 315 TI RF4-1 standard KS100 Conical Slotted Tubes 4 = Filter outlet offset by 270° clockwise to KS200 Conical Slotted RF4-2 standard Tubes KS300 Conical Slotted Tubes **BWF** KS400 Conical Slotted Tubes **BOX 10 BOX 11** RFH-1 KS500 Conical Slotted Tubes Size of Element Set **Vessel Certification** Conical Slotted KS1000 =RFH-2 Tubes Omit = Standard Version 2.5 Conical Slotted KS1500 ASME = ASME Version Tubes RFH-4 KS2000 =Conical Slotted Tubes KS2500 = Conical Slotted ATF NOTES: KS3000 Conical Slotted Box 3. Needs to have control type and Tubes voltage selected ex. EPT8. Box 4. can contain two options ex. NMA. If ANSI flanges are not specified

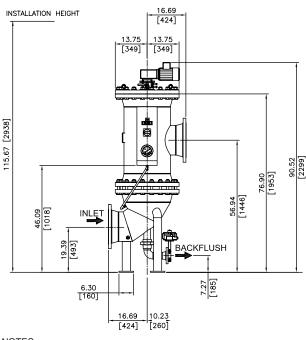
DIN style will be provided.

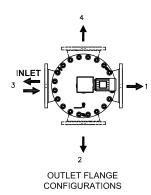
2420-3790 gpm 9170-14350 L/min

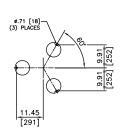
> 150 psi 10 bar











FLOOR MOUNTING

NOTES:

- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Flange Size: 12"ANSI

Flow Range: 2420-3790 gpm (9170-14,350 L/min)

Working Pressure: 150 psi (10 bar) Max. Working Temperature: 194°F (90°C) Empty Weight: 1260 lbs. (570 kg)

> 74 gallons (280 L) Housing Volume: Filter Area: 2910 in.2 (18,750 cm2)

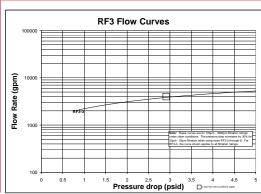
No. of Filter Elements 9

Backflush Flange Size: 2.5"ANSI

Backflush Volume: 25 gallons (95 L/cycle) Electric-Pneumatic Controls (EPT)

125 gallons (475 L/cycle) All Electric Controls (EU)

Pressure Drop Information Based on Flow Rate and **Viscosity**



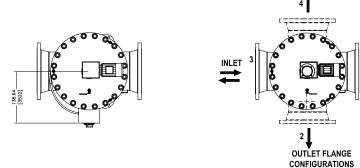


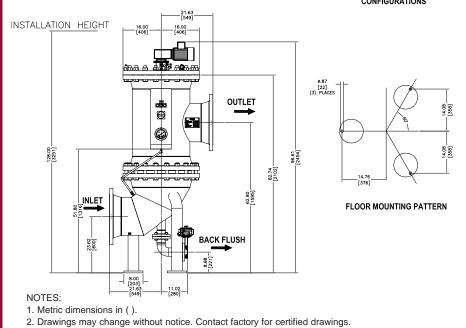
BOX 1 BOX 2 BOX 3 RF3		6 BOX	7 BOX 8 BOX 9	9 BO	X 10 BOX 11	Filter RF3-C Model Number RF3-C
Example: NOTE: One opt	tion per box					Selection
BOX 1 BOX 2 BOX 3	OX 4 BOX 5 BOX 6 BOX 7		BOX 9 BOX 10 B KS1000 3 A		= RF3-3-EPT8-NG-N-1-3-0/	RF3-1
					KS1000-3-ASME	RF3-2
BOX 1 BOX 2 Filter Flange	BOX 3 Drive Control / Conne	cting	BOX 4 Housing Materi	al	BOX 5 Shut-Off	
Series Size	Voltage	oung	and Coating		Valve Material	RF3-2.5
RF3 3	EPT = Electric pneumatic control, Δp depend		N = Standard Stee 1.0038, outside primed	1	N = Standard Steel E = Stainless Steel	RF3-3
	EU = Electric control, Δμ dependent)	NM = Standard Ste	el		
	PT = Pneumatic cyclic o	control,	1.0038, outside primed, inside metallogal paint	ed		RF3-4
	PTZ = Pneumatic cyclic t control 7 = 3X415V/N/PE 6	60Hz	NG =Standard Stee 1.0038, outside primed, inside ru coated			RF3-5
	8 = 3X460V/X/PE 6 B = 3X575V/X/PE 6		E = Stainless Steel			RF3-6
	E = 1X230V/N/PE (F = 1X110V/N/PE (1.4571 A = With ANSI-flang additional A at the			RF3-7
BOX 6	BOX 7		BOX 8		BOX 9	RF3-8
Differential Pressure Gauge	Flange Position	Mod	ification Number		Element Set	
1 = Pressure Chamber, Aluminum 3.258302	1 = Filter outlet opposite filter inlet (standard)		test version supplied	KD2	25 = Conical SuperMesh	RF5
2 = Pressure Chamber, Stainless Steel 1.4305	2 = Filter outlet offset 90° clockwise to standard	ру	factory	KD4	40 = Conical SuperMesh	RF7
3 = With Chemical Seal Stainless Steel 315 TI	3 = Filter outlet offset by 180° clockwise to			KS	50 = Conical Slotted Tubes	RF4-1
	standard 4 = Filter outlet offset by			KS1	100 = Conical Slotted Tubes	
	270° clockwise to standard			KS2	200 = Conical Slotted Tubes	RF4-2
				KS	300 = Conical Slotted Tubes	BWF
				KS4	400 = Conical Slotted Tubes	RFH-1
				KS	500 = Conical Slotted Tubes	Krii-i
BOX 10 Size of Element Set	BOX 11 Vessel Certification			KS1	1000 = Conical Slotted Tubes	RFH-2
Size of Element Set	Omit = Standard Version			KS1	1500 = Conical Slotted Tubes	RFH-4
3	ASME = ASME Version			KS2	2000 = Conical Slotted Tubes	
		_		KS2	2500 = Conical Slotted Tubes	ATF NOTES:
				KS	3000 = Conical Slotted Tubes	Box 3. Needs to have control type and voltage selected ex. EPT8. Box 4. can contain two
						options ex. NMA. note. If ANSI flanges are not specified DIN style will be provided.

3570-7490 gpm 13,500-28,300 L/min

> 87 psi 6 bar







Specifications

Flange Size: 16"ANSI 3570-7490 gpm (13,500-28,300 L/min) Flow Range:

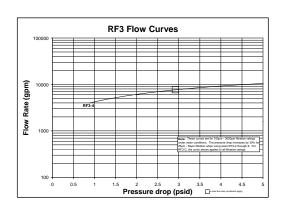
87 psi (6 bar) Working Pressure: Max. Working Temperature: 194°F (90°C) 1650 lbs. (750 kg) **Empty Weight:**

> **Housing Volume:** 112 gallons (425 L) Filter Area: 5810 in.2 (37,500 cm2)

No. of Filter Elements Backflush Flange Size:

> 55 gallons (210 L/cycle) Electric-Pneumatic Controls (EPT) 275 gallons (1050 L/cycle) All Electric Controls (EU) Backflush Volume:

Pressure Drop Information Based on Flow Rate and Viscosity





How to Build a Valid Model	Number for a RF3:						Filter	RF3-C
BOX 1 BOX 2 BOX 3	BOX 4 BOX 5 BOX 6	6 BOX 7 B	OX 8 BOX 9	BOX 10	BOX 1	11	Model Number Selection	RF3-0
Example: NOTE: One option	·							RF3-1
BOX 1 BOX 2 BOX 3 BOX 4 EPT8 NG	4 BOX 5 BOX 6 BOX 7 N 1 3	BOX 8 BOX KS10		1E = RF3	3-4-EPT 1000-4- <i>i</i>	8-NG-N-1-3-0/ ASME		RF3-2
BOX 1 BOX 2	BOX 3		BOX 4		В	3OX 5		
Filter Flange Series Size	Drive Control / Connec	cting H	lousing Material and Coating			ut-Off Material		RF3-2.5
RF3 4	EPT = Electric pneumatic control, Δp depend	cycle	Standard Steel 1.0038, outside primed			andard Steel ainless Steel		RF3-3
	EU = Electric control, Δp dependent	INIVI	= Standard Steel					RF3-4
	PT = Pneumatic cyclic c Δp dependent	ontrol, p	orimed, inside metallogal painted					1/1 3-4
	PTZ = Pneumatic cyclic ti control 7 = 3X415V/N/PE 6	1	=Standard Steel 1.0038, outside primed, inside rubb	er				RF3-5
	8 = 3X460V/X/PE 6 B = 3X575V/X/PE 6	0Hz 60Hz E =	coated Stainless Steel I.4571					RF3-6
	E = 1X230V/N/PE 6 F = 1X110V/N/PE 6	0Hz A = 1	With ANSI-flanged, additional A at the e					RF3-7
BOX 6	BOX 7	ВО	X 8		ВО	⟨9		RF3-8
Differential Pressure Gauge	Flange Position	Modification	on Number	E	Elemen	t Set		RF5
1 = Pressure Chamber, Aluminum 3.258302	= Filter outlet opposite filter inlet (standard)	0 = Latest ve	rsion supplied	KD25	= Co St	onical uperMesh		
2 = Pressure Chamber, Stainless Steel 1.4305	2 = Filter outlet offset 90° clockwise to standard			KD40	= Co Su	onical uperMesh		RF7
3 = With Chemical Seal Stainless Steel 315 TI	B = Filter outlet offset by 180° clockwise to standard			KS50		onical Slotted ubes		RF4-1
4	= Filter outlet offset by			KS100		onical Slotted ubes		DE4.0
	270° clockwise to standard			KS200		onical Slotted ubes		RF4-2
				KS300		onical Slotted ubes		BWF
				KS400		onical Slotted ubes		RFH-1
BOX 10	BOX 11			KS500		onical Slotted ubes		
Size of Element Set	Vessel Certification			KS1000		onical Slotted ubes		RFH-2
	Omit = Standard Version			KS1500		onical Slotted ubes		RFH-4
4	ASME = ASME Version			KS2000		onical Slotted ubes		٨ΤΕ
				KS2500		onical Slotted ubes	NOTES:	ATF
				KS3000		onical Slotted ubes	Box 3. Needs to h control typ voltage se ex. EPT8.	e and lected
							Box 4. can contain options ex note. If ANSI flar are not spend DIN style with provided.	. NMA. nges ecified

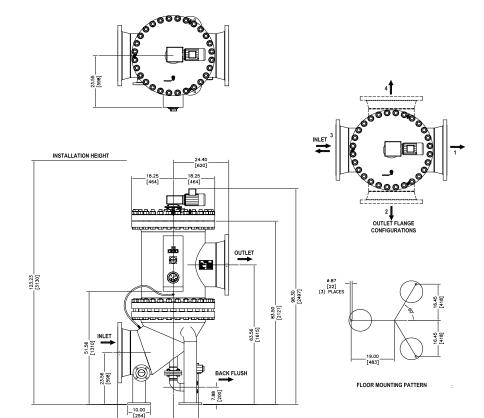
RF3-5

Backflushing Filter AutoFilt® RF3

6600-10790 gpm 25,000-40,850 L/min

87 psi 6 bar





NOTES:

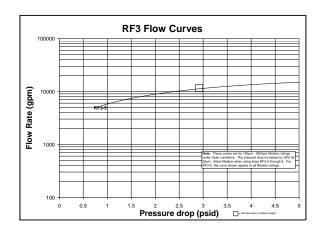
- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact Factory for certified drawings.

Specifications

Flange Size: 20"ANSI Flow Range: 66000-10,790 gpm (25,000-40,850 L/min) Working Pressure: 87 psi (6 bar) Max. Working Temperature: 194°F (90°C) Empty Weight: 2250 lbs. (10200 kg) Housing Volume: 168 gallons (635 L) Filter Area: 8640 in.2 (55,760 cm2) No. of Filter Elements 24 Backflush Flange Size: 3"ANSI Backflush Volume: 82 gallons (310 L/cycle) Electric-Pneumatic Controls (EPT)

410 gallons (1550 L/cycle) All Electric Controls (EU)

Pressure Drop Information Based on Flow Rate and Viscosity





BOX 1 BOX 2 BOX 3 RF3	BOX 4 BOX 5 BOX 6	6 BOX 7	BOX 8 BOX 9	BOX 10	BOX 11	Filter Model Number	RF3-C
	n nor hov					Selection	111 0 0
Example: NOTE: One optio	<u> </u>	BOX 8 BO	X 9 BOX 10 BOX	11			RF3-1
RF3 5 EPT8 NG	B N 1 3	1 KS1	000 5 ASM		-5-EPT8-NG-N-1-3-0/ 000-5-ASME		RF3-2
BOX 1 BOX 2	BOX 3		BOX 4		BOX 5		
Filter Flange Series Size	Drive Control / Connec	ŭ	Housing Material and Coating		Shut-Off Valve Material		RF3-2.5
RF3 5	EPT = Electric pneumatic control, Δp depend	cvcle	= Standard Steel 1.0038, outside primed		N = Standard Steel E = Stainless Steel		RF3-3
	EU = Electric control, Δp dependent	N	M = Standard Steel 1.0038, outside				
	PT = Pneumatic cyclic co Δp dependent	ontrol,	primed, inside metallogal painted				RF3-4
	PTZ = Pneumatic cyclic til control 7 = 3X415V/N/PE 6		G =Standard Steel 1.0038, outside primed, inside rubb	er			RF3-5
	8 = 3X460V/X/PE 6 B = 3X575V/X/PE 6	_	coated = Stainless Steel 1.4571				RF3-6
	E = 1X230V/N/PE 6 F = 1X110V/N/PE 6	Δ	= With ANSI-flanged additional A at the				RF3-7
BOX 6	BOX 7	В	OX 8		BOX 9		RF3-8
Differential Pressure Gauge	Flange Position	Modifica	tion Number	E	lement Set		RF5
1 = Pressure Chamber, Aluminum 3.258302	1 = Filter outlet opposite filter inlet (standard)	0 = Latest by fact	version supplied	KD25	= Conical SuperMesh		1410
2 = Pressure Chamber, Stainless Steel 1.4305	2 = Filter outlet offset 90° clockwise to standard	by lact	Oly	KD40	= Conical SuperMesh		RF7
3 = With Chemical Seal Stainless Steel 315 TI	3 = Filter outlet offset by 180° clockwise to			KS50	Conical SlottedTubes		RF4-1
	standard 4 = Filter outlet offset by			KS100	= Conical Slotted Tubes		DE4.0
	270° clockwise to standard			KS200	Conical SlottedTubes		RF4-2
				KS300	Conical SlottedTubes		BWF
				KS400	= Conical Slotted Tubes		RFH-1
BOX 10	BOX 11			KS500	Conical SlottedTubes		
Size of Element Set	Vessel Certification			KS1000	= Conical Slotted Tubes		RFH-2
	Omit = Standard Version			KS1500	= Conical Slotted Tubes		RFH-4
5	ASME = ASME Version			KS2000	Conical Slotted Tubes		ATF
				KS2500	= Conical Slotted Tubes	NOTES:	
				KS3000	= Conical Slotted Tubes	Box 3. Needs to h control type voltage sel ex. EPT8.	e and
						Box 4. can contain options ex. note. If ANSI flam are not spe DIN style w provided.	. NMA. nges ecified

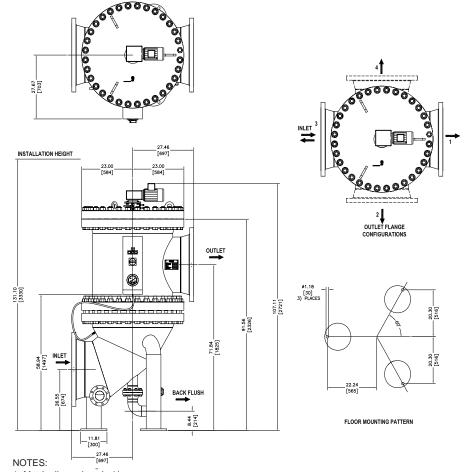
RF3-6

Backflushing Filter AutoFilt® RF3

8810-15,850 gpm 33,350-60,000 L/min

> 87 psi 6 bar





1. Metric dimensions in ().

2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Flange Size: 24"ANSI

Flow Range: 8810-15.850 gpm (33,350-60,000 L/min)

Working Pressure: 87 psi (6 bar)

Max. Working Temperature: 194°F (90°C)

Empty Weight: 3550 lbs. (1610 kg)
Housing Volume: 264 gallons (988 L)

Filter Area: 13,810 in.² (89,100 cm²)

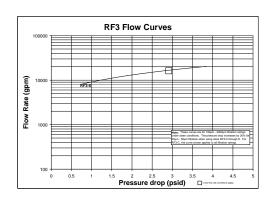
No. of Filter Elements 40

Backflush Flange Size: 4"AN

Backflush Volume: 128 gallons (485 L/cycle) Electric-Pneumatic Controls (EPT)

640 gallons (2425 L/cycle) All Electric Controls (EU)

Pressure Drop Information Based on Flow Rate and Viscosity





How to Build a Valid Model Number for a RF3:	Filter RF3-C
BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 RF3	Model Number RF3-0 Selection
Example: NOTE: One option per box	RF3-1
BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 RF3 6 EPT8 NG N 1 3 1 KS1000 6 ASME = RF3-6-EPT8-NG-N-1-3-0/KS1000-6-ASME	RF3-2
BOX 1 BOX 2 BOX 3 BOX 4 BOX 5	KF3-2
Filter Flange Drive Control / Connecting Housing Material Shut-Off Series Size Voltage and Coating Valve Material	RF3-2.5
RF3 6 EPT = Electric pneumatic cycle control, Δp dependent N = Standard Steel 1.0038, outside primed N = Standard Steel E = Stainless Steel	RF3-3
EU = Electric control, Δp dependent NM = Standard Steel 1.0038, outside primed, inside	RF3-4
Δp dependent metallogal painted	
control 1.0038, outside 7 = 3X415V/N/PE 60Hz primed, inside rubber	RF3-5
8 = 3X460V/X/PE 60Hz	RF3-6
E = 1X230V/N/PE 60Hz $F = 1X110V/N/PE 60Hz$ $A = With ANSI-flanged, additional A at the end$	RF3-7
BOX 6 BOX 7 BOX 8 BOX 9	RF3-8
Differential Pressure Flange Position Modification Number Element Set	RF5
1 = Pressure Chamber, Aluminum 3.258302 1 = Filter outlet opposite filter inlet (standard) 0 = Latest version supplied by factory KD25 = Conical SuperMesh	KIS
2 = Pressure Chamber, Stainless Steel 1.4305	RF7
3 = With Chemical Seal Stainless Steel 315 TI 3 = Filter outlet offset by 180° clockwise to standard KS50 = Conical Slotted Tubes	RF4-1
4 = Filter outlet offset by Tubes	RF4-2
270° clockwise to standard KS200 = Conical Slotted Tubes	
KS300 = Conical Slotted Tubes	BWF
KS400 = Conical Slotted Tubes	RFH-1
BOX 10 BOX 11 KS500 = Conical Slotted Tubes	
Size of Element Set Vessel Certification KS1000 = Conical Slotted Tubes	RFH-2
Omit = Standard Version KS1500 = Conical Slotted Tubes	RFH-4
6 ASME = ASME Version KS2000 = Conical Slotted Tubes	ATE
KS2500 = Conical Slotted Tubes	NOTES:
KS3000 = Conical Slotted Tubes	Box 3. Needs to have control type and voltage selected ex. EPT8.
	Box 4. can contain two options ex. NMA. note. If ANSI flanges are not specified DIN style will be provided.

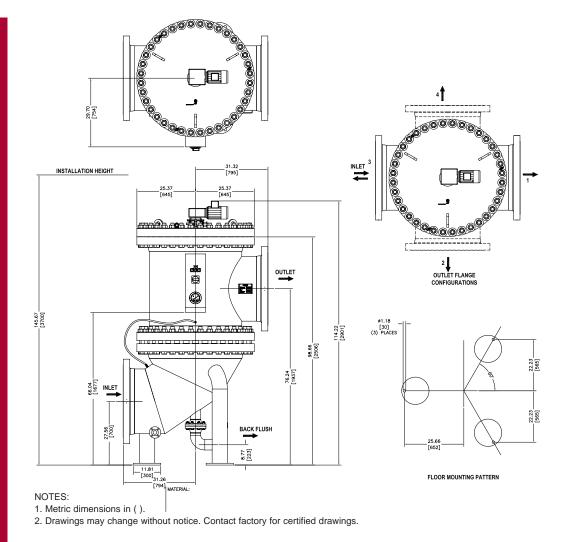
RF3-7

Backflushing Filter AutoFilt® RF3

13,200-22,000 gpm 50,000-83,350 *L/min*

87 psi 6 bar





Specifications

Flange Size: 28"ANSI

Flow Range: 13,200-22.000 gpm (50,000-83,350 L/min)

Working Pressure: 87 psi (6 bar)

Max. Working Temperature: 194°F (90°C)

Empty Weight: 4300 lbs. (1950 kg)

Housing Volume: 358 gallons (1355 L)

Filter Area: 16,450 in.² (106,100 cm²)

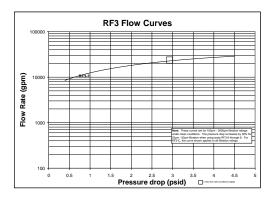
No. of Filter Elements 44

Backflush Flange Size: 4"ANSI

Backflush Volume: 147 gallons (555 L/cycle) Electric-Pneumatic Controls (EPT)

735 gallons (2775 L/cycle) All Electric Controls (EU)

Pressure
Drop
Information
Based on
Flow Rate
and Viscosity



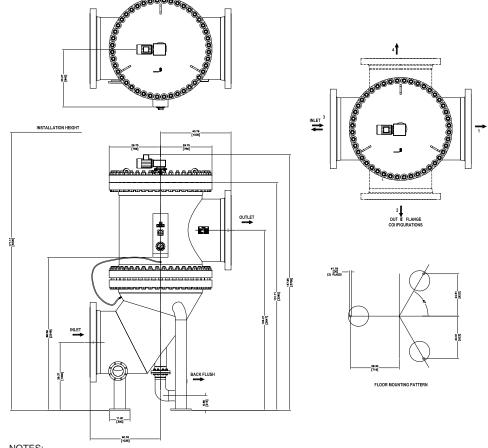


How to Build a Valid Model Nur	mber for a RF3:						Filter	RF3-C
RF3	X 4 BOX 5 BOX 6	BOX 7	BOX 8 BOX 9	BOX 10	ВО	X 11	Model Number Selection	RF3-0
Example: NOTE: One option pe								RF3-1
BOX 1 BOX 2 BOX 3 BOX 4 I	N 1 3		S1000 7 ASI	ME = RF		PT8-NG-N-1-3-0/ -7-ASME		RF3-2
BOX 1 BOX 2	BOX 3		BOX 4			BOX 5		
Filter Flange Series Size	Drive Control / Connect Voltage	ing	Housing Material and Coating			Shut-Off Ive Material		RF3-2.5
RF3 7 EF	PT = Electric pneumatic cy control, Δp depender	ycle nt	N = Standard Steel 1.0038, outside primed			Standard Steel Stainless Steel		RF3-3
E	U = Electric control, Δp dependent		NM = Standard Steel 1.0038, outside					
PT	T = Pneumatic cyclic cor Δp dependent	ntrol,	primed, inside metallogal painted					RF3-4
PT	TZ = Pneumatic cyclic time control 7 = 3X415V/N/PE 60H		NG =Standard Steel 1.0038, outside primed, inside rubb	per				RF3-5
	8 = 3X460V/X/PE 60H B = 3X575V/X/PE 60H	Hz	coated E = Stainless Steel					RF3-6
	E = 1X230V/N/PE 60I F = 1X110V/N/PE 60I		1.4571 A = With ANSI-flanged additional A at the					RF3-7
BOX 6	BOX 7		BOX 8	enu	Б	OX 9		RF3-8
Differential Pressure	Flange Position	Modifi	cation Number			ent Set		
Gauge	Filter outlet opposite	Wodin	cation Number	KD25		Conical		RF5
Aluminum 3.258302	filter inlet (standard) Filter outlet offset 90°		st version supplied actory			SuperMesh		
12 - Pressure Chamber I I	clockwise to standard			KD40	=	Conical SuperMesh		RF7
3 = With Chemical Seal Stainless Steel 315 TI	Filter outlet offset by 180° clockwise to			KS50	=	Conical Slotted Tubes		RF4-1
	standard			KS100	=	Conical Slotted Tubes		
2	Filter outlet offset by 270° clockwise to standard			KS200	=	Conical Slotted Tubes		RF4-2
				KS300	=	Conical Slotted Tubes		BWF
				KS400	=	Conical Slotted Tubes		RFH-1
				KS500	=	Conical Slotted Tubes		101111
BOX 10 Size of Element Set	BOX 11 Vessel Certification			KS1000	=	Conical Slotted Tubes		RFH-2
	mit = Standard Version			KS1500	=	Conical Slotted Tubes		RFH-4
7 AS	SME = ASME Version			KS2000	=	Conical Slotted Tubes		
				KS2500	=	Conical Slotted	NOTES:	ATF
				KS3000	=	Conical Slotted Tubes	Box 3. Needs to h control typ voltage sel	e and lected
							ex. EPT8. Box 4. can contain options ex. note. If ANSI flar are not spending by provided.	in two I. NMA. nges ecified

19,800-33,000 gpm 75,000-125,000 L/min

> 87 psi 6 bar





NOTES:

- 1. Metric dimensions in (-).
- 2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Flange Size: 36"ANSI

19,800-33,000 gpm (50,000-83,350 L/min) Flow Range:

Working Pressure: 87 psi (6 bar)

Max. Working Temperature: 194°F (90°C)

> **Empty Weight:** 7820 lbs. (3550 kg) 716 gallons (2710 L) Housing Volume:

> > Filter Area: 28,000 in.2 (180,700 cm2)

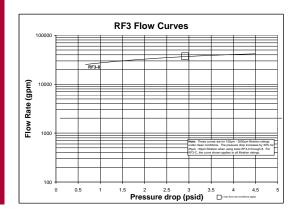
No. of Filter Elements

Backflush Flange Size:

Backflush Volume: 190 gallons (720 L/cycle) Electric-Pneumatic Controls (EPT)

950 gallons (3600 L/cycle) All Electric Controls (EU)

Pressure Drop Information Based on Flow Rate and Viscosity



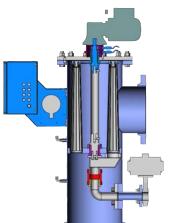


How to Build a Valid Model N	Number for a RF3:						Filter	RF3-C
BOX 1 BOX 2 BOX 3 RF3	BOX 4 BOX 5 BOX	6 BOX	7 BOX 8 BOX 9	BOX 10	ВС	OX 11	Model Number Selection	RF3-0
Example: NOTE: One option	per box						00.00	RF3-1
BOX 1 BOX 2 BOX 3 BOX 4 RF3 8 EPT8 NG	4 BOX 5 BOX 6 BOX 7 N 1 3	BOX 8	BOX 9 BOX 10 BO KS1000 8 AS	ME = RF		:PT8-NG-N-1-3-0/ -8-ASME		RF3-2
BOX 1 BOX 2	BOX 3		BOX 4			BOX 5		11102
Filter Flange Series Size	Drive Control / Conne Voltage	ecting	Housing Material and Coating		Va	Shut-Off lve Material		RF3-2.5
RF3 8	EPT = Electric pneumatic control, Δp depend		N = Standard Steel 1.0038, outside primed			Standard Steel Stainless Steel		RF3-3
	EU = Electric control, Δρ dependent		NM = Standard Steel					
	PT = Pneumatic cyclic c Δp dependent	control,	1.0038, outside primed, inside metallogal painted	I				RF3-4
	PTZ = Pneumatic cyclic t control 7 = 3X415V/N/PE 6		NG =Standard Steel 1.0038, outside primed, inside rub	ber				RF3-5
	8 = 3X460V/X/PE 6 B = 3X575V/X/PE 6		coated E = Stainless Steel 1.4571					RF3-6
	E = 1X230V/N/PE 6 F = 1X110V/N/PE 6		A = With ANSI-flanger additional A at the	1				RF3-7
BOX 6	BOX 7		BOX 8		E	3OX 9		RF3-8
Differential Pressure Gauge	Flange Position	Mod	dification Number		Elen	nent Set		
_	= Filter outlet opposite filter inlet (standard)		atest version supplied y factory	KD25	=	Conical SuperMesh		RF5
2 = Pressure Chamber, Stainless Steel 1.4305	= Filter outlet offset 90° clockwise to standard	5.	y lactory	KD40	=	Conical SuperMesh		RF7
3 = With Chemical Seal Stainless Steel 315 TI	= Filter outlet offset by 180° clockwise to			KS50	=	Conical Slotted Tubes		RF4-1
	standard = Filter outlet offset by			KS100	=	Conical Slotted Tubes		
-	270° clockwise to standard			KS200	=	Conical Slotted Tubes		RF4-2
				KS300	=	Conical Slotted Tubes		BWF
				KS400	=	Conical Slotted Tubes		RFH-1
DOV 40	DOV 44			KS500	=	Conical Slotted Tubes		
BOX 10 Size of Element Set	BOX 11 Vessel Certification			KS1000	=	Conical Slotted Tubes		RFH-2
	Omit = Standard Version			KS1500	=	Conical Slotted Tubes		RFH-4
8	ASME = ASME Version			KS2000	=	Conical Slotted Tubes		
		_		KS2500	=	Conical Slotted Tubes	NOTES:	ATF
				KS3000	=	Conical Slotted Tubes	Box 3. Needs to ha control type voltage sele ex. EPT8. Box 4. can contain	e and ected
							options ex. note. If ANSI flang are not spe DIN style w provided.	NMA. ges cified





The automatic backflushing filter AutoFilt® RF5 has proven its reliable performance successfully for many years in a wide range of different industries. The new backflushing filter series AutoFilt® RF5 a new budget-priced filter series with a cost-optimized geometry that offers the same reliable filter performance in a variety of applications.

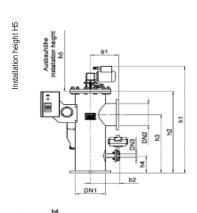


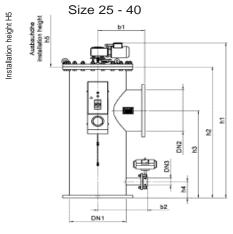
The function of the AutoFilt® RF5 is similar to the AutoFilt® RF3:

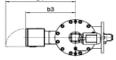
The fluid to be filtered flows through the slotted tube filter elements of the backflushing filter, passing from the inside to the outside. Contamination particles then collect on the smooth inside of the filter elements.

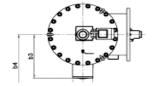
As the level of contamination increases, the differential pressure between the contaminated and clean sides of the filter increases. When the differential pressure reaches its pre-set value, backflushing starts automatically.

Size 50 - 90









Dimensions

Size	DN1	DN2	DN3	H1	H2	H3	H4	H5	B1	B2	B3	B4
	in	in	in	in	in	in	in	in	in	in	in	in
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
25	9.8	7.9	1.6	47.7	35.9	24.6	7.1	21.7	11.8	10.8	20	28.7
	(250)	(200)	(40)	(1212.5)	(912.5)	(625)	(180)	(550)	(300)	(275)	(508)	(728
30	11.8	9.8	1.6	51.7	39.4	28.1	8.3	21.7	11.8	12.4	21	29.6
	(300)	(250)	(40)	(1313.5)	(1001.5)	(715)	(210)	(550)	(300)	(314)	(533)	(753)
40	15.7	11.8	2.6	74.4	62	40.6	7.1	41.3	14.6	15	23	31.3
	(400)	(300)	(65)	(1890.5)	(1575.5)	(1030)	(180)	(1050)	(370)	(380)	(575)	(795)
50	19.7	15.7	2.6	74.4	62.4	41.3	7.5	41.3	17.16	17.3	19.1	27.8
	(500)	(400)	(65)	(1888.5)	(1585.5)	(1050)	(190)	(1050)	(435)	(440)	(485)	(705)
60	23.6	19.7	3.1	75	63.3	42.1	7.9	41.3	19.9	21	21.3	29.9
	(600)	(500)	(80)	(1905.5)	(1608.5)	(1070)	(200)	(1050)	(505)	(534)	(540)	(760)
70	27.6	23.6	3.1	88.1	74.5	48.6	7.9	53.1	22.4	22.8	23.3	32
	(700)	(600)	(80)	(2238.5)	(1903.5)	(1235)	(200)	(1350)	(570)	(580)	(593)	(813)
90	35.4	31.5	3.9	91.7	78.5	52.2	8.9	53.1	27.2	27.2	27.5	36.1
	(900)	(800)	(100)	(2328.5)	(1993.5)	(1325)	(225)	(1350)	(690)	(690)	(698)	(918)



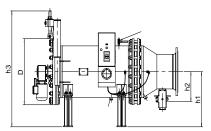
Size	Pressure Rating psi / (bar)	Inlet	Outlet	Back flushing	Filtration Area in² / cm²	Flow Range gpm (L/min.)	Technical Data	RF3-C
25	145 (10)	DN 250	DN 200	DN 40	942 (6120)	748-1408 (170-320)		RF3-0
30	145 (100)	DN 300	DN 250	DN 40	1255 (8160)	1276-1980 (290-450)		RF3-1
40	87 (6)	DN 400	DN 300	DN 65	2603 (16920)	1760-3302 (6667-12500)		DE0.0
50	87 (6)	DN 500	DN 400	DN 65	3905 (25380)	2860-5280 (650-1200)		RF3-2
60	87 (6)	DN 600	DN 500	DN 80	7809 (50760)	4400-8360 (1000-1900)		RF3-2.5
70	87 (6)	DN 700	DN 600	DN 80	10920 (70980)	6600-12320 (1500-2800)		RF3-3
90	87 (6)	DN 900	DN 800	DN 100	18200 (118300)	11440-18480 (2600-4200)		11100
How to Build	d a Valid Model Numl	per for a RF3:						RF3-4
BOX 1 BC	DX 2 BOX 3 BOX 4	4 BOX 5 BO	DX 6 BOX 7	BOX 8 BOX	9 BOX 10 E	SOX 11	Filter Model	
	OTE: One option per						Number Selection	RF3-5
RF5 40		0X 5 BOX 6 BO N 1		S300 BOX 10 40		0-EPT8-NMA-N-1-1 300-40	Coloculon	RF3-6
BOX 1 Filter Series	BOX 2 Flange Di	BOX 3 rive Control / Cor Voltage	nnecting	BOX 4 Housing Mat and Coati		BOX 5 Shut-Off Valve Material		RF3-7
RF5	30	= Electric pneum control = Electric control		N = Standard outside		N = Standard Steel B = Bronze		RF3-8
	50 60 70	= Electric control = Electro-pneumocontrol = Pneumatic cycl	atic cyclic	NM = Standard outside province outside	orimed, etallogal			RF5
		= Pneumatic cyc control 7 = 3X415V/N/F 8 = 3X460V/X/F 9 = 3X440V/X/F E = 1X230V/N/F	PE 60Hz PE 60Hz PE 60Hz	A = With AN flanged, additions the end	SI-			RF4-1
BOX		F = 1X115V/N/F		BOX 8		BOX 9		RF4-2
Differential Gaug	Pressure Cont	rol Box Position		cation Number	Ele	ement Set		BWF
1 = Pressure (Aluminum	90°	ntrol box offset by clockwise to filter let		st version supplied ctory	ES200 =	Slotted Tubes		RFH-1
2 = Pressure (Stainless (4 = Pressure (Steel 2 = Coi	ntrol box offset by 0° clockwise to filte let			ES400 =	Slotted Tubes		RFH-2
Brass	270	ntrol box offset by 0° clockwise to filte			ES500 =			RFH-4
	out	iet			ES1000 =	= 1000µ Conical Slotted Tubes		
					ES1500 =	= 1500µ Conical Slotted Tubes	NOTES: Box 3. Needs to have	ATF
вох	(10	BOX 11			ES2000 =	= 2000µ Conical Slotted Tubes	control type voltage selec	and
Size of Ele	ement Set Ves	ssel Certification			ES2500 =	= 2500µ Conical Slotted Tubes	ex. EPT8. Box 4. can contain to options ex. N	NMA.
Same as B0	OX 2 Value	= Standard Version			ES3000 =	= 3000µ Conical Slotted Tubes	note. If ANSI flang are not spec DIN style wil provided.	es ified

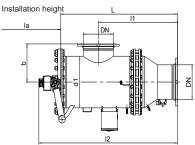


The automatic backflushing filter AutoFilt® RF3 has proven its reliable performance successfully for many years in a wide range of different industries. The horizontal backflushing filter AutoFilt® RF7 supplements our backflushing filter family. The AutoFilt® RF7 is a compact model range that is specifically designed for applications with small space and height restrictions.

The working principle and control systems of the AutoFilt® RF7 are identical to those of the AutoFilt® RF3.







Dimensions

Size	DN in (mm)	DN1 in (mm)	I1 in (mm)	b in (mm)	h1 in (mm)	h2 in (mm)	h3 in (mm)	D in (mm)	d1 in (mm)	L in (mm)	I2 in (mm)	G1 in (mm)	G2 in (mm)	la in (mm)
СС	2 (50)	1 (25)	19.8 (504)	7.9 (200)	14.2 (360)	4.7 (120)	25.6 (650)	13.4 (340)	8.7 (220)	25 (635)	35.1 (892)	G1/4	G1/2	21.7 (550)
0B	3.9 (100)	1 (25)	23.5 (596)	7.9 (200)	15.2 (385)	5.9 (150)	27 (685)	13.4 (340)	8.7 (220)	33.5 (850)	45.9 (1165)	G1/4	G1/2	21.7 (550)
1B	5.9 (150)	1.6 (40)	25.5 (647)	10.6 (270)	17.7 (450)	7.4 (189)	31.7 (805)	17.5 (445)	12.8 (324)	35.4 (900)	47.8 (1215)	G1/4	G3/4	21.7 (550)
2B	7.9 (200)	2 (50)	30.1 (764)	12.8 (325)	19.7 (500)	8.6 (220)	39.4 (1000)	22.2 (565)	16 (406)	40.2 (1020)	52.6 (1335)	G1/4	G3/4	27.6 (700)
2.5B	9.8 (250)	2 (50)	40.3 (1024)	12.8 (325)	19.7 (500)	10.2 (260)	39.4 (1000)	22.2 (565)	16 (406)	58.3 (1480)	69.7 (1770)	G1/4	G3/4	27.6 (700)
3B	11.8 (300)	2.6 (65)	41.02 (1042)	15 (380)	23.2 (590)	11.02 (280)	47.2 (1200)	26.4 (670)	20 (508)	61.02 (1550)	72.8 (1848)	G1/4	G3/4	27.6 (700)
4A	15.7 (400)	3.1 (80)	42.1 (1069)	17.7 (450)	25.6 (650)	13.8 (350)	55.1 (1400)	30.7 (780)	24 (610)	62.05 (1576)	73.7 (1873)	G1/4	G3/4	27.6 (700)
5A	19.7 (500)	3.1 (80)	44.8 (1139)	21.7 (550)	29.5 (750)	14.6 (370)	62 (1575)	35.2 (895)	28 (711)	62.4 (1585)	75.6 (1920)	G1/4	1.5" Flange	27.6 (700)
6A	23.6 (600)	3.9 (100)	45.6 (1159)	24.6 (625)	33.1 (840)	18.7 (475)	68.9 (1750)	43.9 (1115)	36 (914)	66.5 (1690)	80.6 (2046)	G1/4	1.5" Flange	27.6 (700)
7A	27.6 (700)	3.9 (100)	47.2 (1200)	29.5 (750)	35.04 (890)	20.1 (510)	74.8 (1900)	48.4 (1230)	40 (1016)	58.1 (1475)	72 (1830)	G1/4	1.5" Flange	27.6 (700)
8A	3.5 (90)	5.9 (150)	58.0 (1474)	37.4 (950)	43.3 (1100)	24.4 (620)	88.6 (2250)	55.3 (1405)	48.03 (1220)	83.2 (2114)	96.9 (2460)	G1/4	1.5" Flange	27.6 (700)

Technical Data

Size	Pressure Rating psi (bar)	Connection Inlet/Outlet	Connection Backflushing Line	Weight Empty Ibs (kg)	Volume Gallons (liters)	Amount of Filter Elements	Filter Area in² (cm²)	Backflushing Amount gal (liters)	GPM	Liters/ Minute
СС	230 (16)	2" Flange	1" Flange	286 (130)	4 (15)	6	332 (2140)	6.6 (25)	22-124	83-469
0B	150 (10)	4" Flange	1" Flange	342 (155)	7 (25)	6	590 (3810)	6.6 (25)	110-498	416-1885
1B	150 (10)	6" Flange	1.5" Flange	550 (250)	16 (60)	6	960 (6190)	9.2 (35)	396-1118	1499-4232
2B	150 (10)	8" Flange	2" Flange	825 (375)	28 (105)	8	1279 (8250)	13.2 (50)	880-1981	3331-7498
2.5B	150 (10)	10" Flange	2" Flange	1025 (465)	50 (190)	6	1938 (12500)	17.2 (65)	1761-2641	6666-9997
3B	150 (10)	12" Flange	2.5" Flange	1290 (585)	74 (280)	9	2906 (18750)	25.1 (95)	2421-3786	9164-14331
4A	87 (6)	16" Flange	3" Flange	1705 (775)	112 (425)	18	5813 (37500)	55.5 (210)	3566-7484	13498-28330
5A	87 (6)	20" Flange	3" Flange	2290 (1040)	168 (635)	24	8643 (55760)	82 (310)	6604-10787	24998-40833
6A	87 (6)	24" Flange	4" Flange	3635 (1650)	264 (998)	40	13811 (89100)	128.1 (485)	8805-15850	33330-59998
7A	87 (6)	28" Flange	4" Flange	4410 (2000)	358 (1355)	44	16446 (106100)	147 (555)	13208-22014	49997-83332
8A	87 (6)	36" Flange	6" Flange	7960 (3610)	716 (2710)	54	28009 (180700)	190.2 (720)	19813-33022	75000-125001



How to Build a Valid Model Number for a RF3: RF3-C **Filter** BOX 1 BOX 6 BOX 7 BOX 8 BOX 9 **BOX 10 BOX 11** Model RF7 Number RF3-0 Example: NOTE: One option per box Selection BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 RF3-1 RF7 EPT7 NMA 1A 0 KS100 3B = RF7-3B-EPT7-NMA-N-1 -1A-0/KS100-3B BOX 1 BOX 4 BOX 5 BOX 2 BOX 3 RF3-2 **Drive Control / Connecting Housing Material** Shut-Off Filter **Flange** Voltage and Coating Valve Material Size Series RF3-2.5 EPT = Electro-pneumatic cyclic N= Butterfly housing Standard Steel RF7 control, Δp dependent CC SG cast iron 1.0038 outside coated, washer 0B FU = Flectric control Ap primed stainless steel RF3-3 1B dependent NM = Standard Steel B = Butterfly housing 2B = Pneumatic cyclic control Δp 1.0038 outside SG cast iron 2.5B dependent primed, inside coated, washer RF3-4 3B metallogal painted PTZ = Pneumatic cyclic timed bronze 4A Stainless Steel control 1.4571 5A 7 = 3X415V/N/PE 60Hz RF3-5 6A With ANSI-8 = 3X460V/X/PE 60Hzflanged, 7A B = 3X575V/X/PE 60Hzadditional A at 8A F = 1X230V/N/PF 60Hzthe end RF3-6 F = 1X115V/N/PE 60Hz BOX 6 BOX 7 BOX 8 BOX 9 RF3-7 **Differential Pressure** Flange Setting/ **Modification Number Element Set** Gauge **Backflushing Line Setting** RF3-8 1 = Outlet to right KD25 Conical 1 = Pressure Chamber. 0 = Latest version supplied SuperMesh Aluminum 3.258302 2 = Outlet up by factory KD40 Conical 2 = Pressure Chamber, 3 = Outlet to left RF5 SuperMesh Stainless Steel 1.4305 A = Backflushing line to left Conical Slotted KS50 4 = With Chemical Seal Tubes Stainless Steel 315 TI B = Backflushing line RF7 downwards KS100 Conical Slotted Tubes C = Backflushing line to KS200 Conical Slotted RF4-1 Tubes KS300 Conical Slotted Tubes RF4-2 **BOX 10 BOX 11** KS400 Conical Slotted Size of Element Set **Vessel Certification** Tubes **BWF** KS500 Conical Slotted Omit = Standard Version Same as BOX 2 Value Tubes (first letter/number only) ASME = ASME Version KS1000 =Conical Slotted RFH-1 Tubes KS1500 = Conical Slotted Tubes RFH-2 KS2000 Conical Slotted Tubes KS2500 Conical Slotted RFH-4 Tubes KS3000 Conical Slotted Tubes ATF NOTES: Box 3. Needs to have control type and voltage selected ex. EPT8. Box 4. can contain two options ex. NMA. If ANSI flanges are not specified DIN style will be

provided.



Backflushing Filter AutoFilt® RF4



The automatic backflushing RF4 filter is a self-cleaning system for removing particles from low viscosity fluids. Its robust construction and automatic backflushing capability make a major contribution to operational reliability and reduce operating and maintenance costs. The slotted tube or SuperMesh filter elements with filtration rates from 25 to 1000 µm ensure highly effective separation of contaminating particles from the process medium.

Automatic cleaning starts as soon as the elements become contaminated. The flow of filtrate is not interrupted during the backflushing procedure. Two sizes allow flow rates from 10-60 gpm. The RF4 is available as a fully automatic or purely manual version.

Numerous combinations of materials and equipment as well as individually adjustable control parameters allow optimum adaptation of the filter to any application.

OPERATION OF THE RF4

Filtration

The fluid to be filtered flows through the slotted tube filter elements of the backflushing filter passing from the inside to the outside. Contamination particles collect on the smooth inside of the filter elements. As the level of the collected contamination increases, the differential pressure between the contaminated and clean sides of the filter increases. When the differential pressure reaches its pre-set value, the backflushing cycle begins.

Triggering Automatic Backflushing

Backflushing is triggered automatically when the differential pressure set point is exceeded. As soon as backflushing has been triggered, the filter starts to clean the filter elements.

Triggering Backflushing on Manual Version

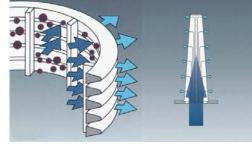
When the differential pressure set point is reached, the visual clogging alarm indicates to an operator or maintenance personnel that a backflush cycle is needed.

Backflushing of the Filter Elements - Backflushing Cycle

The cycle begins with the element plate through turning 90°. This brings a clean filter element into filtration, and a contaminated filter element is positioned over the fixed flushing connection.

The backflush valve is opened.

The differential pressure between filtrate side and backflush line causes a small amount of the filtrate to reverse flow through the element to be cleaned. The contamination particles collected on the inside of the filter element are loosened and flushed into the backflush line via the flushing arm. As soon as the "backflushing time per element" has elapsed, the backflushing valve is closed. The backflushing cycle is terminated when all the filter elements have been cleaned. On the RF4 with manual backflushing, the element plate including filter elements, is turned and the backflushing valve is opened by hand. Each filter element is cleaned successively in this manner.



SPECIAL FEATURES OF THE RF4

Isokinetic Filtering and Backflushing

The special conical shape and configuration of the filter elements allows for even flow, resulting in low pressure

drop and complete cleaning of the elements. The advantage: fewer backflushing cycles and lower loss of backflushing fluid.

Pulse-aided Backflushing

The filter element to be backflushed remains in the flushing position for only a few seconds. Rapid opening of the pneumatic backflushing valve generates a pressure surge in the openings of the filter elements that provides a pulse-aided cleaning effect to the backflushing process.

Low Backflushing Quantities Due to Cyclic Control

The backflush valve opens and closes during backflushing of each filter element, further minimizing the amount of filtrate needed to effectively clean the element.

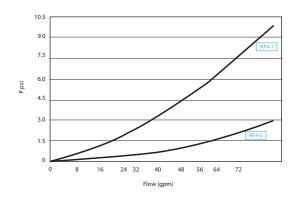
Water Applications

	Max. Flow Rate	gpm (L/min)		
Fluid	RF4-1	RF4-2		
Water	32(120)	58(220)		

The flow rate ranges indicated apply to filtration ratings ≥ 100 μm

Important

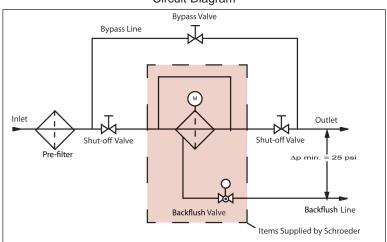
The pressure drop curves apply to water and other fluids up to a viscosity of 11



Cooling Lubricant Applications

		Max. Flow Rate gpm (L/min)				
Material Handling	Type of Machining	RF4-1	RF4-2			
Aluminum	Cutting	26 (100)	53 (200)			
Cast Iron ¹	Cutting	18 (70)	42 (160)			
Carbon Steel	Cutting	21 (80)	48 (180)			
Stainless Steel	Cutting	21 (80)	48 (180)			
Aluminum	Grinding	24 (90)	53 (200)			
Cast Iron1	Grinding	13 (50)	37 (140)			
Carbon Steel	Grinding	16 (60)	40 (150)			
Stainless Steel	Grinding	16 (60)	40 (150)			

Circuit Diagram

















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STEEL MAKING

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SEWAGE & WASTEWATER

AUTOMOTIVE

INDUSTRIAL

THERMAL TRANSFER

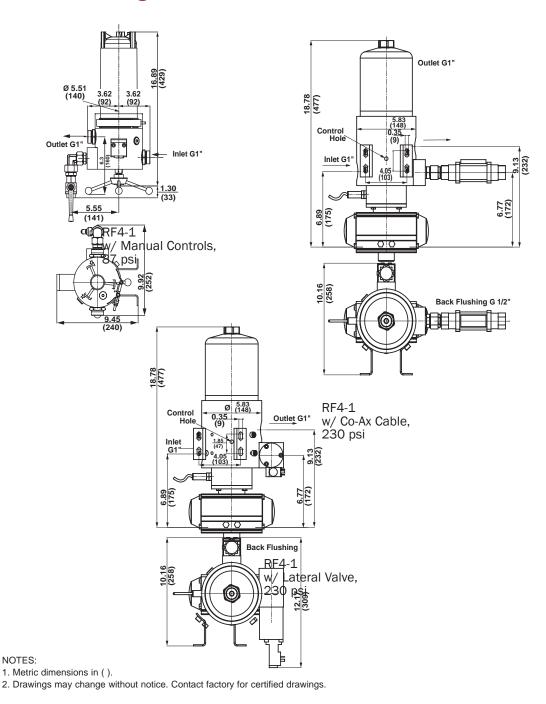
SCHROEDER INDUSTRIES | PROCESS FILTRATION

RF4-1

Backflushing Filter AutoFilt® RF4

32 gpm 120 L/min

87 psi 6bar or 230 psi 16 bar



Specifications

Process Connection: G 1" Female

Max Flow: 32 gpm (120 L/min)

Max. Working Pressure: 87 psi (6 bar) or 230 psi (16 bar)

Max. Working Temperature: 194°F (90°C)

Weight: 29 lbs. (13 kg) or 33 lbs. (15kg)

Housing Volume: 0.66 gallons (2.5 L)
Filter Area: 85in.² (548 cm²)

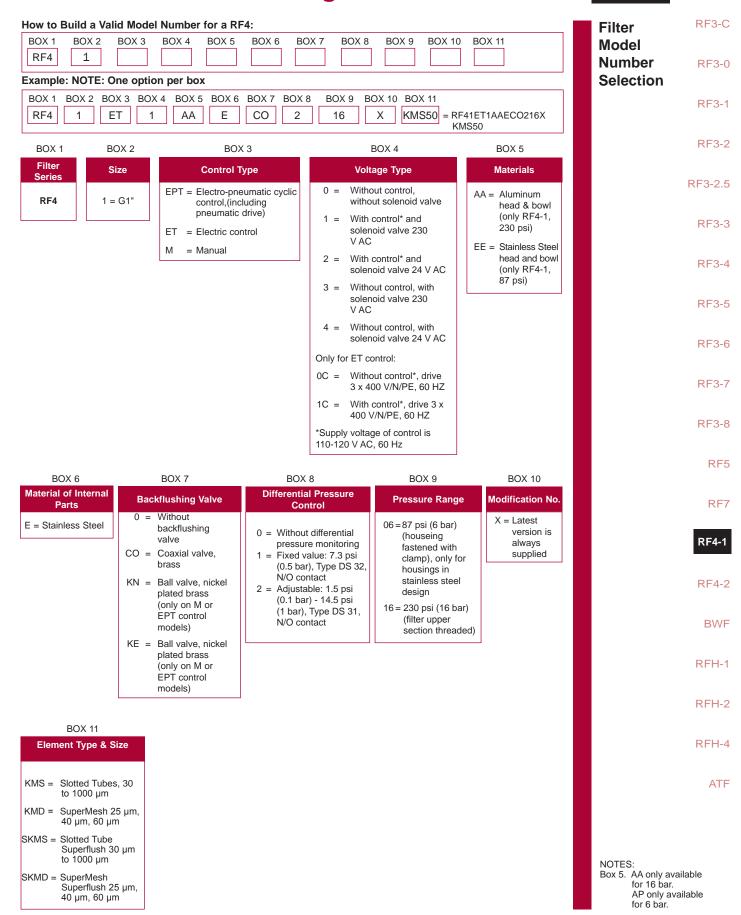
No. of Filter Elements 4

Backflush Connection: G½ Female

Backflush Volume: 1.1 gallons (4 L/cycle)

Backflushing Filter AutoFilt® RF4 RF4-





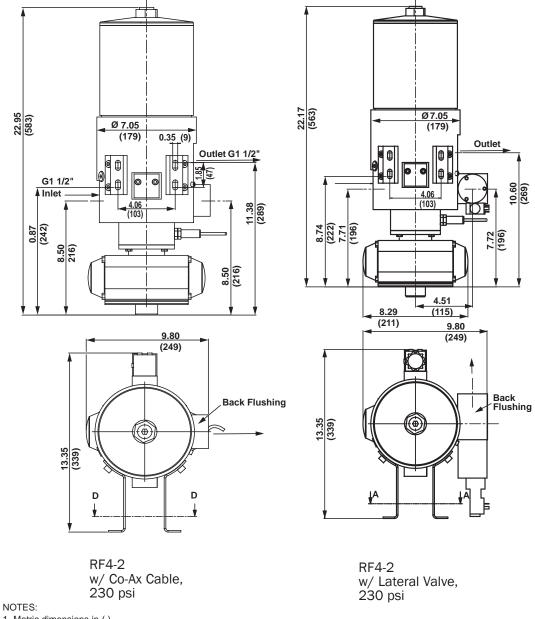
Backflushing Filter AutoFilt® RF4

60 gpm 220 L/min

> 87 psi 6 bar Or

230 psi

16 bar



- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Process Connection:	G1½" Female
Max Flow:	60 gpm (220 L/min)
Max. Working Pressure:	87 psi (6 bar) or 230 psi (16 bar)
Max. Working Temperature:	194°F (90°C)
Weight:	71 lbs. (32 kg) or 140 lbs. (63kg)
Housing Volume:	1.0 gallons (3.7 L)
Filter Area:	220in.² (1420 cm²)
No. of Filter Elements	4
Backflush Connection:	G¾ Female
Backflush Volume	3.4 gallons (13.1 /cycle)

Backflushing Filter AutoFilt® RF4 RF4-2



	d Model Number for a RF BOX 3 BOX 4 BOX 5		OX 7 BOX 8	BOX 9 BOX 10	BOX 11	Filter RF3-C Model Number RF3-0
Example: NOTE: O	ne option per box					Selection
BOX 1 BOX 2 BOX RF4 1 E	X 3 BOX 4 BOX 5 BOX 6 T 1 NN E	BOX 7 BOX	8 BOX 9 Be		F41ET1NNECO216X MS50	RF3-1
BOX 1 BO	DX 2 BOX	3		BOX 4	BOX 5	RF3-2
Series	ze Control T EPT = Electro-pne control,(incl	umatic cyclic	0 = Witho	age Type out control, out solenoid valve	Materials NN= Carbon Steel,	RF3-2.5
	pneumatic	drive)	1 = With	control* and loid valve 230	nickel plated (only RF4-2 230 psi)	RF3-3
	M = Manual		2 = With solen	control* and loid valve 24 V AC	EE = Stainless Steel head and bowl (only RF4-2, 87 psi)	RF3-4
			solen V AC			RF3-5
				out control, with noid valve 24 V AC ontrol:		RF3-6
			3 x 40	out control*, drive 00 V/N/PE, 60 HZ control*, drive 3 x		RF3-7
			400 \	//N/PE, 60 HZ ge of control is		RF3-8
DOV 0	DOV 7	200			DOV 40	RF5
BOX 6 Material of Internal Parts	BOX 7 Backflushing Valve		al Pressure	BOX 9 Pressure Range	BOX 10 Modification No.	RF7
E = Stainless Steel	0 = Without backflushing valve CO = Coaxial valve, brass	0 = Withou pressu 1 = Fixed	ut differential ire monitoring value: 7.3 psi ar), Type DS 32,	06=87 psi (6 bar) (houseing fastened with clamp), only fo housings in	X = Latest version is always supplied	RF4-1
	KN = Ball valve, nickel plated brass (only on M or EPT control	(0.1 ba	able: 1.5 psi ar) - 14.5 psi , Type DS 31,	stainless steel design 16 = 230 psi (16 ba (filter upper	,	RF4-2
	models) KE = Ball valve, nickel plated brass (only on M or EPT control			section thread	ed)	RFH-1
	models)					RFH-2
BOX 11 Element Type & Si	ize					RFH-4
KMS = Slotted Tubes to 1000 μm KMD = SuperMesh 2: 40 μm, 60 μm	5 μm,					ATF
SKMS = Slotted Tube Superflush 30 to 1000 µm						NOTES:
SKMD = SuperMesh						NOTES: Box 5. AA only available

Backflushing High Pressure Filters RFH







Backflushing Filter

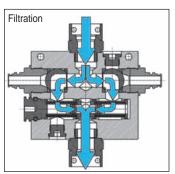
The backflushing high pressure RFH filter is an easy-to-operate backflushing filter for water-based fluids at operating pressures of up to 5076 psi (350 bar). The main application of this filter is to protect shield hydraulics in mining. However, other applications are possible, such as, in the rotary valve hydraulics of pumped storage hydrostations, paint filtration or the protection of high pressure nozzles. Three sizes are available and flow rates of up to 210 gpm (800 L/min) can be achieved.

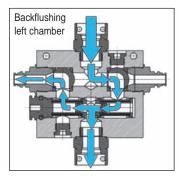
The backflushing is carried out manually using switch levers. To some extent the filters can also be controlled electrohydraulically or purely hydraulically. Robust filter materials in stainless steel are available, such as slotted tube or multi-layered wire mesh.

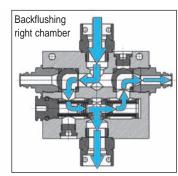
Construction and Function

Sizes RFH-1 and RFH-2 consist of stainless steel housing blocks which can be mounted to the supporting structure by means of the bore holes in the corners of the housing.

On the RFH-4, just the filter head is designed as a housing block. In this version, the elements are in two screw-in cylinder bowls. The inlet and outlet connections are opposite each other (inline model). The backflushing ports are on the side. Ensure connection of the backflushing lines to these ports is secure because of the high pressures. A slotted tube or a wire mesh element, which is divided into two filter chambers, is fitted in the filters RFH-1 and RFH-2, respectively. In the RFH-4, two divided elements are fitted. Each filter chamber or each element is backflushed manually by switching a ball valve.







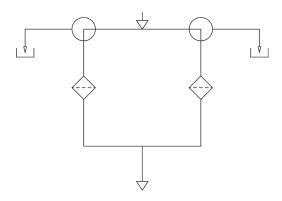
Filtration

The fluid to be filtered flows through both chambers of the filter element from the outside to the inside. The filtrate flows through a T-piece between the two element halves to the outside. Both switch levers indicate the direction of filtration.

Backflushing

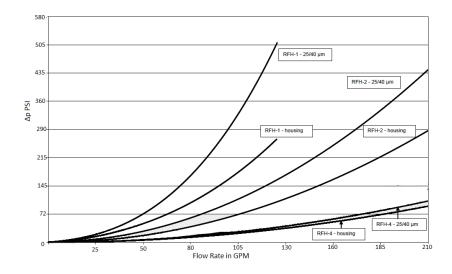
Both filter chambers are back-flushed one after the other using their own filtrate when the relevant lever is switched. When backflushing, the flow is reversed into the relevant element segment and removes the contamination from the surface. During the backflushing process, filtration continues via the other half of the element. The flushing time should be 1 to 2 seconds per element half.

In order to prevent both filter chambers being flushed at the same time, the change-over lever is fitted with a rotating lock mechanism. This prevents any interruption to the flow of filtered fluid as a result of incorrect operation.



Circuit Diagram

Backflushing High Pressure Filters RFH



Filter Calculation / Sizing

- For slotted tube filter inserts of 100 μm and 200 μm, the pressure drop curves apply, similar to the 25 μm and 40 μm wire mesh.
- When using 50 µm slotted tube filter inserts, 30% more pressure drop must be added to the valid curves.
- Please take into account the lower permissible differential pressure of the elements when using slotted tube elements.

In order to be able to size the filter correctly, the following design data should be available:

- Flow rate
- Materials
- Required filtration rating
- Type of contamination
- Operating temperature must be below the boiling point of the medium
- Type of medium
- Viscosity
- Particulate loading in the fluid
- Operating pressure
- Integration of the RFH in the whole system

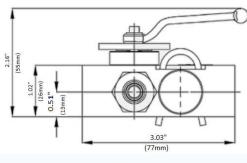
Filter sizes 1 and 2 are designed as a back-up filter for low levels of solid particle contamination. Due to the greater filter area, the RFH-4 is also suitable for higher particle concentrations. As with all backflushing filters, fibers and sticky substances cause problems when backflushing with the filter, too. Use the flow rate curves for water and emulsion applications to calculate the filter. The initial pressure drop for clean elements can be selected between 2 and 72 psi (0.1 and 5 bar) depending on the operating pressure and level of contamination. The shield hydraulics in coal mining represent a special case. For this application, initial differential pressures of up to 362 psi (25 bar) are usual.

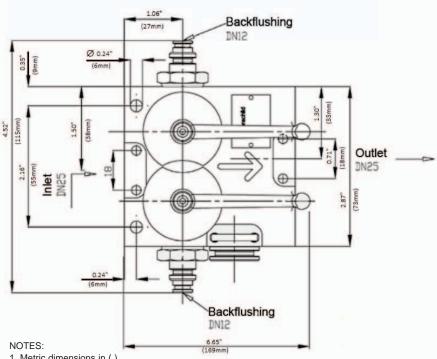


Backflushing High Pressure Filter RFH-1

106 gpm 400 L/min







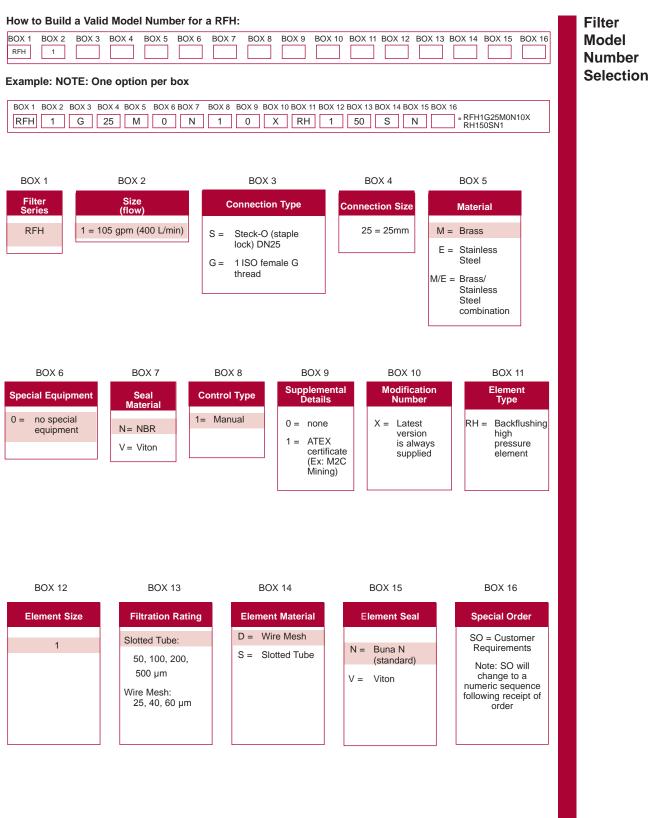
- 1. Metric dimensions in ().
- 2. Drawings may change without notice. Contact factory for certified drawings.

Specifications

Max. Flow Rate: 106 gpm (400 L/min) Max. Operating Pressure: 5076 psi (350 bar) SteckO DN25 Inlet/Outlet Connection Size: Max. Differential Pressure: 5076 psi (350 bar) Max. Operating Temperature: 194°F (90°C) Weight: 18.7 lbs. (8.5 kg) Housing Volume: 0.06 gallons (0.25 L) **Backflush Line Connection:** Steck 0 DN 12 Filter Area: 7.75 in.2 (50 cm2)

Backflushing High Pressure Filter RFH-1





RF3-C

RF3-0

RF3-1

RF3-2

RF3-2.5

RF3-3

RF3-4

RF3-5

RF3-6

RF3-7

RF3-8

RF5

RF7

RF4-1

RF4-2

BWF

RFH-1

RFH-2

RFH-4

ATF

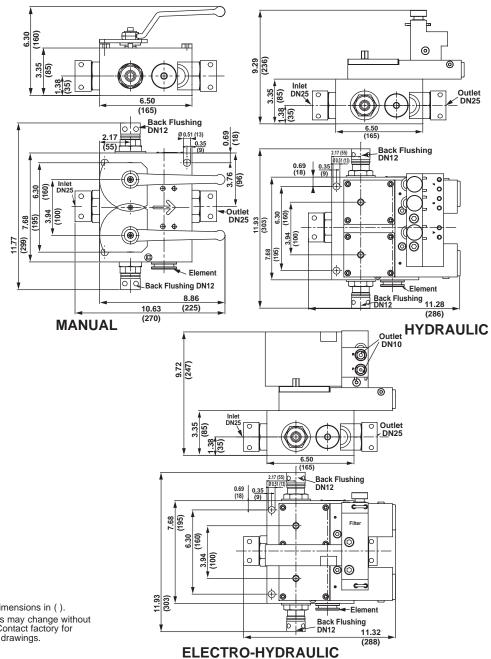
^{*}Shaded selections are preferred order codes that designate shorter lead times.



Backflushing High Pressure Filters RFH-2

158 gpm 600 L/min





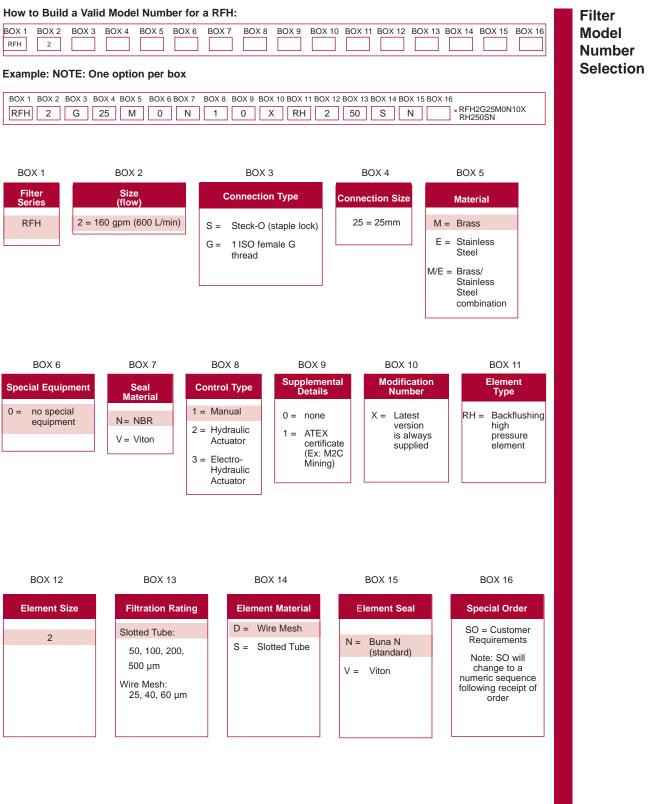
- 1. Metric dimensions in ().
- Drawings may change without notice. Contact factory for certified drawings.

Specifications

Max. Flow Rate:	158 gpm (600 L/min)
Max. Operating Pressure:	5076 psi (350 bar)
Control Pressure:	2175-5076 psi (150-350 bar) Automatic Only
Inlet/Outlet Connection Size:	SteckO DN25
Max. Differential Pressure:	5076 psi (350 bar)
Max. Operating Temperature:	194°F (90°C)
Weight:	Manual: 45 lbs. (20.5 kg) Automatic: 84 lbs. (38 kg)
Housing Volume:	0.11 gallons (0.42 L)
Backflush Line Connection:	Steck O DN 12
Control Pressure Connection:	Steck O DN 10
Filter Area:	12.4 in. ² (80 cm ²)

Backflushing High Pressure Filter RFH-2





RF3-C

RF3-0

RF3-1

RF3-2

RF3-2.5

RF3-3

RF3-4

RF3-5

RF3-6

RF3-7

RF3-8

RF5

RF7

RF4-1

RF4-2

BWF

RFH-1

RFH-2

RFH-4

ATF

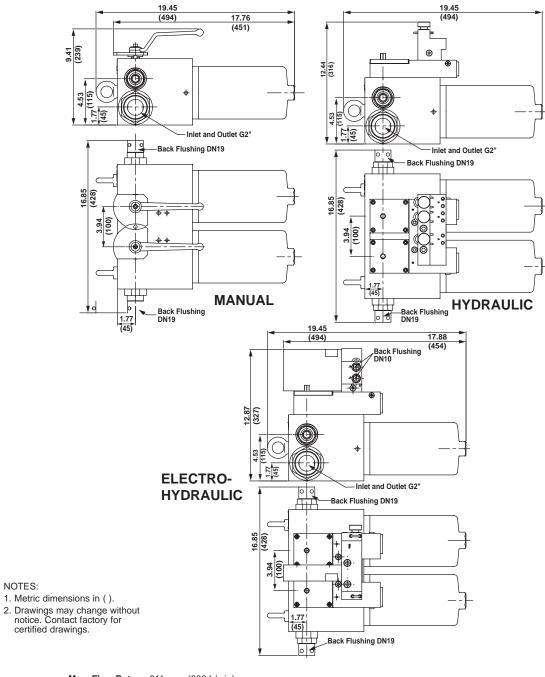
^{*}Shaded selections are preferred order codes that designate shorter lead times.



Backflushing High Pressure Filters RFH-4

211 gpm 800 L/min





Specifications

Max. Flow Rate: 211 gpm (800 L/min) Max. Operating Pressure: Manual: 5076 psi (350 bar) Automatic: 2900 psi (200 bar) **Control Pressure:** 2176-5076 psi (150-350 bar) Inlet/Outlet Connection Size: SteckO DN50 Max. Differential Pressure: 5076 psi (350 bar) Max. Operating Temperature: 194°F (90°C) Stainless Steel: 210 lbs. (95 kg) Brass: 247 lbs. (112 kg) Housing Volume: 1.1 gallons (4.2 L) **Backflush Line Connection: Control Pressure Connection:** Filter Area: 170 in.2 (1094 cm2)

NOTES:

Backflushing High Pressure Filter RFH-4



	d Model Number for a	a RFH: DX 7 BOX 8 BOX 9 BOX 10 BO	X 11 BOX 12 BOX 13 BOX 14	BOX 15 BOX 16 BOX 17 M
		30X 8 BOX 9 BOX 10 BOX 11 BOX 1 0 X RH 4	12 BOX 13 BOX 14 BOX 15 BOX 1	16 BOX 17 - RFH4G50M1N10 XRH450SN1
BOX 1 Filter Series RFH 4 = 2	BOX 2 Size (flow) 10 gpm (800 L/min)	BOX 3 Connection Type S = Steck-O (staple lock) G = 2 ISO female G thread	E	BOX 5 Material = Brass = Stainless Steel = Brass/ Stainless Steel combination
Special Equipment 0 = no special equipment 1 = 2 press gauges (0-8700 psi) 2 = 2 press gauges (0-8700 psi) & protective guard	Seal Material N= NBR V= Viton	ontrol Type = Manual = Hydraulic Actuator = Electro- Hydraulic Actuator	Modification Number X = Latest version is always supplied	Element Type RH = Backflushing high pressure element
BOX 12 Element Size 4	BOX 13 Filtration Rating Slotted Tube: 50, 100, 200, 500 µm Wire Mesh: 25, 40, 60 µm	BOX 14 Element Material D = Wire Mesh S = Slotted Tube	BOX 15 Element Seal 0 = without N = Buna N (standard) V = Viton	BOX 16 Bowl Mounting 1 - Threading 2 - Quick Disconnect
Special Order SO = Customer Requirements Note: SO will change to a numeric sequence following receipt of order				

lter odel umber election RF3-C

RF3-0

RF3-1

RF3-2

RF3-2.5

RF3-3

RF3-4

RF3-5

RF3-6

RF3-7

RF3-8

RF5

RF7

RF4-1

RF4-2

BWF

RFH-1

RFH-2

RFH-4

ATF

^{*}Shaded selections are preferred order codes that designate shorter lead times.

Automatic Twist Flow Strainer ATF



- Perfect pre-filter
- Great for high contamination levels
- Low pressure drop

Automatic Twist Flow Strainer

The Schroeder Automatic Twist Flow Strainer (ATF) is designed for the filtration of solid particles from water or fluids similar to water. With filtration ratings between 200 µm and 3,000 µm, the ATF is particularly well suited for separating suspended solid particles, up to several grams per liter, from low-viscosity fluids. In order to filter higher flow rates, the ATF can be supplied as a skid solution (call factory for details).

Construction and Function

This filter is a hybrid system consisting of a centrifugal separator and an inline filter. The fluid to be cleaned enters the housing tangentially, similar to a centrifugal separator, and accelerates down as a result of the tapered housing. The resulting spiral flow with its centrifugal force carries the coarsest contamination first (its density is obviously higher than that of the fluid) to the inner wall of the housing.

Filtration

When pressed against the filter wall, the particles settle at a higher density in the lower part of the filter, where they are finally carried out. The remaining smaller, less dense particles are filtered as the fluid passes through the element and exits the filter.

The conical filter element ensures optimum flow characteristics. On one hand it makes possible continual self-cleaning of the filter during operation. While on the other, it makes the pressure drop of the whole filter much lower than compared with a centrifugal separator of a similar

Cleaning Procedure

Both the sediment particles and those separated by the filter element finally collect at the bottom of the housing and are discharged periodically from the system by opening the contamination flap. During this cleaning procedure (depending on the installation of the ATF), part of the untreated fluid flow is used for a few seconds to flush the elements and clean the filter. Because partial flow is used, continuous filtration occurs.

In addition, the ATF is an excellent choice for bypass flow applications which are able to do without a partial flow for short periods of time.

Depending on the application and the amount of solid particles, the cleaning function can be adjusted via a timer function.

Special Features of the ATF

The ATF is well suited to high levels of contamination and large fluctuations in the solid particle content of the untreated water.

Due to the use of conical slotted tube and sintered wire meshes, a precise selectivity and therefore a constant filtrate quality is ensured – independent of fluctuations in operating pressure or flow rate.

Due to special flow conditions resulting from the element geometry and their arrangement, the pressure drop on the overall unit is relatively low at < 14.5 psi (1.0 bar).







Filtration Mode

The pre-filtration of solid particles of a higher density implies that the filter surface area can take a correspondingly higher load and the filter size can therefore be comparatively smaller.



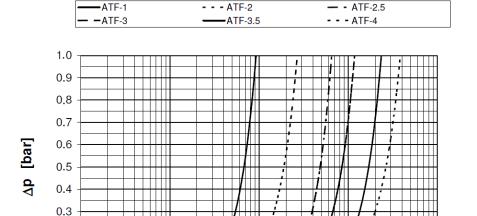
Automatic Twist Flow Strainer ATF

The filter elements are cleaned solely by flushing with untreated fluid.

The ATF saves on space in comparison to conventional separating units, such as lamellar separators or sand filters.

Several ATF's can be integrated into systems, and as a result, can adapt to the required flow rates.

The filter element of the ATF is maintenance-friendly, as it is equipped with a flange cover. On sizes 2 to 4, it is also possible to replace the filter element without needing to open the filter.



Flow Rate (gpm)

The ATF is sized based on the pressure drop curve. A further factor in the calculation is the flow velocity through the inlet flange. It should not exceed 13.12 feet/minute (4 m/s).

5

In order to be able to size the ATF correctly, the following design data should be available:

- Flow rate
- Type of medium
- Materials / resistance

0.2 0.1 0 0

- Viscosity
- Required filtration rating
- Particulate loading in the fluid
- Solid particle type and density / densities
- Operating pressure
- Operating temperature

Filter Calculation

and

Sizing

Pressure

Drop Graph

Industries Served









440



4405



POWER GENERATION

TOOL

STEEL MAKING

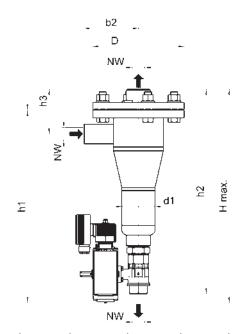
MINING WASTEWATER TECHNOLOGY TREATMENT



Automatic Twist Flow Strainer ATF-1

35 gpm 132 L/min 230 psi 16 bar





Filter Size	NW in (mm)	H Max. in (mm)	h1 in (mm)	h2 in (mm)	h3 in (mm)	b2 in (mm)	D in (mm)	d1 in (mm)	Installation Height in (mm)
ATF 1	0.04	19.29	17.52	18.50	4.06	4.92	8.27	3.00	13.78
	(1)	(490)	(445)	(470)	(103)	(125)	(210)	(76.1)	(350)

Filter Housing Specifications

Filtration Rate: 200-3000 µm slotted tube only

Operating Rate: 32°F - 194°F (0°C - 90°C)

Housing Material: Stainless Steel or Carbon Steel

Size: 1

Flow Rate: 35 gpm

(132 L/m)

Pressure Rating: 230 psi

(16 bar)

Connections Inlet/Outlet: 1" NPT

(G 1")

Connection Discharge Line: 1" NPT

(G 1")

Filter Area: 23 in²

(150 cm²)

Weight: 33 lbs

(15 kg)

Volume: 0.5 gal

(1.8 L)

Automatic Twist Flow Strainer ATF-1



How to Build a Valid Mo	odel N	umber for a ATF-1:	:			Filter	RF3-C
BOX 1 BOX 2 BOX 3	BOX 4	BOX 5 BOX 6 BOX	7 BOX 8 BOX 9 BOX 1	0 BOX 11		Model Number	RF3-0
Example: NOTE: One o	ption	per box				Selection	
BOX 1 BOX 2 BOX 3 I	BOX 4	BOX 5 BOX 6 BOX E NN 10	7 BOX 8 BOX 9 BOX 10 0 X UKS2		F1EPZ1ENN100XUKS2200		RF3-1
BOX 1		BOX 2	BOX 3		BOX 4		RF3-2
Filter Series		Size	Control Type		Voltage		RF3-2.5
ATF	1 = Inl	et/outlet 1" NPT	0 = No controls M = Manual valve	diacharga	1 = 230 VAC, 60 Hz, Single Phase 2 = 110VAC, 60 Hz,		RF3-3
			EP = Electro-pneumatic valve, without time EPZ = Electro-pneumatic valve, with timer co	r control discharge	Single Phase 3 = 24VAC, 60 Hz, Single Phase		RF3-4
			E = Electric discharge out timer control EZ = Electric discharge	valve, with-	4 = 24VDC		RF3-5
DOV 5		BOX 6	with timer control		DOV 0		RF3-6
BOX 5 Housing Material		Discharge Valve	BOX 7 Pressure Rating		BOX 8 Accessories		
N = Carbon Steel	0 = N	None = Butterfly valve, cast		0 = none			RF3-7
E = Stainless Steel A = for ANSI flanges, also add A J = for JIS flanges, also add J	t S E	nousing coated, disc Stainless Steel, cuff BR (not available on size 1)	10 = 145 psi (10 bar)	2 = Mounting 3 = Different	me (sizes 2, 2.5 and 3 only) g clips (sizes 2, 2.5 and 3 only) ial pressure gauge in m (fitted to customer's		RF3-8
T = NPT thread (size 1 only), also add T P = Internal Coating with 2-K polyurethane	ł S	Butterfly valve, cast nousing coated, disc Stainless Steel, cuff EPDM (not available	16 = 230 psi (16 bar)	equipme 4 = Different	,		RF5
paint, also add P	NV =	on size 1) = Butterfly valve, cast nousing coated, disc Stainless Steel, cuff			ial pressure gauge in brass customer's equipment)		RF7
	BN =	Viton (not available on size 1) = Butterfly valve, cast					RF4-1
	E	nousing coated, disc Bronze, cuff NBR (not available on size 1) Butterfly valve, cast					RF4-2
	l E	nousing coated, disc Bronze, cuff EPDM not available on size 1)					BWF
	BV =	Butterfly valve, cast nousing coated, disc Bronze, cuff Viton					RFH-1
	E = 1	not available on size 1) Ball valve Stainless					RFH-2
	M =	Steel (size 1 only) Ball valve brass (size I only)					RFH-4
BOX 9			BOX 10	_	BOX 11		
Modification Number			Element Set	F	iltration Rating		ATF
X = latest version supplie by factory	ed	UKS1 = Conical Slo UKS2 = Conical Slo UKS2.5 = Conical S UKS3 = Conical Slo	tted Tube for size 2 lotted Tube for size 2.5	3	200 = 200 μm (not for size 4) 300 = 300 μm (not for size 4) 500 = 500 μm		

UKS3.5 = Conical Slotted Tube for size 3.5

UKS4 = Conical Slotted Tube for size 4

 $1000 = 1000 \mu m$

 $2000 = 2000 \mu m$

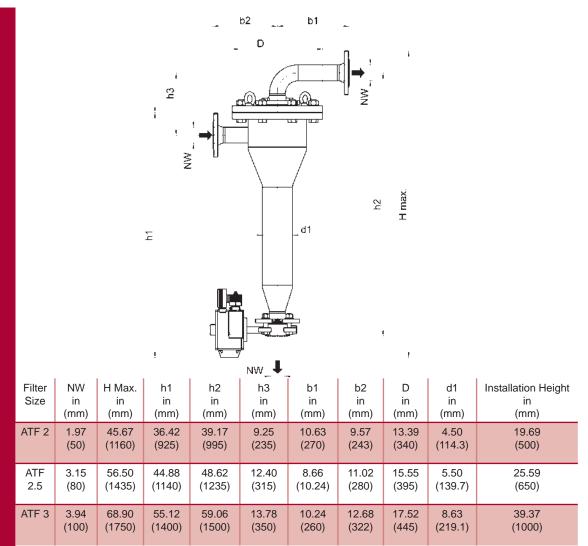
 $3000 = 3000 \mu m$



Automatic Twist Flow Strainer ATF-2, ATF-2.5, ATF-3

480 gpm 1816 L/min 230 psi 16 bar





Filter Housing Specifications

Filtration Rate:	200-3000 μm slotted tube only		
Operating Rate:	32°F - 194°F (0°C - 90°C)		
Housing Material:	Stainless Steel or Carbon Steel		
Size:	2	2.5	3
Flow Rate:	110 gpm	260 gpm	480 gpm
	(416 L/m)	(984 L/m)	(3652 L/m)
Pressure Rating:	145 or 230 psi	145 or 230 psi	145 or 230 psi
	(10 or 16 bar)	(10 or 16 bar)	(10 or 16 bar)
Connections Inlet/	2" Flange	3" Flange	4" Flange
Outlet:	(DN 50)	(DN 80)	(DN 100)
Connection	2" Flange	3" Flange	4" Flange
Discharge Line:	(DN 50)	(DN 80)	(DN 100)
Filter Area:	55 in²	150 in²	266 in²
	(360 cm²)	(966 cm²)	(1720 cm²)
Weight:	132 lbs	297 lbs	440 lbs
	(60 kg)	(135 kg)	(200 kg)
Volume:	3.5 gal	7.4 gal	14.5 gal
	(13.5 L)	(28 L)	(55 L)

Automatic Twist Flow Strainer ATF-2, ATF-2.5, ATF-3



How to Build a Valid Model Number for a ATF-2, 2.5 and 3: **Filter** Model BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 Number ATF Selection Example: NOTE: One option per box BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 UKS2 = ATF2EPZ1ENN100XUKS2200 ATF 10 0 200 BOX 3 BOX 1 BOX 2 BOX 4 Filter Series Control Type Size Voltage 0 = No controls 2 = Inlet/outlet 2" ANSI 230 VAC, 60 Hz, flange Single Phase ATF M = Manual valve 2.5 = Inlet/outlet 3" ANSI 110VAC, 60 Hz, EP = Electro-pneumatic discharge flange Single Phase valve, without timer control 3 = Inlet/outlet 4" ANSI 24VAC, 60 Hz, Single flange EPZ = Electro-pneumatic discharge valve, with timer control 4 = 24VDCE = Electric discharge valve, without timer control EZ = Electric discharge valve, with timer control BOX 5 BOX 6 BOX 7 BOX 8 **Housing Material** Discharge Valve Pressure Rating Accessories 0 = NoneN = Carbon Steel 0 = noneNN = Butterfly valve, cast E = Stainless Steel 10 = 145 psi (10)1 = Base frame (sizes 2, 2.5 and 3 only) housing coated, disc A = for ANSI flanges, bar) 2 = Mounting clips (sizes 2, 2.5 and 3 only) Stainless Steel, cuff also add A BR (not available on 16 = 230 psi (16 3 = Differential pressure gauge in J = for JIS flanges, also size 1) add J bar) aluminum (fitted to customer's NE = Butterfly valve, cast T = NPT thread (size 1 equipment) housing coated, disc only), also add T Stainless Steel, cuff 4 = Differential pressure gauge in stainless P = Internal Coating with EPDM (not available steel (fitted to customer's equipment) 2-K polyurethane on size 1) paint, also add P 5 = Differential pressure gauge in brass NV = Butterfly valve, cast (fitted to customer's equipment) housing coated, disc Stainless Steel, cuff Viton (not available on size 1) BN = Butterfly valve, cast housing coated, disc Bronze, cuff NBR (not available on size 1) BE = Butterfly valve, cast housing coated, disc Bronze, cuff EPDM (not available on size 1) BV = Butterfly valve, cast housing coated, disc Bronze, cuff Viton (not available on size 1) E = Ball valve Stainless Steel (size 1 only) M = Ball valve brass (size 1 only) BOX 9 **BOX 10** BOX 11 Element Set **Modification Number** Filtration Rating X = latest version supplied UKS1 = Conical Slotted Tube for size 1 $200 = 200 \mu m$ by factory (not for size 4) UKS2 = Conical Slotted Tube for size 2 300 = 300 μm UKS2.5 = Conical Slotted Tube for size 2.5. (not for size 4) UKS3 = Conical Slotted Tube for size 3 $500 = 500 \mu m$ $1000 = 1000 \mu m$ UKS3.5 = Conical Slotted Tube for size 3.5 $2000 = 2000 \mu m$ UKS4 = Conical Slotted Tube for size 4 $3000 = 3000 \mu m$

RF3-C RF3-0

RF3-1

RF3-2

RF3-2.5

RF3-3

RF3-4

RF3-5

RF3-6

RF3-7

RF3-8

RF5

RF7 RF4-1

RF4-2

BWF

RFH-1

RFH-2

RFH-4

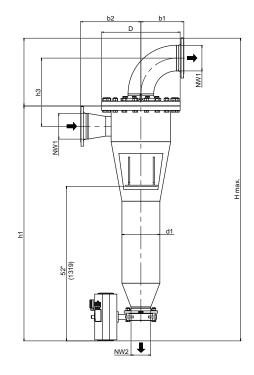
ATF

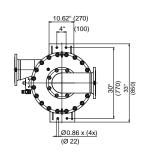


Automatic Twist Flow Strainer ATF-3.5, ATF-4

1760 gpm 6662 L/min 230 psi 16 bar







Filter Size	NW1 in (mm)	NW2 in (mm)	H Max. in (mm)	h1 in (mm)	h2 in (mm)	h3 in (mm)	b1 in (mm)	b2 in (mm)	D in (mm)	d1 in (mm)	Installation Height in (mm)
ATF	5.91	3.94	88.98	70.28	77.95	18.82	11.18	17.13	22.24	10.75	51.18
3.5	(150)	(100)	(2260)	(17.85)	(1980)	(478)	(284)	(435)	(565)	(273)	(1300)
ATF 4	7.87	5.91	101.77	78.94	88.19	22.91	14.45	20.24	26.38	12.75	40.06
	(200)	(150)	(2585)	(2005)	(2240)	(582)	(367)	(514)	(670)	(323.9)	(1170)

Filter Housing Specifications

Filtration Rate:	200-3000 μm slotted tube only	
Operating Rate:	32°F - 194°F (0°C - 90°C)	
Housing Material:	Stainless Steel or Carbon Steel	
Size:	3.5	4
Flow Rate:	965 gpm (3652 L/m)	1760 gpm (6662 L/m)
Pressure Rating:	145 or 230 psi (10 or 16 bar)	145 or 230 psi (10 or 16 bar)
Connections Inlet/Outlet:	6" Flange (DN 150)	8" Flange (DN 200)
Connection Discharge Line:	4" Flange (DN 100)	6" Flange (DN 150)
Filter Area:	540 in² (3500 cm²)	605 in² (3900 cm²)
Weight:	578 lbs (263 kg)	920 lbs (418 kg)
Volume:	34 gal (130 L)	60 gal (230 L)

Automatic Twist Flow Strainer ATF-3.5, ATF-4



How to Build a Valid Model Number for a ATF-3.5, 4: BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 Example: NOTE: One option per box BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6 BOX 7 BOX 8 BOX 9 BOX 10 BOX 11 UKS2 = ATF3.5EPZ1ENN100XUKS3.5200 ATF Ε NN 10 0 200 BOX 2 BOX 3 BOX 1 BOX 4 Filter Series Size Control Type Voltage 0 = No controls 3.5 = Inlet/outlet 6" ANSI 230 VAC, 60 Hz, Single Phase flange ATF M = Manual valve 110VAC, 60 Hz, 4 = Inlet/outlet 8" ANSI EP = Electro-pneumatic discharge Single Phase valve, without timer control flange 3 = 24VAC, 60 Hz, Single EPZ = Electro-pneumatic discharge Phase valve, with timer control 4 = 24VDCE = Electric discharge valve, without timer control EZ = Electric discharge valve, with timer control BOX 5 BOX 6 BOX 7 BOX 8 **Housing Material** Discharge Valve Accessories Pressure Rating 0 = None N = Carbon Steel NN = Butterfly valve, cast E = Stainless Steel 10 = 145 psi (10 1 = Base frame (sizes 2, 2.5 and 3 only) housing coated, disc A = for ANSI flanges, bar) Stainless Steel, cuff 2 = Mounting clips (sizes 2, 2.5 and 3 only) also add A BR (not available on 16 = 230 psi (16 3 = Differential pressure gauge in J = for JIS flanges, also size 1) L bbs bar) aluminum (fitted to customer's NE = Butterfly valve, cast T = NPT thread (size 1 equipment) housing coated, disc only), also add T Stainless Steel, cuff 4 = Differential pressure gauge in stainless P = Internal Coating with EPDM (not available steel (fitted to customer's equipment) 2-K polyurethane on size 1) paint, also add P 5 = Differential pressure gauge in brass NV = Butterfly valve, cast housing coated, disc (fitted to customer's equipment) Stainless Steel, cuff Viton (not available on size 1) BN = Butterfly valve, cast housing coated, disc Bronze, cuff NBR (not available on size 1) BE = Butterfly valve, cast housing coated, disc Bronze, cuff EPDM (not available on size 1) BV = Butterfly valve, cast housing coated, disc Bronze, cuff Viton (not available on size 1) E = Ball valve Stainless Steel (size 1 only) M = Ball valve brass (size 1 only) BOX 9 **BOX 10 BOX 11** Element Set Modification Number Filtration Rating X = latest version supplied UKS1 = Conical Slotted Tube for size 1 $200 = 200 \mu m$ by factory (not for size 4) UKS2 = Conical Slotted Tube for size 2 $300 = 300 \mu m$ UKS2.5 = Conical Slotted Tube for size 2.5 (not for size 4) UKS3 = Conical Slotted Tube for size 3 $500 = 500 \mu m$ $1000 = 1000 \mu m$ UKS3.5 = Conical Slotted Tube for size 3.5 $2000 = 2000 \mu m$ UKS4 = Conical Slotted Tube for size 4 $3000 = 3000 \mu m$

Filter Model Number Selection

RF3-C

RF3-0

RF3-1 RF3-2

RF3-2.5

RF3-3

RF3-4

RF3-5

RF3-6

RF3-7

RF3-8

RF5

RF7

RF4-1

RF4-2

BWF

RFH-1

RFH-2

RFH-4

ATF

Bag Housings and Elements



Bag Housing



Welded Bags

Schroeder Process Filtratrion offers a complete line of bag elements and housings to fit a wide variety of applications. From single bag housings, to high flow multiple bag housings, Schroeder has an economical filtration solution to fit nearly any application.

The disposable bag elements offered by Schroeder Process Filtration come in a wide variety of materials, sizes and styles. Bag styles include: steel ring bags (stainless steel optional) that are sewn into top of bag, and plastic flange bags that have flange sewn at top of bag and draw string. A multitude of options are available - call factory for details. Polyester and polypropylene felt can be used for filtration as low as 1 micron while monofilament and multifilament bags can be used for more coarse filtration. Felt bags are either singed or glazed to prevent fiber migration on the clean side of the filter.

Our bags are made in standard industry sizes from 1 through 12. We also have commercial size bags available with a snap band support ring. The seams on the bags are either sewn or welded depending upon the systems requirements. Welded bags offer:

- No needle holes
- No thread migration
- Strong, even sealing of the material

Schroeder Process Filtration bag housings can handle flows as low as 20 gpm and as high as several thousand gpm. Single bag housings are rated for either 100 psi service or 150 psi. All of our multiple bag housings and duplex bag housings are rated at 150 psi. Multiple bag housings are manufactured to hold 2 bags to 10 bags and more. Housings are made from either carbon steel or electro-polished stainless steel. ASME section VII U-stamped housings are available upon request.

Schroeder Industries has long been known for innovation to meet customer needs. Contact the factory if you have an application that requires special consideration and designs. Multiple housings can be skid mounted with integrated valves, sensors and controls to meet your specific needs.

Our bag systems provide efficient and economical filtration. Some advantages to bag filtration are:

- Positive seal to assure zero fluid bypass
- Quick and easy installation
- Handles provide easy removal from housings
- High dirt holding capacity
- Sturdy construction to prevent bags from failing in operation
- 100% incinerable

Bag Housings and Elements

Typical Products Filtered

- Abrasives
- Adhesives
- Aerosol Products
- Chemicals
- Cleaning Fluids
- Coolants
- Cutting Fluids
- Detergents
- Dyestuffs
- Fabric Coatings
- Food Products

- Industrial Coatings
- Juices
- Lacquers
- Latices
- Liquids of all types
- Paints
- Paper Coatings
- Petroleum Products
- Pigments
- Pharmaceuticals
- Plasticizers

- Plastisols
- Printing Inks
- Process Water
- Polymer Solutions
- Roller Coatings
- Textile Chemicals
- Vegetable Oils
- Vinegar
- Waxes
- And Many Other Products





















PROCESSING

INDUSTRIAL

TOOL

TECHNOLOGY

GENERATION INDUSTRY

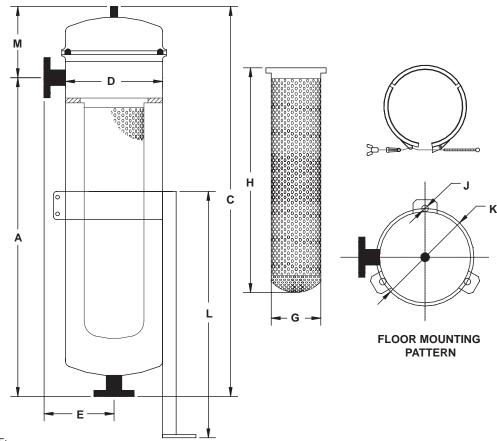
STEEL MAKING

WASTE WATER TREATMENT



Single Bag Housings - 100 psi

100 psi *7bar*



NOTE:

Drawings may change without notice. Contact factory for certified drawings.

Dimensions BH1 100 psi

Model	Bag Size	A inches (mm)	C inches (mm)	D ø inches (mm)	E inches (mm)	G ø inches (mm)	H inches (mm)	J ø inches (mm)	K ø inches (mm)	L inches (mm)	M inches (mm)
BH1	1	21.65 (550)	29.13 (740)	9.13 (232)	6.93 (176)	6.77 (172)	13.78 (350)	0.39 (10)	12.72 (323)	20.47 (520)	7.48 (190)
BH1	2	39.56 (1050)	47.04 (1195)	9.13 (232)	6.93 (176)	6.77 (172)	28.74 (730)	0.39 (10)	12.72 (323)	20.47 (520)	7.48 (190)
BH1	3	14.17 (360)	21.18 (538)	7.08 (180)	5.90 (150)	3.86 (98)	7.87 (200)	0.39 (10)	9.92 (252)	13.78 (350)	7.00 (178)
BH1	4	19.48 (495)	26.49 (673)	7.08 (180)	5.90 (150)	3.86 (98)	12.20 (310)	0.39 (10)	9.92 (252)	13.78 (350)	7.00 (178)

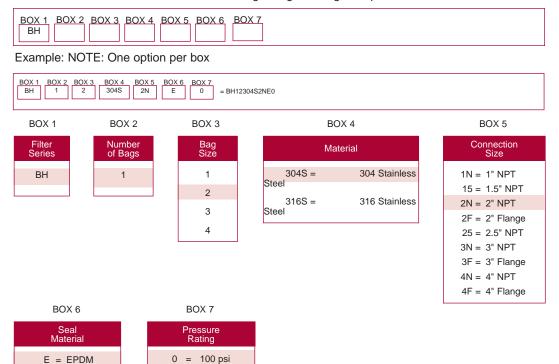
Specifications

Max. Working Pressure:	100 psi (7 bar)			
Max. Working Temperature:	167°F (75°C)			
Support Leg:	Adjustable			
Lid Closure:	Threaded Clamp			
	BH1 - 1	BH1 - 2	BH1 - 3	BH1 - 4
Max. Flow:	90 gpm (333 L/min)	200 gpm (750 L/min)	20 gpm (75 L/min)	45 gpm (167 L/min)
Housing Volume:	7.13 gal (27 L)	12.15 gal (46L)	2.90 gal (11 L)	3.70 gal (14 L)
Empty Weight:	46 lbs. (21 kg)	57 lbs. (26 kg)	31 lbs. (14 kg)	33 lbs. (15 kg)

Single Bag Housings -100 psi



How to Build a Valid Model Number for a Single Bag Housing, 100 psi:



V = Viton

Filter Model Number Selection BH1 100psi

> BH1 150 psi

> > BH2-BH10

DBH2-DBH10

Micron- Rated/ OAB

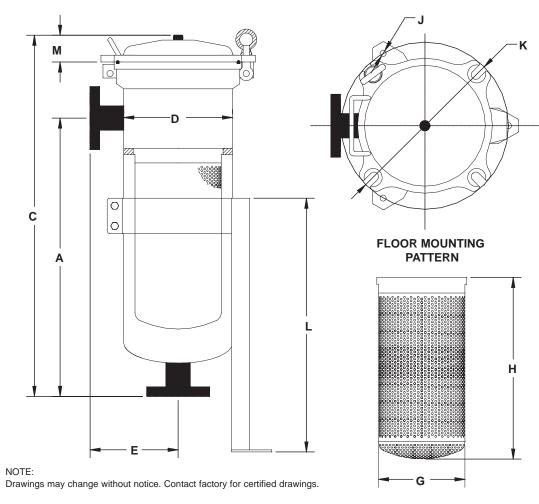
PPH/PPA

^{*}Shaded selections are preferred order codes that designate shorter lead times.



Single Bag Housings -150 psi

150 psi 10 bar



Dimensions BH1 150 psi

Model	Bag Size	A inches (mm)	C inches (mm)	D ø inches (mm)	E inches (mm)	G ø inches (mm)	H inches (mm)	J ø inches (mm)	K ø inches (mm)	L inches (mm)	M inches (mm)
BH1	1	21.65 (550)	29.13 (740)	8.50 (216)	6.61 (168)	6.77 (172)	13.78 (350)	0.39 (10)	13.07 (332)	19.84 (504)	2.56 (65)
BH1	2	36.61 (930)	44.09 (1120)	8.50 (216)	6.61 (168)	6.77 (172)	28.74 (730)	0.39 (10)	13.07 (332)	22.72 (704)	2.56 (65)
BH1	3	13.78 (350)	19.49 (495)	5.51 (140)	5.32 (135)	3.82 (97)	7.87 (200)	0.39 (10)	8.31 (211)	13.78 (350)	1.58 (40)
BH1	4	17.72 (450)	23.43 (595)	5.51 (140)	5.32 (135)	3.82 (97)	12.20 (310)	0.39 (10)	8.31 (211)	13.78 (350)	1.58 (40)

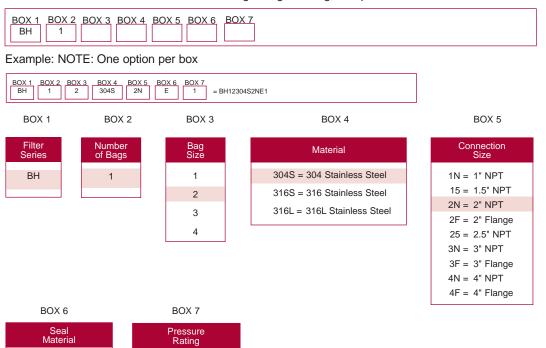
Specifications

Max. Working Pressure:	150 psi (10 bar)			
Max. Working Temperature:	167°F (75°C)			
Support Leg:	Adjustable			
Lid Closure:	Swing Bolts			
	BH1 - 1	BH1 - 2	BH1 - 3	BH1 - 4
Max. Flow:	90 gpm (333 L/min)	200 gpm (750 L/min)	20 gpm (75 L/min)	45 gpm (167 L/min)
Housing Volume:	6.07 gal (23 L)	9.77 gal (37 L)	1.66 gal (6.3 L)	2.06 gal (7.8 L)
Empty Weight:	75 lbs. (34 kg)	95 lbs. (43 kg)	40 lbs. (18 kg)	46 lbs. (21 kg)

Single Bag Housings - 150 psi



How to Build a Valid Model Number for a Single Bag Housing, 150 psi



1 = 150 psi

E = EPDM

V = Viton

Filter Model Number Selection BH1 100 psi

> BH1 150psi

BH2-BH10

DBH2-DBH10

Micron- Rated/ OAB

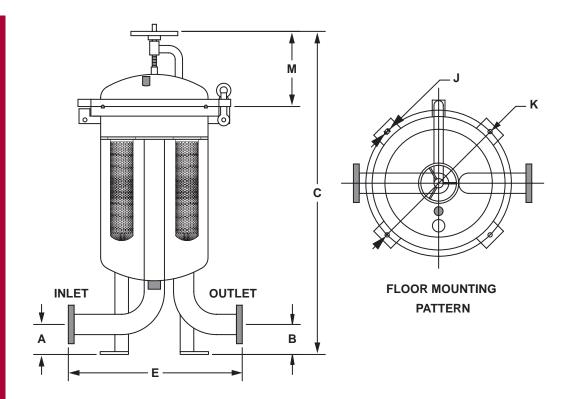
PPH/PPA

^{*}Shaded selections are preferred order codes that designate shorter lead times. Filter and Media are sold separately.

BH2 - BH10 Multi Bag Housings

150 psi 10 bar





Drawings may change without notice. Contact factory for certified drawings.

Multiple Bag Housing **Dimensions**

Number of Bags	Available Porting (Flange)	А		В	1	c	;	E	<u>.</u>	øJ	I	øŀ	ζ	М	
		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	3"	4.25	108	4.25	108	56.02	1423	22.99	584	0.55	14	20.31	516	14.57	370
	4"	5.00	127	5.00	127	58.35	1482	25.98	660	0.55	14	20.31	516	14.57	370
3	3"	4.25	108	4.25	108	58.46	1485	27.01	686	0.55	14	24.33	618	16.02	407
	4"	5.00	127	5.00	127	60.79	1544	28.50	724	0.55	14	24.33	618	16.02	407
	3"	4.25	108	4.25	108	58.78	1493	27.48	698	0.55	14	27.72	704	16.14	410
4	4"	5.00	127	5.00	127	61.10	1552	29.02	737	0.55	14	27.72	704	16.14	410
	6"	5.98	152	5.98	152	65.43	1662	34.49	876	0.55	14	29.29	744	16.34	415
	3"	4.25	108	4.25	108	59.17	1503	28.50	724	0.55	14	29.29	744	16.34	415
6	4"	5.00	127	5.00	127	61.50	1562	30.04	763	0.55	14	29.29	744	16.34	415
	6"	5.98	152	5.98	152	65.43	1662	34.49	876	0.55	14	29.29	744	16.34	415
	4"	5.00	127	5.00	127	70.20	1783	34.02	864	0.55	14	37.87	962	23.27	591
8	6"	5.98	152	5.98	152	72.52	1842	39.02	991	0.55	14	37.87	962	21.46	545
	8"	7.24	184	7.24	184	80.63	2048	41.22	1047	0.55	14	37.87	962	25.59	650
40	6"	5.98	152	5.98	152	79.21	2012	42.99	1092	0.55	14	41.89	1064	26.97	685
10	8"	7.24	184	7.24	184	83.19	2113	42.01	1067	0.55	14	41.89	1064	26.97	685
	10"	8.50	216	8.50	216	89.25	2267	47.99	1219	0.55	14	47.83	1215	27.95	710

Specifications

Max. Working Pressure: 150 psi (10 bar)

Max. Working Temperature: 167°F (75°C)

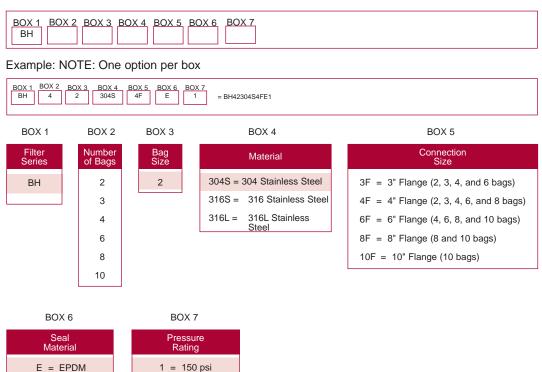
Support Legs: Fixed

Lid Closure: Swing Bolts

Multi Bag Housings BH2 - BH10

Number of Bags	Мах	Flow	Empty	Weight	Housing Volume		
	GMP L/Min		lbs kg		Gallons	Liters	
2	396	1500	214	97	30.64	116.00	
	396	1500	225	102	30.91	117.00	
3	594	2250	276	125	49.66	188.00	
	594	2250	287	130	49.93	189.00	
	793	3000	355	161	64.46	244.00	
4	793	3000	373	169	64.72	245.00	
	793	3000	454	206	73.70	279.00	
_	991	3750	437	198	73.18	277.00	
6	1189	4500	445	202	73.44	278.00	
	1189	4500	454	206	73.70	279.00	
_	1387	5250	992	450	129.18	489.00	
8	1585	6000	992	450	129.71	491.00	
	1585	6000	1014	460	130.24	493.00	
	1783	6750	1301	590	174.88	662.00	
10	1981	7500	1323	600	175.41	664.00	
	1981	7500	1576	715	225.60	854.00	

How to Build a Valid Model Number for a Mulit-bag Housing, 150 psi:



^{*}Shaded selections are preferred order codes that designate shorter lead times.

Filter and Media are sold separately.

V = Viton

Additional sizes available - call factory for details.

Housing Flow and Volume

BH1 100 psi

BH1 150 psi

BH2-BH10

DBH2-DBH10

Micron- Rated/ OAB

PPH/PPA

Filter Model Number Selection

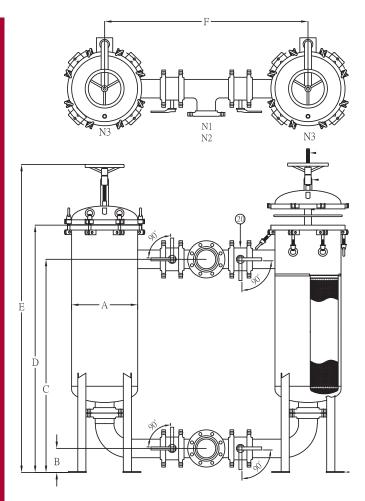
DBH2 -DBH10

U si

150 psi 10 bar



Duplex Multi Bag Housings



Dimensions

A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	F Inches (mm)	G Inches (mm)	N1	N2	N3
16	6	52	60	75	49	20	Inlet 3 /	Outlet 3 /	Vent .5 /
(406)	(148)	(1310)	(1520)	(1893)	(1250)	(516)	150P SORF	150P SORF	PT F

Specifications

Max. Working Pressure: 150 psi (10 bar)

Max. Working Temperature: 167°F (75°C)

Support Legs: Fixed

Lid Closure: Swing Bolts

Duplex Multi Bag Housings



Filter Model Number Selection BH1 100 psi

BH1 150 psi

> BH2-BH10

DBH2-DBH10

Micron- Rated/ OAB

PPH/PPA

How to Build a Valid Model Number for a Duplex Bag Housing, 150 psi:

Example: NOTE: One option per box



BOX 1	BOX 2	BOX 3	BOX 4		
Filter Series	Number of Bags Per Housing	Bag Size	Material		
DBH	-	2	304S = 304 Stainless Steel		
	2		316S = 316 Stainless Steel		
	3		316L = 316L Stainless		
	4		Steel		
	6				
	8				
	10				

Size
3F = 3" Flange (2, 3, 4, and 6 bags)
4F = 4" Flange (2, 3, 4, 6, and 8 bags)
6F = 6" Flange (4, 6, 8, and 10 bags)
8F = 8" Flange (8 and 10 bags)
10F = 10" Flange (10 bags)

BOX 5

BOX 6	BOX 7
Seal Material	Pressure Rating
E = EPDM	1 = 150 psi
V = Viton	

^{*}Shaded selections are preferred order codes that designate shorter lead times. Filter and Media are sold separately.

Bag Element Operating Guidelines

Recommended change-out:

It is recommended that a liquid filter bag be changed out when the differential pressure (ΔP) between the upstream and downstream sides reaches 20 - 25 psi. Although this is a rule of thumb, some applications may require change-out at a ΔP well below 20 psi. Under no circumstances should ΔP be allowed to exceed 25 psi.

What is the product that needs to be filtered?

Obtain all the details of the liquid/solid composition. You need to confirm the chemical compatibility to ensure the proper material is used for the bag, retainer type and the housing for the filter bags.

What is the viscosity of the product to be filtered?

Use a flow rate chart to find out the optimum operating parameters.

What is the pH level in order to choose the proper material for the filtration system?

Is the product an acid with a pH of 1-7 or is it Alkaline 7-14?

What type of solids does the product contain?

Are the solids crystalline or gelatinous? Crystalline solids can form a permeable layer on the filter media and gelatinous solids can form an impermeable layer that will cause blinding off of the filter media.

What is the density of the solids?

What is the PPM (parts per million) of the solids?

What is the range of particle size? What size does the customer want to remove and at what efficiency?

The range of particulate size is important in determining which micron rating your filter media should be? Filter bags can be made with nominally rated material or with high efficiency material.

What is the flow rate of the product?

The flow rate is critical information required when determining the size and number of bags required.

Is it a continuous or batch process?

This is important in order to determine the filter bag consumption.

What is the operating pressure of the system?

At what minimum and maximum potential pressure is the system designed to run? What is the acceptable pressure required? Filter bag differential pressure capacity is 20-25 psi.

What is the temperature of the product being filtered?

Temperature has an impact on the viscosity, the filter media and the O-rings. The temperature can even affect the corrosion rate of the housing.

Technical Information for Liquid Bags Elements

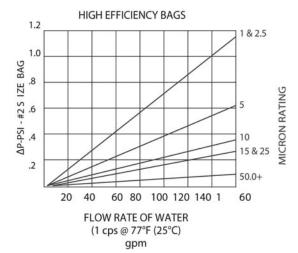
Sizes	Sizes Available												
				Bag/Collar/Style Manufacturers									
Size	Sq. Ft.	Diameter (in.)	Length (in.)	S	SS	DS	Р	FSI	AFF	GAF	Strainrite	Rosedale	Commercial
1	2.5	7.06	16.5	•	•	•	•	•	•	•	•	•	
2	5.0	7.06	32.0	•	•	٠	•	•	•	•	•	•	
3	0.8	4.12	8.0	•	•	•	•	•				•	
4	1.3	4.12	14.0	•	•	•	•	•				•	
7	1.3	5.5	15.0	•	•	•						•	
8	2.0	5.5	21.0	•	•	•						•	
9	3.3	5.5	31.0	•	•	•						•	
C1	2.5	7.31	16.5			٠							•
C2	5.0	7.31	32.5			•							•

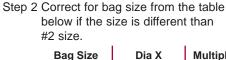
^{*} Shaded selections are preferred order codes that designate shorter lead times.

Bag Elements

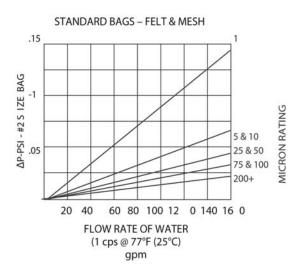
Step 1 The graphs show the ΔPB produced by a #2 size bag for water, 1 cps @ 77°F (25°C). The pressure drop is determined from the type of bag, the micron rating and flow rate.

Filter Bag Pressure Drop PB





Bag Size	Dia X Length	Multiply By
2	7.06 x 32	1.00
9	5.5 x 32	1.50
1	7.06 x 16	2.25
8	5.5 x 21	2.25
7	5.5 x 15	3.00
4	4.15 x 14	4.50
3	4.15 x 8	9.00



Step 3 If the viscosity of the liquid is greater than 1 cps (water @ 77°F (25°C).

Multiply the result from step 2 by the proper correction factor from the chart below.

Viscosity (cps)	Correction Factor					
50	4.5					
100	8.3					
200	16.6					
400	27.7					
800	50.0					
1000	56.2					
1500	77.2					
2000	113.6					
4000	161.0					
6000	250.0					
8000	325.0					
10000	430.0					

The value obtained in step 3, $\triangle PB$ is the clean pressure drop caused by the filter bag.

SUMMARY

System Pressure Drop = Δ PS = Δ PH + Δ PB

For new applications, the ΔPS should be 2.0 psi (0.14 bar) or less. For high contaminant loading applications, this value should be as low as possible. The lower this value is, the more contaminant a bag will hold. For applications with nominal contaminants, this value can go to 3.0 psi (0.21 bar) or more. Consult factory for specific recommendations when the clean ΔP exceeds 2.0 psi (0.14 bar).

Micron-Rated Bag Elements

Micron-Rated Bag Elements

How to Build a Valid Model Number for a Micron-Rated Bag Element

BOX 1 BOX 2 BOX 3 BOX 4 BOX 5 BOX 6

Example: NOTE: One option per box

PEF 100 P 2 S 0 = PEF100P2S0

BOX 1 BOX 2 BOX 3 BOX 4

BOX 1

Bag
Material

PEF = Polyester Felt
PPF = Polypropylene Felt
NOF = Nomex Felt
PPM = Polypropylene Monofilament
Mesh

NMO = Nylon Monofilament Mesh
PEM = Polyester Multifilament Mesh
NMU = Nylon Multifilament Mesh

Micron Rating

See chart below for available micron ratings Cover Material

P = Plain, No Cover

PEM = Polyester Multifilament Mesh

MM = Muslin Mesh

SBN = Spun Bonded Nylon

NMU = Nylon Multifilament
Mesh

Bag Size Diameter Length 7.06 16.5 2 7.06 32.0 3 4.12 8.0 4 4.12 14.0 7 5.50 15.0 8 5.50 21.0 9 5.50 31.0 8.00 16.0 11 12 8.00 30.0 C1 7.31 16.5 C2 7.31 32.5

BOX 5

Collar Type

S = Standard Steel Ring
SS = Stainless Steel Ring
DS = Draw String
P = Plastic Flange

BOX 6

Options

0 = No Options
H = Handles
W = Welded Seams
Only available on plastice flange bags

Construction	Fibers		1	3	5	10	15	25	50	75	100	125	150	175	200	250	300	400	600	800	1000
Felt	Polyester	PEF	•			•	٠	•		•	•		•								\Box
	Polypropylene	PPF			•																
	Nomex	NOF	•		•																
Monofilament	Polypropylene	PPM																			
Mesh	Nylon	NMO								•			•								
Multifilament	Polyester	PEM									•		•				•	•		•	$\overline{\cdot}$
Mesh	Nylon	NMU													•	•		•			•

Technical Information for Liquid Bag Elements

Compatibility & Temperature

Medias	Mineral Acids	Organic Acids	Alkalies	Oxidizing Acids	Animal Vegetable Perro-Oils	Organic Solvents	Miro Organisms	Temp. Lim- its (°F)
Polyester	Good	Good	Good	Good	Excellent	Excellent	Excellent	257°
Polypropyl- ene	Good	Excellent	Good	Fair	Excellent	Good	Excellent	200°
Nomex	Fair	Fair	Good	Poor	Excellent	Excellent	Excellent	425°
Nylon	Poor	Fair	Good	Poor	Excellent	Excellent	Excellent	300°

Oil Absorbing Bag Elements

Schroeder's Oil Absorbing Bag Filters (OAB) are a cost-effective solution for removing oil from water while simultaneously filtering as low as 1 micron. The high capacity bag filter is designed with different layers of micro-fibers that not only retain oil, but increase overall efficiency to 95% or greater on microns ranging from 1 to 50. The overall construction of this filter bag has 30 plus square feet of media and can retain 10 pounds or more of oil depending on the micron. These bags are offered in standard bag size 1 or 2.

- Food Processing
- Hydraulic Systems
- Gelantinous Contaminants
- Cutting Oil
- Vacuum Pump

- Parts Washing
- Engine Oil/Transmission Oil
- Natural Gas Sweetening
- Natural Gas Dehydration
- Lubrication Oil

Materials of Construction

BH1 100 psi

BH1 150 psi

Efficiency

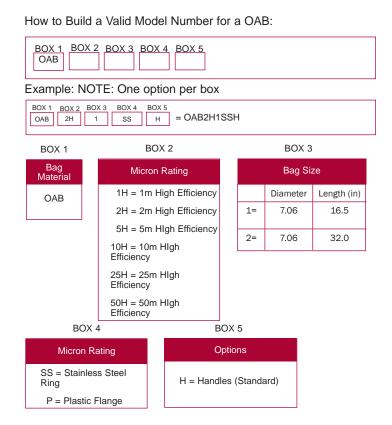
BH2-BH10

DBH2-DBH10



PPH/PPA

Model Code



High Efficiency Bag Elements

Materials of Construction

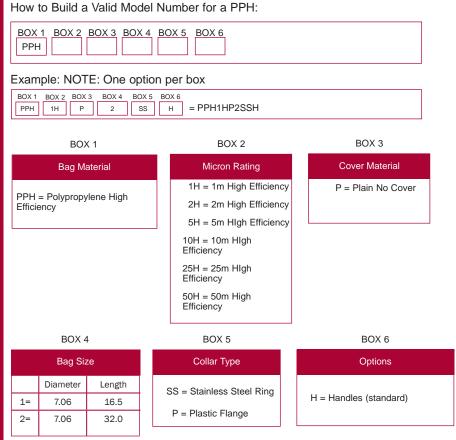
High efficiency bag elements are constructed of Polypropylene meltblown microfibers, allowing for very fine particles capture at high efficiencies. All high efficiency filter bags are over 90% efficient at their suggested micron rating. The bag construction makes this filter an easy to use, convenient, high performance alternative to filter cartridges. Maximum flow per bag is 60 gpm.

Product Number:	PPH1H	PPH3H	PPH5H	PPH10H	PPH25H
Dirt Holding Capacity grams of AC Test Dust Loaded to 35 psi at 12 GPM	74	150	160	175	195
Oil Holding Capacity grams of Mineral Oil at Saturation	528	657	690	726	798

Efficiency

Product Number	Suggested Application Rating	Efficiency	
PPH1H	1.0 micron	93.00%	
PPH2H	2.0 micron	94.00%	
PPH5H	5 micron	94.00%	
PPH10H	10 micron	94.00%	
PPH25H	25 micron	97.00%	
PPH50H	50 micron	97.00%	

Model Code



Absolute Rated Bag Elements

The Absolute Rated Bag Elements are constructed of polypropylene meltblown microfibers, allowing for very fine particles capture at high efficiencies. All Absolute Rated filter bags are over 97% efficient at their suggested micron rating. The bag construction makes this filter an easy to use, convenient, high performance alternative to filter cartridges. The filter contains over 30 sq. ft. of usable filter media. This compares with only 4.4 sq. ft. for most filter bags and only .65 sq. ft. for most cartridges. Maximum flow per bag is 40 gpm.

Product Number:	PPA3A	PPA5A	PPA13A	PPA32A
Dirt Holding Capacity grams of AC Test Dust Loaded to 35 psi at 12 GPM	225	275	525	625
Oil Holding Capacity grams of Mineral Oil at Saturation	1000	1250	2300	2500

Product Number	Suggested Application Rating	Efficiency	
PPA1A	1.0 micron	97.00%	
PPA2A	2.0 micron	97.00%	
PPA3A	3.0 micron	97.00%	
PPA5A	5.0 micron	97.00%	
PPA13A	13.0 micron	97.00%	
PPA32A	32.0 micron	97.00%	

How to Build a Valid Model Number for a PPA:

BOX 1	BOX 2 BO	X 3 BOX 4	BOX 5	BOX 6
PPA				

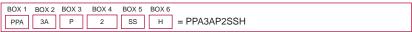
Example: NOTE: One option per box

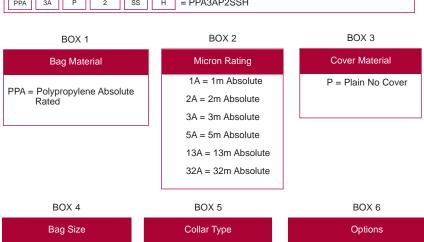
Diameter

7.06

Length

32.0





SS = Stainless Steel Ring

Materials of Construction

BH1 100 psi

BH1 150 psi

> BH2-BH10

DBH2-DBH10

Micron- Rated/ OAB

Efficiency

PPH/PPA

Model Code

H = Handles (Stainless Steel only)

Overview



Schroeder has depth filtration cartridges for fine filtration and the housings to fit. Standard cartridges are available in 10, 20, 30 and 40 inch lengths. These meltblown filters come in either a 2.5" or 4.5" diameter. Depth filter cartridges have larger openings towards the outside of the element and smaller openings near the center. This allows for higher dirt holding capacity to lengthen the life of the element.

Most common are the elements with a double open end (DOE). Cartridges with either a 222 o-ring seal or a FIN style are also available. The range of filtration on these elements is from 1 micron up to 100 microns. All of our elements are made from 100% pure polypropylene fibers to ensure high quality. Elements with center tubes for support are also available.

The housings for these elements are available with either a 100% polypropylene head and bowl or in electro-polished stainless steel.

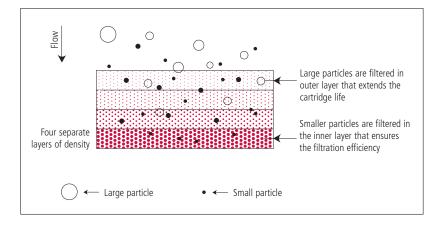
The polypropylene housings accept either the 10" or 20" elements for both 2.5" and 4.5" diameter. The threaded head and bowl allow for quick and easy changing of the elements. Various sizes of NPT ports make installation quick and easy and allow flows up to 40 gpm depending upon the housing size. Because the housings are 100% polypropylene, they are tough and durable. The 2.5" housings are rated up to 125 psi (8.6 bar) at 140°F (60°C) while the 4.5" housings are rated for 100 psi (7.0 bar) at 140°F (60°C).

Stainless steel housings are used for higher flow rates and pressure up to 150 psi (10.0 bar) at 167°F (75°C). These larger housings hold seven elements in a circular array in all four standard lengths. The quick release clamp on the lid allows for easy changing of the elements while providing a tight seal. Each one comes standard with a gauge port in the lid. DOE and 222 style cartridges are accepted by these housings.

Both types of housing are durable, built to last in harsh conditions and have low clean pressure drops.

Features

- 100% polypropylene construction
- Max operating temperature 140°F (60°C)
- Max pressure drop 46 psi (3.2 bar) @ 68°F (20°C)
- Recommended cartridge replacement at 22 psi (1.5 bar)
- Special lengths and micron ratings available upon request
- 222 o-ring seal, FIN style end caps and center support tubes available upon request



Industries Served





THERMA









CHEMICAL INDUSTRIAL PROCESSING 1

THERMAL TRANSFER

GENERATION

INDUSTRY

STEEL MAKING

SEWAGE AND WASTEWATER TREATMENT

How to Build a Valid Model Number for a Economical (DCE) Element:



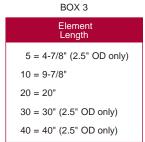
Example: NOTE: One option per box



Filter Series DCE

BOX 1

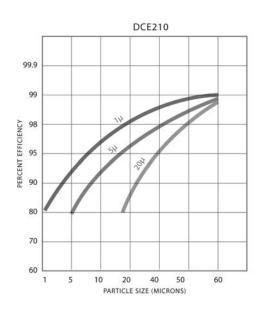


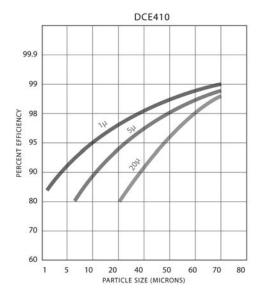


Micron Rating $01 = 1 \mu m$ $05 = 5 \mu m$ $10 = 10 \mu m$ $20 = 20 \mu m$ $25 = 25 \mu m$ $50 = 50 \mu m$ $75 = 75 \mu m$ $100 = 100 \mu m$ $150 = 150 \mu m$

BOX 4

Filter and Media are sold separately.





Filter Model Number Selection

DCE ACE

CH3 -CH7

CH12-CH24

RMF

Filter Data





The Schroeder Process meltblown cartridge filters utilize depth filtration to achieve the highest level of filtration. The tightly controlled manufacturing process ensures consistent reliability for optimal filter performance. Their 100% polypropylene construction makes these elements versatile and suitable in a wide range of process applications.

The graded density make up of these elements increases the surface area of the elements by allowing use of all the media, not just the surface. Larger particles are captured near the less dense exterior of the element while smaller particles pass to the inner part of the element where they are trapped. This allows for higher dirt holding capacity and longer element life.

Specifications

Media: Polypropylene

Material: 100% Meltblown Micro PP Fiber

Absolute Micron Ratings: 1µm, 3µm, 5µm, 10µm, 20µm, 25µm, 30µm, 50µm,

75μm, 100μm, 150μm

Inside Diameter: 1.1 inch (28 mm)

Outside Diameter: 2.5 inch (63 mm)

Maximum Differential 58 psi at 68°F (4 bar at 20°C)

Pressure and Temperature: 29 psi at 140°F (2 bar at 60°C)

14 psi at 176°F (1 bar at 80°C)

Recommended Element Change Out: 29 psid (2.1 bar diff)

Maximum Operating Temperature: 160°F (70°C)

Efficiency: 99.98%

Industries Served



CHEMICAL PROCESSING



INDUSTRIAL



THERMAL TRANSFER



POWER GENERATION



PAPER INDUSTRY



STEEL MAKING



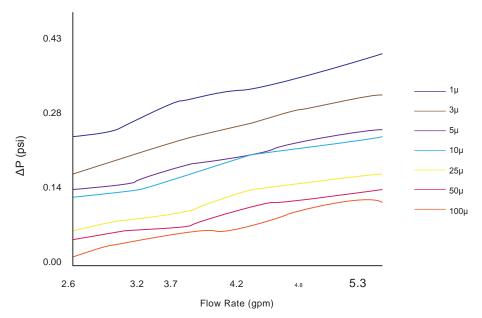
SEWAGE AND WASTEWATER TREATMENT



How to Build a Valid Model Number for a Absolute (ACE) Element







Filter Model Number **Selection**



DCE

CH1

CH3 -CH7

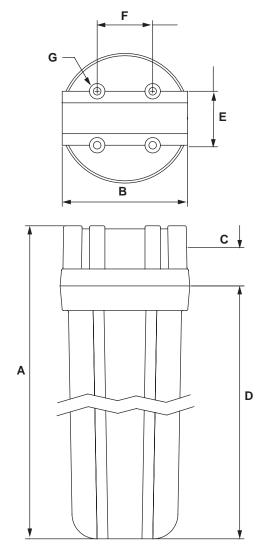
CH12-CH24

RMF

Filter Data



Cartridge Housing



NOTE:

Drawings may change without notice. Contact factory for certified drawings.

Dimensions

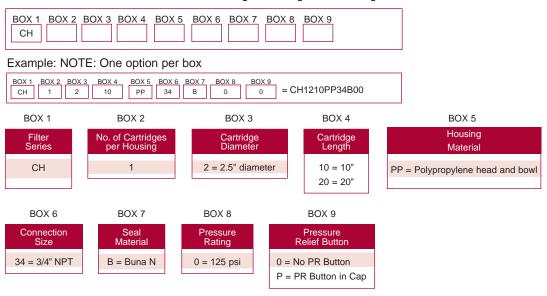
	A	B	C	D	E	F	G
	inch	øinch	inch	inch	inch	inch	inch
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
CH1210	12.36	5.12	0.56	10.47	2.32	2.24	0.19
	(314)	(130)	(14)	(266)	(59)	(57)	(5)
CH1220	22.48	5.12	0.56	20.60	2.32	2.24	0.19
	(571)	(130)	(14)	(523)	(59)	(57)	(5)
CH1410	13.90	7.12	1.88	11.26	2.91	2.91	0.19
	(353)	(181)	(48)	(286)	(74)	(74)	(5)
CH1420	23.78	7.12	1.88	21.26	2.91	2.91	0.19
	(604)	(181)	(48)	(540)	(74)	(74)	(5)

Specifications

	CH12	CH14			
Max. Flow Rate:	5-10 gpm (18.33 to 36.66 L/min	40 gpm (150 L/min			
Max. Working Pressure:	125 psi (8.6 bar)	100 psi (7 bar)			
Max Temperature:	140°F (60°C)	140°F (60°C)			
Housing Material:	Polypropylene	Polypropylene			
O-Ring Material:	Buna N	Buna N			
Initial Pressure Drop:	1 psi at 10 gpm	1 psi at 30 gpm			
Type of Element Accepted	DOE	DOE			



How to Build a Valid Model Number for a Single Cartridge PP Housing 2.5":

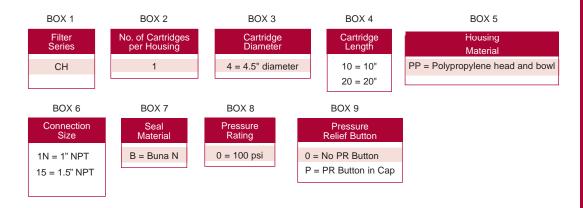


How to Build a Valid Model Number for a Single Cartridge PP Housing 4.5":

BOX 1 BOX 2	BOX 3 BOX 4	BOX 5 BOX 6	BOX 7 BOX 8	BOX 9
CH				

Example: NOTE: One option per box

BOX 1	BOX 2	вох з	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	
СН	1	4	10	PP	1N	В	0	0	= CH1410P1NB00



Filter Model Number Selection DCE

CH1

CH3 -CH7

CH12-CH24

01112 0112

RMF

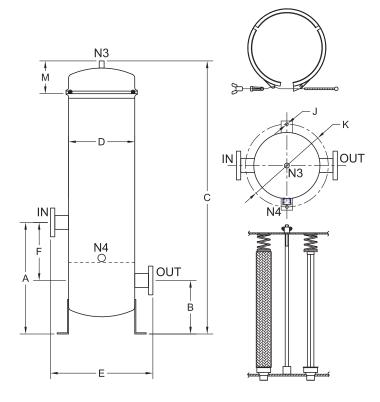
^{*}Shaded selections are preferred order codes that designate shorter lead times.



CH3-CH7 Cartridge Housings and Elements

100 psi 7 bar





NOTE: Drawings may change without notice. Contact factory for certified drawings.

Dimensions

	Cartridge		. A.	В	, C	D .	, E	, F	J	ĸ	. М.	N3	N4
	Qty	Length	inch (mm)	inch (mm)	inch (mm)	øinch (mm)	inch (mm)	inch (mm)	øinch (mm)	øinch (mm)	inch (mm)	inch	inch
CH3220	3	20	11.02 (280)	4.72 (120)	35.04 (890)	7.09 (180)	11.81 (300)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	1/4	3/4
CH3230	3	30	11.02 (280)	4.72 (120)	45.08 (1145)	7.09 (180)	11.81 (300)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	1/4	3/4
CH7220	7	20	11.02 (280)	4.72 (120)	35.04 (890)	9.13 (232)	13.86 (352)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	1/4	3/4
CH7230	7	30	11.02 (280)	4.72 (120)	45.08 (1145)	9.13 (232)	13.86 (352)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	1/4	3/4
CH7240	7	40	11.02 (280)	4.72 (120)	55.12 (1400)	9.13 (232)	13.86 (352)	6.30 (160)	0.35 (9)	9.29 (236)	3.35 (85)	1/4	3/4

Specifications

Number of Elements per Housing: 3 or 7 Elements, 2" Diameter

Max. Working Pressure: 100 psi (7 bar) Max Temperature: 167°F (75°C)

Housing Material: Stainless Steel (304 or 316)

Type of Elements Accepted: DOE (Double Open Ended), -222 O-ring



Model #	Flow Rate	Dry Weight
CH3220	0-26 gpm (100 l / min)	40 lbs (18kg)
CH3230	0-40 gpm (150 l / min)	44 lbs (20kg)
CH7220	0-62 gpm (233 l /min)	55 lbs (25kg)
CH7230	0-92 gpm (350 l / min)	62 lbs (28kg)
CH7240	0-123 gpm (467 l / min)	68 lbs (31kg)

Flow Rate and Weight

Filter

Model Number

Selection

DCE

ACE

CH1

CH3-CH7

CH12-CH24

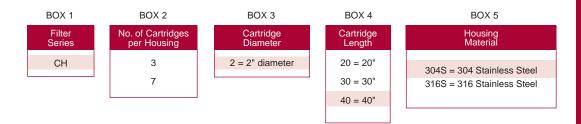
RMF

How to Build a Valid Model Number for a Multi-Cartridge Housing, 100psi:



Example: NOTE: One option per box





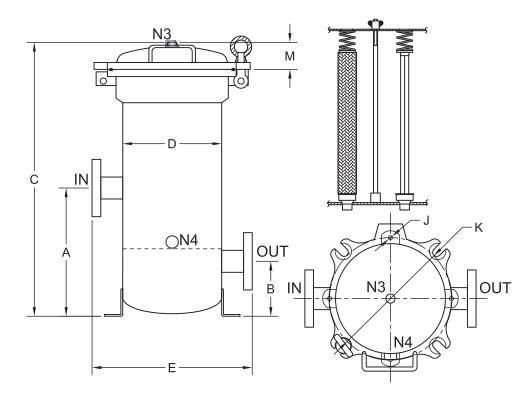


NOTE: Elements must be purchased separately.



CH3-CH7 Cartridge Housings and Elements

150 psi 10 bar



NOTE: Drawings may change without notice. Contact factory for certified drawings.

Dimensions

	Cartridge		Α	В	С	D	E	J	к	М	N3	N4
	Qty	Length	inch (mm)	inch (mm)	inch (mm)	øinch (mm)	inch (mm)	øinch (mm)	øinch (mm)	inch (mm)	inch	inch
CH3220	3	20	11.02 (280)	4.72 (120)	33.19 (843)	7.13 (181)	11.81 (300)	0.35 (9)	10.47 (266)	2.17 (55)	1/4	3/4
CH3230	3	30	11.02 (280)	4.72 (120)	43.23 (1098)	7.13 (181)	11.81 (300)	0.35 (9)	10.47 (266)	2.17 (55)	1/4	3/4
CH3240	3	40	11.02 (280)	4.72 (120)	53.27 (1353)	7.13 (181)	11.81 (300)	0.35 (9)	10.47 (266)	2.17 (55)	1/4	3/4
CH7220	7	20	11.02 (280)	4.72 (120)	33.58 (853)	9.13 (232)	14.09 (358)	0.35 (9)	11.34 (288)	2.56 (65)	1/4	3/4
CH7230	7	30	11.02 (280)	4.72 (120)	43.62 (1108)	9.13 (232)	14.09 (358)	0.35 (9)	11.34 (288)	2.56 (65)	1/4	3/4
CH7240	7	40	11.02 (280)	4.72 (120)	53.66 (1363)	9.13 (232)	14.09 (358)	0.35 (9)	11.34 (288)	2.56 (65)	1/4	3/4

Specifications

Number of Elements per Housing: 3 or 7 Elements, 2" Diameter

Max. Working Pressure: 150 psi (10 bar) Max Temperature: 167°F (75°C)

Housing Material: Stainless Steel (304 or 316)

Type of Elements Accepted: DOE (Double Open Ended), -222 O-ring



Model #	Flow Rate	Volume	Dry Weight
CH3220	0-26 gpm (100 l / min)	7.13 gal (27L)	66 lbs (30kg)
CH3230	0-40 gpm (150 l / min)	9.51 gal (36L)	77 lbs (35kg)
CH3240	0-53 gpm (200 l / min)	11.88 gal (45L)	88 lbs (40kg)
CH7220	0-62 gpm (233 l /min)	8.98 gal (34L)	77 lbs (35kg)
CH7230	0-92 gpm (350 l / min)	11.88 gal (45L)	88 lbs (40kg)
CH7240	0-123 gpm (467 l / min)	14.52 gal (55L)	101 lbs (46kg)

Flow Rate

Flow Rate Volume and Weight DCE

CH1

СН3-СН7

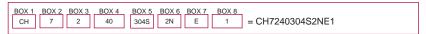
CH12-CH24

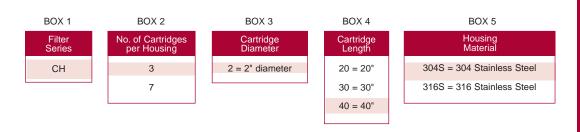
RMF

How to Build a Valid Model Number for a Multi-Cartridge Housing, 150psi:



Example: NOTE: One option per box





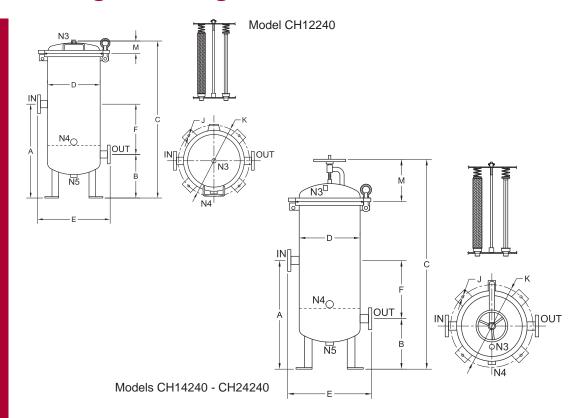


NOTE: elements must be purchased separately.

Filter Model Number Selection

CH12-CH24 Cartridge Housings and Elements

150 psi 10 bar



Dimensions

	Cartridge		Α	В	С	D	E	J	K	М	N3	N4
	Qty	Length	inch (mm)	inch (mm)	inch (mm)	øinch (mm)	inch (mm)	øinch (mm)	øinch (mm)	inch (mm)	inch	inch
CH12240	12	40	27.56 (700)	13.78 (350)	68.03 (1728)	12.01 (305)	19.69 (500)	0.55 (14)	16.14 (410)	6.02 (153)	1/2	1
CH14240	14	40	27.56 (700)	13.78 (350)	76.77 (1950)	15.98 (406)	23.86 (606)	0.55 (14)	20.31 (516)	14.96 (380)	1/2	1
CH18240	18	40	27.56 (700)	13.78 (350)	76.77 (1950)	15.98 (406)	23.86 (606)	0.55 (14)	20.31 (516)	14.96 (380)	1/2	1
CH20240	20	40	27.56 (700)	13.78 (350)	76.77 (1950)	15.98 (406)	23.86 (606)	0.55 (14)	20.31 (516)	14.96 (380)	1/2	1
CH24240	24	40	27.56 (700)	13.78 (350)	76.97 (1955)	19.13 (486)	27.01 (686)	0.55 (14)	23.46 (596)	15.16 (385)	1/2	1

Specifications

Number of Elements per Housing: 12, 14, 18, 20, or 24, 2" Diameter

Max. Working Pressure: 150 psi (10 bar) Max Temperature: 167°F (75°C)

Housing Material: Stainless Steel (304 or 316)

^{*}Max flow rate is dependent on type of media, particle selection required, fluid viscosity and volume of contamination.

Cartridge Housings and Elements CH12-CH24



Model #	Flow Rate	Volume	Dry Weight
CH12240	0-200 gpm (755 l / min)	28.00 gal (107L)	187 lbs (85kg)
CH14240	0-240 gpm (900 l / min)	50.00 gal (198L)	275 lbs (125 kg)
CH18240	0-310 gpm (1170 l / min)	50.00 gal (198L)	275 lbs (125 kg)
CH20240	0-350 gpm (1320 l / min)	50.00 gal (198L)	275 lbs (125 kg)
CH24240	0-415 gpm (1565 I / min)	75.00 gal (286L)	320 lbs (145 kg)

Flow Rate Volume and Weight

ACE

CH1

CH3 -CH7

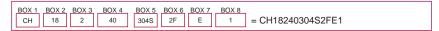
CH12-CH24

RMF

How to Build a Valid Model Number for a Multi-Cartridge Housing:



Example: NOTE: One option per box



BOX 1 BOX 4 BOX 2 BOX 3 BOX 5 Cartridge Length Cartridge Diameter Housing Material No. of Cartridges per Housing 304S = 304 Stainless Steel 2 = 2" diameter 40 = 40" СН 316S = 316 Stainless Steel 14 18 20 24

Connection Size 2F = 2" Flange (not available with 24 cartridges) 4F = 4" Flange

BOX 6



Filter Model Number Selection



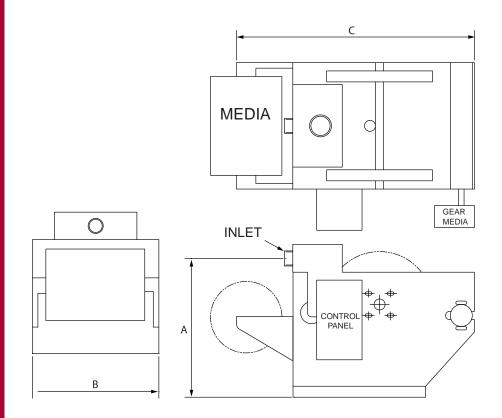
Rolling Media Filtration

70-600 gpm 268-2270 *L/min* The Rolling Media Filter (RMF) provides a highly efficient and reliable means of removing solids from process liquids. This filter is a non pressurized system which is economical and easy to operate. It can handle occasional system upsets or overloads without blinding the filter media.

The RMF is a fully automatic system that ensures efficient cleaning of any process fluid. It optimizes the amount of media used at the same time. The solids are discharged as a cake for easy handling and disposal.

The liquid to be filtered is pumped or gravity fed into inlet. It is then distributed to the flood box, which slows the velocity and discharges the liquid over the entire width of the filter media. The liquid filters through the media, and the solids are left behind collecting on the filter media surface. The clean liquid is discharged through the outlet into a tank or discharged into an open system.

As the solids are collected on the filter media, the liquid level rises to a preset level. A level sensor initiates an index cycle and fresh media is indexed displacing a portion of the spent media. The media is then discharged to a waste container.



Dimensions

	Α		АВ		c	Flow Rate	
	inches	mm	inches	mm	inches	mm	
RMF70	37.00	940	30.00	762	43.25	1099	71
RMF145	34.25	870	40.00	1016	52.75	1340	146
RMF210	34.25	870	52.00	1321	52.75	1340	212
RMF275	34.25	870	64.00	1626	52.75	1340	275
RMF300	41.75	1060	52.00	1321	65.75	1670	300
RMF350	34.25	870	73.00	1854	52.75	1340	350
RMF400	41.75	1060	83.00	1626	65.75	1670	400
RMF500	41.75	1060	73.00	1854	65.75	1670	500
RMF600	41.75	1060	83.00	2108	65.75	1670	600

Rolling Media Filtration RMF



Filter

Model

Number Selection

Specifications

ACE

CH1

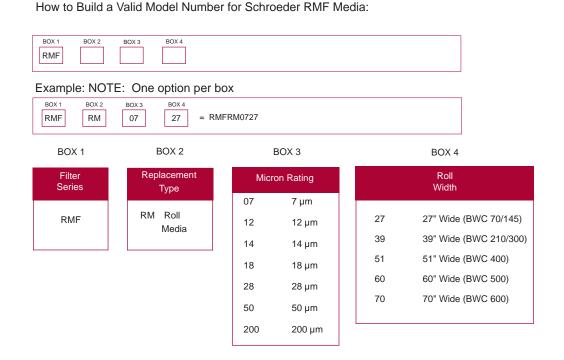
CH3 -CH7

CH12-CH24

RMF

Construction Material: Epoxy coated, Carbon steel Conveyor Material: 304 stainless steel Seal Wheels: aluminum How to Build Box NOTE: One option per box BOX 4 BOX 5 BOX 1 BOX 2 вох з RMF С 70 AL CS Ν = RMF70ALCSNC вох з BOX 2 BOX 1 BOX 4 BOX 5 Size Housing Material Wheel Material Wheel Seals Series 70 70 gpm ΑL Aluminum CS Carbon Steel Ν Neoprene **RMF** 145 145 gpm SS Stainless SS Stainless Т Teflon 210 210 gpm Steel Steel 275 gpm 275 300 300 gpm BOX 6 350 350 gpm Seal Material 400 400 gpm 500 500 gpm 0 None 600 600 gpm С Cover Media Recovery System D Contamination Dryer

> Replacement Parts for RMF





Oil & Gas Products

Pit Purification Solutions

The Pit Purification Solution (PPS) is a portable unit providing staged filtration for cleaning drill water. All filters are made of coated carbon steel or non-corrosive stainless steel. The operating system is simple. The water to be cleaned passes through a series of filters providing progressively finer filtration. The final filtration is achieved by bag filtration, which can easily be changed to a micron rating of the user's choice.

The drill water first passes through a twist flow strainer (ATF), which is effective at removing coarse particles through a unique inlet arrangement and housing design that uses a centrifugal separator and an inline filter to separate solids from the fluid. Raw water enters tangentially to create a cyclonic flow. Centrifugal force moves the larger, heavier particles to the housing wall where they are accelerated downward by the decreasing diameter of the housing. While the larger, heavier particles are forced against the outer wall of the housing then down and out of the unit, the lighter, smaller particles can pass through the 200 micron slotted tube element in the center of the housing and move on to the backflushing filter (RF3).

The water then enters a backflushing filter (RF3) that captures solid particulate that are smaller in size. Slotted, conical tube element allows for efficient backwash. The "Wedge Wire" design of the elements provides for a wider opening on the effluent or downstream side of the element. This precludes particles becoming lodged and blinding the element. In the PPS, the RF3 is fitted with 50 micron slotted tube elements. A rotating arm allows a reverse jet of water through the elements to provide a back wash flow to the elements. Because of the way these first two filters operate, they have the added bonus of not requiring the elements to be replaced, and thus can remain functional indefinitely.

Next in line is a duplex bag filter housing, which features an extremely high dirt holding capacity. Filtered water from the RF3 passes to the duplex bag filters. Water passes through a progressively tighter series of bag elements: 25, 15 and 10 micron. Unlike the first two mechanical filters, the bag filters will need to be changed out periodically when they are full or there is indication of pressure drop at the bag housings. From the bag housings, the filtered water is delivered into a storage container for use at the driller's discretion.

The PPS can also include an optional last filter, the Schroeder Qsize Filter. This filter, which utilizes element cartridges that are 39" in length, is available in several micron ratings, and can provide another level of fine filtration if necessary.

Oil & Gas Products PPS



- Provides a cost-effective means to filter wastewater from drilling operations
- On-site filtration helps to mitigate costly hauling charges
- Promotes the closed-loop water reuse concept (protects local resources and offers cost reduction to the drilling industry)

Features

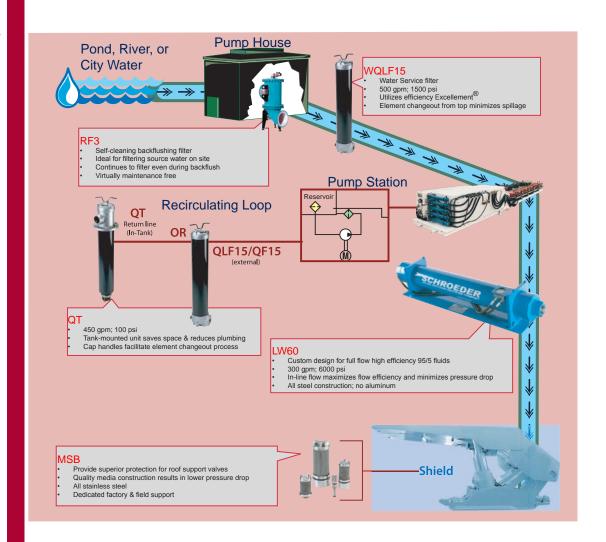
Mining Products

Introduction

For 65 years, Schroeder Industries has been providing superior filtration solutions to the mining industry. With the addition of the Longwall High Pressure Filter (LW60) and numerous BestFit™ elements for longwall shields and pump cars (MSB and SBF) to its product line, Schroeder is your turnkey filtration supplier for all mining applications.

Detailed product information on the LW60 and the BestFits for lining applications is provided on the following pages. For information on the RF3 backflushing filter, consult Schroeder's Process Filtration Catalog (L-2728). For information on the WQLF15, QT and QLF15/QF15, please consult Schroeder's Filtration Products Catalog (L-2520).

Turnkey Filtration



Mining Products

Schroeder Industries currently manufactures over 1,800 BestFitTM performance replacement elements. In addition, Schroeder produces all of the technical data to support the sale of these products. The BestFitTM family consists of standard elements, cartridge repair elements and the new SchroederSpun process filtration elements, as well as,mining specific elements. The following products are currently available for the mining industry:

Longwall Pump Car BestFits™

Schroeder BestFit™ P/N	Competitor's Filter	L-Sheet #
MSB-1394-2050B		
MSB-1394-20100B		
MSB-1394-20200B		
SBF-SALL-40Z150B	2U3230-000	L-3037
SBF-SALL-40Z1OB	2UC3230-000	L-3037
SBF-WS3L-150PSB	Triple "L" Filter	L-3036
SBF-WS3L-M150B	Triple "L" Filter	L-3036
SBF-PF3L-Z12B	Triple "L" Filter	L-3035
SBF-WE3L-Z60B	Triple "L" Filter	L-3035

Shield Element BestFits™

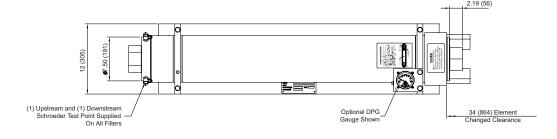
Schroeder BestFit™ P/N	Micron Rating	L-Sheet #
MSB-05841-340B	40	L-2782
MSB-1298-280B	80	L-2781
MSB-1330-3100B	100	L-2746
MSB-1330-325B	25	L-2746
MSB-1330-340B	40	L-2746
MSB-1330-380B	80	L-2746
MSB-3060-340B	40	L-2779
MSB-3070-2100	100	L-2747
MSB-3070-225	25	L-2747
MSB-3070-240	40	L-2747
MSB-3070-280	80	L-2747
MSB-3077-525B	25	L-2745
MSB-3077-540B	40	L-2745
MSB-3176-225B	25	L-2744
MSB-3185-425B	25	L-4096

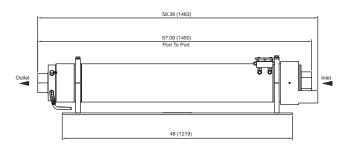
LW60

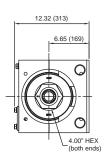
Longwall Filter

300 gpm 1135 L/min 6,000 psi 400 bar









Filter Housing Specifications

Flow Rate: Up to 300 gpm (1135 L/min) for use with 95/5 fluids

Max. Operating Pressure:	6,000 psi (400 bar)
Min. Yield Pressure:	18,000 psi (1240 bar)
Rated Fatigue Pressure:	4500 psi (310 bar)
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 50 psi (3.4 bar) LWN60 non-bypassing model available with high crush element
Porting Cap & Housing Cap:	Steel
Element Change Clearance:	34.0" (864 mm)

Element Change Clearance: 34.0" (864 mm)

Weight: 550 lb (250 kg)

Element Performance Information

Element	Abs. Rating wrt ISO 16889 Using APC calibrated per ISO 11171 B _x (c) 1000	Dirt Holding Capacity (gm)
39ZPZ3V	5.1	449
39ZPZ5V	6.1	359
39ZPZ10V	12.1	429
39ZPZ25V	17.7	284

Element Collapse Rating: 150 psi (10 bar)

Flow Direction: Outside In

Element Nominal Dimensions: 50" (127 mm) O.D. x 38" (365 mm) long

Fluid Compatibility

Specifically designed for use with 95/5 fluids in mining longwall applications

Longwall Filter



Features

LW60

Mining

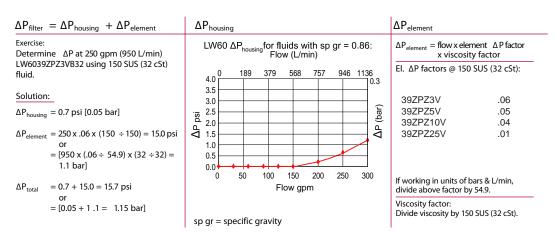
Specific Elements

Excellement MD

- Horizontal alignment allows straight-through flow, maximizing efficiency and minimizing pressure drop
- Propriety synthetic media designed specifically for the mining industry, Excellement®-MD, provides level of filtration not achievable using alternative wire mesh elements because of their lack of absolute ratings
- Two-inch BSPP ports are easily adaptable to Super Stecko fittings commonly used underground
- Stainless steel bypass valve that ensures smooth integration with 95/5 fluid
- Non-bypassing version available with high crush (4500 psid) cleanable metal mesh (25 micron) element

Pressure	Ele Series	ement Part No.	Element se fluid and a	elections are a 50 psi (3.4 ba	predicated on th ir) bypass valve.	e use of 150 SUS	(32 cSt) petrole	eum bas	sed
	_	39ZPZ3V							
6000 psi	Z Media	39ZPZ5V							
	Media	39ZPZ10V							
		39ZPZ25V							
Flow		gpm	0	100	150	200	250	300	١
		(L/min)	0	400	600	800	1000	115	0

Element Selection Based on Flow Rate



Pressure
Drop
Information
Based on Flow
Rate and Viscosity

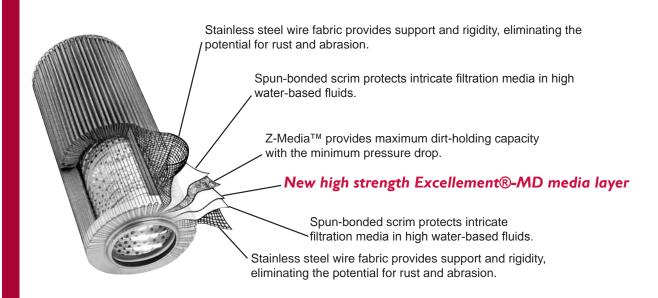
Sizing of elements should be based on element flow information provided in the Element Selection chart above. Please note that 95/5 fluid has a lower viscosity than 150 SUS and therefore pressure drops for 95/5 will actually be lower.

Filter Series	Element Part Number	Porting	Bypass Setting	Dirt Alarm
LW60	39ZPZ3V 39ZPZ5V 39ZPZ10V 39ZPZ25V	B32=ISO 228 G-2" (2-11 BSPP)	(Omit)= 50 psi Cracking 30 = 30 psi cracking	DPG= Differential Pressure Gauge
LWN60	39ZPMX25V	B32=ISO 228 G-2" (2-11 BSPP)	(Omit)= Blocked	DPG= Differential Pressure Gauge

Filter Model Number Selection



The multiple layer construction shown below has evolved from comprehensive laboratory testing to provide extended element life and system protection. Each successive layer performs a distinct and necessary function. The outermost layer is designed to maintain element integrity. Beyond this layer, is a spun-bonded scrim, offering coarse filtration and protection for the more delicate filtering layers within. Multiple sheets of fine filtering media follow, providing intricate passageways for the entrapment of dirt particles. When combined, the layers of the Excellement©-MD filter media provide the ideal formulation for filtration performance used in severe mine duty applications. Through the addition of new materials, the strength of our media has been improved when applied in water based fluids. Soak testing in 95/5 fluids proves that Excellement-MD media scrim and wire mesh maintain their integrity. This new media will provide better protection for the valves on the longwall shields and extend the pilot element's service life in any longwall application.



Element Performance Information

Element	Abs. Rating wrt ISO 16889 Using APC calibrated per ISO 11171 B _x (c) 1000	Dirt Holding Capacity (gm)
39ZPZ3V	5.1	449
39ZPZ5V	6.1	359
39ZPZ10V	12.1	429
39ZPZ25V	17.7	284

Element Collapse Rating: 150 psid (10 bar)

Flow Direction: Outside In

Element Nominal Dimensions: 5.0" (127 mm) O.D. x 38" (965 mm) long

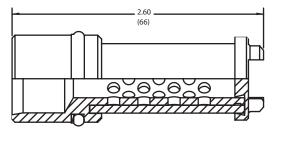
*Elements also used in LW60

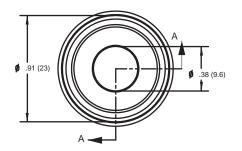
Schroeder Part Number: MSB-1298-280B (80µ)

Excellement MD

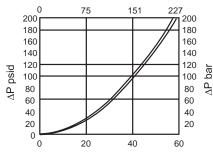
LW60







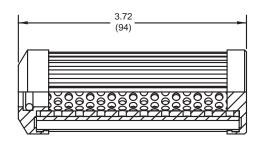
Pressure Drop



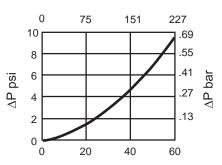
^{*}Contact factory for additional filter ratings

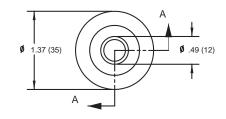
6,000 psi (400 bar) Max Pressure: Max Differential Pressure: 6,000 psid (400 bar) Crush Rating: >6,000 psid End Caps: Stainless Steel Support Tubes: Stainless Steel Metal Mesh: Stainless Steel Wrap O-Ring: Buna N Back-up Ring: Nylon Flow Rating: See Graph Filter Rating: 80 micron

Schroeder Part Number: MSB-05841-340B (40µ)



Pressure Drop





Max Pressure:	6,000 psi (400 bar)
Max Differential Pressure:	6,000 psid (400 bar)
Crush Rating:	>6,000 psid
End caps:	Stainless Steel
Support Tubes:	Stainless Steel
Metal Mesh:	Stainless Steel
O-Ring:	Buna N
Flow Rating:	See Graph
Filter Rating:	40 micron



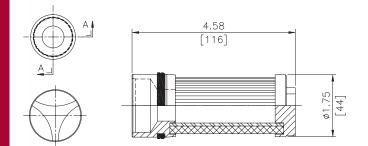
Specifications

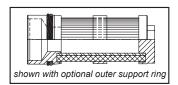
Specifications

^{*}Contact factory for additional filter ratings



Schroeder Part Numbers: MSB-3077-525B (25µ) & MSB-3077-540B (40µ)

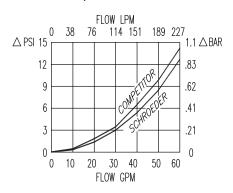




Specifications

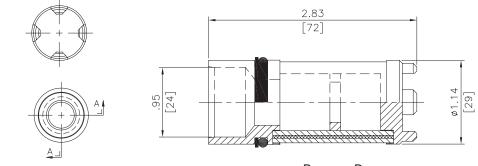
Max Pressure:	5,000 psi (350 bar)
Max Flow Rate:	40 GPM (150 L/min)
Filter Rating:	25/40 Micron
End caps:	Stainless Steel
Support Tubes:	Stainless Steel
Metal Mesh:	Stainless Steel Pleated
O-Ring:	Buna N
Back-up Ring:	Nylon
*Contact factory for additional filter ratings	

Pressure Drop





Schroeder Part Number: MSB-1330-325B (25micron), MSB-1330-340B (40 MICRON), MSB-1330-380B (80 MICRON) & MSB-1330-100B (100 MICRON).

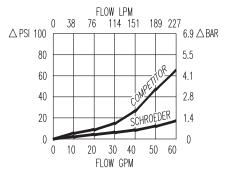


Specifications

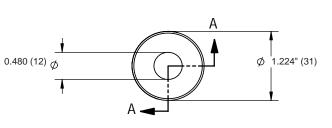
⊸ ⊒	
Max Pressure:	6,000 psi (400 bar)
Max Differential Pressure:	5000 psid (350 bar)
Max Flow Rate:	48 GPM (180 L/min)
Filter Rating	25/40/80/100 Micron
End Caps:	Stainless Steel
Support Tubes:	Stainless Steel
Metal Mesh:	Stainless Steel Wrap
O-Ring:	Buna N
Back-Up Ring:	Nylon
Support Ring:	Stainless Steel

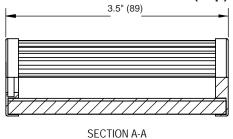
*Contact factory for additional filter ratings

Pressure Drop



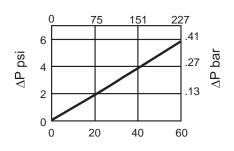
Schroeder Part Number: MSB-3060-340B (40µ)







Pressure Drop

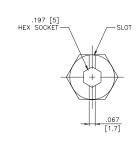


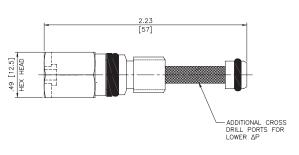
Micron Rating:	40 micron
Max Pressure:	4,500 psi (310 bar)
Max Differential Pressure:	4,000 psid (310 bar)
Crush Rating:	>4500 psid
End caps:	Stainless Steel
Support Tubes:	Stainless Steel
Metal Mesh:	Stainless Steel
O-Ring:	Buna N
Flow Rating:	See Graph
Filter Rating:	40 micron

*Contact factory for additional filter ratings

Specifications

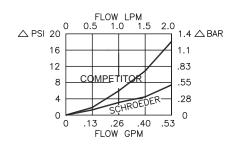
Schroeder Part Number: MSB-3176-225B (25µ)





Specifications

Pressure Drop

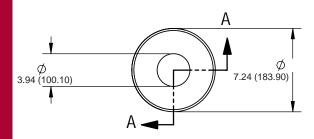


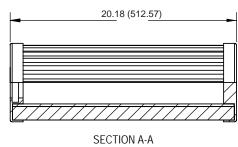
Max Pressure:	5,000 psi (350 bar)
Max Differential Pressure:	5,000 psid (350 bar)
Competition fails at:	1500 psid (103 bar)
Max Flow Rate:	0.5 GPM (2 L/min)
Filter Rating:	25 Micron
Body:	Stainless Steel
Metal Mesh:	Stainless Steel Wrap
O-Ring:	Buna N
Back-Up Ring:	Nylon

*Contact factory for additional filter ratings



Schroeder Part Numbers: SBF-WS3L-150PSB (150µm) & SBF-WE3L-Z10B $(10\mu m)$





Specifications

SBF-WS3L-150PSB:

Micron Rating: 150µm

SBF-WE3L-Z10B: 10µm

Collapse Rating: 150 psid (min)

> End Cap: Anodized Aluminum

Outer Support Tube: Stainless Steel

> Filter Media: SBF-WS3L-150PSB:

150µm synthetic

SBF-WE3L-Z10B: 150µm

synthetic

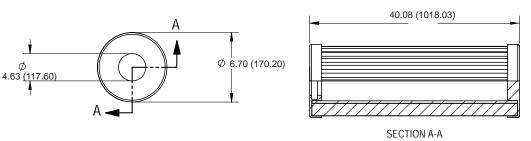
O-Ring: Buna N

Schroeder BestFit™P/N
SBF-PF3L-Z12B
SBF-WE3L-Z60B
SBF-WS3L-Z10B
Seebach Element P/N
SA12MB-PF3L-95/5
SA75FBWE3L-Water
SA12MB-WS3LP-95/5
Seebach Filter
Triple "L" Filter
Triple "L" Filter
Triple "I " Filter



Schroeder Part Number: SBF - SALL - 40Z150B & SBF- SALL - 40Z10B





Specifications

SBF-SALL-40Z150B:

Micron Rating: 150µm

SBF-SALL-40Z10B: 10µm

Collapse Rating: Not Rated

> End Caps: **Anodized Aluminum**

Support Tube: None

SBF-SALL-40Z150B: Filter Media:

150µm synthetic

SBF-SALL-40Z10B: 10µm

synthetic

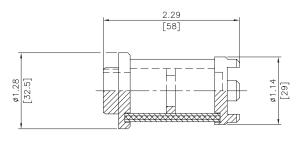
O-Ring: Buna N

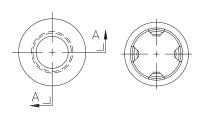
*Contact factory for additional filter ratings

Schroeder BestFit™P/N
SBF-SALL-40Z150B
SBF-SALL-40Z10B
Seebach Element P/N
SALL40FB-150-Water
SALL40G010-95/5
Seebach Filter
2UC3230-000
2UC3230-000

^{*}Contact factory for additional filter ratings

Schroeder Part Numbers: MSB-3070-225 (25 μ), MSB-3070-240 (40 μ) MSB-3070-280 (80 μ) & MSB-3070-2100 (100 μ)





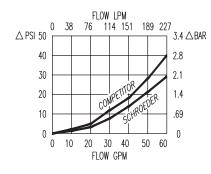


Excellement MD

LW60



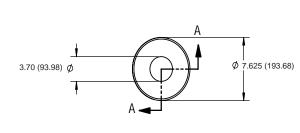
Pressure Drop

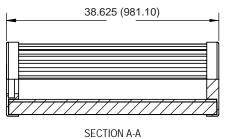


Max Pressure:	5,000 psi (350 bar)
Max Differential Pressure:	5,000 psid (350 bar)
Max Flow Rate:	52 GPM (200/L/min)
Filter Rating:	25/40/80/100 Micron
End Caps:	Stainless Steel
Support Tubes:	Stainless Steel
Metal Mesh:	Stainless Steel Wrap
Support Ring:	Stainless Steel

*Contact factory for additional filter ratings

Schroeder Part Numbers:SBF-PF3L-Z12B (12µm) & SBF-WE3L-Z60B (60µm)





Schroeder BestFit™P/N	
SBF-PF3L-Z12B	
SBF-WE3L-Z60B	
Seebach Element P/N	
SA12MB-PF3L-95/5	
SA75FBWE3L-Water	
Seebach Filter	
Triple "L" Filter	
Triple "L" Filter	

Micron Rating:	SBF-PF3L-Z12B: 12µm SBF-WE3L-Z60B: 60µm
Collapse Rating:	150 psid (min)
End Cap:	Anodized Aluminum
Support Tube:	SBF-PF3L-Z12B: Cold Roll Steel SBF-WE3L-Z60B: Stain- less Steel
Filter Media:	SBF-PF3L-Z12B: 12µm synthetic SBF-WE3L-Z60B: 150µm synthetic
O-Ring:	Buna N

*Contact factory for additional filter ratings

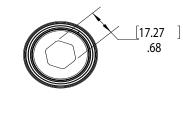


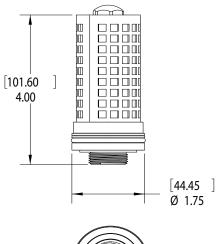


Specifications



Schroeder Part Number: MSB-3185-425B (25µ)







Specifications

Max pressure: 5000 psi (350 bar)

Max Differential Pressure: 5000 psid (350 bar)

Max flow Rate: 105 gpm (400 l/min.)

Filter Rating: 25 micron

Material: Body - Stainless Steel Metal Mesh - Stainless

Steel Wrap O-Ring - Buna N Back-Up Ring - Nylon

*contact factory for additional filter ratings



Materials of Construction for Housings, Elements and Seals

Carbon steel without coating - General purpose for non-corrosive and non-oxidizing liquids.

Carbon steel with protective internal coating – This internal coating protects against UV, abrasion and corrosion, and should be specified for water applications, such as river water, service water, cooling water, clear run water from sewage treatment facilities, etc.

304 Series stainless steel – Widely available, good general corrosion resistance, good cryogenic toughness. Excellent formability and weldability.

316 Series (L and Ti) stainless steel – Widely available, good general corrosion resistance, good cryogenic toughness. Excellent formability and weldability.

Polyamide (filter element end caps) – General-purpose polymer (amide) for use in applications such as hydraulics and pneumatics. Resistant to oils, hydraulic fluids, water fuels, gases, petroleum oils, cold water, silicone greases and oils Di-ester base lubricants (MIL-L-7808) ethylene glycol base fluids (Hydrolubes) not suited for use in brake fluids. Good abrasion resistance. Good resistance to compression set. High tensile strength. Characteristics: Stable plastic. Dull, matte finish.

PTFE / Teflon® (a registered trademark of DuPont Dow Elastomers) – General-purpose thermoplastic (Polytetrafluoroethelyene) for use as a low friction, insulating product that is inert to most chemical substances.

Buna N / NBR (nitrile) – General purpose elastomer for use as seal energizer or low-pressure applications, such as hydraulics and pneumatics. Resistant to oils, hydraulic fluids, water fuels, gases, petroleum oils, cold water, silicone greases and oils. Di-ester base lubricants (MIL-L-7808), ethylene glycol base fluids (Hydrolubes) not suited for use in brake fluids. Good abrasion resistance. Good resistance to compression set. High tensile strength. Characteristics: Rubber-like elastomer. Dull, matte finish. Some NBR o-rings have a very shiny surface.

Silicone – General-purpose elastomer for use as seal material. Resists water and many chemicals such as some acids, oxidizing chemicals, ammonia and isopropyl alcohol. Note: concentrated acids, alkalines and solvents should not be used with silicone rubber. Characteristics: Soft rubber-like elastomer. High tear and tensile strength, good elongation, excellent flexibility.

Viton® (a registered trademark of DuPont Dow Elastomers) – Widely available elastomer for use as seal energizer or low-pressure applications, such as process fluids, hydraulics and pneumatics. Highly resistant to many aggressive fluids, such as fuels and chemicals. Characteristics: Rubber-like elastomer. ISO 9000 registration.

EPDM (Ethylene Propylene Diene) – Versatile and widely used synthetic rubber recognized for its resistance to heat, oxidation, weather, and electricity. Compatible with water, acids, alkalies, phosphate esters and many ketones and alcohols.

Cleaning Reusable Filter Elements – The cleaning methods for the reusable elements depend upon the type of service and the filter element design. The individual cleaning methods described here can be combined to achieve better results. It is not advisable to attempt most of these cleaning methods without the proper equipment and training. There are competent organizations best suited for this type of work. Upon request, we will provide a cleanliness certificate, including the results of a bubble-point test as well as the clean and fully laden element weights.

Pyrolysis – This method is based upon the removal of organic materials imbedded within the element. Organic material is vaporized at high temperature in an oxygen-depleted atmosphere. Exact control of the temperature and oxygen content is required to avoid damage to the element of the possibility of flame generation.

Vacuum Pyrolysis – This method is based upon the removal of plastic materials imbedded within the element using a two-step process. Organic material is vaporized at high temperature in an oxygen-depleted atmosphere within a vacuum chamber. In this process the material to be removed is melted into liquid and evacuated via vacuum in the first step, then further heating vaporizes the remaining material in the second step. Exact control of the vacuum, temperature and oxygen content is required to avoid damage to the element of the possibility of flame generation.

Boil Off – This method is based upon a process similar to a commercial dishwasher. Constant flowing of a flushing liquid (typically a solvent) at high temperature ensures removal of particles.

High Pressure Wash – This method is used mainly for the removal of coarse particles from the filter elements. It can be a manual or automatic process depending on the equipment available. A standard high pressure using water or water-based solvents can be used taking care not to damage the element. The wash direction must be consistent with the flow direction of the element.

Ultrasonic Cleaning – This method utilizes an ultrasonic bath, which easily loosens the particles imbedded in the filter element. Using water with a detergent additive, a 20 to 40 Hz frequency is recommended. Solvents other than standard detergents can be used also.

The information provided in this section is for reference only, and should be used as a guide when selecting the proper filters, elements, materials of construction and determining fluid compatibility. Schroeder Industries presents the information in this medium in good faith, and it is and believed to be accurate and correct. No representations or warranties as to the completeness or accuracy of the information are made by Schroeder. The persons receiving or using this information must make their own determinations as to intended use, purpose and application. Schroeder will assume no responsibility for damages or be held liable for any misuse or misapplication based upon the data within this medium. For your specific application. contact Schroeder Industries at www. schroederpure. com by phone at 724 318 1100 or fax at 724.318.1200.

Process Filtration Worksheet

ompany	
ontact Name	
epartment	
ontact Title	
treet	
ity, State, Zip	
hone	Fax
late	E-mail
Providing the following information will allow us to ation.	determine the most appropriate process filter for your particular app
ype of Fluid	Flow Rate gpm
perating Pressure	
perating Temperature*	
iltration Rating	
Pirt Content	mg/l Voltage***
Desired Filter (please check) Single Filter housing	Duplex Filter Housing Self-Cleaning Filter No Preference
lement Type** (please check) Disposable	Recyclable No Preference
pirt Alarm** (please check) Optical	Optical Electrical No Preference
flaterial Requirements (if any)	
haracterization of Contamination	
ressurized Air Service?*** No _	Yes If yes, please indicate pressure psi
onnection Inlet / Outlet	
equired Third Party / Certificate?	
luantity	
•	
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^{*}Please contact factory if the maximum temperature exceeds the fluid's boiling point.

^{**}Not for the Self-Cleaning Filter.

^{***}Only needed for the use of a Self-Cleaning Filter.

Schroeder Industries

Hydraulic & Lube Filtration
Element Technology
Filter Systems
Fuel Filtration
Process Filtration

Advanced Fluid Conditioning Solutions.™

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