

Optimal Filtration



Schroeder
INDUSTRIES
Advanced Fluid Conditioning Solutions®

Schroeder Industries

Introduction

About Schroeder Industries

Schroeder Industries is a family company of 76 years which manufactures, designs, and markets a complete range of Advanced Fluid Conditioning Solutions®. Headquartered in Leetsdale, PA, we are in the heart of manufacturing country.

Schroeder Brothers Corporation was founded after Bill Schroeder returned from WW2. Bill wrote a letter to his brother Jack, a young engineer, describing an opportunity to distribute an important new product to the mining industry. In the letter, Bill explained that he believed they could build a business around this technology.

Schroeder Brothers Corporation grew rapidly, adding additional mining products and eventually becoming the largest mining equipment distributor in the Appalachia's. Over time, Schroeder began to manufacture hydraulic systems and components for the mines. The systems came first, and with the systems came issues related to contamination.

To this day, underground mining is still one of the most difficult hydraulic system operating environments. With his system experience, Bill realized that there was a critical need for high efficiency filtration. Together with his brothers Jack & Reed, Bill pioneered the development of many hydraulic and lubrication filtration concepts, products, and standards that are still the benchmarks of performance today. Time continued to march on, and Schroeder's business continued to evolve further into a manufacturing company.

Today, Schroeder Industries serves almost every market where high efficiency fluid filtration is required. Our Advanced Fluid Conditioning Solutions® are forged through the real-world experience gained in the world's toughest operating environments.

Mission Statement

Our success is a product of customer-driven innovation and technically advanced fluid conditioning products and services, in which our people deliver value to our stakeholders, communities and environment.

Quality Policy

Continuous improvement in our business to ensure a quality product, shipped on time, without compromise.

Vision

To be the global leader of engineered, fluid conditioning products & services.

Core Values (F.I.L.T.E.R.S)

- **Fueled:** By the success of our customer.
- **Ingenuity:** Engineered solutions for a complex environment.
- **Lead by example:** Better every day through continuous improvement.
- **Together:** We excel through clear communication & teamwork.
- **Empowering:** Employees to provide exceptional quality & service.
- **Responsiveness:** With determination, we make it happen.
- **Safety:** We pride ourselves on a safe, fun & family-oriented work environment.

Limitations of Liability

The information contained in the catalog (including, but not limited to, specifications, configurations, drawings, photographs, dimensions and packaging) is for descriptive purposes only. Any description of the products contained in this catalog is for the sole purpose of identifying the products and shall not be deemed a warranty that the products shall conform to such description. No representation or warranty is made concerning the information contained in this catalog as to the accuracy or completeness of such information. Schroeder Industries LLC reserves the right to make changes to the products included in this catalog without notice. A copy of our warranty terms and other conditions of sale are available upon request. A placed order constitutes acceptance of Schroeder's terms and conditions.

Failure, improper selection or improper use of the products and/or systems described herein or related items can cause death, personal injury and property damage.

This catalog and other documentation from Schroeder Industries provides product information for consideration by users possessing technical expertise.

It is important that the user analyze all aspects of the specific application and review the current product information in the current catalog. Due to the variety of operating conditions and applications for these products, the user is solely responsible for making the final product selection and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, design, availability and pricing are subject to change at any time without notice.



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	GH	500 - 725 (35 - 50)	35 - 112 (130-425)	22
	GKF5	500 (100)	100/150 (380/570)	24
	GKF3	300 (100)	100/150 (380/570)	26
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		Pressure psi (bar)	Flow gpm (L/min)	Page
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		Pressure psi (bar)	Flow gpm (L/min)	Page
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Old Model Code

Schroeder's old model code appeared cluttered and not easily accessible.

How to Build a Valid Model Number for a Schroeder K9:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
K9								

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
K9	1K	Z	10	B	P16 N P16 N			D5

= K91KZ10BP16NP16ND5

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Filter Series	Number of Size of Elements	Media Type	Micron Rating	Seal Material
K9	1 = K, KK, 27K 2 = K 3 = K	Omit = E-media (cellulose) Z = Excellement® Z-Media® AS = Anti-Stat Pleat Media (synthetic) ZW = Aqua-Excellement® ZW Media ZX = Excellement® Z-Media® (high collapse centertube) W = W media (water removal) M = M media (reusable metal mesh)	1 = 1 µ Z, ZW, ZX media 3 = 3 µ AS, E, Z, ZW, ZX media 5 = 5 µ AS, Z, ZW, ZX media 10 = 10 µ AS, E, M, Z, ZW, ZX media 25 = 25 µ E, M, Z, ZW, ZX media 60 = 60 µM media 150 = 150 µM media 260 = 260 µM media	B = Buna M V = Viton® H = EPR H.5 = Skydrol® Compatibility

New Model Code

Merging certain deciding factors together from our previous model codes, the new examples will have fewer boxes and make for a more streamlined creative process. Each row is its own category, while inside of that row, the columns are the different breakdowns within that selection. From left to right, there will be several options to choose from for each breakdown. Footnotes will be included in each model code.

Look out for footnotes for certain categories. They will be numbered consecutively and listed below each model code. Example below.

How to Build a Valid Model Number for a Schroeder GK530/GKF50:

GKF30/GKF50

2	KGZ5	S	MS16LC	
Bowl Length	Element	Porting/Test Points	Indicator	Options

GKF30/GKF50

2
Bowl Length

KGZ5
Element

S
Porting/Test Points

MS16LC
Indicator

Omit
Options

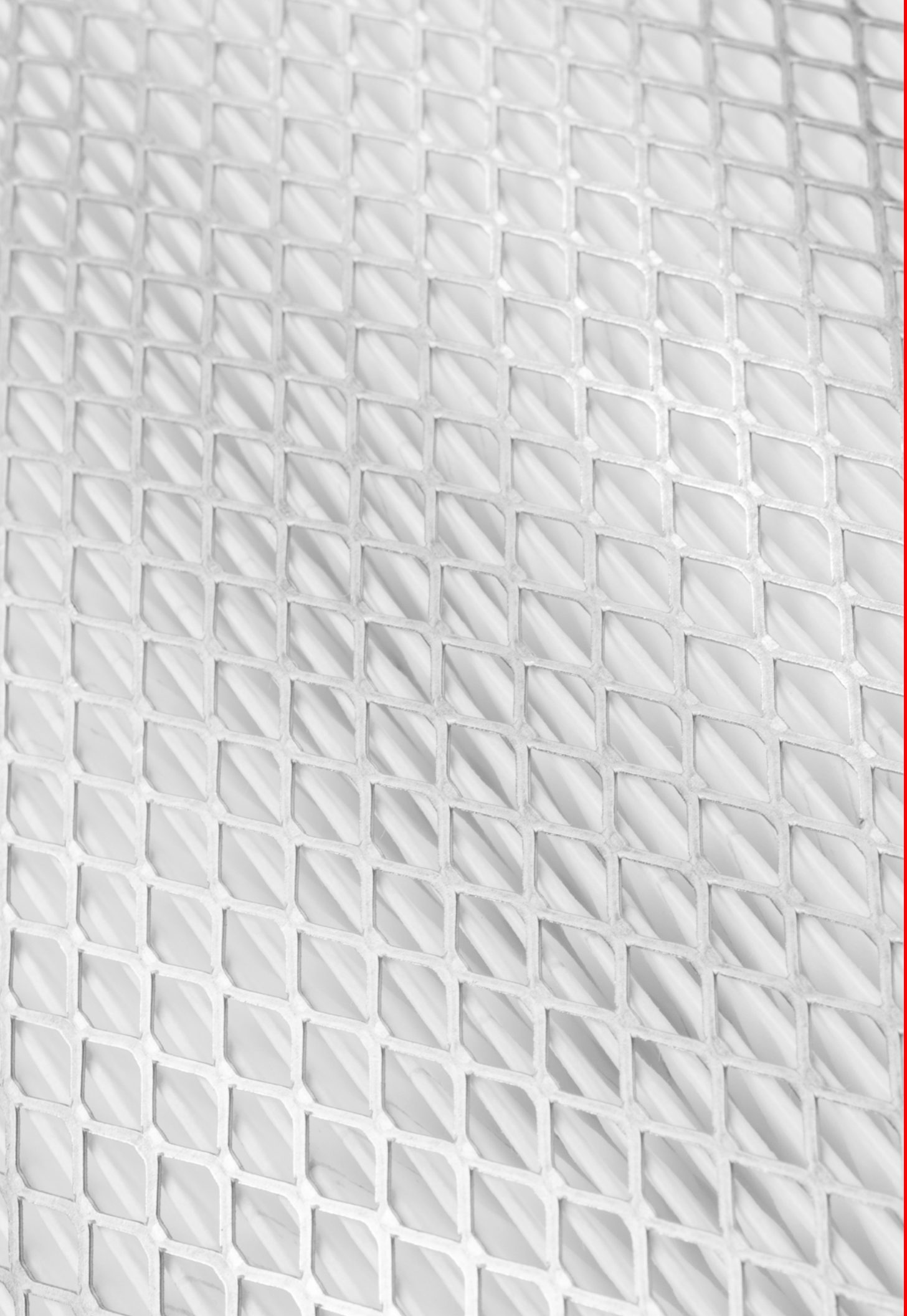
Start Here

Bowl Length					
This option will populate the first box above.	1 = 9"/18"/27" Bowl with one (1) element				
	2 = 18" Bowl with two (2) 9" elements				
	3 = 27" Bowl with three (3) 9" elements				
Element ¹	Element	Media	Micron Rating	Seals	
This will be the next box, in this box you will build your element code, but this box could also be used to build a replacement element.	KG (9", 18", or 27" Bowl)	Z = Excellement Z-Media (synthetic)	1 = 1 Micron	Omit = Buna	
	KKG (18" Bowl)		3 = 3 Micron	V = Viton	
	27KG (27" Bowl)		5 = 5 Micron		
			10 = 10 Micron		
			25 = 25 Micron		
Porting/Test Points		Porting			
This will populate the third box, it will populate porting and test point options.	P = 1-1/2" NPTF	Omit = None L = Two 1/4" NPTF inlet and outlet female test ports U = Series 1215 7/6 UNF Schroeder Check Test Point UU = Series 1215 7/16 UNF Schroeder Check Test Point installed in block (upstream & downstream)			
	P32 = 2" NPTF				
	S = SAE-24				
	F = 1-1/2" SAE 4-bolt flange (KF30 Code 61)(KF50 Code 62)				
	F32 = 2" SAE 4-bolt flange Code 61(KF30) *KF30 Only				
	O = Subplate				
	B24 = ISO 228 G-1-1/2				
Indicator					
Electrical Indicator		Indicator Material	Voltage	Current	Thermal Lockout
Omit = None		Omit = Steel	AC = Alternating Current	Omit = Standard	Omit = None
MS5 = 12" 4 Conductor Cable		SS = Stainless Steel	DC = Direct Current	LC = Low Current	T = (available on select models reference specifications in Appendix A)
MS10 = Male DIN Connector					
MS11 = 12 ft 4 Conductor Cable					
MS12 = Male 5 Pin Brad Harrison Connector					
MS13 = Threaded Connector and Light					
MS14 = Male 5 Pin Brad Harrison Connector & Light					
MS16 = Weather Packed Seal Connector					
MS17 = Male Micro 4 Pin Brad Harrison Connector					
MS18 = 2 Pin Amp Junior Power Timer Connector					
MS19 = 2 Pin Deutsch Connector					
MS = Cam Operated Switch with 1/2" Conduit, Female Connection					
MS15DC = 3000 PSI max #8-32 Post for Wire Connection					
Visual Indicator					
D = Pointer					
D5 = Latching Visual Pop-Up					
D8 = Visual with Thermal Lockout					
D9 = Stainless Steel Latching Pop-Up Indicator					
D10 = Non-Latching Indicator					
D10SS = Stainless Steel Non-Latching Indicator					
D13 = Stainless Steel Latching Indicator with Music Wire Spring					
Options					
Finally, options will be populated in the final box, if any are present. If not, select omit and leave blank.	Omit = None				
	C = Electrical indicator in cap vs. in base standard				
	G509 = Dirt alarm opposite std				
	G588 = Electric Switch and drain opposite standard				



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Section 1: ***HYDRAULIC & LUBRICATION***



Base-Ported Pressure Filter

GKF30/GKF50**GKF30-3000 psi - 210 bar****GKF50-5000 psi - 345 bar****100/150 gpm - 380/570 L/min**

Features and Benefits

- Base-ported pressure filter
- Can be installed in vertical or horizontal position
- HF4 Footprint filter with patented Quality Protection Element
- Element changeout from top minimizes oil spillage
- Offered in pipe, SAE straight thread, flanged and ISO 228 porting
- No-Element indicator option available
- Integral inlet and outlet female test points option available
- Offered in conventional subplate porting
- Double and triple stacking of KG-size elements can be replaced by single, KKG, or 27KG-size elements

Model No. of filter in photograph is GKF30/GKF501KGZ10SD.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids With 2" porting only, up to 150 gpm (570 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	GKF30- 3000 psi (210 bar) GKF50- 5000 psi (345 bar)
Min. Yield Pressure:	GKF30- 12,000 psi (830 bar), per NFPA T2.6.1 GKF50- 15,000 psi (1025 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	GKF30- 2500 psi (170 bar), per NFPA T2.6.1-2005 GKF50- 3500 psi (240 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 61 psi (4.2 bar)
Porting Base & Cap: Element Case:	Ductile Iron Steel
Weight of GKF30-1KG: Weight of GKF30-2KG: Weight of GKF30-3KG: Weight of GKF50-1KG: Weight of GKF50-2KG: Weight of GKF50-3KG:	48 lbs. (22 kg) 65 lbs. (30 kg) 81 lbs. (37 kg) 59.7 lbs. (27.1 kg) 80.7 lbs. (36.6 kg) 102.0 lbs. (46.3 kg)
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.50" (445 mm) for KKG; 26.5" (673 mm) for 27KG

Base-Ported Pressure Filter

GKF30/GKF50

How to Build a Valid Model Number for a Schroeder GKF30/GKF50:

GKF30/GKF50

Bowl Length	Element	Porting/Test Points	Indicator	Options

Bowl Length	
	1 = 9"/18"/27" Bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9" elements

Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl) KKG (18" Bowl) 27KG (27" Bowl)	Z = Excellence Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton

Porting/Test Points	Porting	Bypass	Test Points
	P = 1-1/2" NPTF P32 = 2" NPTF S = SAE-24 F = 1-1/2" SAE 4-bolt flange (KF30 Code 61)(KF50 Code 62) F32 = 2" SAE 4-bolt flange Code 61(KF30) *KF30 Only O = Subplate B24 = ISO 228 G-1-1/2	Omit = 40 PSI 50 = 50 PSI 60 = 60 PSI	Omit = None L = Two 1/4" NPTF female test ports U = Series 1215 7/6 UNF Test Point UU = Series 1215 7/16 UNF Test Point

Indicator ¹				
Electrical Indicator	Indicator Material	Voltage	Current	Thermal Lockout
Omit = None MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = 3 Contact Weather Packed, DIN 43650 MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector	Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)

MS = Cam Operated Switch with 1/2" Conduit, Female Connection

MS15DC = 3000 PSI max #8-32 Post for Wire Connection

Visual Indicator

- D** = Pointer
- D5** = Latching Visual Pop-Up
- D8** = Visual with Thermal Lockout
- D9** = Stainless Steel Latching Pop-Up Indicator
- D10** = Non-Latching Indicator
- D10SS** = Stainless Steel Non-Latching Indicator
- D13** = Stainless Steel Latching Indicator with Music Wire Spring

Options	
	Omit = None C = Indicator in cap G509 = Dirt alarm opposite std G588 = Electric Switch and drain opposite standard

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Base-Ported Pressure Filter

GKC50

5000 psi - 345 bar

100/150 gpm - 380/570 L/min



Features and Benefits

- Base-ported pressure filter
- Patented dirt-tolerant cap design
- Can be installed in vertical or horizontal position
- HF4 Footprint filter with patented Quality Protection element
- Element changeout from top minimizes oil spillage
- Offered in pipe, SAE straight thread, flanged and ISO 228 porting
- No-Element indicator option available
- Integral inlet and outlet female test points option available
- Offered in conventional subplate porting
- Double and triple stacking of KG-size elements can be replaced by single, KKG, or 27KG-size elements

Model No. of filter in photograph is GKC501KGZ10PD.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids With 2" porting only, up to 150 gpm (570 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	5000 psi (345 bar)
Min. Yield Pressure:	15,000 psi (1035 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	3500 psi (240 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 61 psi (4.2 bar)
Porting Base & Cap: Element Case:	Ductile Iron Steel
Weight of GKF30-1KG: Weight of GKF30-2KG: Weight of GKF30-3KG:	66.8 lbs. (30.3 kg) 87.8 lbs. (39.8 kg) 109.6 lbs. (49.7 kg)
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.50" (445 mm) for KKG; 26.5" (673 mm) for 27KG

How to Build a Valid Model Number for a Schroeder GKFC50:

GKC50

	-		-		-	
Element		Porting/Test Points		Indicator		Options

Bowl Length					
	1 = 9"/18"/27" Bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9"elements				
Element	Element	Media		Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KG = (9", 18", or 27" Bowl) KKG = (18" Bowl) 27KG = (27" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.		1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton
Porting/Test Points	Magnet	Porting		Test Points	
	Omit = None M = Magnet Inserts	P = 1-1/2" NPTF P32 = 2" NPTF S = SAE-24 F = 1-1/2" SAE 4-Bolt flange O = Subplate B24 = ISO 228 G-1-1/2		Omit = None L = Two 1/4" NPTF female test ports U = Series 1215 7/16 UNF Test Point installed in cap (upstream) UU = Series 1215 7/16 UNF Test Point installed in block (upstream and downstream)	
Indicator ¹					
Electrical Indicator		Indicator Material	Voltage	Current	Thermal Lockout
Omit = None MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector		Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)
MS = Cam Operated Switch with 1/2" Conduit, Female Connection					
MS15DC = 3000 PSI max #8-32 Post for Wire Connection					
Visual Indicator					
D = Pointer D5 = Latching Visual Pop-Up D8 = Visual with Thermal Lockout D9 = Stainless Steel Latching Pop-Up Indicator D10 = Non-Latching Indicator D10SS = Stainless Steel Non-Latching Indicator D13 = Stainless Steel Latching Indicator with Music Wire Spring					
Options					
	Omit = None C = Indicator in cap G509 = Dirt Alarm and drain opposite standard G588 = Electric Switch and drain opposite standard				

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Base-Ported Pressure Filter

GMKF50**5000 psi - 345 bar****200 gpm - 760 L/min**

Features and Benefits

- Base-ported high pressure dual filter manifold mounted
- HF4 Footprint filter with patented Quality Protection element
- Element changeout from top minimizes oil spillage
- Offered in pipe porting (contact factory for other porting options)
- No-Element indicator option available
- Integral inlet and outlet female test points option available

Model No. of filter in photograph is GMKF50KG21PD5

Filter Housing Specifications

Flow Rating:	Up to 200 gpm (760 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	5000 psi (345 bar)
Min. Yield Pressure:	15,000 psi (1035 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	3500 psi (240 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 61 psi (4.2 bar)
Porting Base & Cap: Element Case:	Ductile Iron Steel
Weight of GMKF50-2KG:	214.0 lbs. (97.3 kg)
Weight of GMKF50-4KG:	243.0 lbs. (110.2 kg)
Weight of GMKF50-6KG:	284.4 lbs. (129.0 kg)
Weight of GMKC50-2KG:	216.0 lbs. (98.0 kg)
Weight of GMKC50-4KG:	245.0 lbs. (111.1 kg)
Weight of GMKC50-6KG:	286.4 lbs. (129.9 kg)
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.50" (445 mm) for KKG; 26.5" (673 mm) for 27KG

Base-Ported Pressure Filter

GKC65**6500 psi - 450 bar****100 gpm - 380 L/min**

Features and Benefits

- Base-ported high pressure filter
- Patented dirt-tolerant cap design
- Can be installed in vertical or horizontal position
- HF4 Footprint filter with patented Quality Protection element
- Element changeout from top minimizes oil spillage
- Offered in flanged porting
- No-Element indicator option available
- Integral inlet and outlet female test points option available
- Double and triple stacking of K-size element can be replaced by single, KKG, or 27KG-size element

Model No. of filter in photograph is GKC651KG10FD9.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	6500 psi (450 bar)
Min. Yield Pressure:	19,500 psi (1345 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	5000 psi (345 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 75 psi (5.2 bar)
Porting Base & Cap: Element Case:	Ductile Iron Steel
Weight of GKC65-1KG: Weight of GKC65-2KG: Weight of GKC65-3KG:	80 lbs. (36.3 kg) 102 lbs. (46.3 kg) 124 lbs. (56.3 kg)
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.50" (445 mm) for KKG; 26.5" (673 mm) for 27KG

How to Build a Valid Model Number for a Schroeder GKC65:

GKC65

	-		-		-		-	
Bowl Length		Element		Porting/Test Points		Indicator		Options

Bowl Length					
1 = 9"/18"/27" bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9" elements					
Element	Element	Media		Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl) KKG (18" Bowl) 27KG (27" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.		1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton
Porting/Test Points	Porting	Bypass	Test Points		
	F = 1-1/2" SAE 4-Bolt Flange Code 62	Omit = 40 PSI 50 = 50 PSI	Omit = None L = Two 1/4" NPTF inlet and outlet female test ports U = Series 1215 7/16 UNF Schroeder Check Test Point installed in cap (upstream) UU = Series 1215 7/16 UNF Schroeder Check Test Point installed in block (upstream and downstream)		
Indicator ¹					
Electrical Indicator		Indicator Material	Voltage	Current	Thermal Lockout
Omit = None MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector		Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None (available on select models reference specifications in Appendix A) T
MS = Cam Operated Switch with 1/2" Conduit, Female Connection MS15DC = 3000 PSI max #8-32 Post for Wire Connection					
Visual Indicator					
D = Pointer D5 = Latching Visual Pop-Up D8 = Visual with Thermal Lockout D9 = Stainless Steel Latching Pop-Up Indicator D10 = Non-Latching Indicator D10SS = Stainless Steel Non-Latching Indicator D13 = Stainless Steel Latching Indicator with Music Wire Spring					
Options					
Omit = None G509 = Dirt Alarm and drain opposite standard					

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Medium Pressure Filter

GK9

900 psi - 60 bar

100 gpm - 380 L/min



Features and Benefits (GK9)

- Extremely versatile multiple inlet and outlet ports; can be used alone or in series with another GK9
- Top loading for easy access for element change-out
- Allows consolidation of inventoried replacement elements by using KG-size elements
- Multiple inlet and outlet porting options reduce the need for additional adapters on installation
- Can be fitted with test ports for oil sampling
- Small profile allows filter to be mounted in tight areas
- Various Dirt Alarm[®] options
- HF4 Footprint filter with patented Quality Protection element

Model No. of filter in photograph is GK91KGZ5BP20NP20ND5C.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	900 psi (60 bar)
Min. Yield Pressure:	3200 psi (220 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	750 psi (52 bar) per NFPA T2.6.1-R1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 80 psi (5.5 bar)
Porting Base & Cap: Element Case:	Cast Aluminum Steel
Weight of GK9-1KG: Weight of GK9-2KG: Weight of GK9-3KG:	19 lbs. (8.6 kg) 30 lbs. (13.6 kg) 41 lbs. (18.6 kg)
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.50" (445 mm) for KKG; 26.5" (673 mm) for 27KG

How to Build a Valid Model Number for a Schroeder GK9

GK9

	-		-		-		-	
Bowl Length		Element		Porting/Test Points		Indicator		Options

Bowl Length	
	1 = 9"/18"/27" bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9" elements

Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl) KKG (18" Bowl) 27KG (27" Bowl)	Z = Excellence Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton

Porting/Test Points	Port 1	Port 2	Port 3	Port 4	Bypass	Test Points
	N = None P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 B16 = ISO 228 G-1" B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"	N = None P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 F16 = 1" SAE 4-bolt flange Code 61 F20 = 1-1/4" SAE 4-bolt flange Code 61 F24 = 1-1/2" SAE 4-bolt flange Code 61 B16 = ISO 228 G-1" B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"	N = None P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 B16 = ISO 228 G-1" B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"	N = None P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 F16 = 1" SAE 4-bolt flange Code 61 F20 = 1-1/4" SAE 4-bolt flange Code 61 F24 = 1-1/2" SAE 4-bolt flange Code 61 B16 = ISO 228 6-1" B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"	Omit = 40 PSI Bypass 10 = 10 PSI Bypass 20 = 20 PSI Bypass 25 = 25 PSI Bypass 30 = 30 PSI Bypass 60 = 60 PSI Bypass	Omit = None U = Test point in cap (Upstream) UU = Test points in block (upstream and downstream)

Indicator¹

Electrical Indicator	Indicator Material	Voltage	Current	Thermal Lockout
MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector	Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)

MS15DC = 3000 PSI max #8-32 Post for Wire Connection

Visual Indicator

- D5** = Latching Visual Pop-Up
- D8** = Visual with Thermal Lockout
- D9** = Stainless Steel Latching Pop-Up Indicator
- D10** = Non-Latching Indicator
- D10SS** = Stainless Steel Non-Latching Indicator
- D13** = Stainless Steel Latching Indicator with Music Wire Spring

Options	
	C = Indicator in cap

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Single Pass Filter Kit

G2K9

900 psi - 60 bar

100 gpm - 380 L/min



Features and Benefits

- Two or three patented-pending GK9 filters supplied in series as a single filter assembly providing in-line single pass particulate and water filtration
- HF4 Footprint filter with patented Quality Protection element
- 900 psi rating covers almost all transfer line pressure specs including air driven transfer systems
- Top loading for easy access for element change out
- Allows consolidation of inventoried elements by using K-size elements
- Can be fitted with test points for oil sampling

Model No. of filters in photograph are G2K91KGZ55P20UUD5C and Custom 2K9.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	900 psi (60 bar)
Min. Yield Pressure:	3200 psi (220 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	750 psi (52 bar) per NFPA T2.6.1-R1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) each filter housing
Porting Base & Cap: Element Case:	Cast Aluminum Steel
Weight of GK9-1KG:	19 lbs. (8.6 kg)
Weight of GK9-2KG:	30 lbs. (13.6 kg)
Weight of GK9-3KG:	41 lbs. (18.6 kg)
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.5" (445 mm) for KKG; 26.5" (673 mm) for 27KG

How to Build a Valid Model Number for a Schroeder G2K9:

G2K9

Bowl Length	Element	Porting/Test Points	Indicator	Options

Bowl Length					
	1 = 9"/18"/27" bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9" elements				
Element	Element	Media	Micron Rating for Housing 1	Micron Rating for Housing 2	Seals
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron	1 = 1 Micron	B = Buna V = Viton
	KKG (18" Bowl)		3 = 3 Micron	3 = 3 Micron	
	27KG (27" Bowl)		5 = 5 Micron	5 = 5 Micron	
			10 = 10 Micron	10 = 10 Micron	
			25 = 25 Micron	25 = 25 Micron	
Porting/Test Points	Porting		Outlet Porting		Bypass
	P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 F16 = 1" SAE 4-bolt flange Code 61 F20 = 1-1/4" SAE 4-bolt flange Code 61 F24 = 1-1/2" SAE 4-bolt flange Code 61 B16 = ISO 228 G-1" B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"		P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 F16 = 1" SAE 4-bolt flange Code 61 F20 = 1-1/4" SAE 4-bolt flange Code 61 F24 = 1-1/2" SAE 4-bolt flange Code 61 B16 = ISO 228 G-1" B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"		Omit = 40 PSI Bypass 30 = 30 PSI Bypass 50 = 50 PSI Bypass
Indicator ¹					
Electrical Indicator		Indicator Material	Voltage	Current	Thermal Lockout
MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light		Omit = Steel	AC = Alternating Current	Omit = Standard	Omit = None
MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector					
		SS = Stainless Steel	DC = Direct Current	LC = Low Current	(available on select models reference specifications in Appendix A)
MS15DC = 3000 PSI max #8-32 Post for Wire Connection					
Visual Indicator					
D5 = Latching Visual Pop-Up D8 = Visual with Thermal Lockout D9 = Stainless Steel Latching Pop-Up Indicator D10 = Non-Latching Indicator D10SS = Stainless Steel Non-Latching Indicator D13 = Stainless Steel Latching Indicator with Music Wire Spring					
Options					
	Omit = None U = Test point in cap (Upstream) UU = Test points in block (upstream and downstream)				

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Single Pass Filter Kit

G3K9

900 psi - 60 bar

100 gpm - 380 L/min



Features and Benefits

- Two or three patented-pending K9 filters supplied in series as a single filter assembly providing in-line single pass particulate and water filtration
- HF4 Footprint filter with patented Quality Protection element
- 900 psi rating covers almost all transfer line pressure specs including air driven transfer systems
- Top loading for easy access for element change out
- Allows consolidation of inventoried elements by using K-size elements
- Can be fitted with test points for oil sampling

Model No. of filters in photograph are G3K9127KG2555BP2020UUD5C

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	900 psi (60 bar)
Min. Yield Pressure:	3200 psi (220 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	750 psi (52 bar) per NFPA T2.6.1-R1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) each filter housing
Porting Base & Cap:	Cast Aluminum
Element Case:	Steel
Element Change Clearance:	8.50" (215 mm) for 1KG; 17.5" (445 mm) for KKG; 26.5" (673 mm) for 27KG

HydraSPIN Filter Series

GH

500-725 psi - 35-50 bar

35-112 gpm - 130-425 L/min



GH6



GH9



GH14



GH11

Features and Benefits

- Variety of differential indicator port options (visual and electrical indicators)
- Leak proof bar indicator, rugged visual indicator with protective aluminum shield is standard
- Proprietary bowl to element seal - minimizes potential leakage point by use of one seal on element
- Cartridge style element (non spin-on) that is proprietary and patented with integrated bypass valve features
- Wide variety of media grades that can be application specific
- Light weight bowl design with replaceable element minimizes landfill waste
- Mounting interchangeability with competitor's filter head

Part of Schroeder Industries' 2030 Initiative

Model No. of filters in photographs are GH6, GH9, GH11, and GH14

Filter Housing Specifications

	GH6	GH9	GH11	GH14
Flow Rating: (150 SUS (32 cSt) fluids)	Up to 35 gpm (130 L/min)	Up to 35 gpm (130 L/min)	Up to 87 (325 L/min)	Up to 112 gpm (425 L/min)
Max. Operating Pressure:	725 psi (50 bar)	725 psi (50 bar)	500 psi (35 bar)	500 psi (35 bar)
Min. Yield Pressure:	2600 psi (179 bar)	2600 psi (179 bar)	2700 psi (186 bar)	2700 psi (186 bar)
Rated Fatigue Pressure:	725 psi (50 bar)	725 psi (50 bar)	500 psi (35 bar)	500 psi (35 bar)
Temp. Range:	-20°F to 225°F (-29°C to 107°C)	-20°F to 225°F (-29°C to 107°C)	-22°F° to 212°F (-30°C to 100°C)	-22°F° to 212°F (-30°C to 100°C)
Bypass Setting:	25 psi (1.7 bar) standard 50 psi (3.5 bar) optional Non-Bypassing	25 psi (1.7 bar) standard 50 psi (3.5 bar) optional Non-Bypassing	25 psi (1.7 bar) standard 50 psi (3.5 bar) optional Non-Bypassing	25 psi (1.7 bar) standard 50 psi (3.5 bar) optional Non-Bypassing
Porting Head:	Cast Aluminum	Cast Aluminum	Cast Aluminum	Cast Aluminum
Element Case:	Aluminum	Aluminum	Aluminum	Aluminum
Weight:	3.2 lbs (1.4 kg)	3.8 lbs (1.7 kg)	8.0 lbs (3.6 kg)	10.0 lbs (4.5 kg)
Element Change Clearance:	2" (50 mm)	2" (50 mm)	7.4" (187 mm)	7.4" (187 mm)

Medium Pressure Filter

GKF5

500 psi - 35 bar

100 gpm - 380 L/min



Features and Benefits

- HF4 Footprint filter with patented Quality Protection element
- Offered in pipe, SAE straight thread, flange and ISO 228 porting
- Available with NPTF inlet and outlet female test ports
- Various Dirt Alarm® options
- Allows consolidation of inventoried replacement elements by using KG-size elements

Model No. of filter in photograph is GKF51KGZ10SD5.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	500 psi (35 bar)
Min. Yield Pressure:	1500 psi (100 bar) , per NFPA T2.6.1
Rated Fatigue Pressure:	300 psi (35 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 61 psi (4.2 bar)
Porting Base & Cap: Element Case:	Gray Cast Iron Steel
Weight of GKF5-1KG:	23.2 lbs. (10.5 kg)
Element Change Clearance:	2.0" (51 mm)

Return Line Filter

GKF3

300 psi - 20 bar

100 gpm - 380 L/min



Features and Benefits

- HF4 Footprint filter with patented Quality Protection element
- Offered in pipe, SAE straight thread, flange, and ISO 228 porting
- Various Dirt Alarm® options
- Available with No-Element indicator
- Available with NPTF inlet and outlet female test ports
- Available with magnet inserts
- Available with housing drain plug
- Takes the standard “KG” element in KG, KKG or 27KG lengths
- Allows consolidation of inventoried replacement elements by using KG-size elements

Model No. of filter in photograph is GKF31K10SD5.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	300 psi (20 bar)
Min. Yield Pressure:	1000 psi (70 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	290 psi (20 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 30 psi (2 bar) Full Flow: 51 psi (4 bar)
Porting Base & Cap: Element Case:	Die Cast Aluminum Steel
Weight of KF3-1KG: Weight of KF3-2KG: Weight of KF3-3KG:	10.5 lbs. (4.8 kg) 14.2 lbs. (6.4 kg) 18.5 lbs. (8.4 kg)
Element Change Clearance:	1.50" (40 mm) for all lengths

How to Build a Valid Model Number for a Schroeder GKF3:

GKF3

Bowl Length	Element	Porting/Test Points	Indicator	Options

Bowl Length					
1 = 9"/18"/27" bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9" elements					
Element	Element	Media	Micron Rating	Seals	
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl) KKG (18" Bowl) 27KG (27" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton	
Magnet/Porting/Bypass	Magnet Option	Porting	Bypass		
	Omit = None M = Magnet	P = 1-1/2" NPTF S = SAE-24 F = 1-1/2" SAE split 4-bolt flange code 61 B = ISO 228 G-1-1/2	Omit = 30 PSI bypass 50 = 50 PSI bypass		
Indicator ¹					
Electrical Indicator		Indicator Material	Voltage	Current	Thermal Lockout
Omit = None MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector		Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)
MS = Cam Operated Switch with 1/2" Conduit, Female Connection MS15DC = 3000 PSI max #8-32 Post for Wire Connection					
Visual Indicator					
D = Pointer D5 = Latching Visual Pop-Up D8 = Visual with Thermal Lockout D9 = Stainless Steel Latching Pop-Up Indicator D10 = Non-Latching Indicator D10SS = Stainless Steel Non-Latching Indicator D13 = Stainless Steel Latching Indicator with Music Wire Spring					
Options					
Omit = None L = Two 1/4" NPTF inlet and outlet test ports N = No-Element indicator G426 = 3/4" drain on bottom of housing G440 = 1/2" drain on bottom of housing					

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Return Line Filter with Threaded Bowl

GKL3**300 psi - 20 bar****120 gpm - 455 L/min**

Features and Benefits

- Threaded bowl allows for easier removal and facilitates element changes
- Available with KG-size elements
- Available with 1½" and 2" porting
- Offered in pipe, SAE straight thread, ISO 228, and flange porting
- Various Dirt Alarm® options
- Available with NPTF inlet and outlet female test ports
- Available with housing drain plug

Model No. of filter in photograph is GKL31KGZ10F24.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids for P24, S24, F24 and B24 porting Up to 120 gpm (455 L/min) for 150 SUS (32 cSt) fluids for P32, S32 and B32 porting
Max. Operating Pressure:	300 psi (20 bar)
Min. Yield Pressure:	1000 psi (70 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	300 psi (20 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 30 psi (2 bar) Full Flow: 68 psi (4.7 bar)
Porting Base & Cap: Element Case:	Cast Aluminum Steel
Weight of KL3-18LCG: Weight of KL3-1KG: Weight of KL3-2KG: Weight of KL3-3KG:	20.00 lbs. (9.1 kg) 14.75 lbs. (6.7 kg) 18.50 lbs. (8.4 kg) 22.75 lbs. (10.3 kg)
Element Change Clearance:	2.50" (64 mm)

Return Line Filter with Threaded Bowl

GKL3

How to Build a Valid Model Number for a Schroeder GKL3:

GKL3

	-		-		-		-	
Bowl Length		Element		Porting/Test Points		Indicator		Options

Bowl Length					
	1 = 9"/18"/27" bowl with one (1) element 2 = 18" Bowl with two (2) 9" elements 3 = 27" Bowl with three (3) 9" elements				
Element	Element	Media	Micron Rating	Seals	
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl) KKG (18" Bowl) 27KG (27" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton	
Porting/Test Points	Porting		Bypass		
	P24 = 1-1/2" NPTF P32 = 2" NPTF S24 = SAE-24 S32 = SAE-32 F24 = 1-1/2" SAE 4-bolt flange code 61 B20 = ISO 228 G-1-1/4" B24 = ISO 228 G-1-1/2"		Omit = 30 PSI Bypass 50 = 50 PSI Bypass		
Indicator ¹					
Electrical Indicator		Indicator Material	Voltage	Current	Thermal Lockout
MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector		Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)
MS15DC = 3000 PSI max #8-32 Post for Wire Connection					
Visual Indicator					
D5 = Latching Visual Pop-Up D8 = Visual with Thermal Lockout D9 = Stainless Steel Latching Pop-Up Indicator D10 = Non-Latching Indicator D10SS = Stainless Steel Non-Latching Indicator D13 = Stainless Steel Latching Indicator with Music Wire Spring					
Test Points/Bowl Drain	Test Point		Bowl Drain		
	Omit = None C = Indicator in cap		Omit = None DR = 3/8" drain on bottom of housing		

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Top-Ported Return Line Filter

GMLF1

300 psi - 20 bar

200 gpm - 760 L/min



Features and Benefits

- Equipped with inlet and outlet manifolds
- HF4 Footprint filter with patented Quality Protection element
- Offered in pipe and flange porting
- Available in 2, 4, or 6 element configurations
- Various Dirt Alarm® options
- Available with NPTF inlet and outlet female test ports
- Available with housing drain plugs

Model No. of filter in photograph is GMLF14KG10PD.

Filter Housing Specifications

Flow Rating:	Up to 200 gpm (760 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	300 psi (20 bar)
Min. Yield Pressure:	1000 psi (70 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	250 psi (17 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 25 psi (2 bar) Full Flow: 60 psi (4 bar)
Porting Base & Cap: Element Case:	Anodized Cast Aluminum Steel
Weight of MLF1-2KG: Weight of MLF1-4KG: Weight of MLF1-6KG:	44.0 lbs. (20.0 kg) 50.0 lbs. (23.0 kg) 58.0 lbs. (26.0 kg)
Element Change Clearance:	2.0" (55 mm)

How to Build a Valid Model Number for a Schroeder GMLF1:

GMLF1

Bowl Length	Element	Porting/Test Points	Indicator	Options

Bowl Length	
	2 = 9"/18"/27" bowl with one (1) element in each bowl 4 = 18" Bowl with two (2) 9" elements in each bowl 6 = 27" Bowl with three (3) 9" elements in each bowl

Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KG (9", 18", or 27" Bowl) KKG (18" Bowl) 27KG (27" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton

Porting/Bypass	Magnet	Porting
	Omit = None M = Magnet Inserts	P = 2-1/2" NPTF F = 2-1/2" SAE 4-Bolt Flange Code 61

Indicator ¹	Electrical Indicator	Indicator Material	Voltage	Current	Thermal Lockout
	Omit = None MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector	Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)

MS = Cam Operated Switch with 1/2" Conduit, Female Connection

MS15DC = 3000 PSI max #8-32 Post for Wire Connection

Visual Indicator

- D** = Pointer
- D5** = Latching Visual Pop-Up
- D8** = Visual with Thermal Lockout
- D9** = Stainless Steel Latching Pop-Up Indicator
- D10** = Non-Latching Indicator
- D10SS** = Stainless Steel Non-Latching Indicator
- D13** = Stainless Steel Latching Indicator with Music Wire Spring

Test Points/Bowl Drain	Test Point	Bowl Drain
	Omit = None L = Two 1/4" NPTF inlet and outlet test ports	Omit = None G426 = 3/8" drain on bottom of housing G440 = 1/2" drain on bottom of housing

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section

Top-Ported Return Line Filter

NFLK30

3000 psi - 210 bar

20 gpm - 75 L/min



Features and Benefits

- Top-ported pressure filter
- All aluminum assembly
- Offered in pipe, SAE straight thread and ISO 228 porting
- Lock & Key Quality Protected Elements (NFLK30)

Model No. of filter in photograph is NFLK301NLKZ105D5

Filter Housing Specifications

Flow Rating:	Up to 20 gpm (75 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	3000 psi (210 bar)
Min. Yield Pressure:	10,000 psi (690 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	2400 psi (165 bar), per NFPA T2.6.1
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 40 psi (2.8 bar) Full Flow: 85 psi (5.9 bar)
Porting Head:	Aluminum
Element Case:	Aluminum
Weight of NFLK30-1NLK:	3.4 lbs. (1.5 kg)
Weight of NFLK30-1NNLK:	4.4 lbs. (2.0 kg)
Element Change Clearance:	4.50" (115 mm)

How to Build a Valid Model Number for a Schroeder NFLK30:

NFLK30

	-		-		-		-	
Bowl Length		Element		Porting		Indicator		Options

Bowl Length				
	1 = 1 single element/bowl length			
Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	NLK = Single Length	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron	Omit = Buna V = Viton
	NNLK = Double Length		3 = 3 Micron	
			5 = 5 Micron	
			10 = 10 Micron	
			25 = 25 Micron	
Porting	Porting			
	B = ISO228 G-3/4" P = 3/4" NPTF S = SAE-12			

Indicator ¹				
Electrical Indicator	Indicator Material	Voltage	Current	Thermal Lockout
Omit = None MS5 = 12" 4 Conductor Cable MS10 = Male DIN Connector MS11 = 12 ft 4 Conductor Cable MS12 = Male 5 Pin Brad Harrison Connector MS13 = Threaded Connector and Light MS14 = Male 5 Pin Brad Harrison Connector & Light MS16 = Weather Packed Seal Connector MS17 = Male Micro 4 Pin Brad Harrison Connector MS18 = 2 Pin Amp Junior Power Timer Connector MS19 = 2 Pin Deutsch Connector MS = Cam Operated Switch with 1/2" Conduit, Female Connection MS15DC = 3000 PSI max #8-32 Post for Wire Connection	Omit = Steel SS = Stainless Steel	AC = Alternating Current DC = Direct Current	Omit = Standard LC = Low Current	Omit = None T (available on select models reference specifications in Appendix A)

Visual Indicator
D = Pointer D5 = Latching Visual Pop-Up D8 = Visual with Thermal Lockout D9 = Stainless Steel Latching Pop-Up Indicator D10 = Non-Latching Indicator D10SS = Stainless Steel Non-Latching Indicator D13 = Stainless Steel Latching Indicator with Music Wire Spring

1. Starting from the left you will choose your Indicator Type (visual or electrical), if it's visual you will use the visual column and that will complete this box. If it's electrical you will populate the column under "MS = Electrical." If no indicator is required you will omit the whole section and move onto the next section



Features and Benefits

- Patent Pending in-tank filter design
- Lightweight and as part of a tank optimization package can reduce reservoir size
- Lock & Key Quality Protected, OEM specific interfaces available
- Superior de-aeration performance
- 360 degree swivel connection, lines stay connected during element changeouts
- Anti-Drain check valve option to keep lines from emptying during element changeouts
- 135 ft-lb max loading torque on inlet port



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Model No. of filter in photograph is AFT8LKZ10L16N

Filter Housing Specifications

Flow Rating:	40 gpm (151 L/min)
Max. Operating Pressure:	100 psi (7 bar)
Min. Yield Pressure:	350 psi (24 bar)
Rated Fatigue Pressure:	100 psi (7 bar)
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 30 psi (2 bar) Full Flow: 45 psi (3 bar)
Element Change Clearance:	4L = 5.28" [134mm] 8L = 8.62" [219mm] 12L = 11.96" [304mm] 16L = 15.30" [389mm]
Element Case:	12 elements
Type Fluid:	Appropriate Schroeder Media
Petroleum Based Fluids:	All E media (cellulose), Z-Media® and ASP® media (synthetic)
High Water Content:	All Z-Media® and ASP® media (synthetic)
Invert Emulsions:	10 and 25 µ Z-Media® and 10 µ ASP® media (synthetic)
Water Glycols:	3, 5, 10 and 25 µ Z-Media® and all ASP® media (synthetic)
Phosphate Esters:	All Z-Media® (synthetic) with H (EPR) seal designation and all ASP® media (synthetic)

How to Build a Valid Model Number for a Schroeder AFT:

AFT

[]	-	[]	-	[]	-	[]
Element		Porting/Test Points		Indicator		Options

Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	4LK = 4" Element 8LK = 8" Element 12LK = 12" Element 16LK = 16" Element	Z = Excellement Z Media (synthetic) Note: Other media is available upon request.	3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton
Porting	Porting	Bypass	Check Valve	
	S12 = SAE 12 S16 = SAE 16 L12 = 90 Deg SAE 12 L16 = 90 Deg SAE 12 HB16 = 1" Hose Barb	Omit = 30 PSI 25 = 25 PSI 40 = 40 PSI	Omit = Check valve N = No check valve	
Indicator				
	Omit = None Y2 = Back-Mounted Tri-Color gauge ES = Electric Switch with Screw Terminals ES1 = Electric Switch with 24" wire leads ES2 = Electric Switch with 2-Pin Deutche Connector ES3 = Electric Switch with DIN 43650			

Tank-Mounted Filter

v. 090523

GPT

150 psi - 10.3 bar

175 gpm - 662 L/min



Features and Benefits

- Filter bypass in cap vs base, cleaner cold start
- Patent Pending In-Tank Design
- Lock & Key Quality Protected

Model No. of filter in photograph is
GPT15DCLKZ25S24S24

Filter Housing Specifications

Flow Rating:	Up to 175 GPM (662 L/min) FOR 150 SUS (32 cSt) Fluids
Max. Operating Pressure:	150 PSI (10.3 bar)
Min. Yield Pressure:	Consult Factory
Rated Fatigue Pressure:	89 psi (6 bar)
Temp. Range:	-20 F to 225 F (-29 C to 107 C)
Bypass Setting:	Cracking: 35 PSI (2.4 bar)
Ported Head and Cap:	Die Cast Aluminum
Weight:	7 LBS. (3.18 kg)
Element Change Clearance:	20.0" (508 mm)
Type Fluid:	Appropriate Schroeder Media
High Water Content:	All Z-Media (synthetic)
Invert Emulsions:	10 and 25 micron Z-Media (synthetic)
Water Glycols:	3, 5, 10, and 25 micron Z-Media (synthetic)
Phosphate Esters:	All Z-Media (synthetic) with H (EPR) seal designation

How to Build a Valid Model Number for a Schroeder GPT:



Element	Element	Media	Micron Rating	Seals
	15DCLK = 15" Element	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton H = EPR
Porting	Porting 1	Porting 2	Bypass	
	S24 = SAE-24 P24 = 1 1/2" NPT F32 = 2" SAE Code 61 Flange	S24 = SAE-24 P24 = 1 1/2" NPT F32 = 2" SAE Code 61 Flange	Omit = 35 PSI Cracking	
Indicator				
	Y2 = Tricolor Visual Indicator (Back Mounted) Y2C = Tricolor Visual Indicator (Bottom Mounted) ES = Electric Switch ES1 = Heavy Duty Electric Switch ES2 = Electric Switch with Deutsch Connector			

The 15DCLK element assembly is made up of the GPT diverter cap and the 15TLK element.
A list of model code pairings is shown below:

15DCLKZ10,ELEMENT = DIVERTER, ASSY, GPT, BUNA + 15TLKZ10, ELEMENT
15DCLKZ25,ELEMENT = DIVERTER, ASSY, GPT, BUNA + 15TLKZ25, ELEMENT
15DCLKZ3,ELEMENT = DIVERTER, ASSY, GPT, BUNA + 15TLKZ3, ELEMENT
15DCLKZ5,ELEMENT = DIVERTER, ASSY, GPT, BUNA + 15TLKZ5, ELEMENT

Return Line Filter

BRT

145 psi - 10 bar

160 gpm - 600 L/min



Features and Benefits

- Filter is mounted in the tank and flow comes to it from a pipe connection below it or from the side
- Optimal flow conditions created by flow from beneath guaranteeing optimal air separation, even tank mixing, and long element service intervals
- Patented de-aeration windows around the housing offer superior air bubble coalescence in a 360 degree discharge
- Quality Protected Inside-Out Flow Element Design



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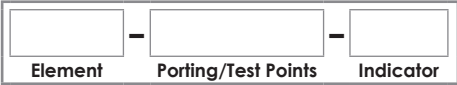
Model No. of filter in photograph is BRT6RBZ102.

Filter Housing Specifications

Flow Rating:	Up to 160 gpm (600 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	145 psi (10 bar)
Temp. Range:	-22°F to 248°F (-30°C to 120°C)
Bypass Setting:	Cracking: 36 psi (2.5 bar)
Filter Head & Cover:	BRT 2 - 6: Aluminum
Inlet Section:	Nylon (PA66)
Seals:	Buna N
Installation:	As in-tank filter

How to Build a Valid Model Number for a Schroeder BRT:

BRT



Element	Element Length	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	2RB 3RB 4RB 6RB	Z = Excellement Z Media (synthetic) Note: Other media is available upon request.	10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton
Porting	Inlet Porting			
	2 = Side Inlet 1 = Bottom Inlet			
Indicator	Visual			
	Omit = None VA = Visual/Electrical VE = Electrical VO = Visual Indicator			

Return Line Filter

TRT

145 psi - 10 bar

100 gpm - 380 L/min



Features and Benefits

- Filter head is mounted on the tank like standard return-line solution
- The protective tube can be supplied in various optional versions: 1.) as a closed tube with the outlet opening facing downwards or with a closed base and rows of operating holes at the height of the tank's oil level 2.) with an optional magnetic core connected to the filter element guaranteeing effective magnetic pre-filtration
- Patented de-aeration windows around the housing offer superior air bubble coalescence in a 360 degree discharge
- Quality Protected Inside-Out Flow Element Design

Part of Schroeder Industries' 2030 Initiative

Model No. of filter in photograph is TRT3RTZ10MS.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (400 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	145 psi (10 bar)
Temp. Range:	-22°F to 248°F (-30°C to 120°C)
Bypass Setting:	Cracking: 36 psi (2.5 bar)
Filter Head & Cover: Inlet Section:	BRT 2 - 6: Aluminum Nylon (PA66)
Seals:	Buna N and Viton
Installation:	As in-tank filter

How to Build a Valid Model Number for a Schroeder TRT:

TRT

[]	-	[]	-	[]
Element		Porting/Test Points		Indicator

Element	Element Length (in)	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	1RT 2RT 3RT 4RT	Z = Excellement Z Media (synthetic) Note: Other media is available upon request.	5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton
Porting	Bypass	Magnet	Inlet Porting	Housing Options
	Omit = 36 PSID Bypass 12 = 12 PSID Bypass	Omit = None M = Magnet	G = 1-½" bSPP S = G 1-½" BSPP, SAE DN 40 (1-½") S24 = SAE-24	Omit = Standard Housing Tube
Indicator	Visual			
	Omit = None VA = Visual/Electrical VE = Electrical VO = Visual Indicator			

Tank-Mounted Filter

GZT

100 psi - 7 bar

40 gpm - 150 L/min



Features and Benefits

- Low pressure tank-mounted filter
- Available with dual inlet porting
- Offered in pipe, SAE straight thread, and ISO 228 porting
- Various Dirt Alarm® options
- Optional PAB1 breather
- Optional dipstick

Model No. of filter in photograph is GZT8ZGZ10PPESAB.

Filter Housing Specifications	
Flow Rating:	Up to 40 gpm (150 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	100 psi (7 bar)
Min. Yield Pressure:	300 psi (21 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	90 psi (6 bar), per NFPA T2.6.1-R1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 25 psi (1.7 bar) Full Flow: 39 psi (2.7 bar)
Porting Base & Cap: Element Case:	Nylon Aluminum
Weight of ZT-8ZG:	3.3 lbs. (1.49 kg)
Element Change Clearance:	10.0" (254 mm)

How to Build a Valid Model Number for a Schroeder GZT:

GZT

	-		-		-		-		-		-	
Element Length		Media		Micron Rating		Seals		Porting		Indicator		Outlet Porting Options

Element	Element Length	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	8	GTZZ = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron (Z Media) 3 = 3 Micron (Z Media) 5 = 5 Micron (Z Media) 10 = 10 Micron (Z Media) 25 = 25 Micron (Z Media)	Omit = Buna V = Viton
Porting/Test Points	Porting			
	P = 1" NPTF PP = Dual 1" NPTF S = SAE-16 SS = Dual SAE-16 B = ISO 228 G-1" BB = Dual ISO 228 G-1"			
Indicator				
	Omit = None Y2 = Visual Back-Mounted Tri-Color gauge ES = Electric Switch with Screw Terminals ES1 = Electric Switch with 24" wire leads ES2 = Electric Switch with 2-Pin Deutche Connector ES3 = Electric Switch with DIN 43650 Y2C = Visual Bottom-Mounted Tri Color Gauge in Cap Y5 = Visual Back-Mounted Tri-Color Gauge			
Options	Outlet Porting Options	Options		
	Omit = 1-1/2" NPT male D = Diffuser T = 13" Tube extension	Omit = None G3039 = 1.5" NPT outlet removed B = Breather M = Mounting gasket (Buna N)		

Tank-Mounted Filter

GRT

100 psi - 7 bar

100 gpm - 380 L/min



Features and Benefits

- Low pressure tank-mounted filter with up to 3 inlet ports
- HF4 Footprint filter with patented Quality Protection element
- Top, side, or bottom mounting
- Optional check valve prevents reservoir siphoning
- RTW model allows filter to be welded to tank, instead of being bolted
- Double and triple stacking of KG-size element can be replaced by single KKG or 27KG-size element
- Various Dirt Alarm® options
- Allows consolidation of inventoried replacement elements by using KG-size elements

Model No. of filter in photograph is GRTK5G24NP16Y2

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	100 psi (7 bar)
Min. Yield Pressure:	400 psi (28 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	90 psi (6 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 25 psi (1.7 bar) Full Flow: 48 psi (3.3 bar)
Porting Base & Cap: Element Case:	Die Cast Aluminum Steel
Weight of RT-1KG: Weight of RT-2KG:	11.4 lbs. (5.2 kg) 14.5 lbs. (6.6 kg)
Element Change Clearance:	8.0" (205 mm) for 1KG; 17.50" (445 mm) for KKG; 26.5" (673 mm) for 27KG

How to Build a Valid Model Number for a Schroeder GRT:

GRT

	-		-		-		-	
Bowl Length		Element		Porting/Test Points		Indicator		Options

Bowl Length				
1 = 9"/18"/27 Bowl with one (1) element				
Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KG (9" Bowl)	Z = Excellement Z-Media (synthetic) Note: Other media is available upon request.	1 = 1 Micron	Omit = Buna V = Viton
	KKG (18" Bowl)		3 = 3 Micron	
	27KG (27" Bowl)		5 = 5 Micron	
			10 = 10 Micron	
			25 = 25 Micron	
Porting	Port A	Port B	Port C	Outlet Porting Options
	P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1-1/4" SAE 4-bolt flange Code 61 F24 = 1-1/2" SAE 4-bolt flange Code 61 F32 = 2" SAE 4-bolt flange Code 61 B24 = ISO 228 G-1-1/2"	N = None P16 = 1" NPTF P20 = 1-1/4" NPTF P24 = 1-1/2" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1-1/4" SAE 4-bolt flange Code 61 F24 = 1-1/2" SAE 4-bolt flange Code 61 F32 = 2" SAE 4-bolt flange Code 61 B24 = ISO 228 G-1-1/2"	N = None P2 = 1/8" P16 = NPTF S16 = 1" NPTF SAE-16	C = Check valve D = Diffuser CD = Check Valve & Diffuser T = 13" Tube Extension A = Non-threaded output
Indicator				
Omit = None Y2 = Visual Back-Mounted Tri-Color gauge ES = Electric Switch with Screw Terminals ES1 = Electric Switch with 24" wire leads ES2 = Electric Switch with 2-Pin Deutsche Connector ES3 = Electric Switch with DIN 43650 Y2C = Visual Bottom-Mounted Tri Color Gauge in Cap Y5 = Visual Back-Mounted Tri-Color Gauge				
Options				
Omit = None G2293 = Cork Gasket G547 = Two 1/8" Gauge Ports G820 = Stamped Cap				

Tank-Mounted Return Line Filter

GRTB

100 psi - 7 bar

100 gpm - 380 L/min



Features and Benefits

- Various Dirt Alarm® options
- Cost optimized for in-tank applications
- Plastic bowl and cap lower cost and minimize weight
- OUV resistant cap

Model No. of filter in photograph is GRTB1KBGZ10S.

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	100 psi (7 bar)
Min. Yield Pressure:	400 psi (28 bar)
Rated Fatigue Pressure:	145 psi (10 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 200°F (-29°C to 93°C)
Bypass Setting:	Cracking: 25 psi (1.7 bar) Full Flow: 42 psi (2.9 bar)
Cap & Bowl: Porting Head:	Nylon Aluminum
Weight of GRTB-1K:	5.2 lbs. (2.36 kg)
Element Change Clearance:	9.5" (240 mm)

How to Build a Valid Model Number for a Schroeder GRTB:

GRTB

[]	-	[]	-	[]	-	[]
Element		Porting/Test Points		Indicator		Options

Bowl Length				
1 = One 9" element				
Element	Element	Media	Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	KBG (9" Bowl)	Omit = Cellulose E-media Z = Excellement Z-media (synthetic) Note: Other media is available upon request.	1 = 1 Micron	Omit = Buna
			3 = 3 Micron	
			5 = 5 Micron	
			10 = 10 Micron	
			25 = 25 Micron	
Porting	Port A	Outlet Porting Options		
	P = 1-1/4" NPT S = SAE-20 B = ISO 228 G 1-1/4	C = Check valve D = Diffuser CD = Check valve & diffuser T = 13" Tube extension		
Indicator				
	Omit = None Y2 = Visual Back-Mounted Tri-Color gauge ES = Electric Switch with Screw Terminals ES1 = Electric Switch with 24" wire leads ES2 = Electric Switch with 2-Pin Deutche Connector ES3 = Electric Switch with DIN 43650			

Tank-Mounted Filter

GLRT

100 psi - 7 bar

150 gpm - 570 L/min



Features and Benefits

- Low pressure tank-mounted filter
- Multiple inlet/outlet porting options
- Top, side, or bottom mounting
- Optional check valve prevents reservoir siphoning
- Can also be used in return line application (contact factory)
- Visual gauge or electrical switch dirt alarms
- Offered in pipe, SAE straight thread, flanged, and ISO 228 porting

Model No. of filter in photograph is GLRT18LGZ10S24NP16Y2.

Filter Housing Specifications

Flow Rating:	Up to 150 gpm (570 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	100 psi (7 bar)
Min. Yield Pressure:	400 psi (28 bar), per NFPA T2.6.1
Rated Fatigue Pressure:	90 psi (6 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 25 psi (1.7 bar) Full Flow: 34 psi (2.3 bar)
Porting Base & Cap: Element Case:	Die Cast Aluminum Steel
Weight of GLRT-18L:	14.6 lbs. (6.6 kg)
Element Change Clearance:	17.0" (432 mm)

How to Build a Valid Model Number for a Schroeder GLRT:

GLRT

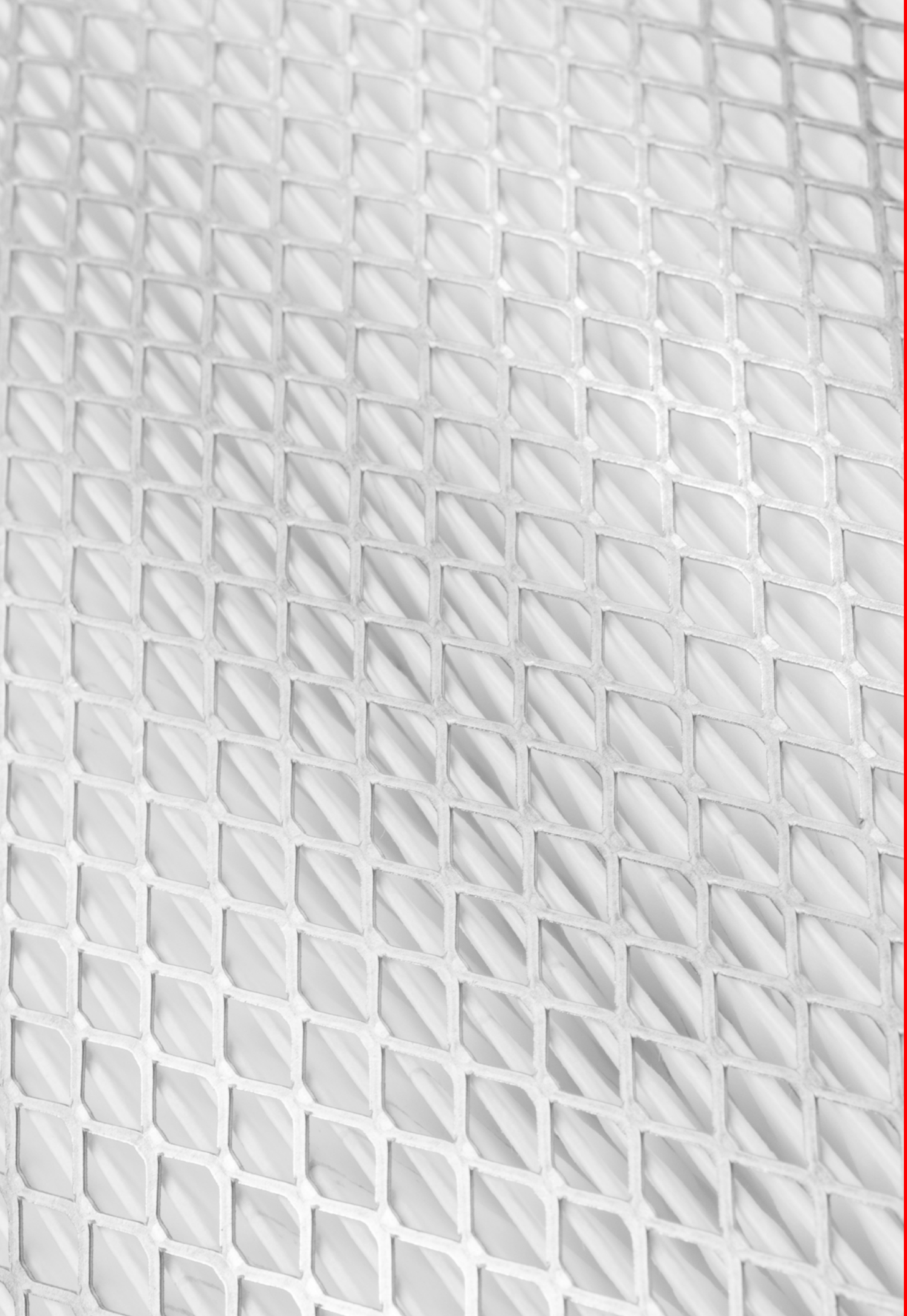
	-		-		-		-	
Bowl Length		Element		Porting/Test Points		Indicator		Options

Element	Element Length	Media		Micron Rating	Seals
Note: Element code can also be used to build a replacement element.	18	LGZ = Excellement Z-Media (synthetic) Note: Other media is available upon request.		1 = 1 Micron 3 = 3 Micron 5 = 5 Micron 10 = 10 Micron 25 = 25 Micron	Omit = Buna V = Viton
Porting/Test Points	Port A	Port B	Port C	Bypass Options	Outlet Porting Options
	P16 = 1" NPTF P20 = 1-¼" NPTF P24 = 1-½" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1-¼" SAE 4-Bolt flange Code 61 F24 = 1½" SAE 4-Bolt flange Code 61 F32 = 2" SAE 4-Bolt flange Code 61 B24 = ISO 228 G-1½" Flange Port Option Only: M = Metric SAE 4 Bolt Flange	N = None P16 = 1" NPTF P20 = 1-¼" NPTF P24 = 1-½" NPTF P32 = 2" NPTF S16 = SAE-16 S20 = SAE-20 S24 = SAE-24 S32 = SAE-32 F20 = 1-¼" SAE 4-Bolt flange Code 61 F24 = 1½" SAE 4-Bolt flange Code 61 F32 = 2" SAE 4-Bolt flange Code 61 B24 = ISO 228 G-1½"	N = None P2 = 1/8" NPT P16 = 1" NPTF S16 = SAE-16	Omit = 25 PSID setting 40 = 40 PSID setting	Omit = 2" NPT male C = Check valve D = Diffuser T = 13" Tube Ext. A = Non-thread outlet
Indicator					
	Omit = None Y2 = Visual Back-Mounted Tri-Color gauge ES = Electric Switch with Screw Terminals ES1 = Electric Switch with 24" wire leads ES2 = Electric Switch with 2-Pin Deutche Connector ES3 = Electric Switch with DIN 43650 Y2C = Visual Bottom-Mounted Tri Color Gauge in Cap Y5 = Visual Back-Mounted Tri-Color Gauge				
Options					
	Omit = None G2293 = Cork gasket G547 = Two 1/8" gauge ports G820 = Stamped cap				



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Section 2: ***FILTER SYSTEMS***





Features and Benefits

- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- Modular base eliminates hoses between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- D5 Dirt Alarm® indicates when filter element needs changed
- Integral suction strainer protects pump
- Hoses and connection tubes included (13' total length)
- Option for the addition of Contamination Sensors and WLAN/LAN Communication (CSI-C-11)

Applications

- Supplementing continuous filtration by system filters
- Cleaning up a hydraulic system following component replacement
- Filtering new fluid before it is put into service
- Transferring fluid from storage tanks and drums to system reservoirs

Description

The Schroeder Mobile Filtration System is a compact, self-contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. It is perfect for cleaning up existing systems as well as for prefiltering new fluids, since new fluids often have contamination levels significantly higher than that recommended for most hydraulic systems.

The MFS single filtration unit can remove either water or particulate contamination. The MFD dual filtration unit can be used to remove both water and particulate contamination, or for staged particulate contaminant removal.

Contamination Sensor for Remote Visibility Options

HY-TRAX® manual fluid sampling system: Schroeder now offers the HY-TRAX® manual fluid sampling system as an additional option allowing for real-time fluid condition monitoring. ISO particle counts are visually displayed on the TCM. Users will now know when they have reached their desired ISO contamination levels.

CSI-C-11: Schroeder also offers the CSI-C-11 Communication Interface for WLAN or LAN transmission of data and data storage capabilities.

Specifications

Flow Rating:	7 gpm (26.5 L/min) max or 14 gpm (53.0 L/min) max
Viscosity Range:	40 - 1,000 SUS (4 - 216 cSt) Higher viscosity version available. Contact factory for details.
Hose Pressure Rating:	30 psig (2.0 bar) @ 150°F (65.6°C) Full vacuum @ 150°F (65.6°C)
Fluid Temperature:	25°F to 150°F (-4°C to 65°C)
Bypass Valve Setting:	Cracking: 30 psi (2 bar)
Material:	Manifold and cap: Cast aluminum Element case: Steel
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.
Motor:	115 VAC Single phase 3/4 hp (7 gpm) or 1-1/2 hp (14 gpm)
Element Change Clearance:	8.50" (215 mm) 1K (9, 18 or 27" depending on model configuration)

Weights

gpm	MFS-2K lb (kg)	MFS-3K lb (kg)	MFD-2K lb (kg)	MFD-3K lb (kg)
7	180 (82)	190 (86)	203 (92)	220 (100)
14	187 (85)	197 (89)	210 (95)	227 (103)

How to Build a Valid Model Number for a Schroeder MFD / MFS:

Model	Element	Seal Material	Voltage	Pump Size (gpm)	Particle Counter

Model

Model			
	MFS MFD		
Element	No. of Elements/ Element Length	Element Media - 1st Filter	Element Media - 2nd Filter (MFD only)
	1-18 1-27 2-09 3-09	Z01 = 1 µm Excellement® Z-Media® (synthetic) Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® GWR = Water Removal w/GeoSeal®	Z01 = 1 µm Excellement® Z-Media® (synthetic) Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® GWR = Water Removal w/GeoSeal®

Seal Material

B = Buna
V = Viton®
H.5 = Skydrol Compatibility

Voltage¹

Omit = 115 V / 60 Hz / 1-Phase
A = 230 V / 60 Hz / 3-Phase
B = 460 V / 60 Hz / 3-Phase
C = 220 V / 50 Hz / 1-Phase
D = 230 V / 60 Hz / 1-Phase

Pump Size²

07
14

Options³

Omit = Without Particle Counter
P = Particle Counter
P-CSI = Particle Counter + CSI-C-11 Option
P-CSI-W = Particle Counter + CSI-C-11 + Water Sensor (No Display) Option

¹ H.5 seal designation may be used with 3, 5, 10, and 25µ Z (synthetic) and calls for EPR seals, stainless steel wire meshin element(s) and Imron® epoxy coated enclosures on cart. H.5 not available with 7 gpm pump. Imron® is a registered trademark of DuPont.

² 230 & 460 Volt, 60 Hz options supplied with starters. 230 Volt, 50 Hz units will have plug cut-off from power cord and include no starters, flow ratings reduced to ~5-gpm and 11-gpm. Contact factory for high viscosity version.

³ Particle counter option only available on 115VAC 60 hertz carts. Particle counter is not available with Skydrol fluids.

Medium Viscosity Mobile Filtration Systems

MFD-MFV

6 or 10 gpm - *22.7 to 37.9 L/min*



MFD-MV

Features and Benefits

- Ability to filter fluids having a viscosity up to 5,000 SUS
- Top-ported filter provides easy element service
- 7' hose and extension wands included (10' total length)
- Standard 18" filter housings

Applications

- Supplementing continuous filtration by system filters
- Cleaning up a hydraulic system following component replacement
- Filtering new fluid before it is put into service
- Transferring fluid from storage tanks and drums to system reservoirs

Description

The MFD-MV is a compact, self-contained filtration system equipped with high efficiency high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. It is perfect for cleaning up existing systems as well as for prefiltering new fluids, since new fluids often have contamination levels significantly higher than that recommended for most hydraulic systems. The MFD-MV dual filtration unit can be used to remove both water and particulate contamination or for staged particulate contamination removal.

Specifications

Flow Rating:	6 or 10 gpm (22.7 or 37.9 L/min) max
Maximum Viscosity:	up to 5,000 SUS (1000 cSt)
Hose Pressure Rating:	30 psig (2.0 bar) at 150°F (65.6°C) Full vacuum at 150°F (65.6°C)
Maximum Operating Temperature:	-20°F to 150°F (-29°C to 65°C)
Bypass Valve Setting:	Cracking: 30 psi (2 bar)
Material:	Manifold and cap: Cast Aluminum Element case: Steel
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.
Motor:	1.0 hp 110 VAC/60 Hz TEFC (6 gpm) 1.5 hp 110 VAC/60 Hz TEFC (10 gpm)

Medium Viscosity Mobile Filtration Systems

MFD-MFV

How to Build a Valid Model Number for a Schroeder MFD-MV:

MFD-MV –

Element	Seal Material	Pump Size (gpm)

Element	No. of Elements	Element Length	Element Media - 1st Filter	Element Media - 2nd Filter (MFD only) ¹
	1	18	G03 = 3 µm Excellement® Z-Media® G05 = (synthetic) w/GeoSeal® G10 = 5 µm Excellement® Z-Media® G25 = (synthetic) w/GeoSeal® GWR = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal® 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® Water Removal w/GeoSeal®	G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® GWR = Water Removal w/GeoSeal®
Seal Material				
	V = Viton®			
Pump Size				
	6 10			

¹ When MFD is ordered, the number of elements, element length, and seals will be identical for both filter housings.

MFS-HV / MFD-HV 3 gpm max - 7.5 L/min



MFD-HV

Features and Benefits

- Ability to filter fluids having a viscosity up to 15,000 SUS
- Flow rates up to 3 gpm
- 115 V AC single phase 1 1/2 HP motor
- Dual filtration unit, available to remove both water and particulate contamination or for staged particulate contamination removal
- Modular base eliminates hoses between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- Ten-foot hose and extension tubes included (13' total length)
- Drip pan catches oil before it falls to the ground
- 27-inch housing is standard
- Integrated lifting eye option

Applications

- Supplementing continuous filtration by system filters
- Cleaning up a hydraulic system following component replacement
- Filtering new fluid before it is put into service
- Transferring fluid from storage tanks and drums to system reservoirs

Description

The Schroeder Mobile Filtration System for high viscosity applications is a compact, self contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. It is perfect for cleaning up existing systems as well as prefiltering and transferring fluids. Remember, new fluid does not mean clean fluid! Most new fluids have contamination levels significantly higher than is recommended for most hydraulic systems.

Specifications

Flow Rating:	3 gpm (7.5 L/min) max
Maximum Viscosity:	15,000 SUS (3236 cSt)
Hose Pressure Rating:	30 psig (2.0 bar) @ 150°F (65.6°C) Full vacuum @ 150°F (65.6°C)
Fluid Temperature:	25°F to 150°F (-4°C to 65°C)
Bypass Valve Setting:	Cracking: 40 psi (2.8 bar)
Material:	Manifold and cap: Cast Aluminum Element case: Steel
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.
Motor:	115 VAC Single phase 1.5 hp
Element Change Clearance:	8.50 (215 mm) 1K (9, 18 or 27" depending on model configuration)
Weight:	MFS-HV - 230 lbs (104 kg); MFD-HV - 260 lbs (118 kg)

High Viscosity Mobile Filtration Systems

MFS-HV / MFD-HV

How to Build a Valid Model Number for a Schroeder MFD / MFS:

	-		-		-	
Model		Element		Seal Material		Pump Size (gpm)

Model

MFS-HV
MFD-HV

Element	No. of Elements	Element Length	Element Media - 1st Filter	Element Media - 2nd Filter (MFD only) ¹
	1	18 27	Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® GWR = Water Removal w/GeoSeal®	Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® GWR = Water Removal w/GeoSeal®

Seal Material

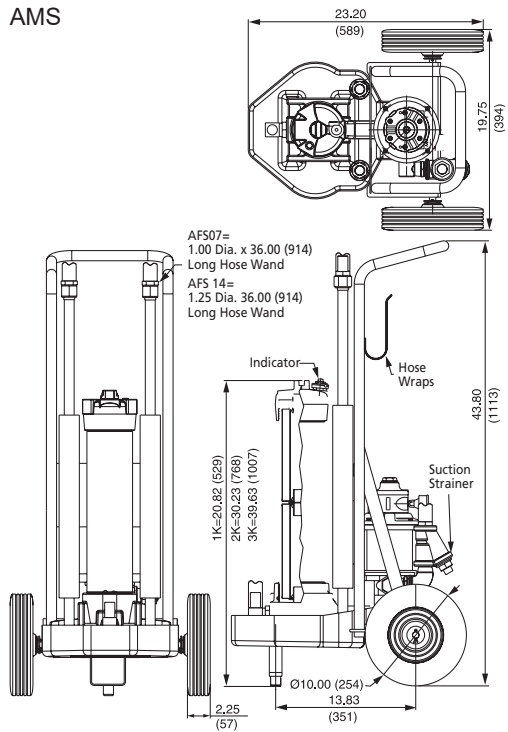
B = Buna
V = Viton®

Pump Size²

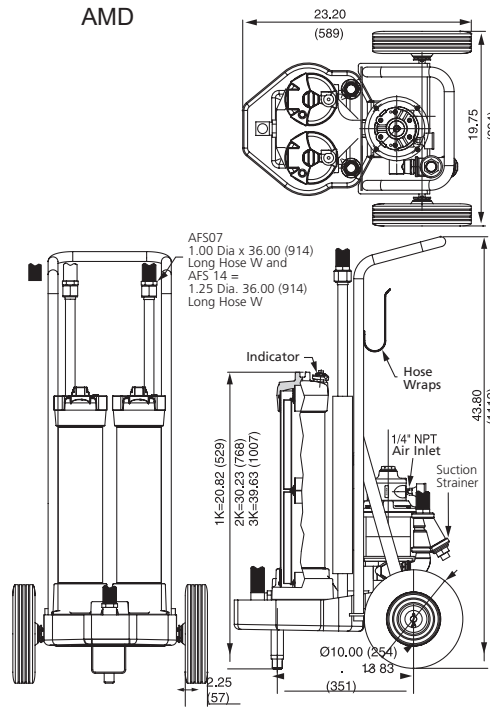
07
14

¹ When MFD is ordered, the number of elements, element length, and seals will be identical for both filter housings.

AMS



AMD

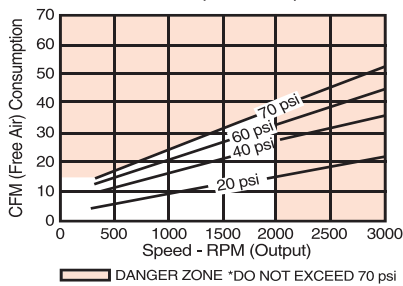


Description

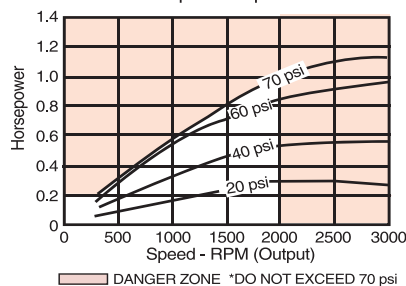
Schroeder's AMS and AMD carts feature a pneumatic motor in place of the standard electric motor. The pneumatic motor offers the same flow capability using the same components, but without the need for an electrical outlet. This provides a major advantage in the application of this unit. With no need for an electrical outlet, it is more portable than the standard electric-motored skids and carts.

Because most trucks and industrial machinery are already equipped with an air compressor, a simple connection to the 1/4" NPT port will easily power the 1.5 HP (or 4.0 HP) motor. At 70 psi, and 2000 rpm, this motor consumes less than 40 cfm (70 cfm for the 4.0 HP motor) of compressed air. Because no electricity is used, the pneumatic motor is ideal for working in hazardous environments such as mines.

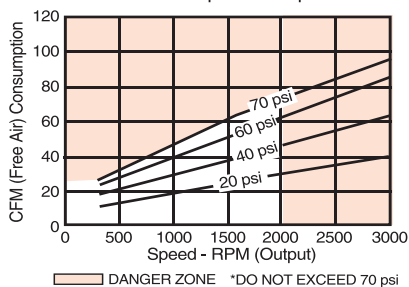
7 GPM AIR MOTOR
Air Consumption vs. Speed



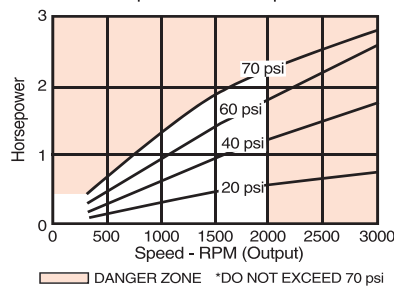
7 GPM AIR MOTOR
Output vs. Speed



14 GPM AIR MOTOR
Air Consumption vs. Speed



14 GPM AIR MOTOR
Output Power vs. Speed



Note: Performance data represents a 4-vane model with no exhaust restriction.

How to Build a Valid Model Number for a Schroeder MFD / MFS:

Model	Element	Seal Material	Pump Size (gpm)

Model

	AMS AMD		
Element	No. of Elements/ Element Length	Element Media - 1st Filter	Element Media - 2nd Filter (AMD only)
	1-18 1-27 2-09 3-09	Z01 = 1 µm Excellement® Z-Media® (synthetic) Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® GWR = Water Removal w/GeoSeal®	Z01 = 1 µm Excellement® Z-Media® (synthetic) Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® GWR = Water Removal w/GeoSeal®

Seal Material¹

B = Buna

Pump Size²

07
14

¹ When AMD is ordered, the number of elements, element length, and seal will be identical for both filter housings.

² 07 gpm - 50 CFM at 70 psi; 14 gpm - 70 CFM at 70 psi



Features and Benefits

- Real time monitoring of ISO cleanliness classes
- Automatic shutdown when user defined ISO codes are reached
- USB port allows the ISO code data to be downloaded for further processing and/or printing
- 30 mesh suction strainer and 230 micron filter are included to protect the particle monitor from clogging
- Water sensor allows real-time water saturation of the fluid to be displayed
- Bypass valve allows cart to be used as a transfer cart
- Single lift point
- Plastic removable drip pan
- Hoses and connection tubes included (13' total length)

Applications

- In-Plant Service: Filter to desired cleanliness levels and extend component life
- Mobile Dealer Networks: Aid in certified re-builds, service maintenance contracts and total maintenance & repair programs
- Original Equipment Manufacturer: Filter to require roll-off cleanliness levels
- Lubricant Reclamation/Recycling: Clean oil to extend oil life and reduce hazardous waste

Description

The Filtration Station® (FS) is capable of flushing, filtering, and monitoring ISO cleanliness with user-defined, automatic features. The FS is designed to transfer fluid through two (2) K9 filters in series for staged particulate or water/particulate removal. The FS is always furnished with two filter housings. Both filters are top-loading and include element indicators in the cap. A particle monitor reads samples from the pump discharge and displays ISO contamination codes on the control panel. The monitor allows the user to input the desired ISO cleanliness codes for the fluid. In auto mode, the system will run until the cleanliness codes are reached. Upon reaching the codes, the pump will stop and the cycle complete light will come on. When in manual mode, the system will run continuously and display the ISO codes. The included water sensor reports the water saturation of the fluid, which is displayed on the control panel.

Specifications

Flow Rating:	3 gpm (7.5 L/min) max
Motor:	1.5 HP - 15 amps at 120 volts AC for fixed flow 1 HP - 10 amps at 120 volts AC for variable flow
Viscosity:	60 - 1,000 SUS (10-216 cSt)
Fluid Temperature Range:	-20°F to 150°F (-29°C to 65°C)
Bypass Valve Setting:	Cracking: 30 psi (2 bar) x 2
Compatibility:	All petroleum-based hydraulic fluid. Contact factory for use with other fluids.
Element Change Clearance:	8.50" (215 mm) 1K
Weight:	195 lbs (89 kg)
Protection Class:	IP54 (DIN 40050)

*Note: Optional front caster set PN: 7627132 includes (2) plate mount swivel casters with brake, installation hardware and mounting instructions.

Element Performance Information

Element	Filtration Rating Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Filtration Rating wrt ISO 16889 Using APC calibrated per ISO 11171		Dirt Holding Capacity gm
	$\beta_x \geq 75$	$\beta_x \geq 100$	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$	
KZ5/KKZ5	2.5	3.0	4.0	4.8	6.3	119 / 238
KZ10/KKZ10	7.4	8.2	10.0	8.0	10.0	108 / 216
KZ25/KKZ25	18.0	20.00	22.5	19.0	240.0	93 / 186

How to Build a Valid Model Number for a Schroeder FS:

FS – – – – –

Voltage Element Seal Material Pump Size (gpm) Water Sensor

Voltage¹

A = 120 V / 60 Hz
 B = 220 V / 60 Hz
 C = 220 V / 50 Hz

Element	No. of Elements ²	Element Length ²	Element Media - 1st Filter	Element Media - 2nd Filter
	1	09	Z01 = 1 µm Excellement® Z-Media® (synthetic)	Z01 = 1 µm Excellement® Z-Media® (synthetic)
	2	18	Z03 = 3 µm Excellement® Z-Media® (synthetic)	Z03 = 3 µm Excellement® Z-Media® (synthetic)
	3	27	Z05 = 5 µm Excellement® Z-Media® (synthetic)	Z05 = 5 µm Excellement® Z-Media® (synthetic)
			Z10 = 10 µm Excellement® Z-Media® (synthetic)	Z10 = 10 µm Excellement® Z-Media® (synthetic)
			Z25 = 25 µm Excellement® Z-Media® (synthetic)	Z25 = 25 µm Excellement® Z-Media® (synthetic)
			EWR = Water Removal	EWR = Water Removal
			G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			GWR = Water Removal w/GeoSeal®	GWR = Water Removal w/GeoSeal®

Seal Material

B = Buna
 V = Viton®

Pump Size

9 = 9 gpm
 D = DC drive, variable flow, 3-8 gpm

Water Sensor³

W = TestMate® Water Sensor

¹ A plug is not provided for options B & C (220 V). If C is chosen, flow rate will be reduced to 7 and 6 gpm.

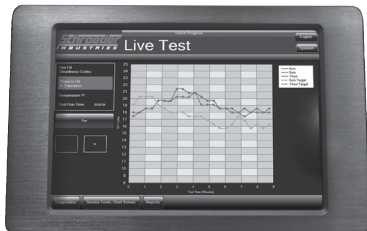
² If No. of Elements = 1, Element Length must be either 18 or 27;
 If No. of Elements = 2 or 3, Element Length must be 09.

³ The water sensor is to be used as a reference tool for hydraulic oil analysis purposes only.

Asset Management Filtration Station®

AMFS

5 gpm - 19 L/min



Features and Benefits

- Complete tracking of hydraulic fluid conditions by equipment name
- Provides automatic record-keeping, trending and analysis of the fluid
- Ideal for managing multiple equipment assets
- Automatically shuts down when the selected ISO cleanliness is reached
- Dual staged filters for both water and/or contaminated removal bypass valve allows cart to be used as a transfer cart
- Real Time data displays cleanliness and water saturation
- Selectable ISO target levels
- Only 3 entry fields needed to start the system and record data
- Hoses and connection tubes included (13' total length)

Applications

- In-Plant Service: Filter to desired cleanliness levels and extend component life
- Mobile Dealer Networks: Aid in certified re-builds, service maintenance contracts and total maintenance & repair programs
- Industry
- Paper Industry
- Power Generation
- Mobile Vehicles
- Steel Making

Description

The Asset Management Filtration Station® (AMFS) is a complete fluid management system designed to manage fluid cleanliness, so that the greatest return of that asset is achieved. The AMFS is an all-in one system that monitors your fluid condition, filters out contaminants and tracks all the necessary data needed for trend analysis and record keeping by asset number or name. The on-board rugged PC records the ISO code and water saturation level, provides a graphical display of the data in real time and shuts down when the selected cleanliness level is reached. Each asset file created automatically is separately labeled and summarized to quickly inform maintenance on the condition of the fluid, and each run of the fluid is logged by date and time, providing a complete history of the equipment's fluid.

Specifications

Flow Rating:	5 gpm (19 L/min)
Motor:	1.5 HP - 15 FLA at 120 volts AC
Viscosity Range:	60 - 1,000 SUS (10 - 216 cSt)
Operating Temperature:	-20°F to 150°F (-29°C to 65°C)
Bypass Valve Setting:	Cracking: 30 psi (2 bar) x 2
Compatibility:	All petroleum-based hydraulic fluid compatible with Viton®
Element Change Clearance:	17.5" KK / 26.5" 27K
Weight:	200 lbs (440 kg) approx.
Dimensions:	26.6" x 25.25" x 50.0" (675 x 641 x 1270 mm)

*Note: Optional front caster set PN: 7627132 includes (2) plate mount swivel casters with brake, installation hardware and mounting instructions.

Element Performance Information

GeoSeal® Element	Filtration Rating Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Filtration Rating wrt ISO 16889 Using APC calibrated per ISO 11171	
	$\beta_x \geq 75$	$\beta_x \geq 100$	$\beta_x \geq 200$	$\beta_x(c) \geq 200$	$\beta_x(c) \geq 1000$
KKGZ3/27KGZ3	<1.0	<1.0	<2.0	4.0	4.8
KKGZ5/27KGZ5	2.5	3.0	4.0	4.8	6.3
KKGZ10/27KGZ10	7.4	8.2	10	8.0	10.0

Dirt Holding Capacity

GeoSeal® Element	DHC (gm)	GeoSeal® Element	DHC (gm)
KKGZ3V	230	27KGZ3V	345
KKGZ5V	238	27KGZ5V	357
KKGZ10V	216	27KGZ10V	324

How to Build a Valid Model Number for a Schroeder AMFS:

AMFS –

	–	
Voltage		Element

Voltage¹

A = 120 V / 60 Hz
B = 220 V / 60 Hz
C = 220 V / 50 Hz

Element	No. of Elements ²	Element Length ²	Element Media - 1st Filter	Element Media - 2nd Filter
	1	18 27	G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® GWR = Water Removal w/ GeoSeal®	G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal® GWR = Water Removal w/ GeoSeal®



Features and Benefits

- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- Modular base eliminates connections between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- D5 Dirt Alarm® indicates when filter element needs changed
- Two 7/16 – 20 UNF sampling port included on all models (upstream)
- Suction strainers to protect pump
- Optional CSI-C-11 Communication Interface for
- WLAN or LAN transmission of data and data storage capabilities

Applications

- Supplementing in-line filtration by system filters when adequate turnover cannot be attained
- Large volume systems requiring multiple filters in different locations
- Cleaning up a hydraulic system following component replacement

Description

Schroeder's off-line Kidney Loop System is a stationary version of the Mobile Filtration System. It is a compact, self-contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. This off-line system can be used to supplement in-line filters when adequate turnover cannot be achieved in the system. It is also ideal for free water removal. Like the Mobile Filtration System, the Kidney Loop System operates at a surprisingly low noise level. Its modular base eliminates hoses and fittings between components. The KLS single filtration unit can remove either water or particulate contamination. The KLD dual filtration unit can be used to remove both water and particulate contamination, or for staged particulate contaminant removal.

Contamination Sensor for Remote Visibility Options

HY-TRAX® manual fluid sampling system: Schroeder now offers the HY-TRAX® manual fluid sampling system as an additional option allowing for real-time fluid condition monitoring. ISO particle counts are visually displayed on the TCM. Users will now know when they have reached their desired ISO contamination levels.

CSI-C-11: Schroeder also offers the CSI-C-11 Communication Interface for WLAN or LAN transmission of data and data storage capabilities.

Specifications

Flow Rating:	7 gpm (26.5 L/min) max and 14 gpm (53.0 L/min) max	
Viscosity Range:	0 - 1,000 SUS (4 - 216 cSt) Higher viscosity version available. Contact factory for details.	
Fluid Temperature:	25°F to 150°F (-4°C to 65°C)	
Bypass Valve Setting:	Cracking: 30 psi (2 bar)	
Material:	Manifold and cap: Cast aluminum Element case: Steel	
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.	
Motor:	115 VAC single phase 3/4 hp (7 gpm), 1-1/2 hp (14 gpm), or 230 and 460 VAC 3 phase power optional	
Weight:	KLS-1: 101 lb (45.9 kg) KLS-2: 112 lb (50.9 kg) KLS-3: 123 lb (55.9 kg)	KLD-1: 117 lb (53.2 kg) KLD-2: 139 lb (63.2 kg) KLD-3: 161 lb (73.2 kg)
Element Change Clearance:	8.50" (215 mm) 1K	

How to Build a Valid Model Number for a Schroeder KLS / KLD:

Model	Element	Seal Material	Voltage	Pump Size (gpm)	Particle Counter

Model

Model				
	KLS KLD			
Element	No. of Elements ¹	Element Length ¹	Element Media - 1st Filter	Element Media - 2nd Filter (KLD only) ²
	1	09	Z01 = 1 µm Excellement® Z-Media® (synthetic)	Z01 = 1 µm Excellement® Z-Media® (synthetic)
	2	18	Z03 = 3 µm Excellement® Z-Media® (synthetic)	Z03 = 3 µm Excellement® Z-Media® (synthetic)
	3	27	Z05 = 5 µm Excellement® Z-Media® (synthetic)	Z05 = 5 µm Excellement® Z-Media® (synthetic)
			Z10 = 10 µm Excellement® Z-Media® (synthetic)	Z10 = 10 µm Excellement® Z-Media® (synthetic)
			Z25 = 25 µm Excellement® Z-Media® (synthetic)	Z25 = 25 µm Excellement® Z-Media® (synthetic)
			EWR = Water Removal	EWR = Water Removal
			G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			GWR = Water Removal w/GeoSeal®	GWR = Water Removal w/GeoSeal®

Seal Material

B = Buna
V = Viton®

Voltage³

Omit = 115 V / 60 Hz / 1-Phase
A = 230 V / 60 Hz / 3-Phase
B = 460 V / 60 Hz / 3-Phase
C = 220 V / 50 Hz / 1-Phase
D = 230 V / 60 Hz / 1-Phase

Pump Size

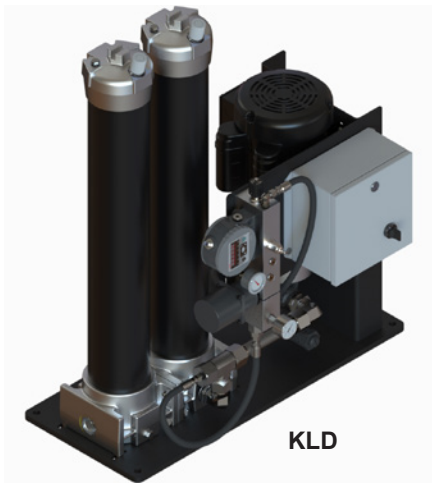
07
14

Particle Counter⁴

Omit = Without Particle Counter
P = Particle Counter
P-CSI = Particle Counter + CSI-C-11 Option
P-CSI-W = Particle Counter + CSI-C-11 + Water Sensor (No Display) Option

- ¹ When No. of Elements equals 2 or 3, Element Length must be 09.
² When KLD is ordered, the number of elements, element length, and seals will be identical for both filter housings.
³ Motor starter is included with 3-Phase options A and B.
⁴ Particle counter option only available on 115 V / 60 Hz units. Particle counter is not available with Skydrol fluids.

Contact factory if EPR seals are required. Contact factory for high viscosity version.



KLD



- Usable with FluMoS Mobile App - HY-TRAX® option only
- CSI-C-11 Compatible

Features and Benefits

- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- Base-ported filter provides easy element service from the top cap
- D5 Dirt Alarm® indicates when filter element needs changed
- Two 7/16 – 20 UNF sampling port included on all models (upstream)
- Suction strainers to protect pump
- Optional CSI-C-11 Communication Interface for
- WLAN or LAN transmission of data and data storage capabilities

Applications

- Supplementing in-line filtration by system filters when adequate turnover cannot be attained
- Large volume systems requiring multiple filters in different locations
- Cleaning up a hydraulic system following component replacement

Description

Schroeder's off-line Kidney Loop System is a stationary version of the Mobile Filtration Medium Viscosity System. It is a compact, self-contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. This off-line system can be used to supplement in-line filters when adequate turnover cannot be achieved in the system. It is also ideal for free water removal. Like the Mobile Filtration System, the Kidney Loop System operates at a surprisingly low noise level. The KLS-MV single filtration unit can remove either water or particulate contamination. The KLD-MV dual filtration unit can be used to remove both water and particulate contamination, or for staged particulate contaminant removal.

Contamination Sensor for Remote Visibility Options

HY-TRAX® manual fluid sampling system: Schroeder now offers the HY-TRAX® manual fluid sampling system as an additional option allowing for real-time fluid condition monitoring. ISO particle counts are visually displayed on the TCM. Users will now know when they have reached their desired ISO contamination levels.

CSI-C-11: Schroeder also offers the CSI-C-11 Communication Interface for WLAN or LAN transmission of data and data storage capabilities.

Specifications

Flow Rating:	6 gpm (22.7 L/min) max and 10 gpm (37.0 L/min) max
Viscosity Range:	40 - 5,000 SUS (4 - 1000 cSt)
Fluid Temperature:	25°F to 150°F (-4°C to 65°C)
Bypass Valve Setting:	Cracking: 30 psi (2 bar)
Material:	Manifold and cap: Cast aluminum Element case: Steel
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.
Motor:	115 VAC single phase 1 hp (6 gpm), 1-1/2 hp (10.4 gpm), or 230 and 460 VAC 3 phase power optional.
Element Change Clearance:	8.50" (215 mm) 1K

How to Build a Valid Model Number for a Schroeder KLS-MV / KLD-MV:

Model	Element	Seal Material	Voltage	Pump Size (gpm)	Particle Counter

Model

KLS
KLD

Element	No. of Elements ¹	Element Length ¹	Element Media - 1st Filter	Element Media - 2nd Filter (KLD only) ²
	1	09	G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
	2	18	G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
	3	27	G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®	G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
			GWR = Water Removal w/GeoSeal®	GWR = Water Removal w/GeoSeal®

Seal Material

V = Viton®

Voltage³

Omit = 115 V / 60 Hz / 1-Phase
A = 230 V / 60 Hz / 3-Phase
B = 460 V / 60 Hz / 3-Phase
C = 220 V / 50 Hz / 1-Phase
D = 230 V / 60 Hz / 1-Phase

Pump Size

06
10

Particle Counter⁴

Omit = Without Particle Counter
P = Particle Counter
P-CSI = Particle Counter + CSI-C-11 Option
P-CSI-W = Particle Counter + CSI-C-11 + Water Sensor (No Display) Option

¹ When No. of Elements equals 2 or 3, Element Length must be 09.

² When KLD is ordered, the number of elements, element length, and seals will be identical for both filter housings.

³ Motor starter is included with 3-Phase options A and B.

⁴ Particle counter option only available on 115 V / 60 Hz units. Particle counter is not available with Skydrol fluids.

KLD-HV

3 gpm - *11.4 L/min*



KLD-HV

Features and Benefits

- Rugged, protective frame with integrated lifting eyes for lifting the filter skid via crane or hoist
- Ability to filter fluids having a viscosity up to 15,000 SUS
- Modular base eliminates hoses between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- 18-inch housing is standard

Applications

- Compact design in protective frame allows for easy transport up tower in wind applications
- Supplementing continuous filtration by the system's filters
- Cleaning up a hydraulic system following component replacement
- Filtering new fluid before it is put into service
- Transferring fluid from storage tanks and drums to system reservoirs

Description

Schroeder's newest addition to the off-line kidney loop family offers the user the ability to filter high viscosity fluids - up to 15,000 SUS.

The KLD-HV is a compact, self-contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. It is perfect for cleaning up existing systems as well as for prefiltering new fluids, since new fluids often have contamination levels significantly higher than that recommended for most hydraulic systems.

The KLD-HV dual filtration unit can be used to remove both water and particulate contamination or for staged particulate contamination removal. Additional features include a modular base that eliminates hoses and fittings between components with easy to change element design.

Specifications

Flow Rating:	3 gpm (11.74 L/min) max
Maximum Viscosity:	15,000 SUS (2150 cSt)
Maximum Operating Temperature:	-20°F to 150°F (29°C to 65°C)
Bypass Valve Setting:	Cracking: 40 psi (2.8 bar)
Material:	Manifold and cap: Cast aluminum Element case: Steel Protective Frame: Tubular Steel
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.
Motor:	115V AC single phase 1.5 HP

How to Build a Valid Model Number for a Schroeder KLD-HV:

KLD-HV –

	–		–	
Element		Seal Material		Pump Size (gpm)

Element	Element Length	Element Micron Rating	Element Micron Rating
	18	G03, G05, G10 = Excellement® Z-Media® 	



AKD



AKS

Features and Benefits

- Modular base eliminates connections between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- D5 Dirt Alarm® indicates when filter element needs changed
- Two 7/16 – 20 UNF sampling port included on all models (upstream)
- Suction strainers to protect pump

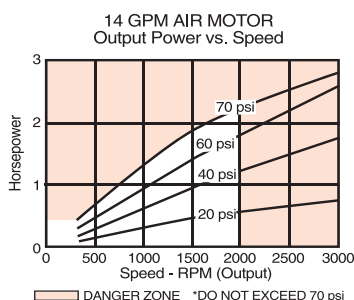
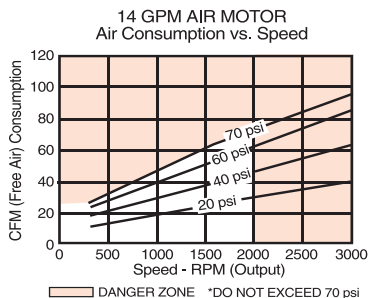
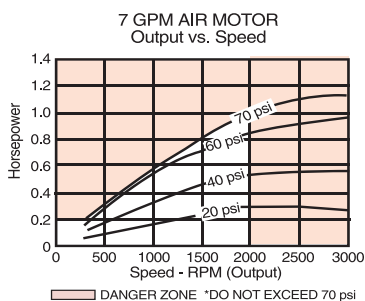
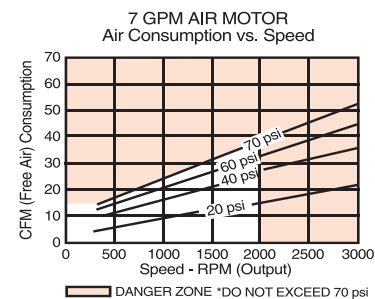
Applications

- Supplementing in-line filtration by system filters when adequate turnover cannot be attained
- Large volume systems requiring multiple filters in different locations
- Cleaning up a hydraulic system following component replacement
- Ideal location for water removal
- Field applications on service trucks

Description

Schroeder offers a kidney loop filtration system with a pneumatic motor in place of the standard electric motor. The pneumatic motor offers the same flow capability using the same components, but without the need for an electrical outlet. This provides a major advantage in the application of this unit. With no need for an electrical outlet, it is more portable than the standard electric-motored skids and carts.

Because most trucks and industrial machinery are already equipped with an air compressor, a simple connection to the 1/4" NPT port will easily power the 1.5 HP (or 4.0 HP) motor. At 70 psi, and 2000 rpm, this motor consumes less than 40 cfm (70 cfm for the 4.0HP motor) of compressed air. Because no electricity is used, the pneumatic motor is ideal for working in hazardous environments such as mines.



Note: Performance data represents a 4-vane model with no exhaust restriction.

Specifications

Flow Rating:	7 gpm (26.5 L/min) max and 14 gpm (53.0 L/min) max	
Maximum Viscosity:	1,000 SUS (216 cSt) Higher viscosity version available. Contact factory for details.	
Fluid Temperature:	25°F to 150°F (-4°C to 65°C) For higher temperature applications contact factory.	
Bypass Valve Setting:	Cracking: 30 psi (2 bar)	
Material:	Manifold and cap: Cast aluminum Element case: Steel	
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.	
Element Change Clearance:	8.50" (215 mm) 1K	
Weight:	AKS2 = 98 lbs. (44 kg.) AKS3 = 108 lbs. (49 kg.)	AKD2 = 120 lbs. (54 kg.) AKD3 = 142 lbs. (64 kg.)

How to Build a Valid Model Number for a Schroeder AKS / AKD:

	-		-		-	
Model		Element		Seal Material		Pump Size (gpm)

Model

	AKS AKD		
Element	No. of Elements/ Element Length	Element Media - 1st Filter	Element Media - 2nd Filter (AKD only)
	1-18 1-27 2-09 3-09	Z01 = 1 µm Excellement® Z-Media® (synthetic) Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® GWR = Water Removal w/GeoSeal®	Z01 = 1 µm Excellement® Z-Media® (synthetic) Z03 = 3 µm Excellement® Z-Media® (synthetic) Z05 = 5 µm Excellement® Z-Media® (synthetic) Z10 = 10 µm Excellement® Z-Media® (synthetic) Z25 = 25 µm Excellement® Z-Media® (synthetic) EWR = Water Removal G03 = 3 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G05 = 5 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G10 = 10 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® G25 = 25 µm Excellement® Z-Media® (synthetic) w/ GeoSeal® GWR = Water Removal w/GeoSeal®

Seal Material¹

B = Buna

Pump Size²

07
14

¹ When AKD is ordered, the number of elements, element length, and seal will be identical for both filter housings.

² 07 gpm - 50 CFM at 70 psi; 14 gpm - 70 CFM at 70 psi

Varnish Mitigation Unit 1/4 Series

VMU

VMU 1 ≈ 0.58 gpm - **2.2 L/min**

VMU 4 ≈ 2.4 gpm - **8.9 L/min**



Features and Benefits

- Removal of solid or gel-type oil aging products
- Operating reliability of the system is increased because there are fewer deposits in hydraulic components
- Increases oil service life
- Available as a complete unit for service, and as a modular system for retrofitting existing bypass circuit or for OEM

Description

The user-friendly Varnish Mitigation Unit is designed to condition mineral oils. The VMU is particularly effective at removing oil aging products (varnish) from mineral oils.

Varnish takes the form of insoluble oil aging products which settle in reservoirs, valves and bearings. These can be non-filterable gels or solid paint-type deposits.

The VMU series offline filtration system removes varnish through adsorption on an active filter element surface.

Specifications

Hydraulic Data

MPC Values Achievable:	< 20
Flow Rate:	VMU 1 ≈ 0.58 gpm (≈ 2.2 l/min) VMU 4 ≈ 2.4 gpm (≈ 8.9 l/min)
Fluid Temperature:	86 to 140 °F (30 to 60 °C)
Max. Operating Pressure:	87 psi (6 bar)
Permissible Suction Pressure at Suction Inlet IN:	2.9 to 14.5 psi (-0.2 to 1 bar)
Viscosity Range:	78 to 370 SUS (15 to 80 cSt)
Permissible Operating Fluid:	Mineral-based fluids
Connections IN / OUT:	1/2"-20 male JIC / 1/2-20 female o-ring boss
Pump Type:	Gear

Electrical Data

Power Supply Voltage:	See ordering details
Power Consumption:	0.25 to 0.6 kW / 16 Amps

Ambient Conditions

Operating Temperature Range:	32 to 104 °F (0 to 40 °C)
Storage Temperature Range:	32 to 140 °F (0 to 60 °C)
Relative Humidity:	0 to 80%, non-condensing
Protection Class to DIN 40050:	IP 55

General Data

Length of Electrical Connection Cable:	5' (1.5 m)
Sealing Material:	FKM (Viton®)
Sound Level at 1m:	< 80 dB(A)
Weight* (empty):	VMU 1 = 155 lbs (70 kg), VMU 4 = 660 lbs (300 kg)
Fluid Cleanliness Required:	ISO 19/17/14 (ISO 4406:1999) 9A/9B/9C (SAE AS4059)

How to Build a Valid Model Number for a Schroeder VMU:

VMU –

Series	Type	Type of Pump	Power Supply Voltage	Prefilter	Clogging Indicator	Postfilter	Supplementary Details

Series

- 1** = 1x Varnish Mitigation element NAVME ≈ 0.5 gpm (2.2 l/min)
- 4** = 4x Varnish Mitigation elements NAVME ≈ 2.5 gpm (8.9 l/min)

Type

- M** = Mobile
- S** = Stationary

Type of Pump

- G** = Gear Pump
- Z** = Without

Power Supply Voltage

- F** = 230 V, 60 Hz, 3 Ph
- K** = 115 V, 60 Hz, 1 Ph
- O** = 460 V, 60 Hz, 3 Ph (standard)

Pre-filter

- G05** = With 5µm element
- G10** = With 10µm element

Clogging Indicator

- BM** = differential pressure indicator – visual
- C** = differential pressure indicator – electrical

Post-filter

- G05** = With 5µm element
- G10** = With 10µm element

Supplementary Details

- PKZ** = with on-off switch and overload protective motor switch (standard)
- FA1*** = with on-off switch, overload protective motor switch and cut-out when filter clogged (requires neutral wire in power supply)
- FA2*** = with on-off switch, overload protective motor switch and cut-out when filter clogged (does not require neutral wire in power supply)

* When AKD is ordered, the number of elements, element length, and seal will be identical for both filter housings.

Ion eXchange Unit

IXU

.5 - 2.5 gpm - **1.9 - 9.5 L/min**

IXU-1



NOTES: No connection lines included

Features and Benefits

- Longer oil change intervals
- Increase in the lifetime of operating fluids and components
- Higher machine availability
- Reduction in functional problems, e.g. with servo valves
- Easy to service unit through
 - Component replacement without tools}
 - Filter elements can be removed with the cover pointing “upward”
- Ideal to combine with type SVD Dewatering Units
- Available to service as complete unit, modular system for retrofitting existing bypass circuits or for OEM
- Visual Dirt Alarm® provided on all models
- Sold in North America only.

Applications

- Power plants
- Steel industry
- Other applications with ester-based, flame resistant fluids

Description

Schroeder offers a kidney loop filtration system with a pneumatic motor in place of the standard electric motor. The pneumatic motor offers the same flow capability using the same components, but without the need for an electrical outlet. This provides a major advantage in the application of this unit. With no need for an electrical outlet, it is more portable than the standard electric-motored skids and carts.

Because most trucks and industrial machinery are already equipped with an air compressor, a simple connection to the 1/4" NPT port will easily power the 1.5 HP (or 4.0 HP) motor. At 70 psi, and 2000 rpm, this motor consumes less than 40 cfm (70 cfm for the 4.0HP motor) of compressed air. Because no electricity is used, the pneumatic motor is ideal for working in hazardous environments such as mines.

Specifications

Neutralization Number:	< 0.1 mg KOH/g possible
Flow Rating:	IXU-1: 0.5 gpm (1.9 l/min) IXU-4: 2.5 gpm (9.5 l/min)
Max. Operating Pressure:	116 psi (7.99 bar)
Suction Pressure @ Inlet:	-5.8 to 14.5 psi (-0.4 to 1 bar)
Viscosity Range:	80 to 400 SUS (15 to 80 cSt)
Fluid Compatibility:	HFD-R (Fire-Resistant / Phosphate-Based Fluids)
Operating Temperature:	32°F to 104°F (0 to 40°C) <80% = Relative humidity (non-condensing)
Hydraulic Connection:	1/2" (-8) Male JIC Inlet and Outlet
Seals:	Viton®
Pump Type:	Gear
Power Consumption:	0.25 - 0.6 kW, depending on motor and voltage
Length of Electrical Cable:	30 ft. (10 m)
Noise Level:	<80 dB at 3 feet (1 m)
Storage Temperature:	32°F to 140°F (0°C to 60°C)

How to Build a Valid Model Number for a Schroeder IXU:

IXU –

Series	Type	Type of Pump	Power Supply Voltage	Prefilter	Clogging Indicator	Postfilter	Supplementary Details

Flow Rate

- 1 = 0.5 gpm (1.9 l/min)
4 = 2.5 gpm (9.5 l/min)

Transport

- M = Mobile
S = Stationary

Pump

- G = Gear Pump

Connection Voltage

- Omit = 115 V / 60 Hz, 3 Phase
B = 460 V / 60 Hz, 3 Phase
E = 575 V / 60 Hz, 3 Phase

Pre-filter

- 05 = w/ 5µm Element
10 = w/ 10µm Element
G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®

Clogging Indicator

- C = Differential Pressure Indicator – Electrical

Pre-filter

- 05 = w/ 5µm Element
10 = w/ 10µm Element
G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®

Accessories

- FA1 = with on/off switch, overload protective motor switch and cut-out when filter clogged (requires neutral wire in power supply)
FA2 = with on/off switch, overload protective motor switch and cut-out when filter clogged (does not require neutral wire in power supply)

Ion eXchange Unit Replacement Elements*

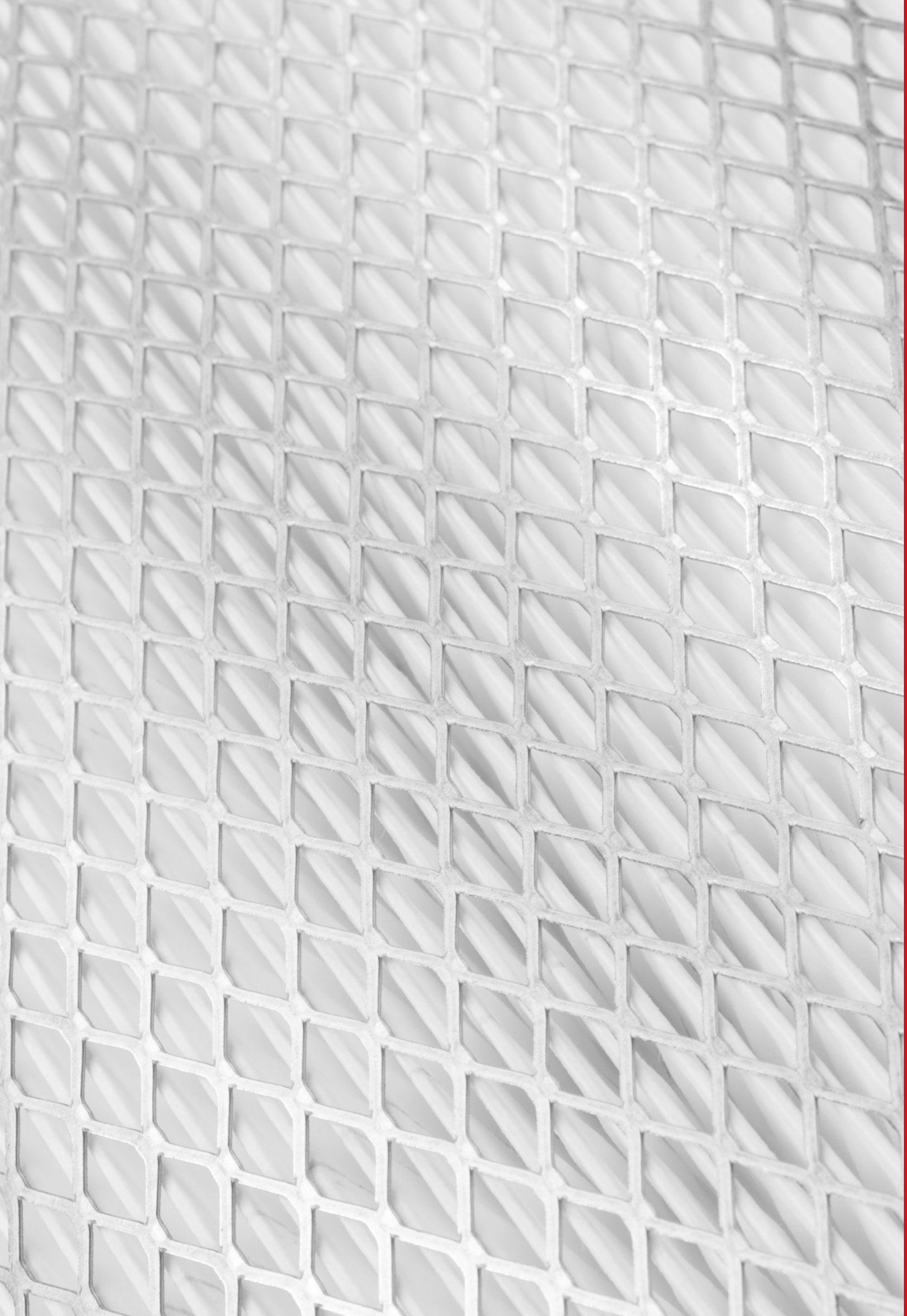
Model Code	P/N	Description
IXE36-5.5	3348961	Standard Ion Exchange Resin Element
KKZ5V	7615359	5 Micron Pre/Post Element
KKZ10V	7628656	10 Micron Pre/Post Element

* IonExchange Element is not included with unit and is to be ordered separately



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Section 3: ***FUEL FILTRATION***



GeoSeal® High-Flow Particulate Filter

GHPF

150 psi - 10.3 bar

100 gpm - 380 L/min



Features and Benefits

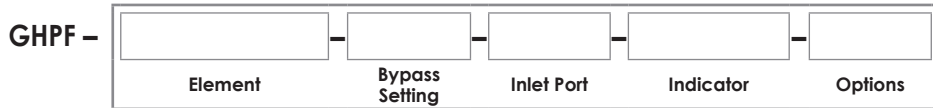
- Diesel fuel particulate filter for dispensing, transfer or polishing filtration applications
- Uses patented GeoSeal® elements
- All-aluminum filter housing is fully compatible with diesel and biodiesel
- Minimal clearance needed for element service, ideal for enclosure installations
- Cartridge style element improves performance and reduces waste compared to spin-on solutions
- Port to port and mounting pattern dimensions match standard spin-on assembly

Model No. of filter in photograph:
GHPF11GGZ3VS24D5R

Filter Housing Specifications

Flow Rating:	Up to 100 gpm (380 L/min)
Max. Operating Pressure:	Operating Pressure: 150 psi (10.3 bar)
Min. Yield:	2600 psi (179 bar)
Temp. Range:	-20°F to 225°F (-29°C to 107°)
Bypass Setting:	Cracking: 40 psi (2.8 bar)
Porting Head:	Cast Aluminum, Anodized
Element Case:	Aluminum, Anodized
Weight of GHPF:	7.64 lbs. (3.47 kg)
Element Change Clearance:	2" (51 mm)

How to Build a Valid Model Number for a Schroeder GHPF:



Element	Element Length & Series	Element Media	Micron Rating	Element Seal Material
	11GG	Z = Excellement® Z-Media® (synthetic)	1 = (1 µm, Z media) 3 = (3 µm, Z media) 5 = (5 µm, Z media) 10 = (10 µm, Z media) 25 = (25 µm, Z media)	V = Viton®
Bypass Setting				
	Omit = 40 psid			
Inlet Port				
	S24 = SAE-24 P24 = 1.5" NPTF			
Indicator	Indicator	Orientation		
	D5 = Visual pop-up w/ manual reset	R = Right side L = Left side		
Options				
	Omit = Included Sight Glass and Manual Water Drain Valves U = Downstream Test Point			

GeoSeal® High-Flow Coalescing Filter

GHCF

150 psi - 10.3 bar

15 gpm (900 gph) - **3410 L/hr (57 L/min)** for suction installations

25 gpm (900 gph) - **95 L/min** for pressure installations



Model No. of filter in photograph is:
GHCFCG5VS24D5R

Features and Benefits

- Versatile diesel fuel coalescing filter suitable for both pressure and suction side applications, including:
 - Large engine primary fuel filtration
 - Bulk fuel dispensing
 - Transfer filtration
 - Tank polishing
- Uses patented GeoSeal® elements
- All-aluminum filter housing is fully compatible with diesel and biodiesel blends
- Minimal clearance needed for element service, ideal for enclosure installations
- Cartridge style element improves performance and reduces waste compared to spin-on solutions
- A compact design with reduced dimensions compared to similar cartridge filter and spin-on solutions on the market

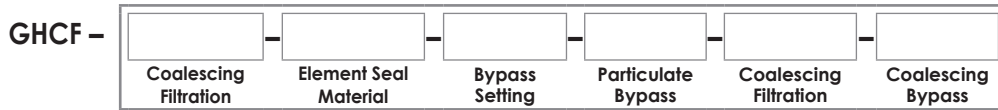
Fluid Compatibility - Fuel Oils

- Ultra-Low Sulfur Diesel (ULSD15)
- Low Sulfur Diesel (LSD500)
- Biodiesel Blends of Up to 20% (B20)
- Synthetic (GTL) and Renewable Diesel Fuel (HVO)
- Other Light Distillate Petroleum with a Flash Point of >125°F (52°C)

Filter Housing Specifications

Flow Rating:	For Pressure Installations - Up to 25 gpm (95 L/min) For Suction Installations - Up to 900 gph (Up to 3410 L/hr [57 L/min])
Max. Operating Pressure:	150 psi (10.3 bar)
Min. Yield:	1189 psi (82 bar)
Temp. Range:	32°F to 225°F (0°C to 107°C) Standard; -20°F to 225°F (-29°C to 107°C) Heater Option
Bypass Setting:	For Pressure Installations - 40 psi (2.8 bar) For Suction Installations - Blocked Bypass
Porting Head:	Cast Aluminum, Anodized
Element Case:	Aluminum, Anodized
Sump:	Cast Aluminum, Anodized
Weight of GHCF:	19.45 lbs. (8.82 kg)
Element Change Clearance:	4.5" (114 mm)

How to Build a Valid Model Number for a Schroeder GHCF:



Coalescing Filtration

CG5 = C125GZ5V Coalescing Element

Element Seal Material

V = Viton®

Bypass Setting

Omit = 40 psid

X = Blocked Bypass

Inlet Port

S24 = SAE-24

P24 = 1.5" NPTF

Indicator

Indicator

D5 = Visual pop-up w/ manual reset

Omit = Blocked Indicator Ports (both)

Orientation

R = Right side

L = Left side

Omit = None (Blocked Indicator Ports)

Options

Omit = Sump Sight Glass (standard)

UU = Upstream & Downstream Test Point

T = WIF Sensor Only (-AS16 Active Sensor)

I = WIF Sensor w/ Indicator Lamp

H = Sump Heat (74W)

S5 = 5 gal. Water Collection Tank

S20 = 20 gal. Water Collection Tank

AWD5 = Auto Water Drain w/ 5 gal. Collection Tank

AWD20 = Auto Water Drain w/ 20 gal. Collection Tank

*Contact factory for other options not listed in the model code builder

Bulk Diesel Filter

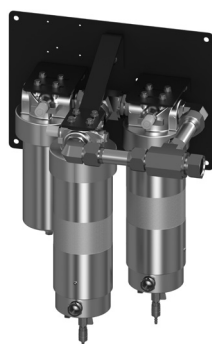
BDF

150 psi - 10 bar

25-50 gpm - 95-189 L/min



Model no. of filter
in photograph:
BDF111GGZ3CG5VD5



Model no. of filter
in photograph:
BDF211GGZ3CG5VD5

Features and Benefits

- Fuel dispensing and transfer filtration solution with choice of integral or blocked bypass to suit application
- Designed with integrated particulate removal pre-filtration for downstream coalescing filter protection and extended element life
- Routine element change only needed on particulate pre-filter, which saves time and money
- Patented GeoSeal® element sealing interface ensures quality element replacement
- Particulate filtration available at 1 or 3 microns utilizing synthetic Z-Media® element for better contamination control
- Patented, three-phase, particulate and fuel/water separation media technology
- Housing design allows for field upgrade of any available option
- Complete automation is achievable with a water and fuel sensor and fail-safe auto-drain feature using a remote 5 gallons (18L) or 20 gallons (75L) sump with alarm and auto shutdown in application >32°F (0°C)
- Easy mounting and element service

Fluid Compatibility - Fuel Oils

- ULSD15, low sulfur diesel and high sulfur diesel
- Biodiesel blends
- Synthetic diesel and blends
- No. 2 fuel oil and heating oil

Filter Housing Specifications

Flow Rating:	BDF1: up to 25 gpm (95 L/min)	BDF2: up to 50 gpm (189 L/min)
Inlet/Outlet Connection:	-24 (ORB) SAE J1926	
Max. Operating Pressure:	150 psi (10 bar)	
Temp. Range:	-20°F to 225°F (-29°C to 107°C) w/ optional water sump heater, 32°F to 225°F (0°C to 107°C) without heater, with standard features and AWD options	
Bypass Indication:	<u>Particulate Filter</u> 35 psi (2.4 bar)	<u>Coalescing Filter</u> 35 psi (2.4 bar)
Bypass Valve Cracking:	<u>Particulate Filter</u> 40 psi (2.8 bar)	<u>Coalescing Filter</u> 40 psi (2.8 bar)
Materials of Construction:	Particulate & Coalescing Filter Porting Head: Cast Aluminum, Anodized Element Case: Aluminum, Anodized	Coalescing Filter Only Sump: Cast Aluminum, Anodized
Weight:	BDF1: 46.5 lbs	BDF2: 89 lbs
Element Change Clearance:	<u>Particulate Filter</u> 2" (51 mm)	<u>Coalescing Filter</u> 4.5" (114 mm)
Opt. Water Sump Heater:	120VAC, 1 x 74W (BDF1) / 2 x 74W (BDF2)	
Opt. Visual Electrical Indicator:	120VAC	

How to Build a Valid Model Number for a Schroeder BDF:

BDF –

Flow Rate	Particulate	Coalescing	Seal Material	Indicator	Options

Flow Rate

- 1 = 25 gpm
2 = 50 gpm

Particulate

Particulate Coalescing

- 11GGZ1 = 1 µm
11GGZ3 = 3 µm

Particulate Bypass

- Omit = 40 psi
X = Blocked Bypass

Coalescing

Coalescing Filtration

- CG5 = C125GZ5V
Coalescing Element

Coalescing Bypass

- Omit = 40 psi
X = Blocked Bypass

Seal Material

- V = Viton®

Indicator

- DS = Visual Pop-up, Manual Reset

Options

- Omit = Included Sight Glass and Manual Water Drain Valves
U = Downstream Test Point
T = Water-In-Fuel (WIF) Sensor Only
I = WIF Sensor w/ Remote Mount Light Indicator
H = Coalescing Sump Heater
S5 = 5 gal. Remote Tank
S20 = 20 gal. Remote Tank
AWD5 = Auto. Water Drain w/ 5 gal. Remote Tank
AWD20 = Auto. Water Drain w/ 20 gal. Remote Tank

Bulk Diesel Filter Cart

BDFC

14 or 25 gpm - *53 or 95 L/min*



Model no. of filter in photograph is:
BDFC11GGZ3CG5VD525

Application Introduction

The BDFC is ideal for those wanting to maintain clean fuel in their bulk storage tanks. The new BDFC provides exceptional particulate filtration and continuous water removal with higher flow rates. The GHPF particulate pre-filter and GHCF coalescing water removal filters feature Schroeder Industries' GeoSeal® patented aftermarket solution, ensuring quality replacement elements are used with every element change. These elements use the fully synthetic Excellement Z-Media® and revolutionary coalescing media to fully protect vital diesel engine components from debris and water.

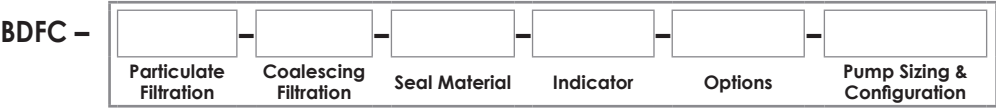
Features and Benefits

- Designed with integrated particulate removal pre-filtration for maximum coalescing filter element life in the downstream housing
- Routine element change only needed on GHPF particulate filter, keeping operating costs low
- Patented GeoSeal® elements designed to provide consistent quality with the highest single-pass water and particulate removal efficiencies in today's ultra-low sulfur diesel (ULSD) fuels
- All-aluminum filter housings and plumbing components are fully compatible with diesel and biodiesel
- Sight glass, Y-strainer, and upstream/downstream test points included
- 15' clear suction hose and rubber discharge hose with cam-and-groove connections and 3' wands
- At just under 28" wide, this cart will fit through standard doorways
- Electric motor includes 120VAC with resettable overload and 7' power cord
- Latching, resettable pressure indicators trip at 5 psi before bypass valve cracking, providing early warning to the operator of when to change the filter element

Filter Housing Specifications

Flow Rating:	Electric Motor Option: 14 gpm or 25 gpm (53 L/min or 95 L/min) Air Operated Option: 16 gpm or 25 gpm (61 L/min or 95 L/min)	
Ambient Environment Temperature Range:	-20°F to 104°F (-29°C to 40°C)	
Bypass Indication:	<u>Particulate Filter</u> Electric Motor: 35 psi (2.4 bar) Air Operated: 25 psi (1.7 bar)	<u>Coalescing Filter</u> Electric Motor: 35 psi (2.4 bar) Air Operated: 15 psi (1.0 bar)
Bypass Valve Cracking:	<u>Particulate Filter</u> Electric Motor: 40 psi (2.8 bar) Air Operated: 30 psi (2.1 bar)	<u>Coalescing Filter</u> Electric Motor: 40 psi (2.8 bar) Air Operated: 20 psi (1.4 bar)
Materials of Construction:	<u>Particulate Filter</u> Head: Cast Aluminum, Anodized Element Case: Aluminum, Anodized	<u>Coalescing Filter</u> Head: Cast Aluminum, Anodized Element Case: Aluminum, Anodized Sump: Cast Aluminum, Anodized
Weight:	131 lbs. (59.4 kg)	
Standard Operating Frequency & Phase:	60 Hz, Single Phase	
Full Load Amperage @ Operating Voltage:	13.4 A @ 115 VAC 7.2-6.7 A @ 208-230 VAC	
Service Factor Amperage @ Operating Voltage:	15.2 A @ 115 VAC 8.1-7.6 A @ 208-230 VAC	

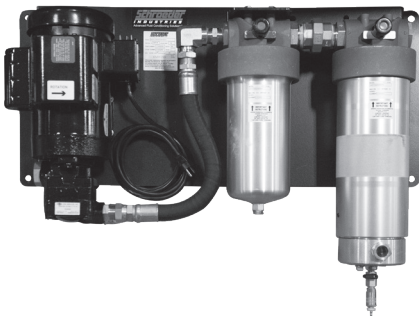
How to Build a Valid Model Number for a Schroeder BDFC:



Particulate Filtration	
	11GGZ1 = 1 µm 11GGZ3 = 3 µm
Coalescing Filtration	
	CG5 = C125GZ5V Coalescing Element
Seal Material ¹	
	V = Viton®
Indicator	
	D5 = Visual Pop-Up; Manual Reset
Options ²	
	Omit = Included Sight Glass, Y-Strainer & Upstream / Downstream Test Points I = Water-In-Fuel (WIF) Sensor w/ Indicator Light
Pump Sizing & Configuration	
	14 = 14 gpm 120VAC 60 Hz Single-Phase 16A = 16 gpm Air Driven 25 = 25 gpm 120VAC 60 Hz Single-Phase 25A = 25 gpm Air Driven

For 50Hz applications, contact factory
¹ Viton® is a registered trademark of DuPont Dow Elastomers
² "I" option is only available with electric motor configurations

Bulk Diesel Filtration Panel

BDFP14 or 25 gpm - *53 or 95 L/min*

Model no. of filter in photograph is:
BDFP11GGZ3CH5VD514

Application Introduction

A simple turn-key stationary fuel filtration system

The BDFP provides a simple turn-key stationary fuel filtration system for exceptional fuel transfer, polishing, and dispensing applications. Both filters combine Schroeder's fully synthetic Z-Media® in a particulate pre-filter, the GHPF, with our patent-pending coalescing water removal filter, the GHCF, to fully protect vital diesel engine components from dirt and water. The BDFP provides premium filtration in a simple system which can easily be integrated into new and existing fuel storage systems.

Features and Benefits

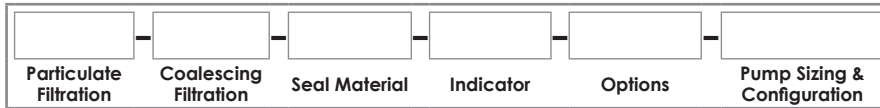
- Turn-key coalescing and filtration system, for use as a fuel transfer, polishing, and dispensing solution
- Incorporates high-efficiency particulate and water removal filtration into a stationary mounted system with pump
- Available with either electrical or air operated pump options for more system flexibility
- GHPF and GHCF filter housings use patented GeoSeal® elements
- All-aluminum filter housings are fully compatible with diesel and biodiesel
- Minimal clearance needed for element service, ideal for enclosure installations
- Routine element change only needed on GHPF particulate filter, reducing operating cost
- Patent-pending, three-phase particulate, coalescing and fuel/water separation media technology
- A revolutionary element designed for the highest single-pass water and particulate removal efficiencies in today's ultra-low sulfur diesel (ULSD) fluids
- Protects expensive Tier III and Tier IV engine components against failures caused by particulate and water transferred from the fuel storage tanks to the equipment
- Allows users to achieve or exceed the particulate and water removal specifications of the injection system OEMs

Filter Housing Specifications

Flow Rating:	Electric Motor Option: 14 gpm or 25 gpm (53 or 95 L/min) Air Operated Option: 16 or 25 gpm (53 or 95 L/min)	
Ambient Environment Temperature Range:	32°F to 104°F (0°C to 40°C) Standard; -20°F to 140°F (-29°C to 40°C) Heater Option	
Bypass Indication:	<u>Particulate Filter</u> Electric Motor: 35 psi (2.4 bar) Air Operated: 25 psi (1.7 bar)	<u>Coalescing Filter</u> Electric Motor: 35 psi (2.4 bar) Air Operated: 15 psi (1.0 bar)
Bypass Valve Cracking:	<u>Particulate Filter</u> Electric Motor: 40 psi (2.8 bar) Air Operated: 30 psi (2.1 bar)	<u>Coalescing Filter</u> Electric Motor: 40 psi (2.8 bar) Air Operated: 20 psi (1.4 bar)
Materials of Construction:	<u>Particulate Filter</u> Porting Head: Cast Aluminum, Anodized Element Bowl: Aluminum, Anodized	<u>Coalescing Filter</u> Porting Head: Cast Aluminum, Anodized Element Bowl: Aluminum, Anodized Sump: Cast Aluminum, Anodized
Weight:	130 - 150 lbs. (59 - 68 kg)	
Element* Change Clearance:	GHPF: 2" (51 mm); GHCF: 4" (102 mm)	
Operating Frequency:	60 Hz	
Operating Phase:	Single	
Full Load Amperage @ Operating Voltage:	13.4 A @ 115 VAC 7.2-6.7 A @ 208-230 VAC	
Service Factor Amperage @ Operating Voltage:	15.2 A @ 115 VAC 8.1-7.6 A @ 208-230 VAC	

How to Build a Valid Model Number for a Schroeder BDFP:

BDFP –



Particulate Filtration

11GGZ1 = 1 µm
11GGZ3 = 3 µm

Coalescing Filtration

CG5 = C125GZ5V Coalescing Element

Seal Material

V = Viton®

Indicator

D5 = Visual Pop-Up; Manual Reset

Options

Omit = Sight Glass (standard)
U = Downstream Test Point
T = Water-In-Fuel (WIF) sensor only
I = WIF sensor w/ remote mount light indicator
H = Coalescing sump heater
S5 = 5 gal. sump tank*
S20 = 20 gal. sump tank*
AWD5 = Auto. water drain w/ 5 gal. remote tank*
AWD20 = Auto. water drain w/ 20 gal. remote tank*
**only to be used in applications above 32°F (0°C)*

Pump Sizing & Configuration

14 = 14 gpm 120VAC 60Hz Single-Phase
25 = 25 gpm 120VAC 60Hz Single-Phase
16 = 16 gpm Air Driven Pump
25A = 25 gpm Air Driven Pump

Markets Served

Working with over 100 partners worldwide, Schroeder remains at the forefront in the fields of fluid conditioning, diagnostics, and specialized energy products. Our products and services benefit a broad range of industrial applications, including:

- Agriculture
- Automotive
- Bulk Fuels
- Chemical Processing
- Defense
- Environmental
- Forestry
- Industrial
- Machine Tools
- Marine
- Mining Technology
- Mobile Vehicles
- Offshore
- Oil & Gas
- Oil Recycling & Reclamation
- Plastic Injection
- Power Generation
- Printing
- Pulp & Paper
- Railroads
- Recreation
- Refuse
- Steel Making
- Water & Wastewater
- And More!



*To access more information about Schroeder, scan the code with your app-enabled smartphone.

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