



Filter Housings and Systems

www.fileder.co.uk





filer
EXPERTS IN FILTRATION

Filter Housings & Systems

Meeting and exceeding the requirements of International Standards such as PED, DWI, WRAS and NSF, Fiederer's portfolio of filter housings and systems from SPECTRUM provide time proven solutions and dependable quality to multiple applications, across numerous industries.



Contents

Typical Applications	3
Choosing Your System.....	4
Plastic Housings	
Regular Plastic Housings.....	6
Large Diameter Plastic Housings	10
Housing Accessories	11
Systems – Single, Double and Triple	12
Stainless Steel Single Round Housings	
Single Round, Premier, Standard and Economic	16
Stainless-Steel Multi-Round Housings	
Features and Benefits.....	24
Premier Housings 7 – 36 Round.....	26
Standard Housings 3 – 7 Round	36
High Flow Housings	
Introduction	44
High Flow vs Traditional Cartridges.....	46
Features and Benefits.....	48
High Flow Housings 1 – 7 Round.....	50
Sanitary Filter Housings	
Introduction	60
Features and Benefits.....	62
Sanitary Housings 1 – 7 Round.....	64
Other Products From Filerder	72

For T&C's, Terms of Use and Copyright, please see www.filerder.co.uk



Typical Applications

Suiting flow rates from 0.4 to 13,300 lpm, the SPECTRUM range of filter housings and systems offer product solutions with specific features and benefits required for even the most demanding of applications. Examples of such include: numerous processes within industrial environments, incoming mains water, food and beverage manufacturing, sterile water production and bacterial control.

The range begins with Aqualyze plastic housings and systems, evolves into Inox stainless steel single and multi-round options, which includes the impressive new collection of high-flow housings and culminates in the exacting specifications of the sanitary range.



Beverage Production



Hospital Ring main



Industrial

Choosing Your System

Which System Best Suits Your Need?

Filtration applications are typically defined by the performance characteristics of the filter cartridge being used, however selecting the right filter housing can optimise and enhance the results achieved from different cartridges. To ensure the most precise and effective application, it is important to consider several factors, especially those that affect the systems operation, such as housing environment, system operating pressure, temperature, and chemical compatibility.



Plastic Multi-Purpose

Pressure up to 8.6 bar

Flow up to 90 lpm

Material

Lightweight, ergonomic, and constructed from 100% virgin materials, plastic housings offer good general chemical compatibility.

Environment

Ideal for commercial applications. Port sizes from 1/4" to 1". For use in areas protected from long exposure to UV light.



Stainless Steel Industrial

Pressure up to 21 bar

Flow up to 3600 lpm

Material

Manufactured from durable 316L stainless steel, these housings offer increased temperature capability and are finished with a protective polycoat layer for increased service life.

Environment

Equipped to deal with most commercial and industrial environments with port options up to 6" DN150. Consideration should be taken in installations with acids, hydrocarbons, or high chloride levels.



Inox High Flow Large Scale

Pressure up to 10 bar

Flow up to 13,300 lpm

Material

Robust in design, these 316L stainless steel housings are constructed with a glass bead finish to optimise housing life without excessive additional cost.

Environment

Tailored specifically for industrial high flow applications, swing-bolt closures and Davit arm assemblies ensure simple cartridge changeout in what can be challenging environments.



Inox Sanitary High Purity

Pressure up to 10 bar

Flow up to 560 lpm

Material

Highly polished 316L stainless steel results in smooth internal and external surfaces to reduce microbiological growth.

Environment

With tri-clamp fittings, fewer internal parts and more accessible areas, these housings are designed for applications where filtrate quality is paramount.

Plastic

Suitable Applications

Economic and easy to use, compatible with almost all types of water, including seawater and deionised up to 40°C.

Unsuitable Applications

Synthetic oils, aromatic hydrocarbons and prolonged exposure to UV light.

Stainless Steel

Suitable for most fluids from tap water to beer, spirits and oils. Wider end-cap compatibility for an improved seal. Higher pressures and temperatures up to 135°C.

Elevated chloride concentrations, acids and halogenated hydrocarbons.

Aqualyze Economic Plastic Filter Housing

10", 20" in Regular and Large Diameter

2020 has unveiled the launch of the new SPECTRUM economic plastic housings, the first in a range of housings to be introduced. Having taken key features from the marketplace and improved them accordingly, these housings meet the needs of economy, quality and ease-of-use. This new range rivals higher priced competitors in the industry without compromising materials or calibre. Evident in the housings approvals and test criteria, their flexible configurations using brackets and adaptors encourages easy-to-build systems. Housings come in either opaque or clear options with ¼" to 1" ports and lengths of 10" and 20".

Pressure Release Valve (PRV)

The first full-fit pressure release valve with hexagonal fit, prevents potential weeping from accidental unwinding and aids changeout.

Centering Plug

Incorporated within the head of 20" and Large Diameter options. Unlike traditional housings, this unique centering plug prevents bypass by locating the cartridge securely whilst the open area allows for full flow.

Materials

Constructed using modern manufacturing techniques, without the need for talc or other chemicals, these housings are light and ergonomic whilst remaining robust. 100% virgin materials ensure broad chemical compatibility which are suitable for a range of applications.

Quick Changeout

Spanners have been designed for easy removal of the sump.

Flow Directions

Embossed to simplify installation.

Port Options

Housings come with a variety of port options from ¼" to 1" suiting standard pipework or specific application connections.

Index Thread

Easy spin-off, spin-on sumps that return to same position every time. Perfect for service and installation labelling.

Cartridge Compatibility

Designed to enhance the filter cartridge performance across the SPECTRUM range, whilst accommodating all industry standard cartridges.

DOE

Double
Open Ended
eg. TruDepth

AA

Gasket
Ended
eg. Media
Cartridges

213

CG
O-ring
eg. Pleat

10 Inch

Most popular size, suited for OEM and under-sink installations.

20 Inch

Reducing changeout frequency this size housing is ideal for water treatment cartridges.

Large Diameter

Offering the highest flow rates in plastic housings at economic pricing to comparable multi-round stainless steel housings.

Plastic Filter Housing

Single Round - Regular 10"

The most sought-after housings with four port sizes allow for different fittings and pipework. The 1/4" and 3/8" ports are typically paired with push-fit fittings and flexible tubing, ideal for OEM systems and drinking water under-sink installations. The 1/2" and 3/4" port sizes are compatible with standard inline pipe installations. Brackets and connectors allow for easy system builds.



Colour Options

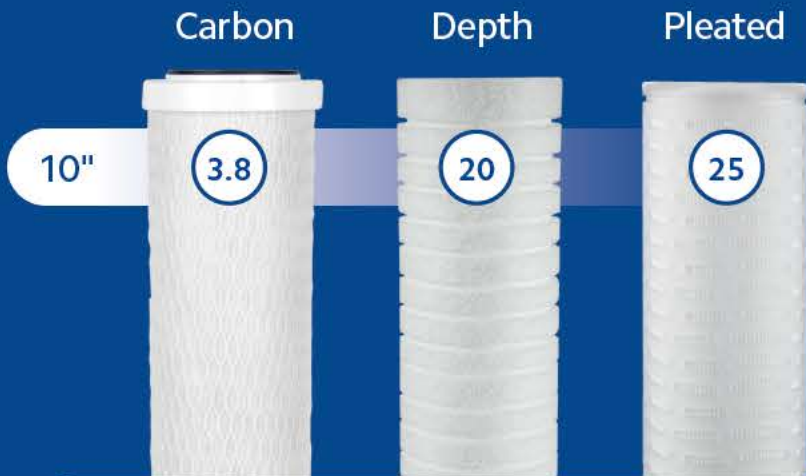
PK

Black

SC

Clear

Flow Rate (lpm)



Specification

Port Sizes (BSP")

1/4

3/8

1/2

3/4

Cartridge Compatibility (")

9 3/4

Rigid Cage
eg. Pleat

9 7/8

Spun Bonded
eg. TruDepth

10

Wound
eg. Wound polypropylene

End-Cap Compatibility

DOE

Double open ended
eg. TruDepth

AA

Gasket ended
eg. Media Cartridges

CG

213 O-ring
eg. Pleat

Temperature (°C) Pressure Rating (bar)

4-40

8.6

PK

6.9

SC

Materials

O-ring Buna-N	PRV Polypropylene
Head Polypropylene	Spring 304 Stainless Steel
Sump- Black PK = Polypropylene	Sump- Clear SC = Styrene Acrylonitrile

Plastic Filter Housing

Single Round - Regular 20"

Aiding larger flow rates than the popular 10" range, 20" housings facilitate greater cartridge capacity and extend service life. With fewer changeouts required, these housings are especially useful for water treatment cartridges. To secure the cartridge and accommodate the higher flow of a 20" filter, housings are fitted with a centering plug.



Colour Options

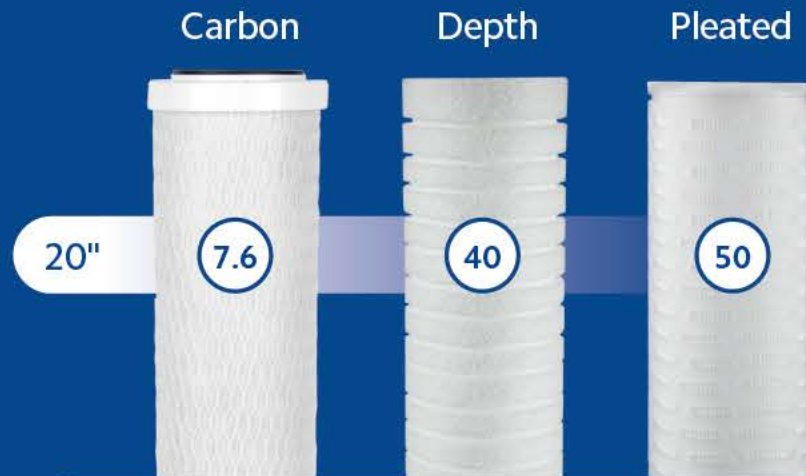
PK

Black

SC

Clear

Flow Rate (lpm)



Specification

Port Sizes (BSP")

1/2

3/4

Cartridge Compatibility (")

20

All Cartridge Types

End-Cap Compatibility

DOE

Double open ended
eg. TruDepth

AA

Gasket ended
eg. Media Cartridges

Temperature (°C) Pressure Rating (bar)

4-40

8.6

PK

6.9

SC

Materials

O-ring EPDM	PRV Polypropylene
Head Polypropylene	Spring 304 Stainless Steel
Sump- Black PK = Polypropylene	Sump- Clear SC = Styrene Acrylonitrile

Code	Description	Spanner	Brackets		
			Single	Double	Triple
EFH*-1-10-1/4	10" Economic Filter Housing No PRV - 1/4" ports	EFH-SW10	EFH-BK-1	EFH-BK-2-10	EFH-BK-3-10
EFH*-1-10-3/8	10" Economic Filter Housing No PRV - 3/8" ports	EFH-SW10	EFH-BK-1	EFH-BK-2-10	EFH-BK-3-10
EFH*-1-10-1/2	10" Economic Filter Housing PRV - 1/2" ports	EFH-SW10	EFH-BK-1	EFH-BK-2-10	EFH-BK-3-10
EFH*-1-10-3/4	10" Economic Filter Housing PRV - 3/4" ports	EFH-SW10	EFH-BK-1	EFH-BK-2-10	EFH-BK-3-10

* Select PK or SC

Code	Description	Spanner	Brackets		
			Single	Double	Triple
EFH-PK-1-20-1/2	20" Economic Filter Housing PRV - 1/2" ports	EFH-SW20	EFH-BK-1	EFH-BK-2-20	EFH-BK-3-20
EFH-PK-1-20-3/4	20" Economic Filter Housing PRV - 3/4" ports	EFH-SW20	EFH-BK-1	EFH-BK-2-20	EFH-BK-3-20
EFH-SC-1-20-1/2	20" Economic Filter Housing PRV - 1/2" ports	EFH-SW20	EFH-BK-1	EFH-BK-2-20	EFH-BK-3-20
EFH-SC-1-20-3/4	20" Economic Filter Housing PRV - 3/4" ports	EFH-SW20	EFH-BK-1	EFH-BK-2-20	EFH-BK-3-20

Plastic Filter Housing

Single Round - Large Diameter

With the highest flow rate capacity in the plastic filter housing range, the large diameter housings compete with comparable multi-round stainless steel housings at a fraction of the cost.



Colour Options

PK

Black

SC

Clear

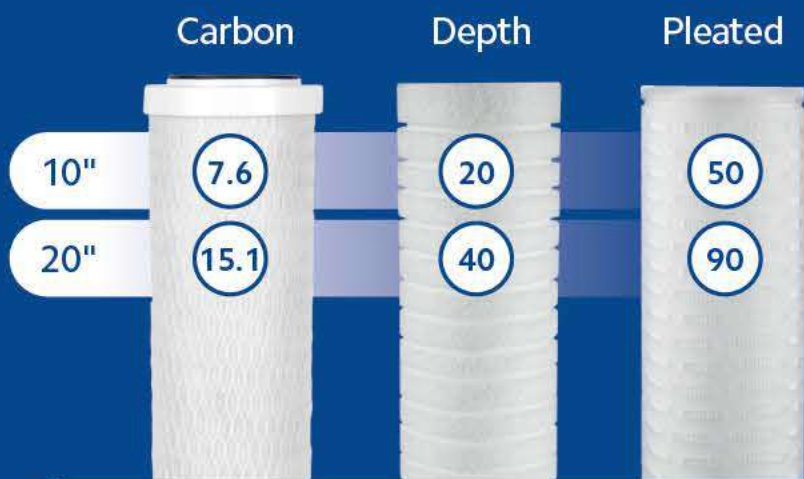


FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Flow Rate (lpm)



Specification

Port Sizes (BSP")

1

Cartridge Compatibility (")

9 3/4

All Nominal
LD 10" (except
wound)
eg. Carbon

10

Wound
eg. Wound
polypropylene

20

All
Cartridge
Types

End-Cap Compatibility

DOE

Double
open ended
eg. TruDepth

AA

Gasket
ended
eg. Media
Cartridges

Temperature (°C)

4-40

Pressure Rating (bar)

6.9

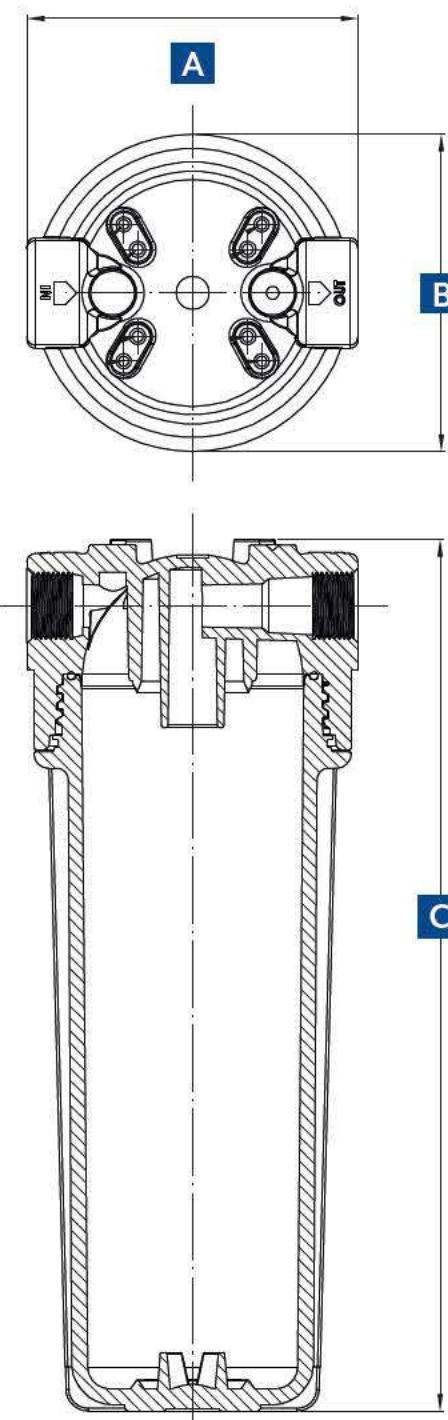
Materials

O-ring Buna-N	PRV Polypropylene
Head Polypropylene	Spring 304 Stainless Steel
Sump - Black PK = Polypropylene	Sump - Clear SC = Styrene Acrylonitrile

Accessories

Housing accessories are offered to conveniently increase the ease of operation and maintenance when applied to housing installations, further improving the functionality of this SPECTRUM range of housings.

Technical Drawing



Brackets

EFH-BK

Brackets come in single, double and triple complete with wall and head mounting screws. Made from galvanized steel and coated with a white powdered finish, which prolongs the brackets life.



Spanners

EFH-SW

These spanners have been specifically designed to not damage the sump, which makes them invaluable for cartridge changeout.



Connectors

1/4" to 1"

To join multiple housings together or connect inlet and outlet ports to pipework, a selection of suitable fittings are available.



Code	Description	Spanner	Brackets		
			Single	Double	Triple
EFH-PK-1-10LD-1	10" Economic Filter Housing PRV - 1" ports	EFH-SWLD	EFH-BK-LD1	EFH-BK-LD2	EFH-BK-LD3
EFH-SC-1-10LD-1	10" Economic Filter Housing PRV - 1" ports	EFH-SWLD	EFH-BK-LD1	EFH-BK-LD2	EFH-BK-LD3
EFH-PK-1-20LD-1	20" Economic Filter Housing PRV - 1" ports	EFH-SWLD	EFH-BK-LD1	EFH-BK-LD2	EFH-BK-LD3
EFH-SC-1-20LD-1	20" Economic Filter Housing PRV - 1" ports	EFH-SWLD	EFH-BK-LD1	EFH-BK-LD2	EFH-BK-LD3

Dimensions (mm)			
Housing	A	B	C
EFH-10" (1/4, 3/8)	120	115	318
EFH-10" (1/2, 3/4)	120	115	318
EFH-20"	134	130	582
EFH-10"LD	184	182	350
EFH-20"LD	184	182	608

Code	Description
EFH-MPF-1/4-1/4	SPECTRUM EFH 1/4" Male thread to 1/4" Push Fit
EFH-MPF-3/8-3/8	SPECTRUM EFH 3/8" Male thread to 3/8" Push Fit
EFH-MPF-1/2-1/2	SPECTRUM EFH 1/2" Male thread to 1/2" Push Fit
EFH-MPF-1/2-15MM	SPECTRUM EFH 1/2" Male thread to 15mm Push Fit
EFH-MPF-3/4-22MM	SPECTRUM EFH 3/4" Male thread to 22mm Push Fit
EFH-MCF-1-25MM	SPECTRUM EFH 1" Male thread to 25mm Compression Fit

Economic Plastic Filter Housing Systems

Single, Double or Triple Housing

These smart SPECTRUM systems have been conveniently pre-assembled for easy and quick installation. Costing less than the sum of their individual components combined, the Aqualyze systems are anything but economic and are available in 10" and 20" Regular and Large Diameter sizes, with the unique option to select sump colour configurations. Coming complete with inlet and outlet gauges to monitor and maximise cartridge life, a spanner to assist with sump removal when performing maintenance and cartridge replacement and connectors to configure the 1/4"-1" port sizes with the most common pipework, the extensive combinations in this range provide endless options for applications and flow rates.

Gauges

x2 gauges for single round, x3 for double and x4 for triple.

Bracket & Screws

Securely fixes to the head with screws and washers.

Packaging

The housings are packaged in protective boxes with clear labelling.

Head

Available in regular and large diameter with a range of port sizes.

O-ring

Positioned to create a watertight seal.

Sump

Options of either black (PK) or clear (SC).

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Fitting Adaptors Included



Cartridge Compatibility

Designed to enhance the performance of the SPECTRUM cartridge range, whilst accommodating all industry standard cartridges.



Single

Suitable where only one level of filtration is required to filter or treat the incoming fluid.

Sump options

Options of either a clear or a black sump in 10 or 20 inch.

Double

For systems that require prefiltration of a secondary low micron filter or water treatment cartridge to maximise service life.

Triple

For applications that require varying levels of prefiltration or an array of treatment cartridges to remove multiple unwanted contaminants.

Economic Plastic Filter Housing Systems

Single, Double or Triple Housing

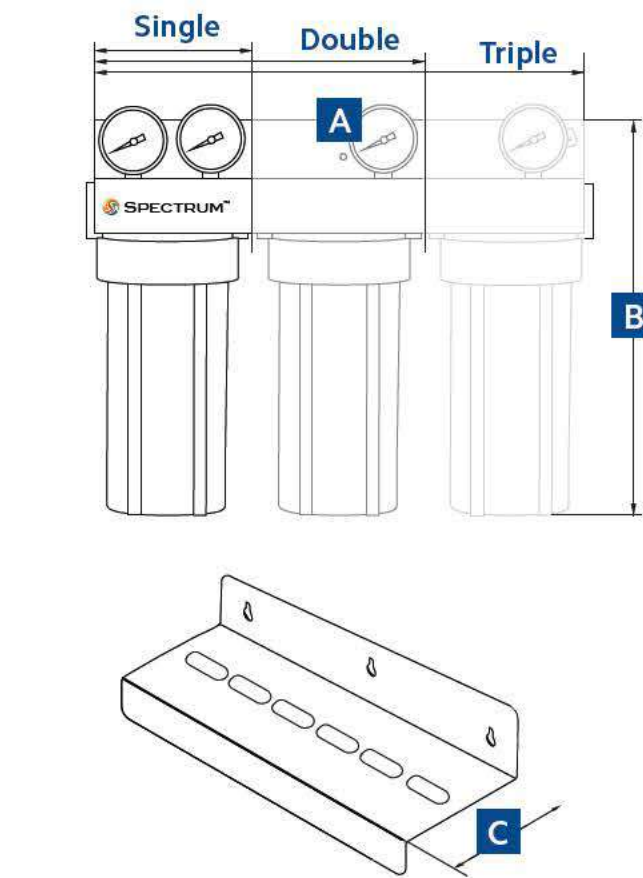
Filtration systems are tailored to suit individual applications dependant on the level of filtration required. Single housings provide an effective one stage process, used to target specific contaminants for example, bulk solids, sediment or organics. Two-stage systems are implemented when an expensive secondary filter, such as a fine filtration or water treatment cartridge, benefits from prefiltration, prolonging service life. If applications demand a full filtration cascade, a three-stage system is recommended, which delivers a spatial and economic solution.



FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions				
	Housing	A	B	C
Single	EFHS-10 (1/4, 3/8)	120	381	115
	EFHS-10 (1/2, 3/4)	120	381	115
	EFHS-20	134	645	115
	EFHS-10LD	117	472	175
	EFHS-20LD	117	730	175
Double	EFHS-10 (1/4, 3/8)	236	376	145
	EFHS-10 (1/2, 3/4)	236	376	145
	EFHS-20	236	640	145
	EFHS-10LD	410	450	191
	EFHS-20LD	410	708	191
Triple	EFHS-10 (1/4, 3/8)	360	376	145
	EFHS-10 (1/2, 3/4)	360	376	145
	EFHS-20	440	632	165
	EFHS-10LD	613	450	195
	EFHS-20LD	613	708	195

Key Features

- Complete packaged systems including all necessary accessories for installation and monitoring
- Full array of housing sizes and sump configurations to suit almost all application requirements
- Ergonomic and lightweight housings allow easy installation



Flow Rate (lpm)

	Carbon	Depth	Pleated
10"	3.8	20	25
20"	7.6	40	50
10"LD	7.6	20	50
20"LD	15.1	40	90

Specification

Port Sizes (BSP")

1/4	3/8	1/2	3/4	1
Supplied with 1/4 PF adaptors	Supplied with 3/8 PF adaptors	Supplied with 15mm adaptors	Supplied with 22mm adaptors	Supplied with 28mm adaptors

Cartridge Compatibility (")

9 3/4	9 7/8	10	20
Regular or LD			

End-Cap Compatibility (*Regular 10" only)

DOE	AA	213
Double Open ended eg. TruDepth	Gasket ended eg. Carbon block	CG* O-ring eg. Pleat

Temperature (°C) Pressure Rating (bar)

4-40	8.6	6.9
(Regular SC & LD)		

Materials

Head / Sump- Black PK = Polypropylene	Sump- Clear SC = Acrylonitrile Styrene
Gauge Brass/Stainless Steel	O-ring Buna-N
Bracket Powder Coated Carbon Steel	Nipple PVC
PRV Polypropylene	Spring 304 Stainless Steel

* PK - Black SC - Clear

Code	Material *			Cartridge (")	Port Size (")	Weight (kg)		
	Housing 1	Housing 2	Housing 3			Single	Double	Triple
EFHS	PK	PK	PK	10	1/4, 3/8, 1/2, 3/4	1.08	2.40	3.62
				20	1/2, 3/4	2.10	4.44	6.96
	SC	SC	SC	10LD	1	3.28	7.04	10.56
				20LD		4.68	9.84	14.76

Part code example: EFHS-PK/SC/PK-10-3/4

Inox Single Filter Housings

Premier, Standard and Economic

SPECTRUM Inox single round housings were specifically designed in a heavy duty construction to perform in the harshest of application environments with high temperatures, high pressures and challenging liquids. Offering solutions beyond plastic housings, these high grade 316L stainless steel housings come in brushed or electropolish finishes, suiting applications from nominal particulate removal to critical absolute filtration when selecting the appropriate end-capped cartridges.

Cartridge Compatibility

Designed to enhance the SPECTRUM range of cartridge performance whilst accommodating all industry standard cartridges.



dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Top Nut

To secure the head and allow easy access with 10mm clearance levels.



Bracket

Supplied with the Standard and Premier housings to easily secure to a wall.

Economic

Entry level housing for high temperature and high pressure applications.

Central Tie Rod

The rod and spring locates and secures cartridges in place.



Standard

Accepting radial or longitudinal cartridges, Standard housings also include a spring-loaded seal plate to accommodate 93/4" to 30" cartridge lengths.



Head & Sump

Configurations accepting DOE, AA and CG end-caps.



Premier

Housings have an electropolished finish making them suitable for sub-micron applications.



2 Head Options

Premier housings are offered in 222 or 226 double O-ring end-cap fittings to enable sub-micron filtration in more critical applications.

Inox Single Filter Housing

Premier

When an application requires an absolute seal, the Premier filter housing (PFH) is the go-to choice in this range of single-round housings. With an electropolished finish and with options to accept either 222 double O-ring fittings or the 226 fitting with locking tabs for additional security, these housings are designed to perform under high pressure and temperatures whilst fulfilling the needs of sub-micron or critical applications.

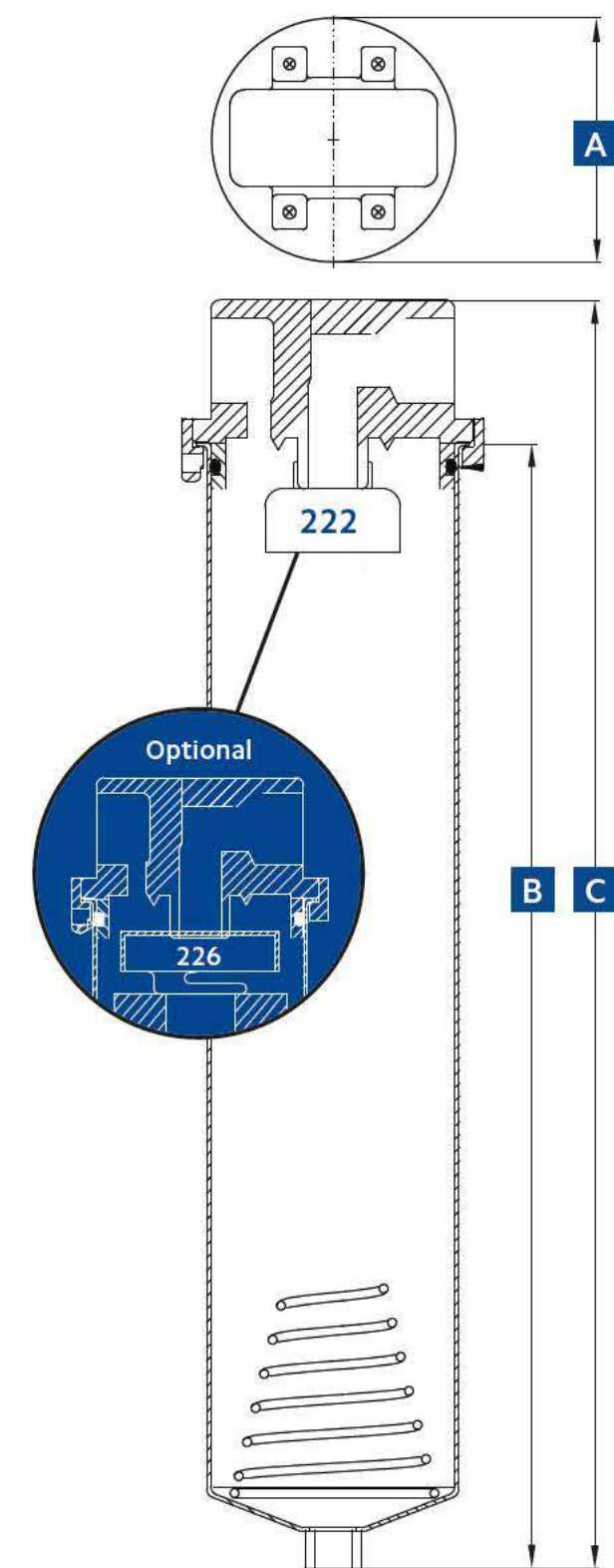


dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing

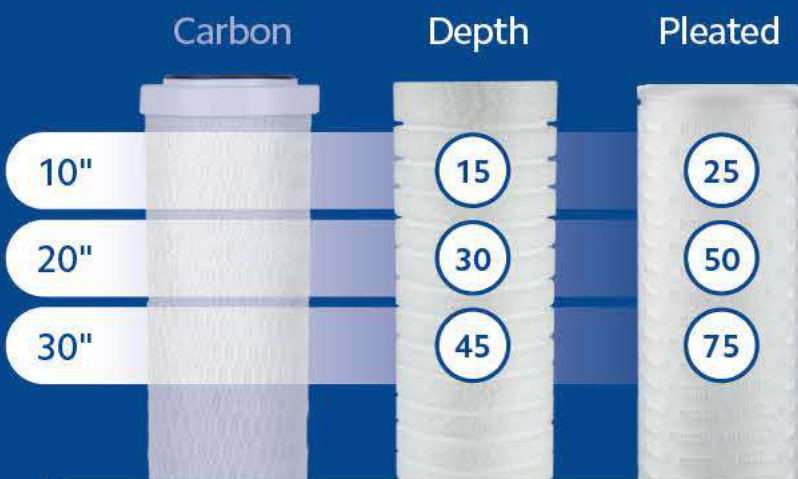


Dimensions (mm)			
Housing	A	B	C
PFH-SBR-1-10	105	413	435
PFH-SBR-1-20	105	667	689
PFH-SBR-1-30	105	921	943

Key Features

- Double O-ring seal fittings allow for high purity cartridge filtration
- Electropolished housing finish provides a cleaner surface for bacteria growth prevention
- Comes with mounting bosses, bracket kit and locking ring closure tool to facilitate quick and simple installation

Flow Rate (lpm)



Specification

Port Sizes (BSP")

3/4 1

Cartridge Compatibility (")

10 20 30

End-Cap Compatibility

222 226
EG/EH/QG Ended eg. Pleat FG/FH/ZH Ended eg. Pleat

Temperature (°C) Pressure Rating (bar)

93 21

Materials

Head - 316L Stainless Steel - Glass Bead Finish
Sump - 316L Stainless Steel - Electropolished
Collar - Nickel Plated Brass
Bracket - 304 Stainless Steel O-Ring - Buna-N

Inlet/Outlet Ports

3/4" & 1" BSP port configurations.

Sealing

Buna-N O-ring supplied as standard. Other materials are available.

Locking Ring

A closure tool is provided with each housing to remove and tighten the locking ring.

Material

Manufactured from 316L grade stainless steel with an electropolished finish.

Serial Number

Unique serial number on each housing allows traceability and quality assurance.

1/4" Drain Port

Easy housing drainage during changeout.

Code	Material	No. of Cartridges	Cartridge (")	Port Size (")	Seal Type	Weight (kg)
PFH	-	SBR	-	1	222, 226	3
						4
						5

Part code example: PFH-SBR-1-10-1-226

Inox Single Filter Housing

Standard

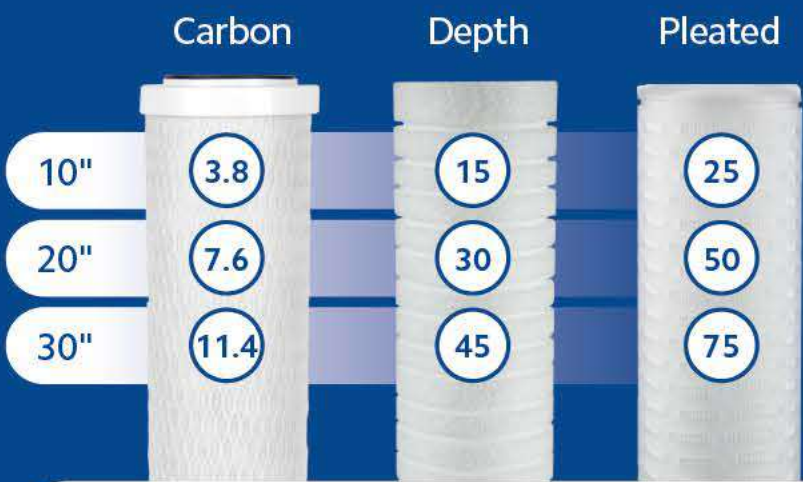
Designed for situations where the application environment and criteria exceed the parameters of Aqualyze plastic housings, the Standard single round housings provide a superior alternative, performing at high temperature, high pressure and with wider fluid compatibility. Allowing for both longitudinal and radial flow cartridges, the SFH housing is manufactured with a spring-loaded seal plate accepting cartridge lengths from 9 3/4" to 30" and a head which accommodates a 213 O-ring seal along with the regular DOE/AA end-caps for wider application capability.



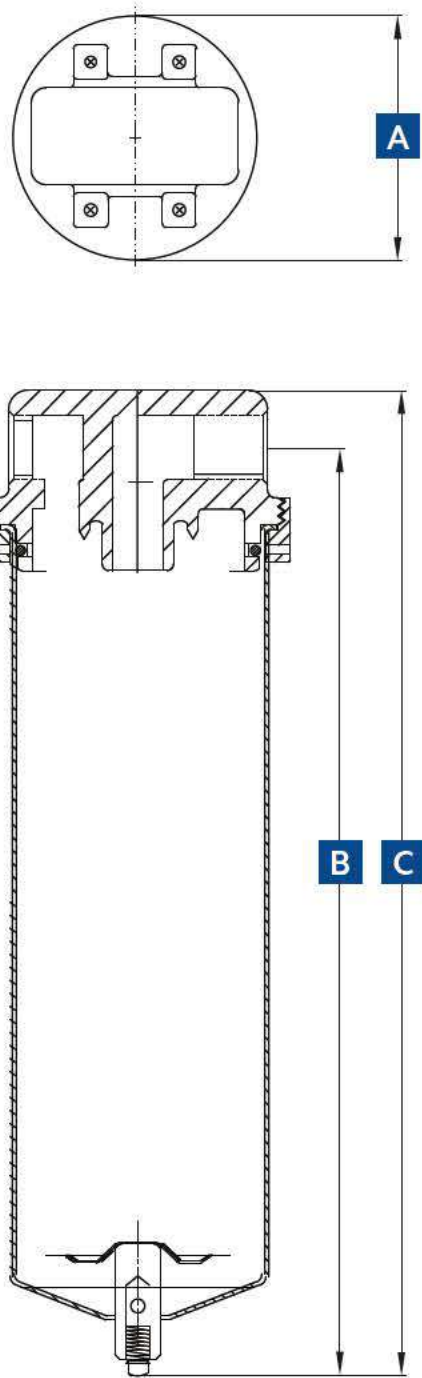
Key Features

- Compatible with both radial and longitudinal flow cartridges
- 1/4" drain allows for easy drainage with minimal ground clearance required for cartridge changeout
- Comes with mounting bosses, bracket kit and locking ring closure tool to facilitate quick and simple installation

Flow Rate (lpm)



Technical Drawing



Inlet/Outlet Ports

1/2, 3/4" & 1" BSP port configurations.

Sealing

Buna-N O-ring supplied as standard. Other materials are available.

Locking Ring

A closure tool is provided with each housing to remove and tighten the locking ring.

Material

Manufactured from 316L grade stainless steel with a brushed finish.

Serial Number

Unique serial number on each housing allows traceability and quality assurance.

1/4" Drain Port

Easy housing drainage during changeout.

Specification

Port Sizes (BSP")

1/2 3/4 1

Cartridge Compatibility (")

9 3/4 9 7/8 10 20 30
Carbon eg. 870 carbon block Spun Bonded eg. TruDepth Wound eg. Wound polypropylene Pleated eg. Pleat² Rigid Cage eg. Pleat

End-Cap Compatibility

DOE AA 213
Double open ended eg. TruDepth Gasket ended eg. Media Cartridges CG O-ring eg. Pleat

Temperature (°C) Pressure Rating (bar)

93 21

Materials

Head - 316L Stainless Steel - Glass Bead Finish
Sump - 316L Stainless Steel - Electropolished
Collar - Nickel Plated Brass
Bracket - 304 Stainless Steel O-Ring - Buna-N

Dimensions (mm)				
Housing	A	B	C	
SFH-SBR-1-10	105	314	335	
SFH-SBR-1-20	105	568	614	
SFH-SBR-1-30	105	822	868	

Code	Material	No. of Cartridges	Cartridge (")	Port Size (")	Weight (kg)
SFH	SBR	1	10	1/2, 3/4, 1	3
			20		4
			30		5

Part code example: SFH-SBR-1-10-1

Inox Single Filter Housing

Economic

Operating at the highest temperature rating in the range, EFH housings are ideally suited to industrial applications given their robust construction and high operational parameters. Accepting double open-ended cartridges, the top nut screw tightens the housing and head together once the cartridge is placed over the tie-rod and spring. When fully assembled the knife edge seal of the housing head provides the necessary secure seal for this cost-effective upgrade to plastic housings.

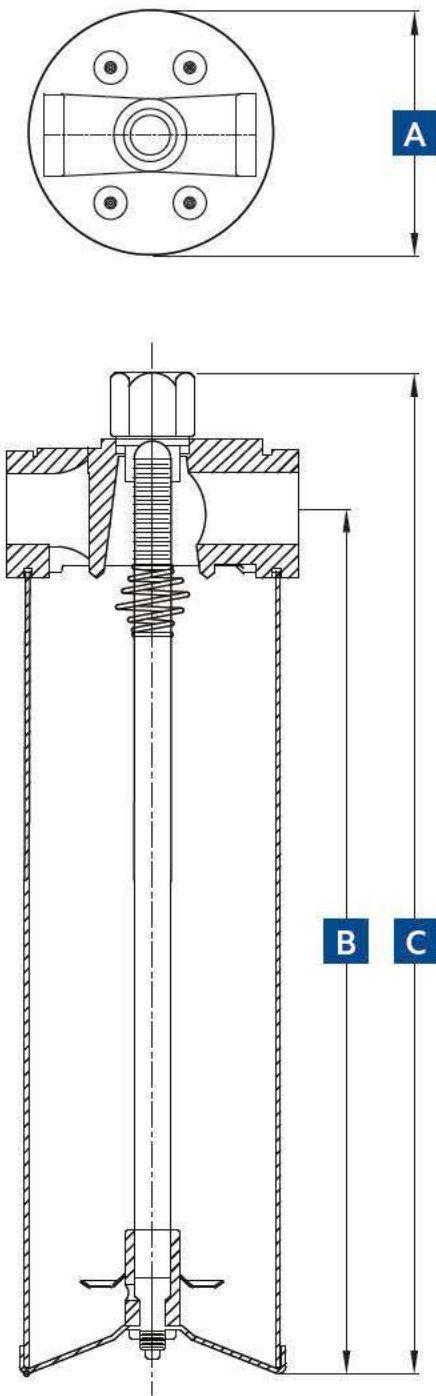


dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
EFH-SBR-1-10	103	301	346
EFH-SBR-1-20	103	562	606
EFH-SBR-1-30	103	816	860

Key Features

- Requires only 10mm clearance for cartridge changeout
- Comes with compatible EPDM gaskets for high temperature operations
- Tie rod ensures easy location of cartridge

Flow Rate (lpm)

	Carbon	Depth	Pleated
10"	3.8	15	25
20"	7.6	30	50
30"	11.4	45	75

Specification

Port Sizes (BSP")

1/2 3/4 1

Cartridge Compatibility (")

9 3/4	9 7/8	10	20	30
Carbon eg. 870 carbon block	Spun Bonded eg. TruDepth	Wound eg. Wound polypropylene	Pleated eg. Pleat ²	Rigid Cage eg. Pleat

End-Cap Compatibility

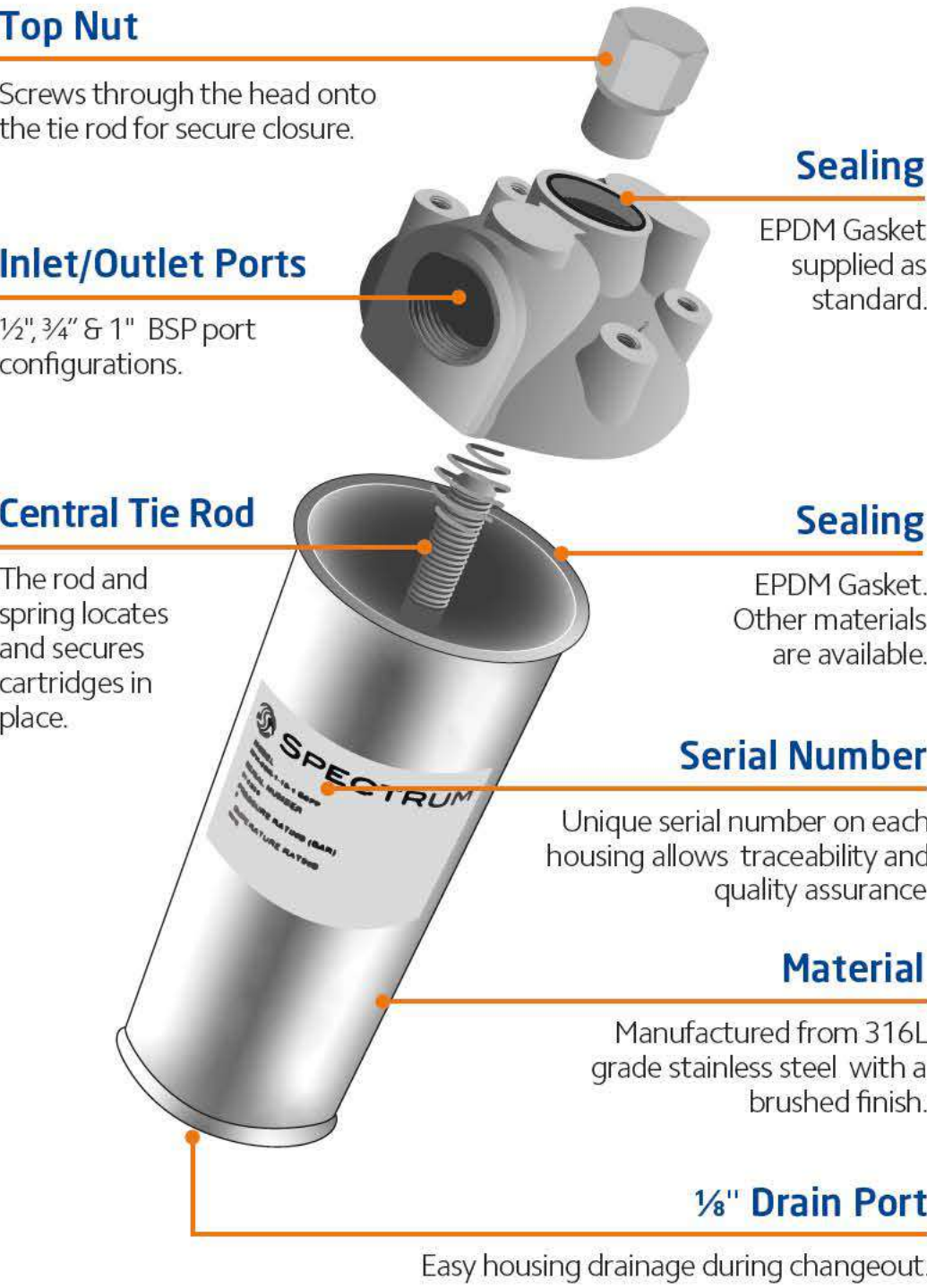
DOE	AA	
Double open ended eg. TruDepth	Gasket ended eg. Pleat	Not suitable for longitudinal flow

Temperature (°C) Pressure Rating (bar)

135 17

Materials

Head - 316L Stainless Steel - Glass Bead Finish
Sump - 316L Stainless Steel - Course Brushed Finish
Top Nut - 316L Stainless Steel
Gaskets - EPDM



Code	Material	No. of Cartridges	Cartridge (")	Port Size (")	Weight (kg)
EFH	SBR	1	10	1/2, 3/4, 1	3
			20		4
			30		5

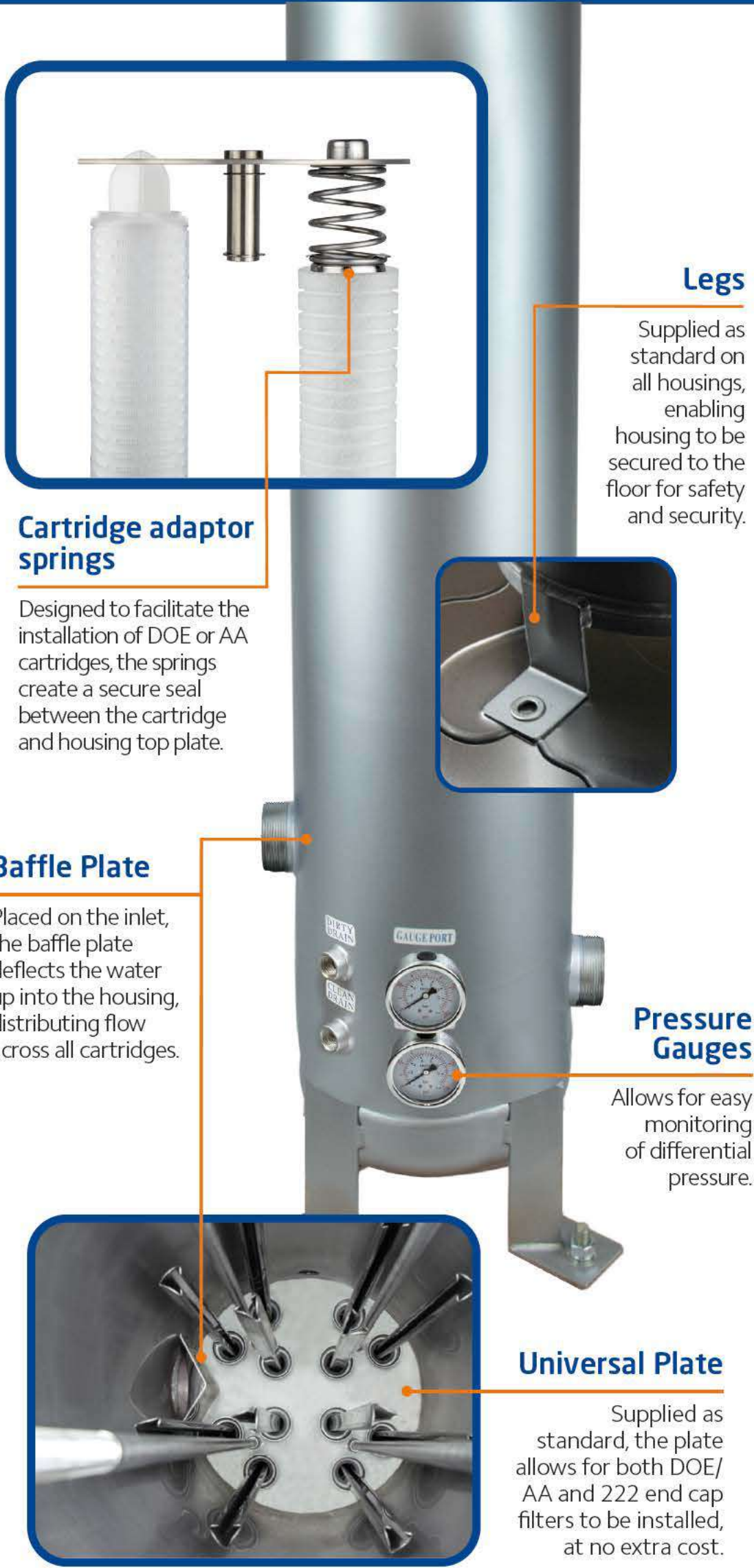
Part code example: EFH-SBR-1-10-1

Stainless Steel Multi-Round Housings

From 3 round to 36 round

Offered in two versions, Standard and Premier, excepting flow rates from 11 to 3600 lpm. The Premier range incorporates swing bolt closures and, in the larger sizes, a davit arm assembly, for easy and safe housing maintenance. The Premier range is supplied with pressure gauges as well as DN flanged connections for simple line connection. The Standard range is manufactured from the same high quality material and to the same design standards as the Premier range, however the closing device is the industry accepted V-band clamp and the ports are threaded. To provide the flexibility both the Premier and Standard ranges are supplied complete with a universal cartridge plate.

Maximum Flowrate Capacity



Standard Features



Premier Features



dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Stainless Steel Multi-Round Housings

Premier

Designed with the user in mind, the swing bolt and hinged lid or Davit arm assembly enables cartridge changeout to be achieved with no loose parts, heavy lifting or tools required. Manufactured with lids weighing up to 60 kg, these heavy-duty housings ensure all health and safety angles are covered by this Premier housing feature, whilst also providing reduced labour operation for engineers carrying out cartridge changeouts. Extensive stock holding, along with complete technical back up, ensures confidence in finding the correct housing for each application. All housings come complete with a universal plate which is capable of accepting both DOE and 222 fittings.

Cartridge Compatibility

Designed to enhance the performance of the SPECTRUM cartridge range, whilst accommodating all industry standard cartridges.



Which Size Housing?

SPECTRUM Premier multi-round housings range in size from 7 round to 36 round, with flow rates from 27 to 3600 litres per minute.



7 Round

27 - 700 lpm



12 Round

137 - 1200 lpm



36 Round

410 - 3600 lpm



21 Round

239 - 2100 lpm

dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Multi-Round Inox Filter Housings

Premier - 7 Round

The Premier range benefits operators with a swing bolts and hinged lid configuration which keep the head secured to the vessel during cartridge changeout. Additional drain ports also assist cartridge changeout allowing for complete emptying of the housing, while the supplied pressure gauges provide accurate differential pressure readings for filter monitoring. The 7 round housings accept seven cartridges in 30" or 40" with 2" BSPM inlet and outlet connections with the 40" being the first in the range to be available with 3" flanged connection.



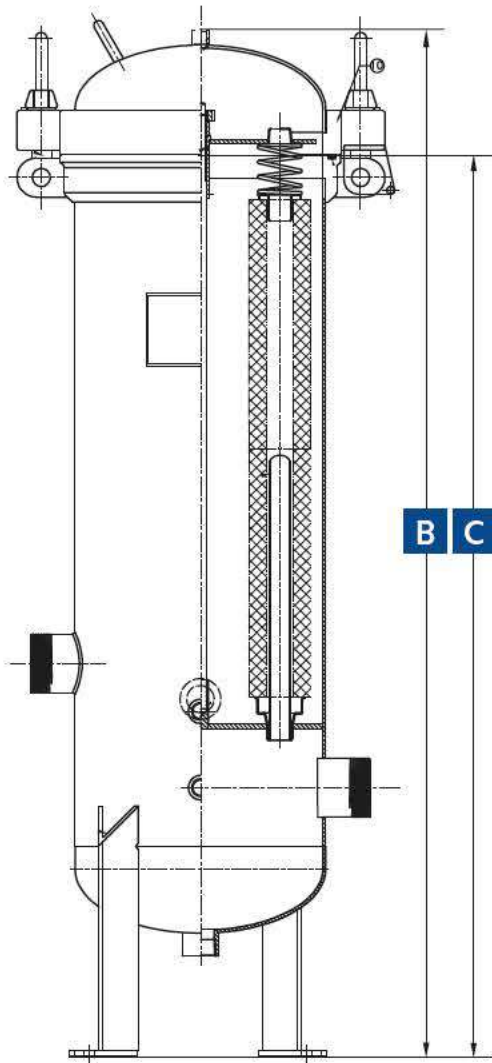
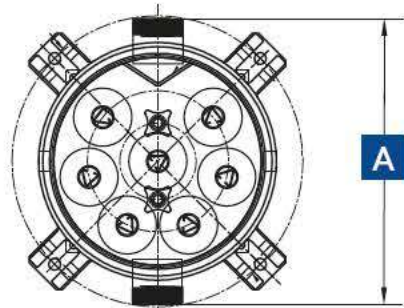
dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SPC-7-30	343	1414	1174
PFH-SPC-7-40	343	1668	1428

Key Features

- Swing bolt closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge change-outs
- Protective polycoat finish

Pressure Vent
Vent pressure after use or release trapped air after cartridge changeout.

Tie Rod and Top Plate
Mobile, adjustable plate ensure simple installation and allows for length variations.

Inlet
2" BSPM in standard configurations.

4x Mounting Legs
Heavy duty, stainless steel legs bolt to the floor for security.

Drain Ports
Located on the clean and dirty side, the drain ports allow for easy and quick emptying of the fluid within.

Swing Bolt
Provides a quick and convenient sealing method.

Hinged
Allowing for easy removal of the head.

Surface Finish
The polycoat finish provides everyday protection, guarding against corrosion.

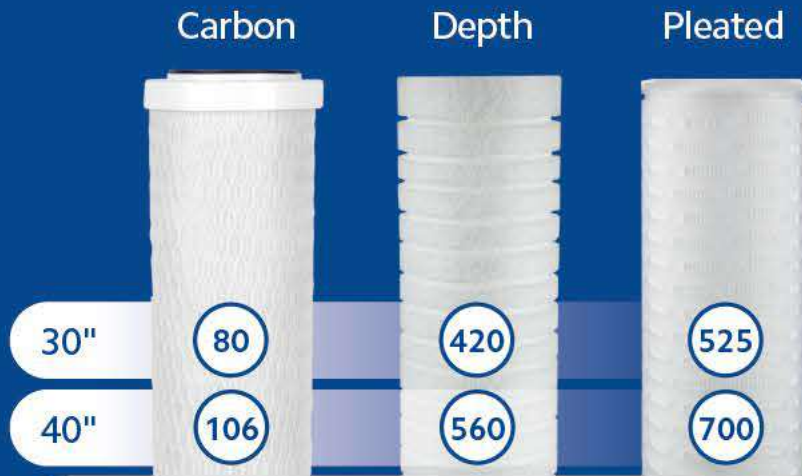
Universal Cartridge Plate
DOE/AA and 222 compatible.

Outlet
2" BSPM port carries filtered fluid out. Flange options available.

Pressure Gauges
Supplied as standard with Premier housings, the gauges allow for easy monitoring of differential pressure.

Code	Description	Box Weight (kg)
PFH-SPC-7-30-2-GP-ML	SPECTRUM INOX Premier Filter Housing 7 X 30" 2" BSPM with Gauges	50
PFH-SPC-7-40-2-GP-ML	SPECTRUM INOX Premier Filter Housing 7 X 40" 2" BSPM with Gauges	55
PFH-SPC-7-40-3F-GP-ML	SPECTRUM INOX Premier Filter Housing 7 X 40" 3" DN80 Flange with Gauges	57

Flow Rate (lpm)



Specification

Port Sizes (")

2
BSPM

3F
DN80 Flange

Cartridge Compatibility (")

30

40

End-Cap Compatibility

222
EG/EH Ended
eg. Pleat

DOE
Double open ended
eg. TruDepth

AA
Gasket ended
eg. Carbon

Temperature (°C)

120

Pressure Rating (bar)

10

Materials

Head & Body - 316L Stainless Steel - Polycoated	
Eye Nut & Swing Bolt - 304 & Zinc Plated Steel	
Legs - 304 Stainless Steel	O-Ring - Buna-N

Multi-Round Inox Filter Housings

Premier - 12 Round

Larger Premier housings, starting from the 12 round, offer additional peace-of-mind by utilising a swing bolt and Davit arm assembly. This feature, safely and effortlessly moves the housing lid to one side during changeout, eliminating the need for heavy lifting and significantly reducing downtime. Accommodating flowrates up to 1200 litres per minute, these housings include 3" DN80 inlet and outlet connections on the 12 x 30" version and 4" DN100 on the 12 x 40". Drain ports for complete emptying of the housing during changeout and pressure gauges to provide accurate differential pressure readings for filter monitoring.

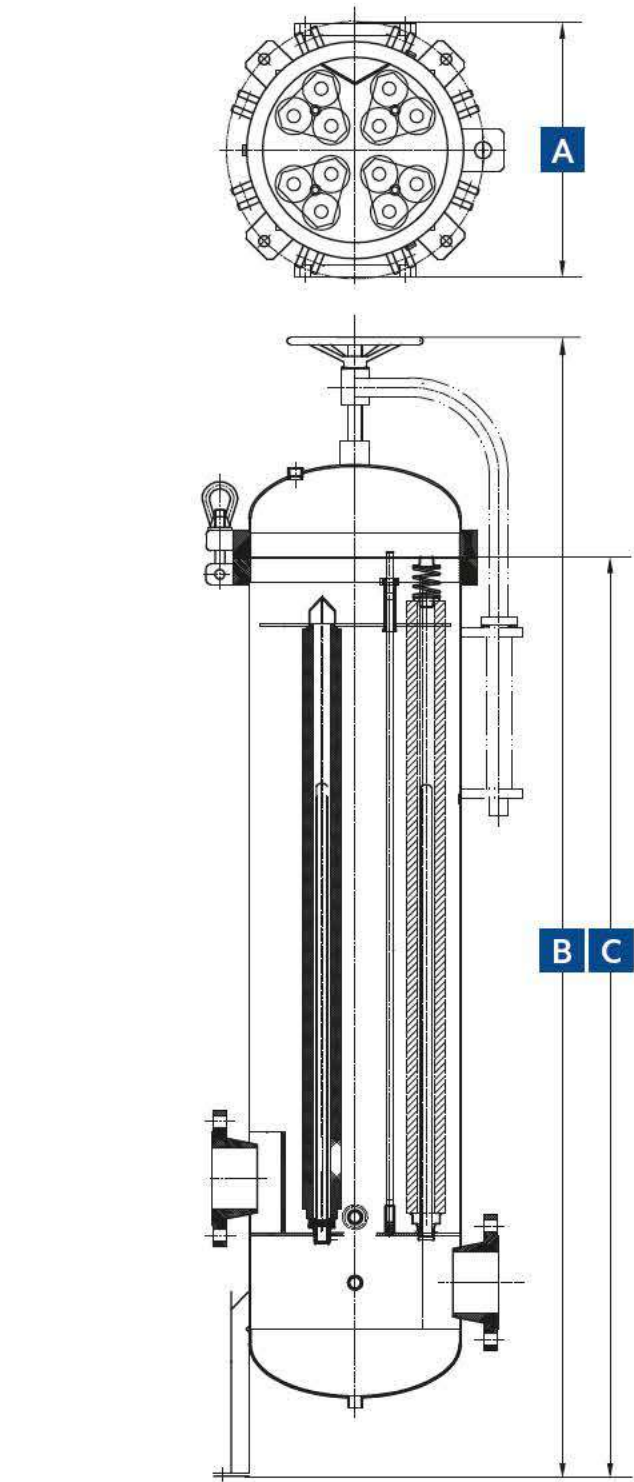


dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SPC-12-30	477	1671	1288
PFH-SPC-12-40	477	1925	1542

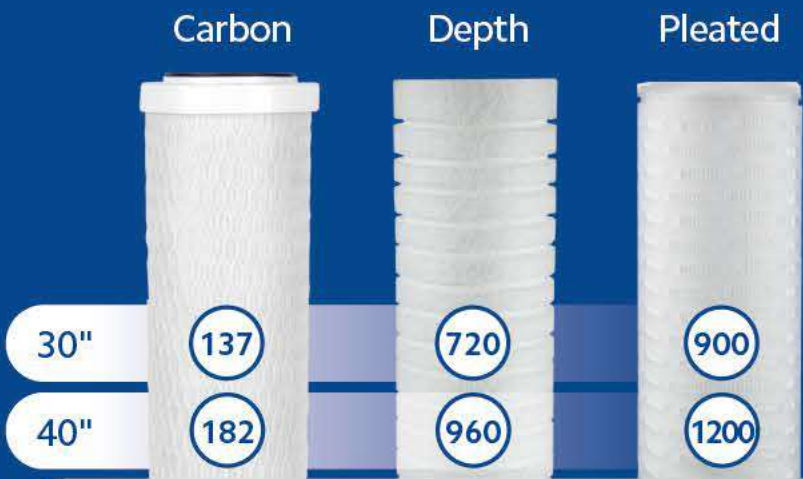
Key Features

- Swing bolt closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge change-outs
- Protective polycoat finish



Code	Description	Box Weight (kg)
PFH-SPC-12-30-3F-GP-ML	SPECTRUM INOX Premier Filter Housing 12X30" 3" DN80 Flange with Gauges	129
PFH-SPC-12-40-4F-GP-ML	SPECTRUM INOX Premier Filter Housing 12X40" 4" DN100 Flange with Gauges	137

Flow Rate (lpm)



Specification

Port Sizes (")



Cartridge Compatibility (")



End-Cap Compatibility



Temperature (°C) Pressure Rating (bar)



Materials

Head & Body - 316L Stainless Steel - Polycoated
Eye Nut & Swing Bolt - 304 & Zinc Plated Steel
Legs - 304 Stainless Steel
O-Ring - Buna-N

Multi-Round Inox Filter Housings

Premier - 21 Round

The 21 round housing utilises a swing bolt and Davit arm assembly to safely and effortlessly move the housing lid to one side, eliminating the need for heavy lifting and significantly reducing downtime during changeout. Providing effective filtration equivalent to 84 10" cartridges, this housing is supplied with 4" DN100 inlet and outlet connections, drain ports for complete emptying of the housing during changeout and pressure gauges to provide accurate differential pressure readings for filter monitoring.

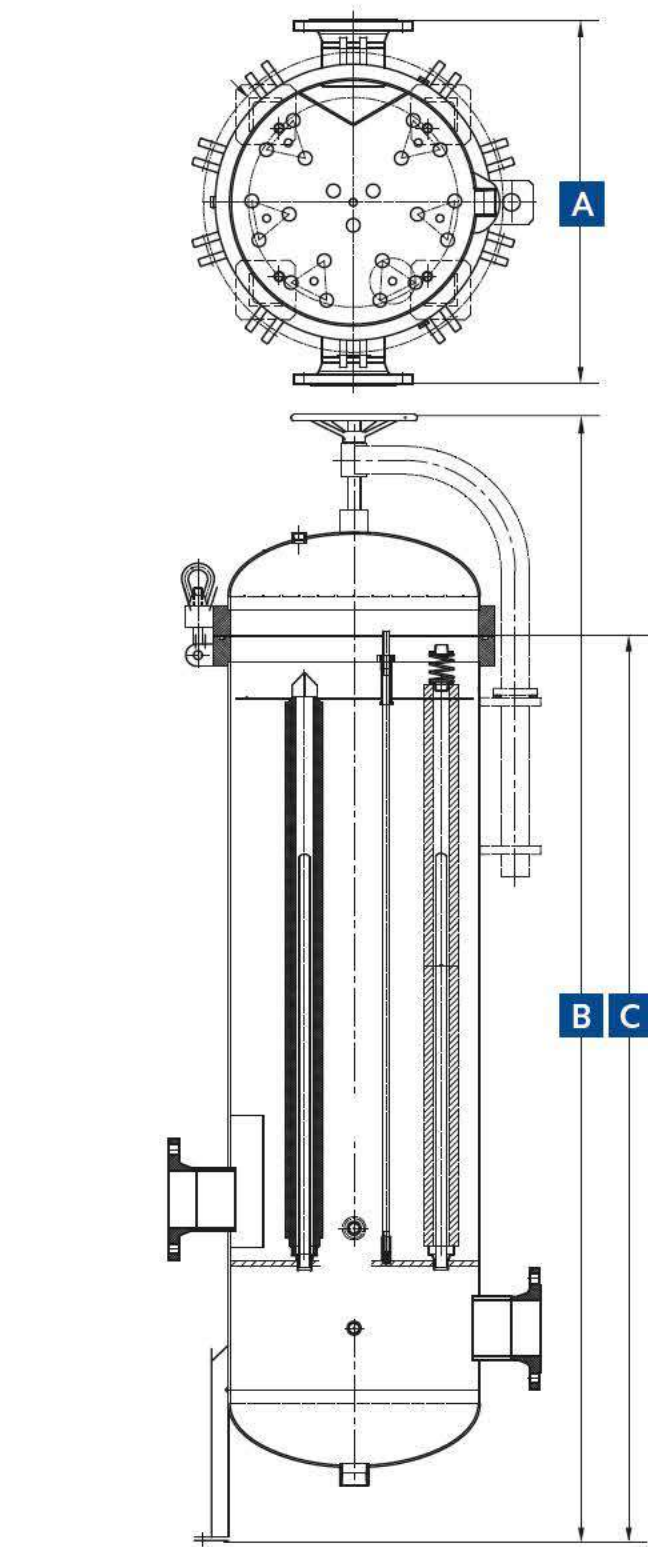


dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SPC-21-30	578	1785	1384
PFH-SPC-21-40	578	2039	1638

Key Features

- Swing bolt closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge change-outs
- Protective polycoat finish

Pressure Vent

Vent pressure after use or release trapped air after cartridge changeout.

Swing Bolt

Provides a quick and convenient sealing method.

Tie Rod and Top Plate

Mobile, adjustable plates ensure simple installation and allows for length variations.

Inlet

4" DN100 flanged connection as standard.

4x Mounting Legs

Heavy duty, stainless steel legs bolt to the floor for security.

Drain Ports

Located on the clean and dirty side, the drain ports allow for easy and quick emptying of the fluid within.

Davit Assembly

Turning wheel to safely lift and swing the head open for cartridge changeout.

Hinged

Allowing for easy removal of the head

Surface Finish

The polycoat finish provides everyday protection, guarding against corrosion.

Universal Cartridge Plate

DOE/AA and 222 compatible.

Outlet

4" DN100 flange carries filtered fluid out.

Pressure Gauges

Supplied as standard with premier housings, the gauges allow for easy monitoring of differential pressure.

Flow Rate (lpm)

	Carbon	Depth	Pleated
30"	239	1260	1575
40"	319	1680	2100

Specification

Port Sizes (")

4F

DN100
Flange

Cartridge Compatibility (")

30

40

End-Cap Compatibility

222

EG/EH
Ended
eg. Pleat

DOE

Double
open ended
eg. TruDepth

AA

Gasket
ended
eg. Carbon

Temperature (°C) Pressure Rating (bar)

120

10

Materials

Head & Body - 316L Stainless Steel - Polycoated
Eye Nut & Swing Bolt - 304 & Zinc Plated Steel
Legs - 304 Stainless Steel
O-Ring - Buna-N

Code	Description	Box Weight (kg)
PFH-SPC-21-30-4F-GP-ML	SPECTRUM INOX Premier Filter Housing 21X30" 4" DN100 Flange with Gauges	218
PFH-SPC-21-40-4F-GP-ML	SPECTRUM INOX Premier Filter Housing 21X40" 4" DN100 Flange with Gauges	237

Multi-Round Inox Filter Housings

Premier - 36 Round

The largest multi-cartridge housing, the 36 round exemplifies a blend of functionality and ease-of-use in high capacity industrial applications. Cartridge change out can be a one person task with no specialist tools with the davit arm and eye bolt configuration. With flow rate capabilities of up to 3600 litres per minute, this housing is supplied with 6" DN150 inlet and outlet connections, drain ports for complete emptying of the housing during changeout and pressure gauges to provide accurate differential pressure readings for monitoring filter cartridge performance.



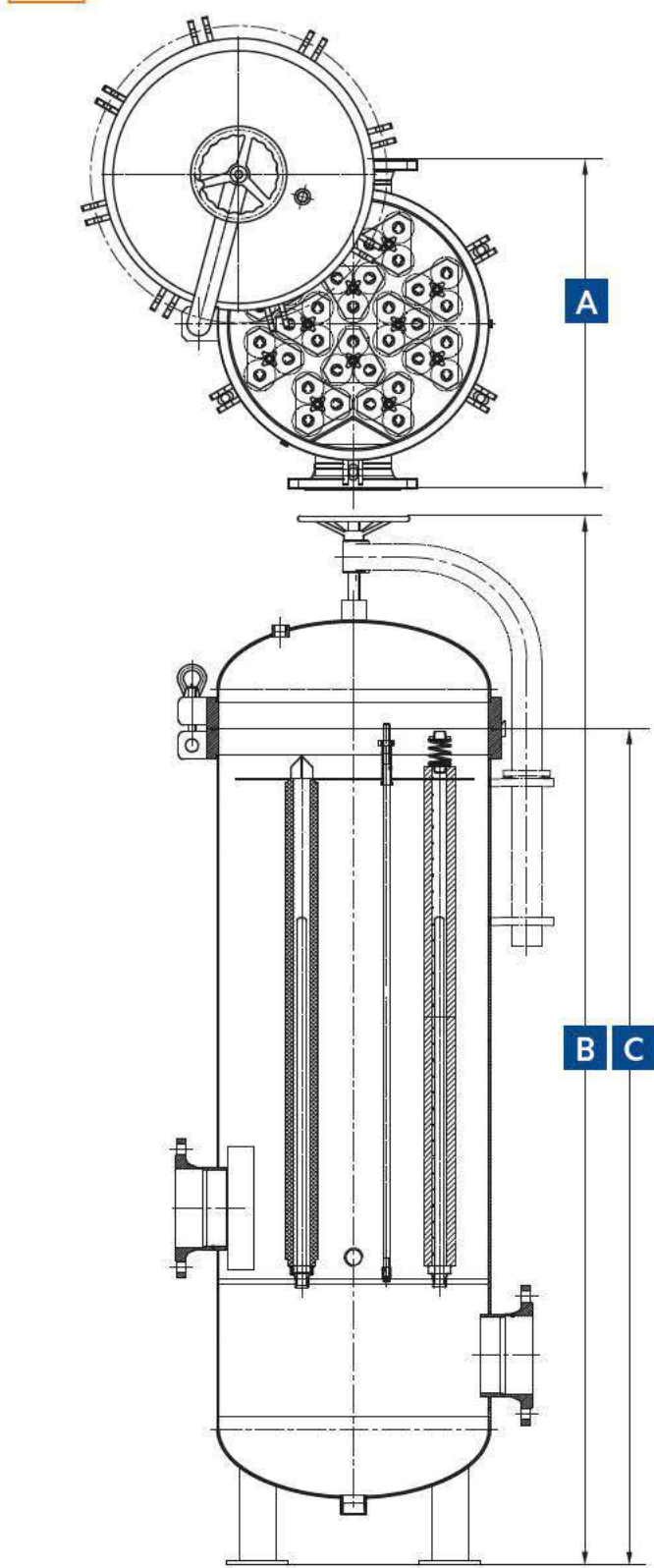
dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SPC-36-40	728	2146	1704

Key Features

- Swing bolt closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge change-outs
- Protective polycoat finish

Pressure Vent

Vent pressure after use or release trapped air after cartridge changeout.

Swing Bolt

Provides a quick and convenient sealing method.

Tie Rod and Top Plate

Mobile, adjustable plates ensure simple installation and allows for length variations.

Inlet

6" DN150 flanged connection as standard.

4x Mounting Legs

Heavy duty, stainless steel legs bolt to the floor for security.

Drain Ports

Located on the clean and dirty side, the drain ports allow for easy and quick emptying of the fluid within.

Davit Assembly

Turning wheel to safely lift and swing the head open for cartridge changeout.

Hinged

Allowing for easy removal of the head

Surface Finish

The polycoat finish provides everyday protection, guarding against corrosion.

Universal Cartridge Plate

DOE/AA and 222 compatible.

Outlet

6" DN150 flange carries filtered fluid out.

Pressure Gauges

Supplied as standard with premier housings, the gauges allow for easy monitoring of differential pressure.

Flow Rate (lpm)

Carbon Depth Pleated



Specification

Port Sizes (")

6F

DN150
Flange

Cartridge Compatibility (")

40

End-Cap Compatibility

222

EG/EH
Ended
eg. Pleat

DOE

Double
open ended
eg. TruDepth

AA

Gasket
ended
eg. Carbon

Temperature (°C) Pressure Rating (bar)

120

10

Materials

Head & Body - 316L Stainless Steel - Polycoated
Eye Nut & Swing Bolt - 304 & Zinc Plated Steel
Legs - 304 Stainless Steel O-Ring - Buna-N

Code	Description	Box Weight (kg)
PFH-SPC-36-40-6F-GP-ML	SPECTRUM INOX Premier Filter Housing 36X40" 6" DN150 Flange with Gauges	312

Stainless Steel Multi-Round Housings

Standard

The Standard range is capable of operating up to 700lpm, with flow rates beyond this capacity requiring the feature loaded Premier range. From the 7 x 40" housing down to the 3 x 10", these smaller vessels do not require the additional heavy duty features such as Davit assemblies and swing-bolt lids. Still manufactured from 316L stainless steel, with gauge ports, drain ports and a universal cartridge adaptor to accept AA, DOE and 222 end capped cartridges, this range offers a competitive solution for smaller flow rate applications.

Cartridge Compatibility

Designed to enhance the performance of the SPECTRUM cartridge range, whilst accommodating all industry standard cartridges.



3 Round
11 - 300 lpm



5 Round
19 - 500 lpm



7 Round
27 - 700 lpm

Which Size Housing?

SPECTRUM Standard multi-round housings range in size from 3 round to 7 round, with flow rates from 11 to 700 litres per minute.

dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Multi-Round Inox Filter Housings

Standard - 3 Round

The smallest multi-round housings for rugged environments start at a 3 x 10", offering an alternative solution to where a single round equivalent is at maximum flow. With 2" ports, flow and pressure is dispersed throughout these wide housings and across the multiple cartridges resulting in lower pressure drop and more even particulate distribution. Housings are equipped with gauge ports and drain ports as standard, which allow pressure gauges to be fitted for filter monitoring and the housing to be fully emptied respectively.



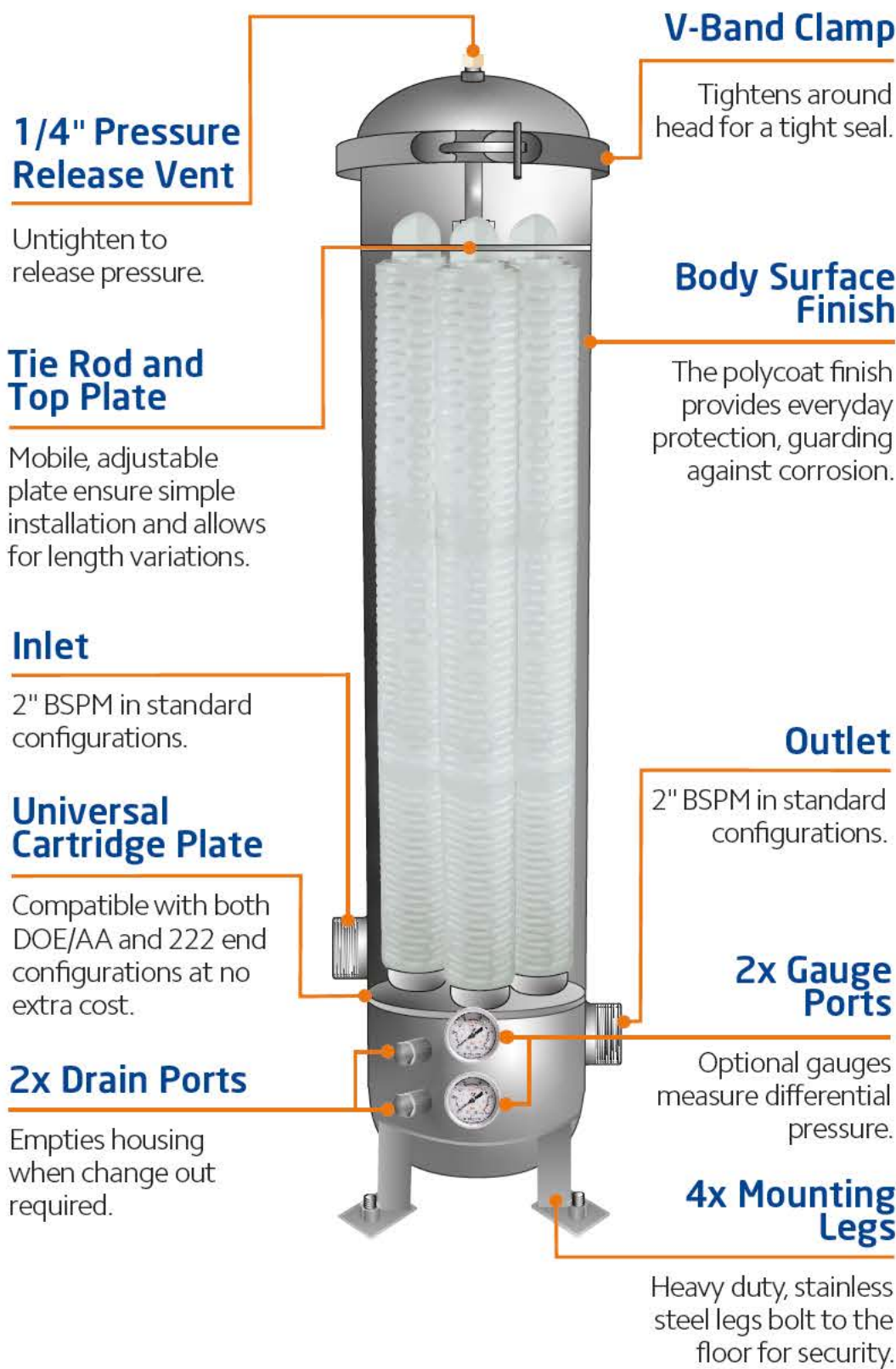
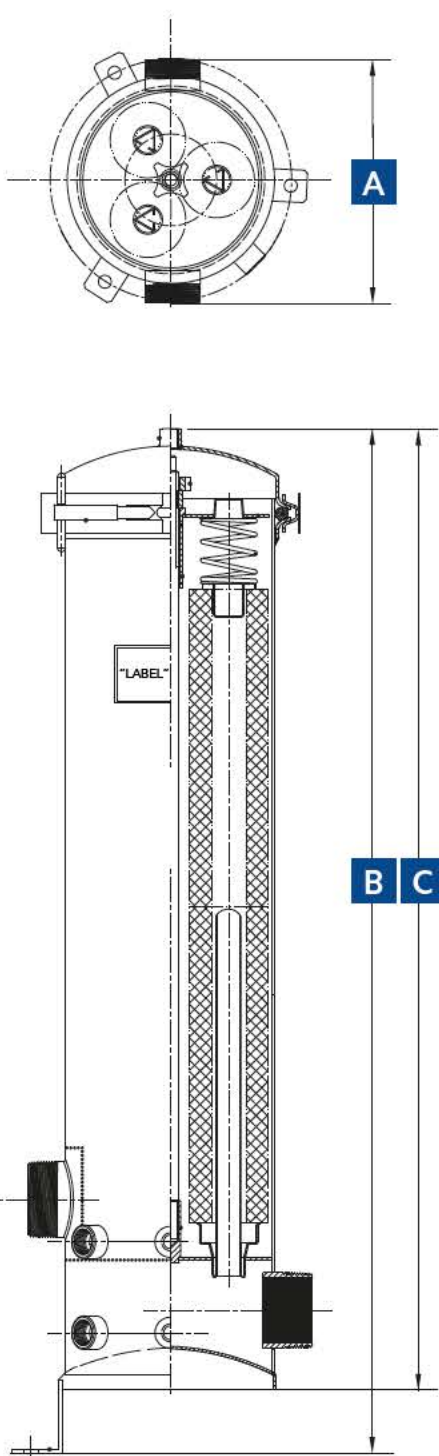
Key Features

- V-Clamp closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge changeout
- Gauges ports come fitted with 316L plugs when gauges are not required

Flow Rate (lpm)

	Carbon	Depth	Pleated
10"	11	60	75
20"	23	120	150
30"	34	180	225
40"	46	240	300

Technical Drawing



Specification

Port Sizes (")

2

BSPM

Cartridge Compatibility (")

9 3/4

upto

40

End-Cap Compatibility

222

EG/EH Ended
eg. Pleat

DOE

Double open ended
eg. TruDepth

AA

Gasket ended
eg. Carbon

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

Head & Body - 316L Stainless Steel - Polycoated

V-Band Clamp - 304 Stainless Steel

Legs - 304 Stainless Steel

O-Ring - Buna-N

* Hydrostatic Pressure Rating

Dimensions (mm)			
Housing	A	B	C
SFH-SPC-3-10	228	568	517
SFH-SPC-3-20	228	822	771
SFH-SPC-3-30	228	1076	1025
SFH-SPC-3-40	228	1330	1279

Code	Description	Box Weight (kg)
SFH-SPC-3-10-2-GP-ML	SPECTRUM INOX Standard Filter Housing 3 X 10" 2" BSPM with Gauge Ports	13
SFH-SPC-3-20-2-GP-ML	SPECTRUM INOX Standard Filter Housing 3 X 20" 2" BSPM with Gauge Ports	16
SFH-SPC-3-30-2-GP-ML	SPECTRUM INOX Standard Filter Housing 3 X 30" 2" BSPM with Gauge Ports	19
SFH-SPC-3-40-2-GP-ML	SPECTRUM INOX Standard Filter Housing 3 X 40" 2" BSPM with Gauge Ports	22

Multi-Round Inox Filter Housings

Standard - 5 Round

An extension of the 3 round range, these 5 round housings take advantage of a nominal cost to increase body size, resulting in an increase in flow rate capacity of over 60%. As with the rest of the Standard range, these housings are supplied with gauge ports, to allow pressure gauges to be fitted for filter monitoring as well as drain ports for effective housing emptying, for easy change out and reduced product wastage.



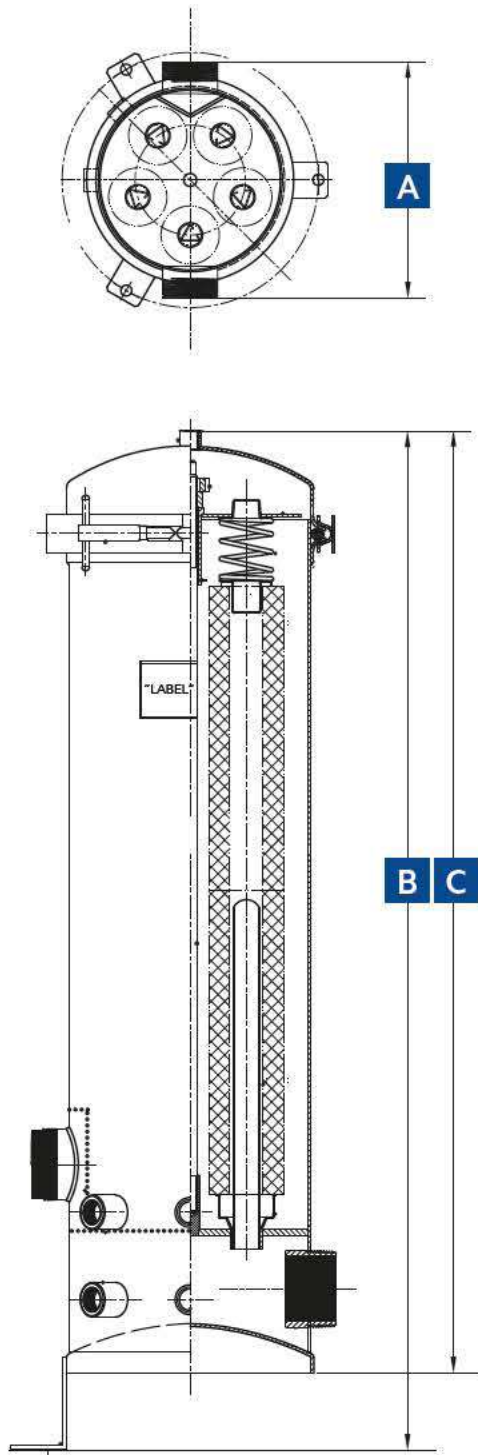
dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
SFH-SPC-5-10	260	603	539
SFH-SPC-5-20	260	857	793
SFH-SPC-5-30	260	1111	1047
SFH-SPC-5-40	260	1365	1301

Key Features

- V-Clamp closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge changeout
- Gauges ports come fitted with 316L plugs when gauges are not required



Code	Description	Box Weight (kg)
SFH-SPC-5-10-2-GP-ML	SPECTRUM INOX Standard Filter Housing 5 X 10" 2" BSPM with Gauge Ports	15
SFH-SPC-5-20-2-GP-ML	SPECTRUM INOX Standard Filter Housing 5 X 20" 2" BSPM with Gauge Ports	18
SFH-SPC-5-30-2-GP-ML	SPECTRUM INOX Standard Filter Housing 5 X 30" 2" BSPM with Gauge Ports	21
SFH-SPC-5-40-2-GP-ML	SPECTRUM INOX Standard Filter Housing 5 X 40" 2" BSPM with Gauge Ports	24

Flow Rate (lpm)

	Carbon	Depth	Pleated
10"	19	100	125
20"	38	200	250
30"	57	300	375
40"	76	400	500

Specification

Port Sizes (")

2

BSPM

Cartridge Compatibility (")

9 3/4

upto

40

End-Cap Compatibility

222

EG/EH Ended
eg. Pleat

DOE

Double open ended
eg. TruDepth

AA

Gasket ended
eg. Carbon

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

Head & Body - 316L Stainless Steel - Polycoated
V-Band Clamp - 304 Stainless Steel
Legs - 304 Stainless Steel
O-Ring - Buna-N

* Hydrostatic Pressure Rating

Multi-Round Inox Filter Housings

Standard - 7 Round

The largest offering in the Standard range, the 7 x 40" housing has a maximum flow rate capacity of 700lpm whilst remaining an economic and ergonomic solution. These housings, due their relatively small footprint are typically combined into parallel systems, for increased flow rate potential or duty-standby systems for applications which require continuous service. Gauge ports and drain ports provide the required functionality for additional filter monitoring and simple cartridge change-out.



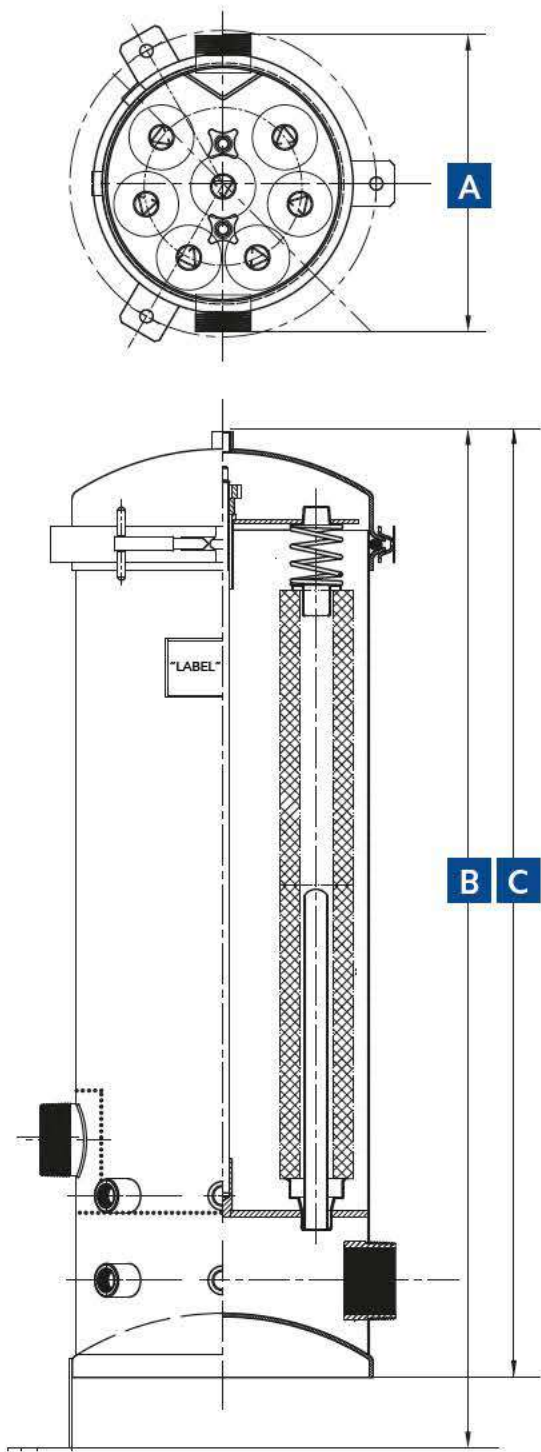
dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
SFH-SPC-7-20	316	885	821
SFH-SPC-7-30	316	1139	1075
SFH-SPC-7-40	316	1393	1329

Key Features

- V-Clamp closure for a secure seal
- Universal cartridge adaptors securely hold 222, DOE or AA cartridges
- Drain ports allow for quick and easy cartridge changeout
- Gauges ports come fitted with 316L plugs when gauges are not required

Flow Rate (lpm)

	Carbon	Depth	Pleated
20"	53	280	350
30"	80	420	525
40"	106	560	700

Specification

Port Sizes (")

2

BSPM

Cartridge Compatibility (")

20

30

40

End-Cap Compatibility

222

EG/EH
Ended
eg. Pleat

DOE

Double
open ended
eg. TruDepth

AA

Gasket
ended
eg. Carbon

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

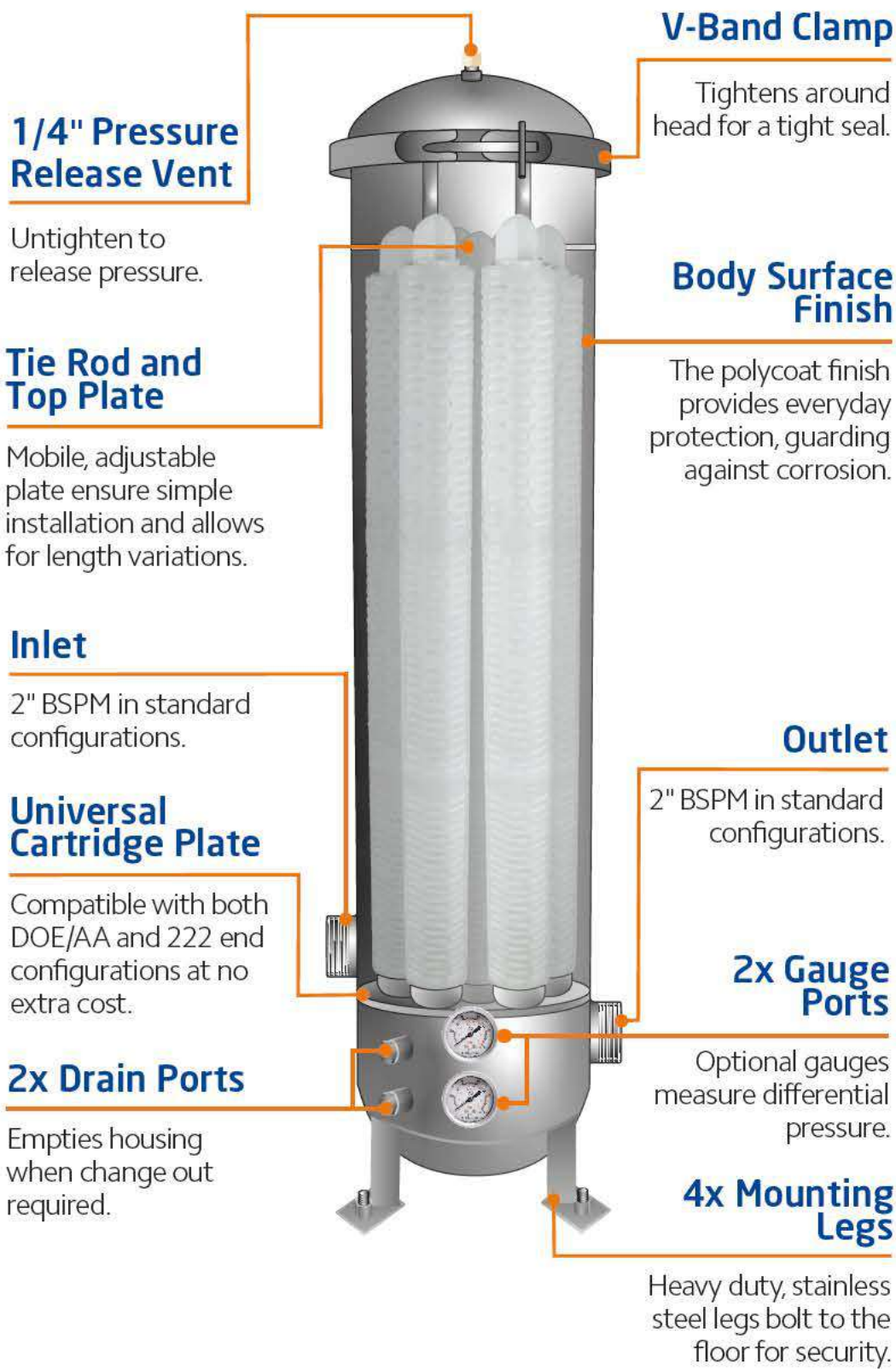
Head & Body - 316L Stainless Steel - Polycoated

V-Band Clamp - 304 Stainless Steel

Legs - 304 Stainless Steel

O-Ring - Buna-N

* Hydrostatic Pressure Rating



Code	Description	Box Weight (kg)
SFH-SPC-7-20-2-GP-ML	SPECTRUM INOX Standard Filter Housing 7 X 20" 2" BSPM with Gauge Ports	24
SFH-SPC-7-30-2-GP-ML	SPECTRUM INOX Standard Filter Housing 7 X 30" 2" BSPM with Gauge Ports	29
SFH-SPC-7-40-2-GP-ML	SPECTRUM INOX Standard Filter Housing 7 X 40" 2" BSPM with Gauge Ports	34

Inox High Flow Filter Housings

Single and Multi-Round Options

High flow housings are relatively new to the market, providing filtration solutions for particulate removal up to 13,300lpm. With specially designed filter cartridges, highflow installations offer advantages over regular diameter cartridges, such as, lower capital costs, higher dirt-holding capacities, fewer changeouts and in turn reduced manpower and system downtime. The housing range accepts most marketplace high flow cartridges but has been engineered to provide optimum results with the SPECTRUM High Flow Premier Pleats (PPP-HF & PPG-HF).

Flows up to 13,300 lpm

Starting with the single round vessels capable of achieving flows over 1300 lpm through to the enormous 13,000+ lpm capabilities of the 7 round, this range has the operator in mind with Davit arm assemblies on larger vessels providing safe and simple opening/closing of the housing. Cartridge handling is swift and requires less manpower with the cartridges inserted into defined positions for ease of operation.

Which Size Housing?

SPECTRUM High Flow housings range in size from 1 round to 7 round, with flow rates from 1300 to 13,300 litres per minute.

1 Round

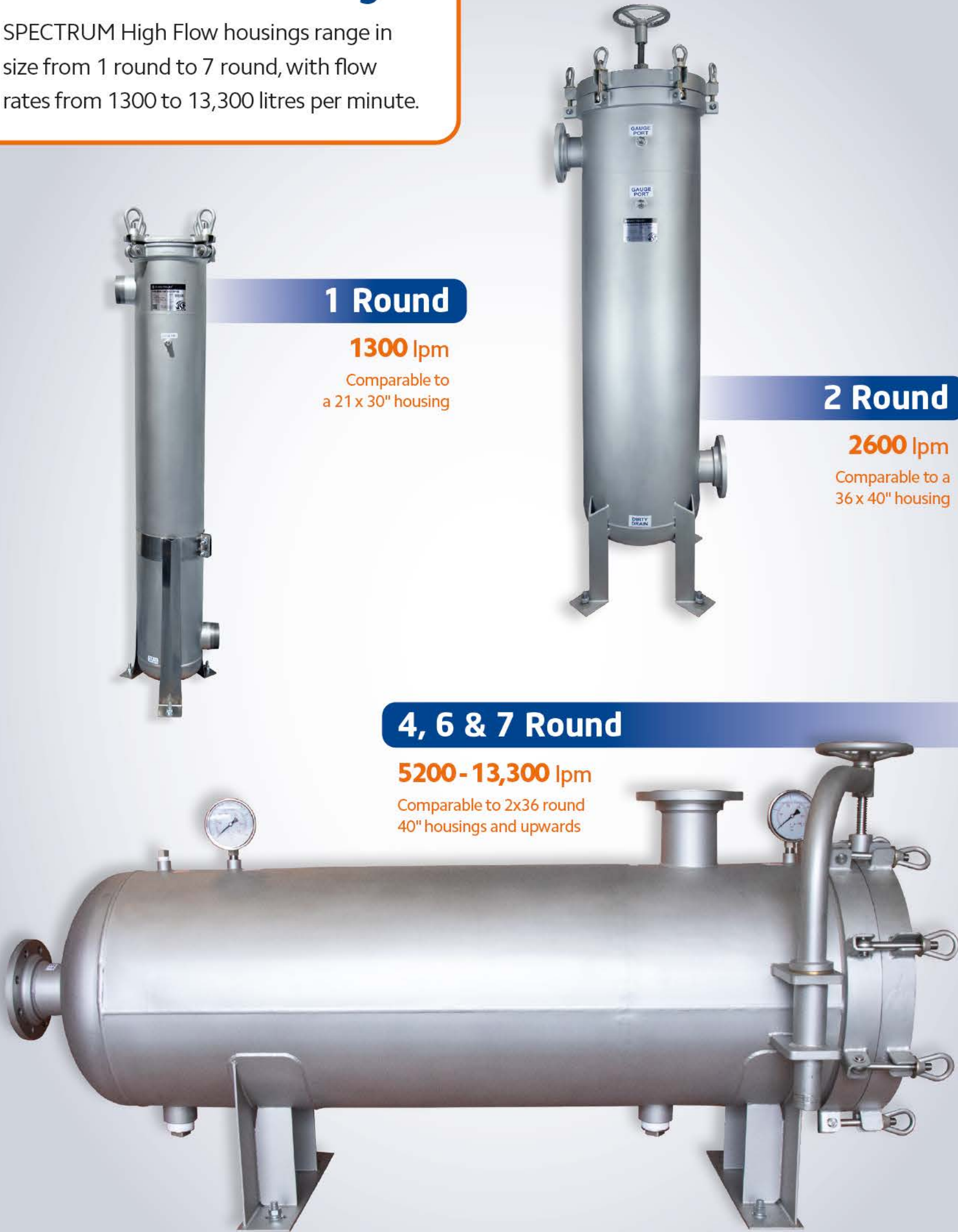
1300 lpm
Comparable to
a 21 x 30" housing

2 Round

2600 lpm
Comparable to a
36 x 40" housing

4, 6 & 7 Round

5200 - 13,300 lpm
Comparable to 2x36 round
40" housings and upwards



dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

High Flow vs Traditional Cartridges

Enhanced Design

- Offers up to 350% higher flowrate than regular diameter cartridge alternatives
- Reduced footprint can provide the perfect solution to limited floorspace installations
- Swing-bolt closures allow tool-free changeout, significantly reducing valuable labour time

Reduced Costs

- Engineered housings allow higher flow rates in a comparably smaller design offering significant cost savings
- Replacement high flow cartridges can cost over 80% less than regular diameter cartridges for the same flow rate system

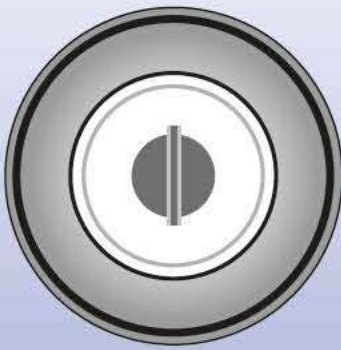
Higher Dirt Holding

- Increased surface area and multi-layered graded density filter matrix provides greater dirt holding capacity
- A single 40" high flow cartridge can hold as much as 7kg of dirt, equivalent to almost 5 x 40" regular cartridges
- Increased dirt holding capacity results in fewer changeouts and less system downtime

Simple to Install

- Simple to install, highflow cartridges have an ergonomic and robust handle for easy changeout
- 6" diameter pleated design creates massive surface area allowing huge flow rates and low pressure drops
- Inside-to-out flow pattern ensures particulate is retained within the cartridge during changeout

1 Round 1300 lpm

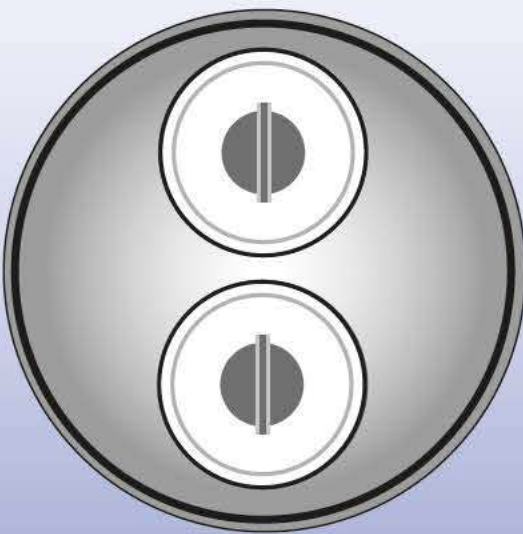


1 High Flow Cartridge

VS

13 Pleated Cartridges
(40" Length)

2 Round 2600 lpm

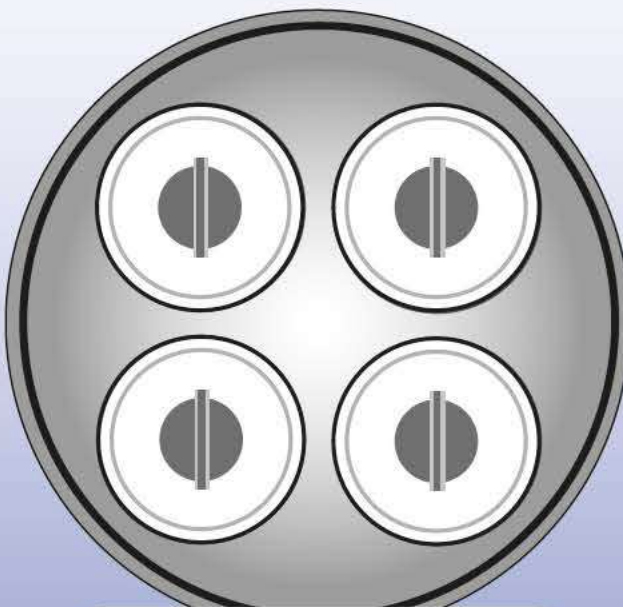


2 High Flow Cartridges

VS

26 Pleated Cartridges
(40" Length)

4 Round 5200 lpm

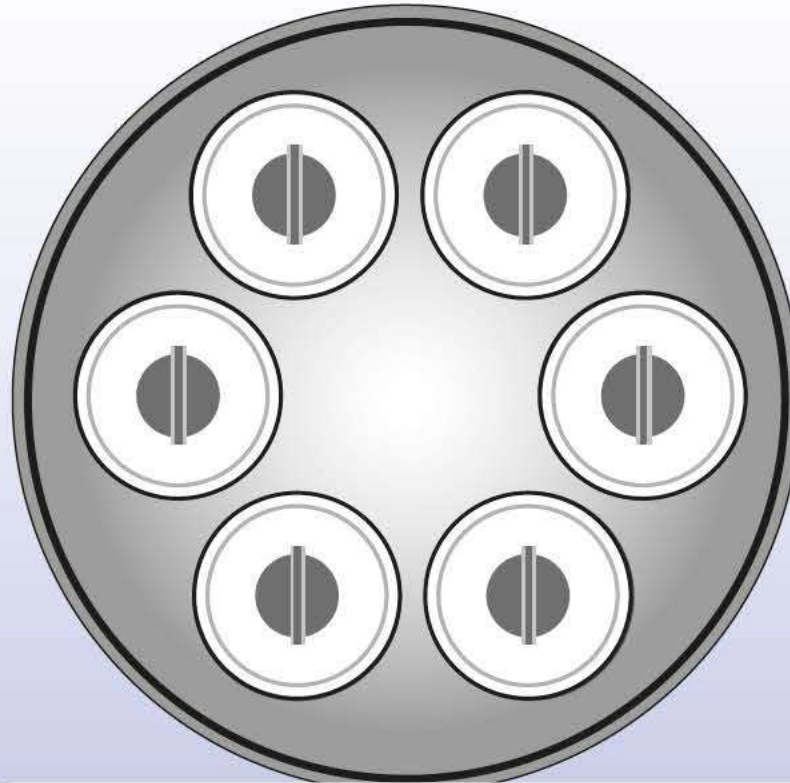


4 High Flow Cartridges

VS

52 Pleated Cartridges
(40" Length)

6 Round 7800 lpm

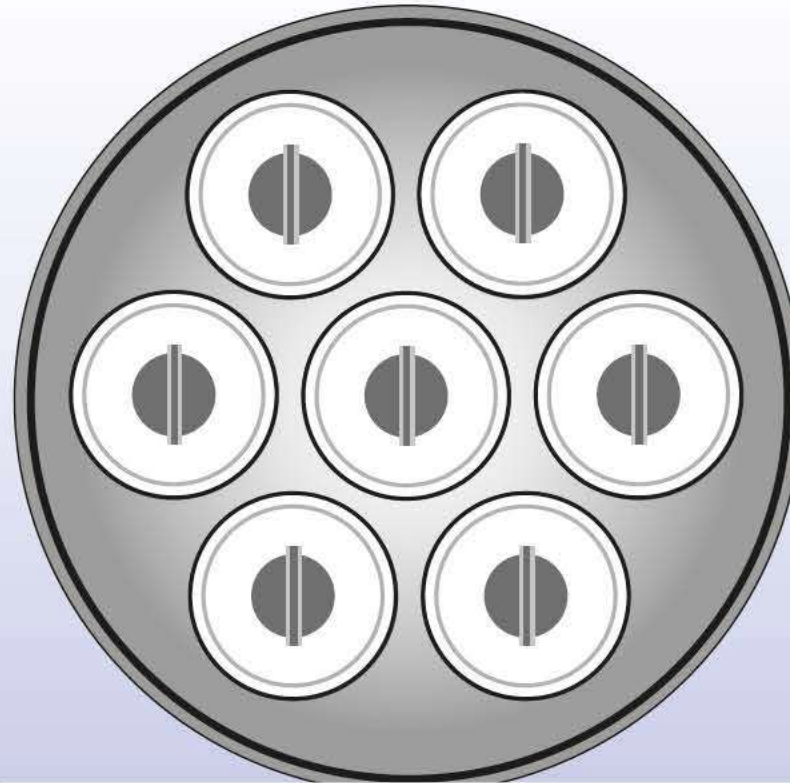


6 High Flow Cartridges

VS

78 Pleated Cartridges
(40" Length)

7 Round 13,300 lpm

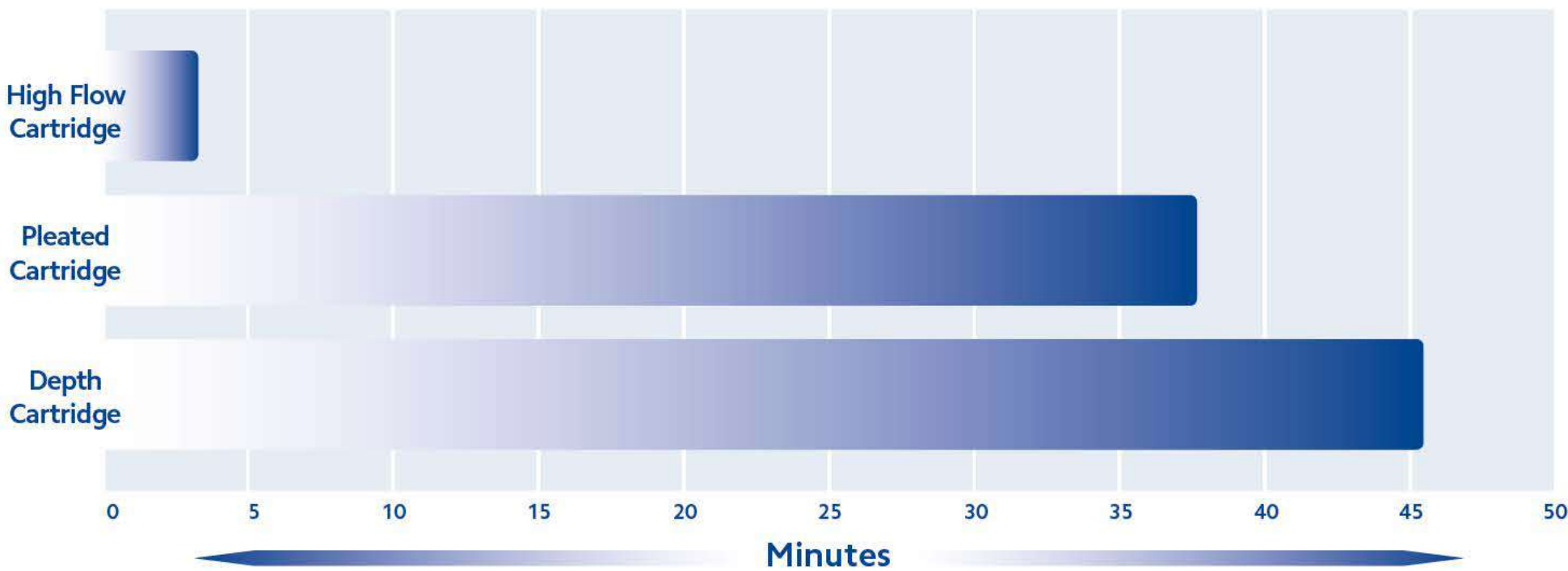


7 High Flow Cartridges

VS

133 Pleated Cartridges
(40" Length)

Changeout time for a 1300 LPM system



Inox High Flow Filter Housings

Features

Manufactured from 316L stainless steel, the SPECTRUM Inox High Flow range is supplied with a host of easy-to-use features such as swing bolt and Davit arm closure mechanisms for reduced change out time, included pressure gauges for accurate pressure drop monitoring, a housing top plate to reduce bypass and flanged inlet and outlet ports to suit typical industry pipework.

Cartridge Compatibility

SPECTRUM High Flow filters are high surface area filters developed to suit large scale applications where maximum efficiency is required.



Gauges

Pressure gauges (supplied as standard) optimise service life, acting as a visual indicator for cartridge changeout.



Pressure Vent

Used to depressurise the housing and allow safe handling.



Housing Body

316L stainless steel body with glass beaded finish provides durability.

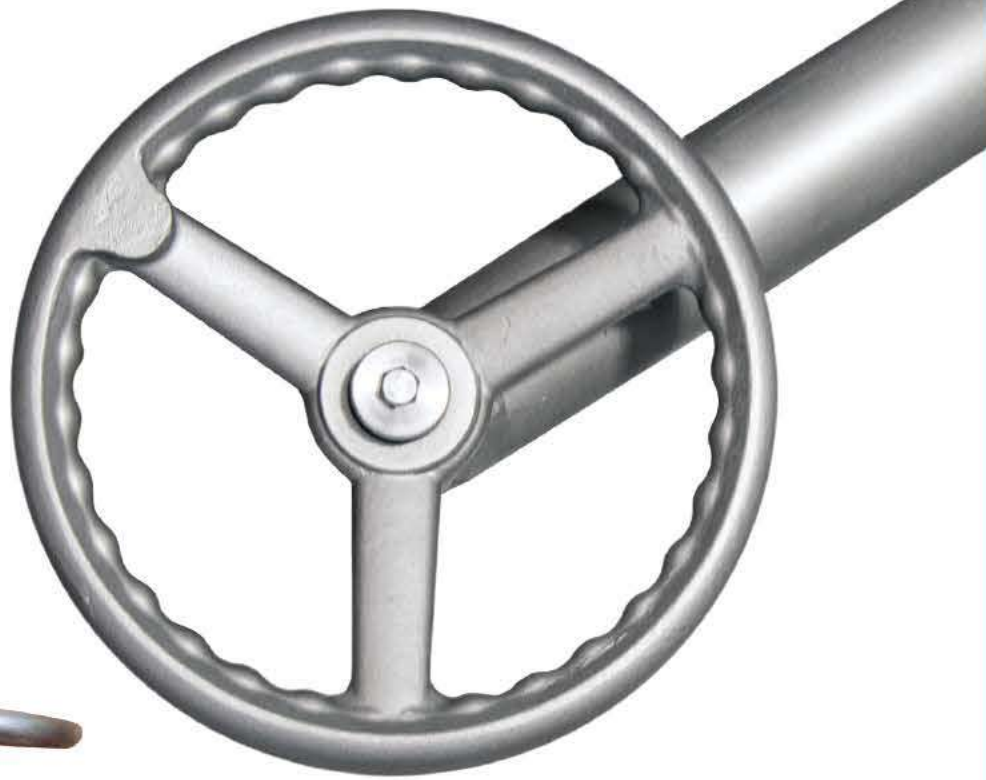


Top Plate

Once cartridges are installed a top plate is fitted for safety and security to prevent bypass.

Davit Arm Assembly

Manufactured as standard on all multi-round systems, the Davit arm assembly enables quick cartridge changeout and safe operation.



Flange

Supporting easy engineering and high flow rates, all multi-round systems come with flanged connections.



Drains

Enables efficient draining of the unit to allow quick and easy changeout.

Mounting Legs

Heavy duty, stainless steel, saddle style legs bolt to the floor, offering stability and security.



High Flow Filter Housing

1 Round x 40" Cartridge

Requiring no tools for fast and easy filter changeout, this single round housing provides an option to a regular diameter multi-cartridge housing at 15% of the capital cost and almost a 50% reduction in footprint. The only housing in the highflow housing range to have adjustable legs allowing control over the vessels height, making installation simple and stress-free.

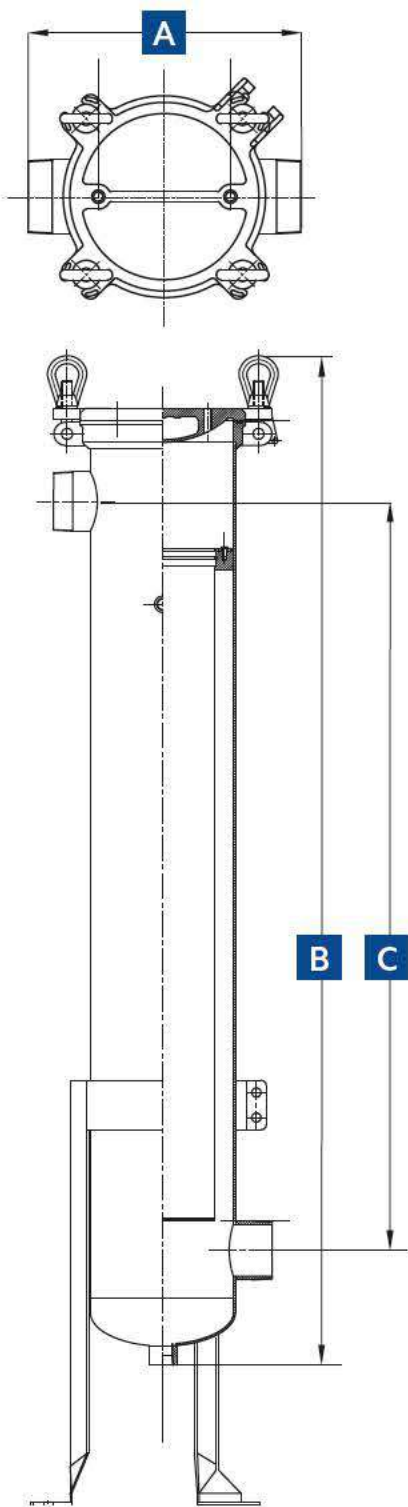


dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SGB-1HF-40	330	1529	1135

Key Features

- Swing bolt closure for easy changeout
- Adjustable legs to aid installation
- Drain port as standard, to allow for easy emptying of system and to help avoid contact with fluid
- Pressure gauges to optimise cartridge life

Flow Rate (lpm)



Specification

Port Sizes (BSPM")

3

Cartridge Compatibility (")

40

High Flow
Cartridge

End-Cap Compatibility



Single Open
Ended High Flow

Temperature (°C)

120

Pressure Rating (bar)*

10

Materials

Head - 316L Glass Bead Cast Stainless Steel

Body - 316L Glass Bead Stainless Steel

Gasket - Buna-N

* Hydrostatic Pressure Rating

Pressure Vent

Depressurise housing for safe and easy changeout.

Inlet

3" BSPM.

Pressure Gauges

Provided with pressure gauges to enable quick reference to pressure drop.

Cartridge

High flow cartridge provides increased flow and dirt loading.

Adjustable Legs

Heavy duty, stainless steel legs bolt to the floor for security.

Swing Bolt Closure

Hinged head design for safe and secure sealing.

Top Plate

Ensures simple installation and support.

Housing Body

316L stainless steel body with glass beaded finish provides durability and corrosion resistance.

Outlet

3" BSPM.

Drain

Allows for easy and quick evacuation of the fluid within.

Code	Description	Box Weight (kg)
PFH-SGB-1HF-40-3-GP-ML	SPECTRUM High Flow Housing 316 SS 1 Round 40" with 3" Ports	63

High Flow Filter Housing

2 Round x 40" Cartridges

For a 75% footprint increase over the single round housing, the two round High Flow delivers a 100% greater flow rate. Benefitting from a Davit arm assembly which provides simple and safe lid maneuvering, this housing accommodates two cartridges which are held in place with a holding plate for security.



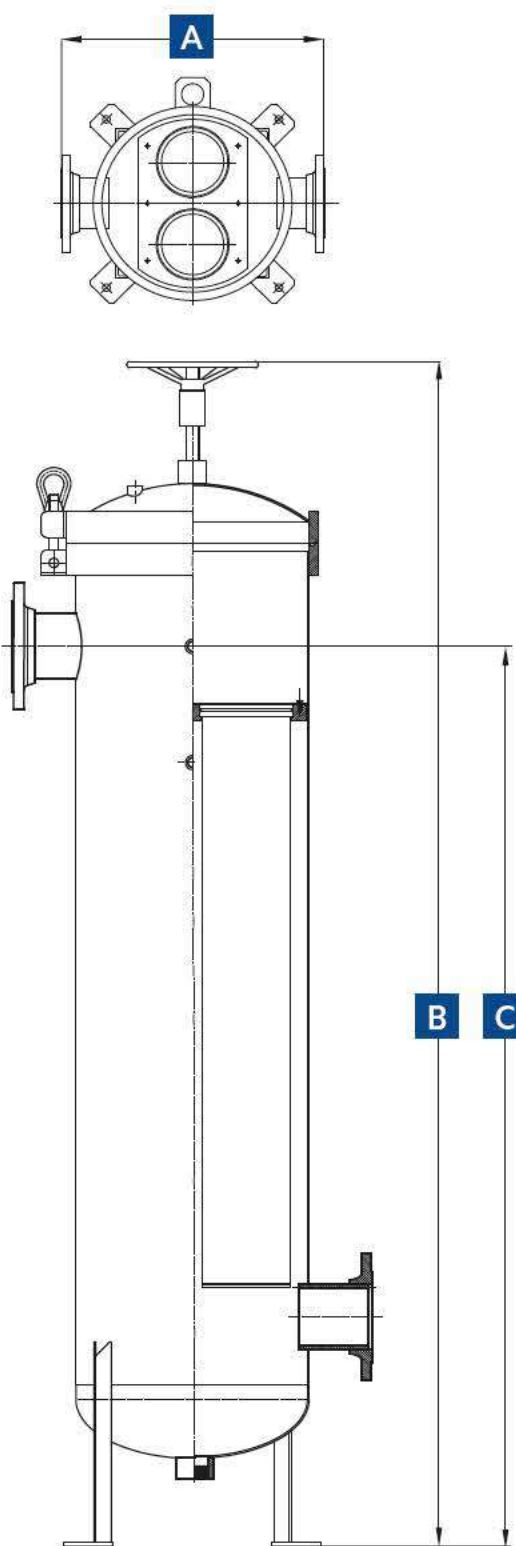
dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SGB-2HF-40	580	2068	1570

Key Features

- Davit arm assembly for safe and easy changeout
- Swing bolt closure for additional security
- Small footprint for an increased flow rate

Flow Rate (lpm)

Pleated

PPP-HF

2600

PPG-HF

2100

Specification

Port Sizes (Flange")

4

Cartridge Compatibility (")

40

High Flow
Cartridge

End-Cap Compatibility

SOE

Single Open
Ended High Flow

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

Head - 316L Glass Bead Cast Stainless Steel

Body - 316L Glass Bead Stainless Steel

Gasket - Buna-N

* Hydrostatic Pressure Rating

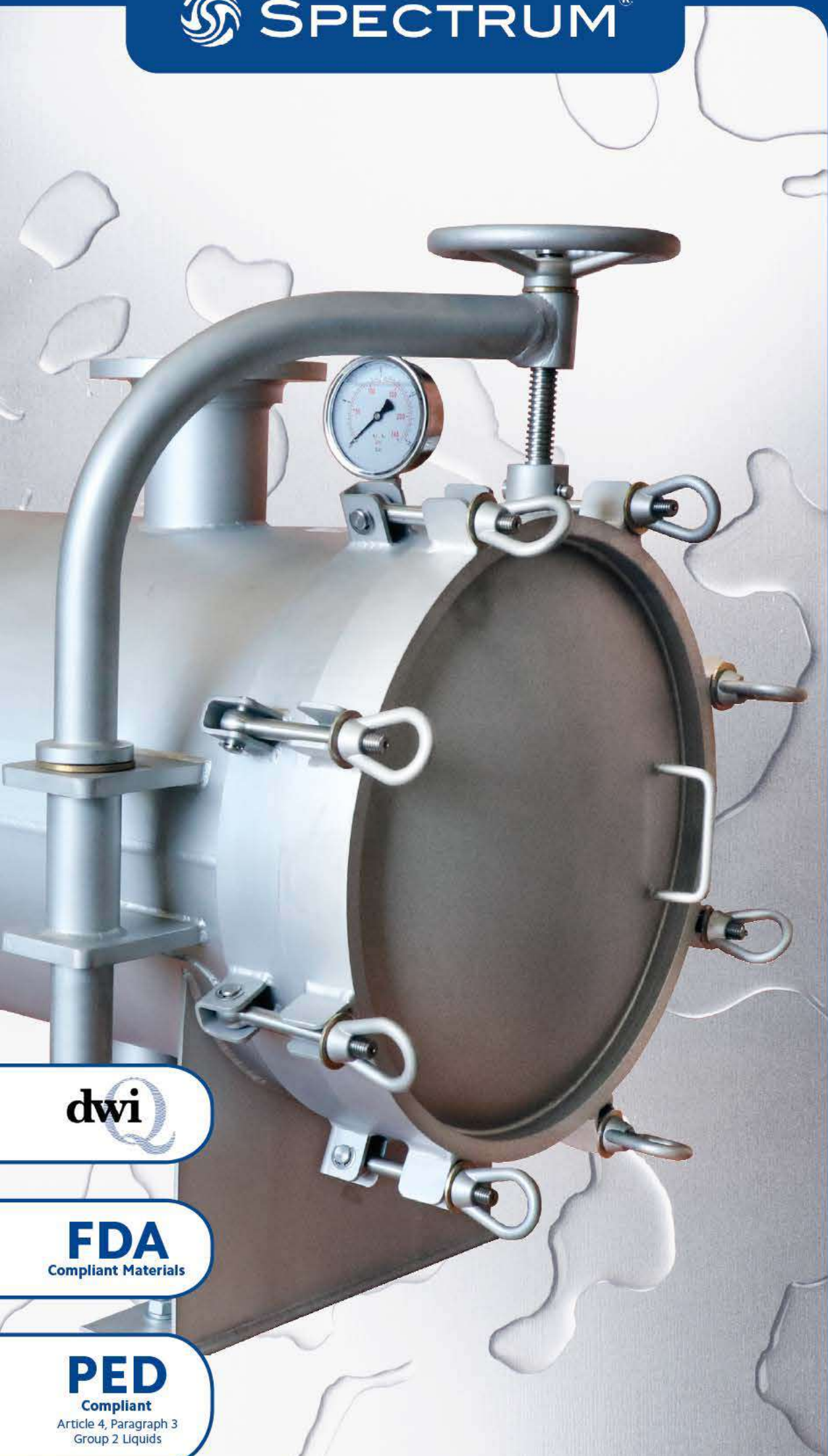


Code	Description	Box Weight (kg)
PFH-SGB-2HF-40-4F-GP-ML	SPECTRUM High Flow Housing 316 SS 2 Round 40" with 4" Flange	181

High Flow Filter Housing

4 Round x 40" Cartridges

Doubling the flow capacity of the 2 round housing, the 4 round vessel is the first in the range capable of producing over 5,200 lpm and are horizontal in orientation. With the vessel opening being lower to the ground, this design provides quick and simple cartridge handling with reduced manpower required for cartridge changeout.



dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Key Features

- Horizontal design allows for quick and easy changeout
- Baskets installed to provide cartridge support during use
- Davit arm assembly swings open for easy access to cartridges
- Two drain ports allow for efficient emptying

Flow Rate (lpm)

Pleated

PPP-HF

5200

PPG-HF

4200

Specification

Port Sizes (Flange")

4

Cartridge Compatibility (")

40

High Flow
Cartridge

End-Cap Compatibility

SOE

Single Open
Ended High Flow

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

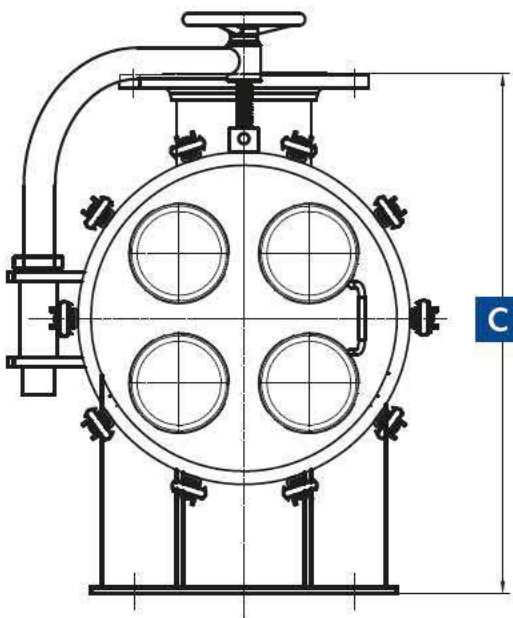
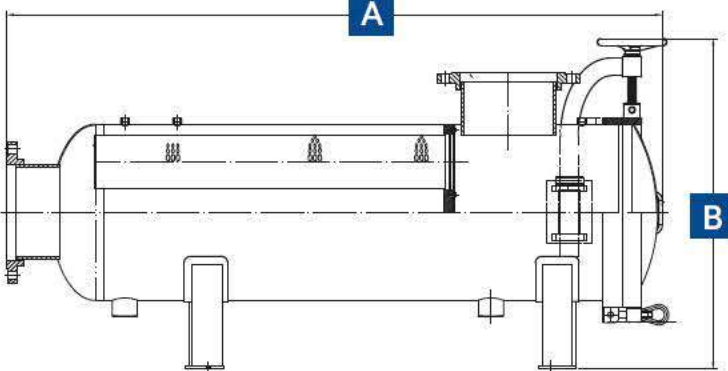
Head - 316L Glass Bead Cast Stainless Steel

Body - 316L Glass Bead Stainless Steel

Gasket - Buna-N

* Hydrostatic Pressure Rating

Technical Drawing



Pressure Gauges

Enables a quick reference to pressure drop.

Davit Arm Assembly

Ensuring the housing lid can be maneuvered safely.

High Flow Cartridges

Provides efficient filtration at increased flows.

Flanges

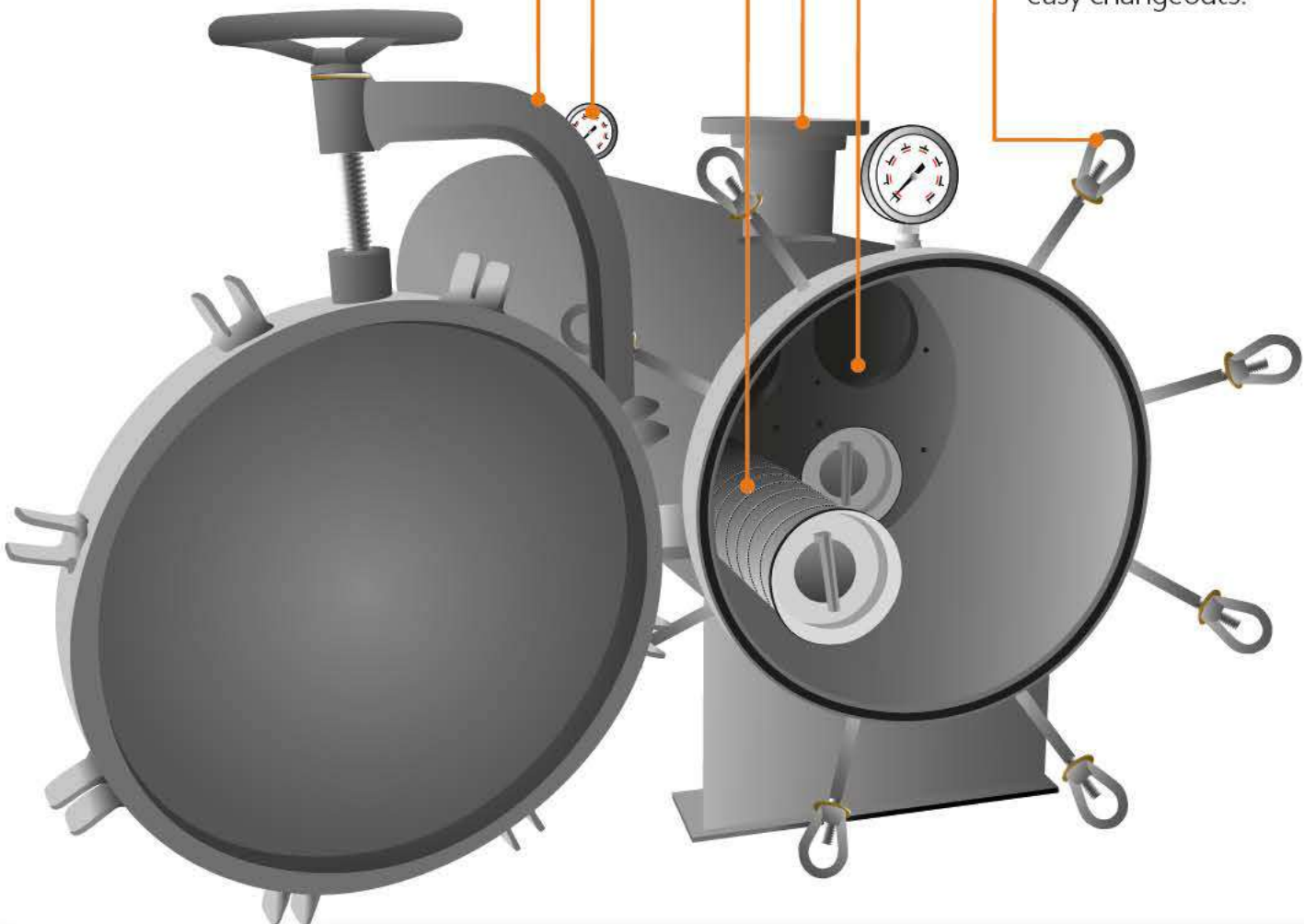
4" DN100 connections on inlet and outlet.

Top Plate & Basket

Offers support, security and seamless installation.

Swing Bolt

Allowing quick and easy changeouts.



Dimensions (mm)

Housing	A	B	C
PFH-SGB-4HF-40	1766	948	850

Code

Description

Box Weight (kg)

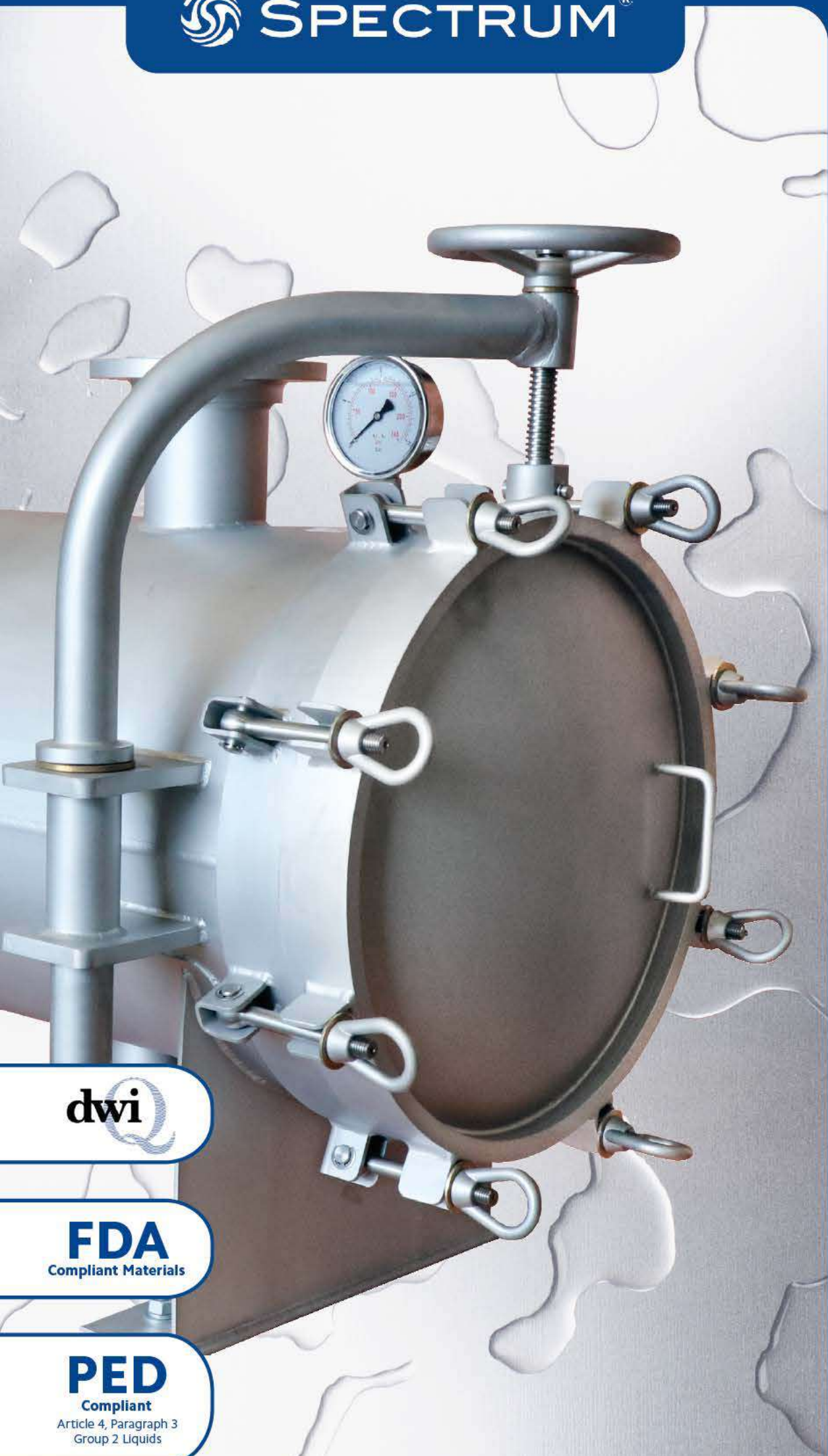
PFH-SGB-4HF-40-4F-GP-HML SPECTRUM High Flow Housing 316 SS 4 Round 40" with 4" Flange

273

High Flow Filter Housing

6 Round x 40" Cartridges

The largest housing in the 40" cartridge size, these 6 round vessels come with 6" DN150 flanges to facilitate the flow rate potential of nearly 8,000 lpm. Including the numerous features which are present in the rest of the range, this housing would require over 100 standard cartridges across 3 housings to achieve the equivalent flow rates.



dwi

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Key Features

- Horizontal design allows for quick and easy changeout
- Baskets installed to provide cartridge support during use
- Davit arm assembly swings open for easy access to cartridges
- Two drain ports allow for efficient emptying

Flow Rate (lpm)

Plated

PPP-HF

7800

PPG-HF

6300

Specification

Port Sizes (Flange")

6

Cartridge Compatibility (")

40

High Flow
Cartridge

End-Cap Compatibility

SOE

Single Open
Ended High Flow

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

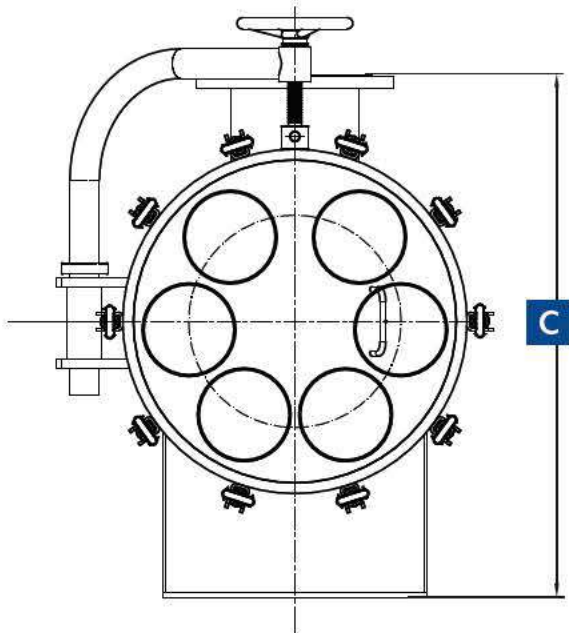
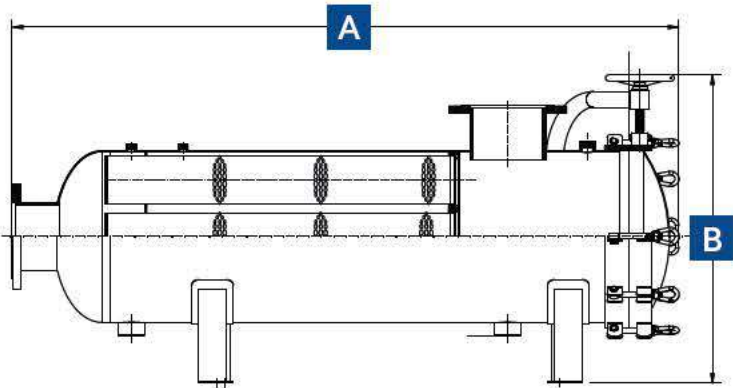
Head - 316L Glass Bead Cast Stainless Steel

Body - 316L Glass Bead Stainless Steel

Gasket - Buna-N

* Hydrostatic Pressure Rating

Technical Drawing



Pressure Gauges

Enables a quick reference to pressure drop.

Davit Arm Assembly

Ensuring the housing lid can be maneuvered safely.

High Flow Cartridges

Provides efficient filtration at increased flows.

Flange

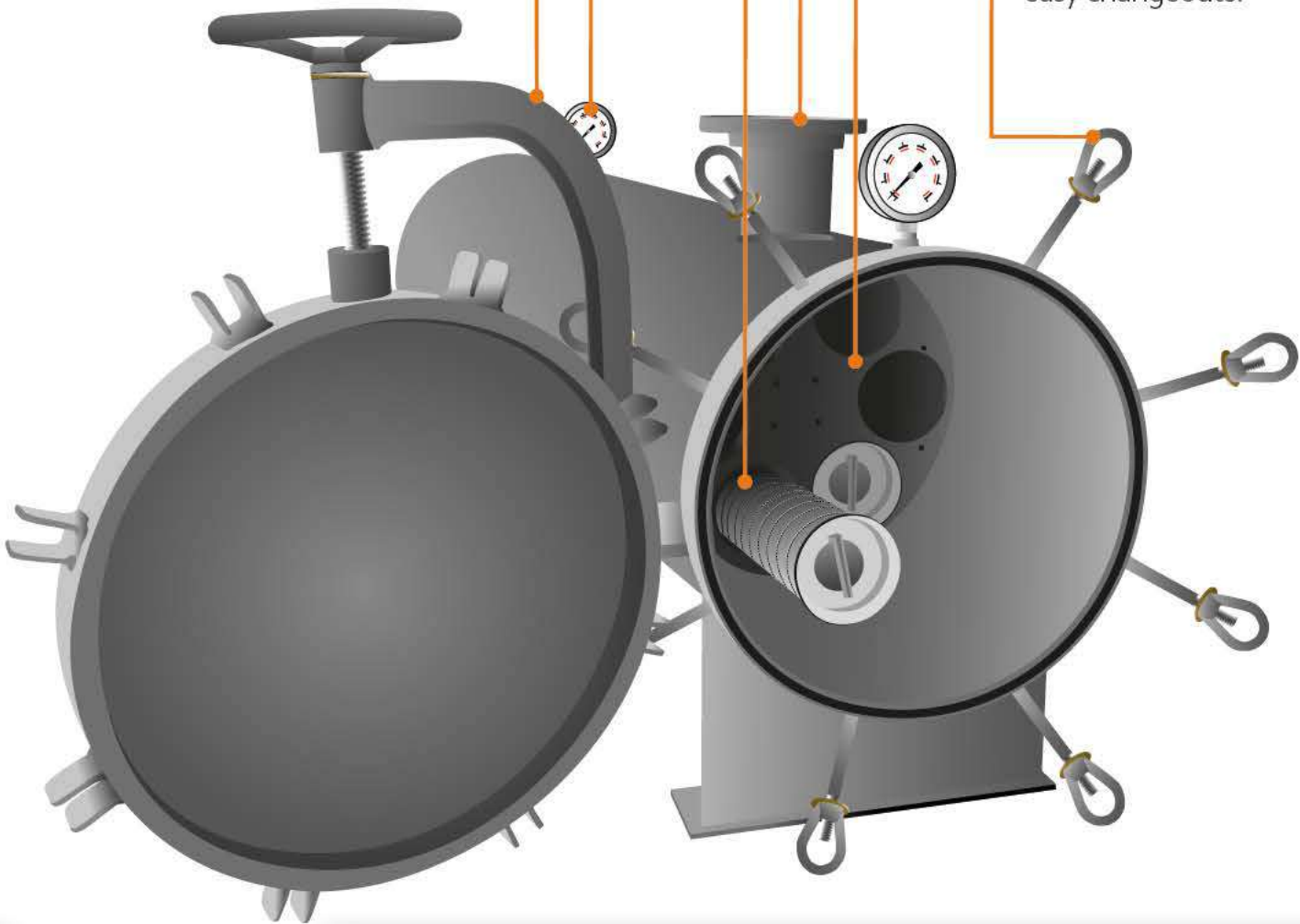
6" DN150 connections on inlet and outlet.

Top Plate

Offers support, seamless and secure installation.

Swing Bolt

Allowing quick and easy changeouts.



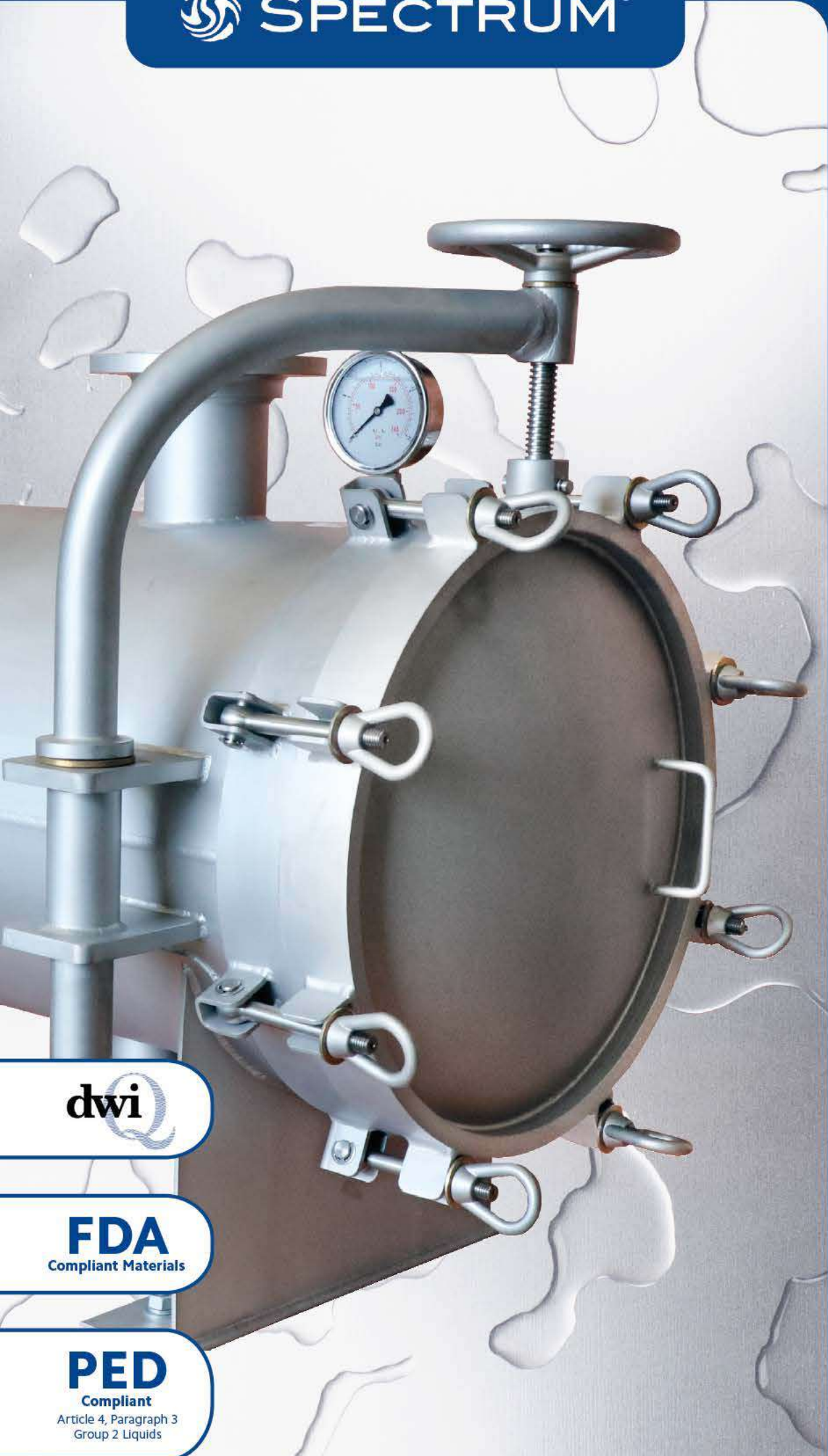
Dimensions (mm)			
Housing	A	B	C
PFH-SGB-6HF-40	1785	998	900

Code	Description	Box Weight (kg)
PFH-SGB-6HF-40-6F-GP-HML	SPECTRUM High Flow Housing 316 SS 6 Round 40" with 6" Flange	351

High Flow Filter Housing

Multi Round - 7 x 60" Cartridges

Achieving true high flow capabilities, the 7 round vessel is the largest of the SPECTRUM Inox range accepting high flow cartridges of 60" length and fitted with 6" DN150 flanges to achieve flow rates in excess of 13,300 lpm.



dwi

FDA
Compliant Materials

PED
Compliant

Article 4, Paragraph 3
Group 2 Liquids

Key Features

- Horizontal design allows for quick and easy changeout
- Baskets installed to provide cartridge support during use
- Davit arm assembly swings open for easy access to cartridges
- Two drain ports allow for efficient emptying

Flow Rate (lpm)

Pleated

PPP-HF

13,300

PPG-HF

10,000

Specification

Port Sizes (Flange")

6

Cartridge Compatibility (")

60

High Flow
Cartridge

End-Cap Compatibility

SOE

Single Open
Ended High Flow

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

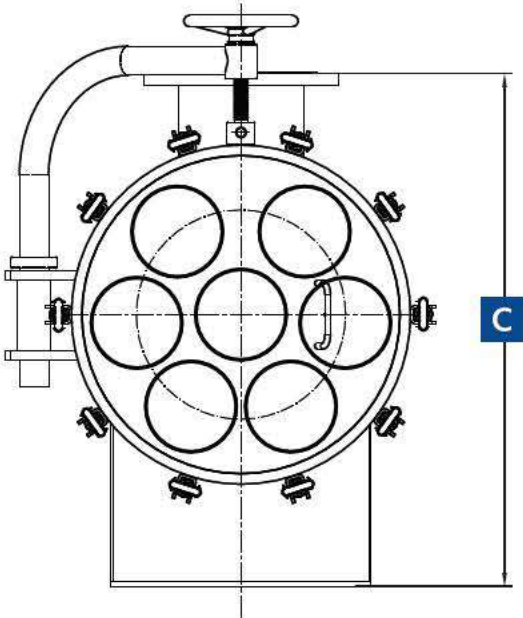
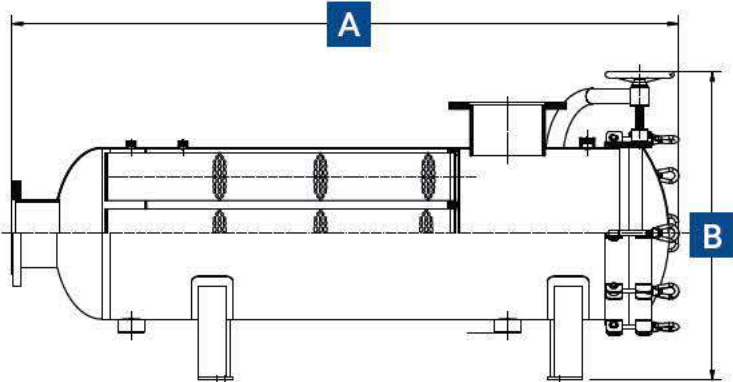
Head - 316L Glass Bead Cast Stainless Steel

Body - 316L Glass Bead Stainless Steel

Gasket - Buna-N

* Hydrostatic Pressure Rating

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PFH-SGB-7HF-60	2293	998	900

Pressure Gauges

Enables a quick reference to pressure drop.

Davit Arm Assembly

Ensuring the housing lid can be maneuvered safely.

High Flow Cartridges

Provides efficient filtration at increased flows.

Flange

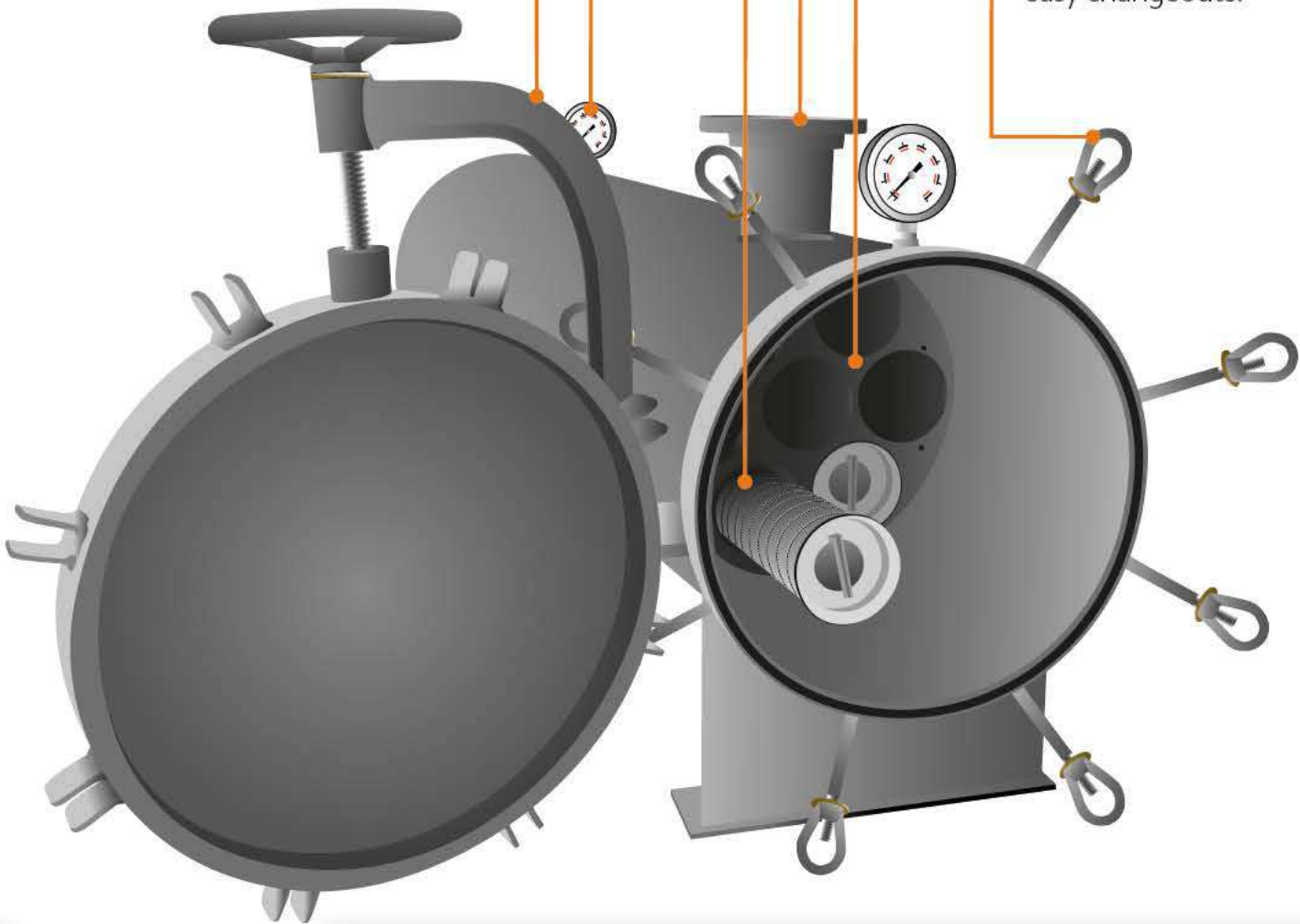
6" DN150 connections on inlet and outlet.

Top Plate

Offers support, seamless and secure installation.

Swing Bolt

Allowing quick and easy changeouts.



Code	Description	Box Weight (kg)
PFH-SGB-7HF-60-6F-GP-HML	SPECTRUM High Flow Housing 316 SS 7 Round 60" with 6" Flange	379

Inox Sanitary Filter Housings

Single and Multi-Round Options

Food and Beverage production requires crevice-free pipework and equipment to reduce the possibility of microbiological growth within the system. SPECTRUM Inox Sanitary housings meet these requirements, as well as Good Manufacturing Practice (GMP) design guidelines, with an industry leading internal surface finish of 0.3µm roughness average (Ra). Satisfying the specification needs of the Life Sciences industry, housings are supplied with tri-clamp inlet and outlet ports, with sanitary style drain ports for complete emptying of the vessel during clean down procedures.

Cartridge Compatibility

For the most sterile of applications, the industry go-to cartridge is a 226 double O-ring filter with locking tabs. The Inox Sanitary range accepts this seal with the option of a fin or recessed end-cap, enabling a tight and secure “twist” sealing mechanism.



1 Round
60 lpm



3 Round
180 lpm



5 Round
400 lpm



7 Round
560 lpm

Which Size Housing?

SPECTRUM Sanitary housings range in size from single round to 7 round, with flow rates from 20 to 560 litres per minute.

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Inox Sanitary Filter Housings

Features

Engineered to the highest standard, these housings have gone through an extensive design process to control microbiological adhesion and promote continued high-quality final product. The range is manufactured from 316L stainless steel and machine polished to produce a crevice-free finish, suitable for full sanitisation and clean down. Tri-clamp connections and a swing bolts provide efficient cartridge changeout, eliminating the need for additional tools and reducing system downtime.



Pressure Gauge

Specifically designed for sanitary housings, the diaphragmed pressure gauge reduces potential contamination whilst providing easy filter monitoring.

Tri-Clover Clamps

Used to secure inlet & outlet ports as well as a pressure gauge at the top of the housing.

Vent/Test Port

For pressure release and integrity testing.

Integrity Tester

To measure filter cartridge properties before, during and after batch runs. PES-IT sold separately.

Serial Number

Each housing has a serial number for product traceability.

Drain Port

Ensures efficient drainage to aid housing cleaning. Larger housings have two ports to reduce product wastage.

Handles

In order to make cartridge changeout easy, handles are positioned on either side of the body.

Housing Body

Highly polished internal and external mirror smooth surfaces reduce microbial adhesion and potential contamination.

Secure Seal

226 end-capped cartridges lock easily into place with a simple twist.

O-ring

Made from EPDM, this provides a positive sealing of the housing body and base.

Legs

3, 5 & 7 round housings are fitted with floor mountable legs. The 1 round housings have screw-on tripod legs.

Eye Bolt

For closure security and operator ease.

Sight Glass

Easily added inline with pipework to provide a visible quality check of the filtrate. PSFH-SG-2 sold separately.

FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Sanitary Filter Housing

1 Round

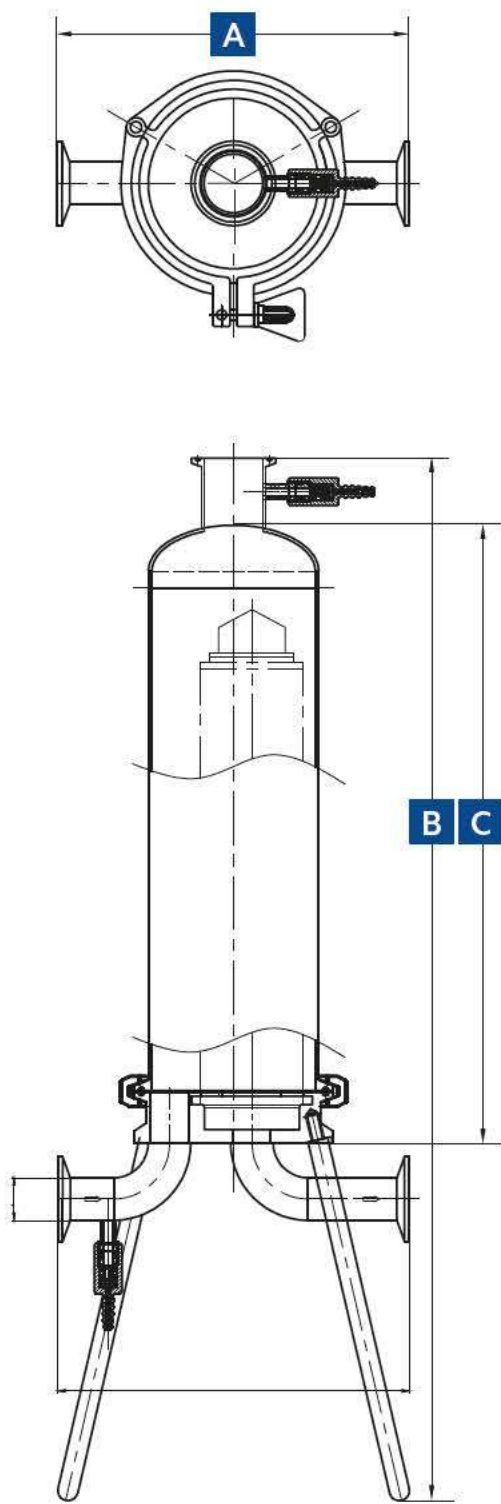
Providing the most flexible option within the Sanitary range in terms of cartridge lengths and port sizes, the single round housing provides a tailored solution for flow rates up to 60 litres per minute. Utilising a tri-clamp closure to cleanly secure the body to the base, this range is supplied as a complete package with a gauge, tri-pod legs, valved vent and drain ports as well as blanking plates for any unused ports.



FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



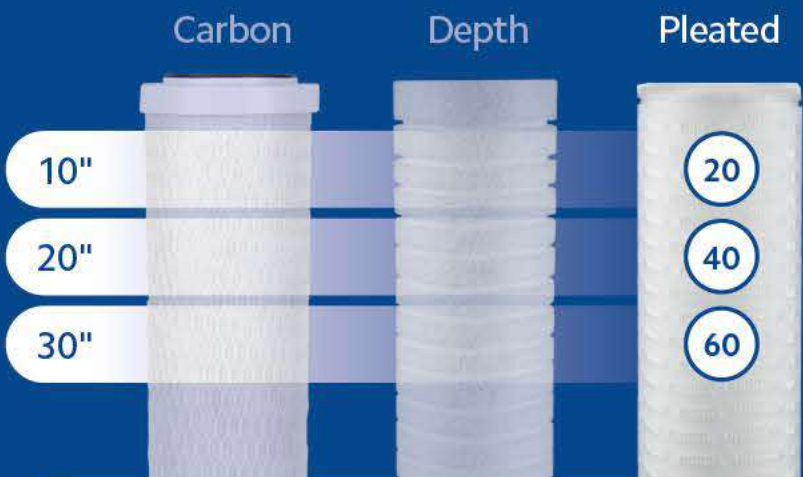
Dimensions (mm)			
Housing	A	B	C
PSFH-SEP-1-10	210	623	300
PSFH-SEP-1-20	210	873	550
PSFH-SEP-1-30	210	1123	800

Dimensions for 1.5" version

Key Features

- 0.3µm Ra internal surface finish
- Tri-clamp ports for industry compatibility
- Diaphragmed pressure gauge included to filter monitoring
- Vent / test port for pressure release and integrity testing
- Accepts 226 end-cap for added security and reduced bypass

Flow Rate (lpm)



Specification

Port Sizes (Tri-Clamp")

1 1.5

Cartridge Compatibility (")

10 20 30

End-Cap Compatibility



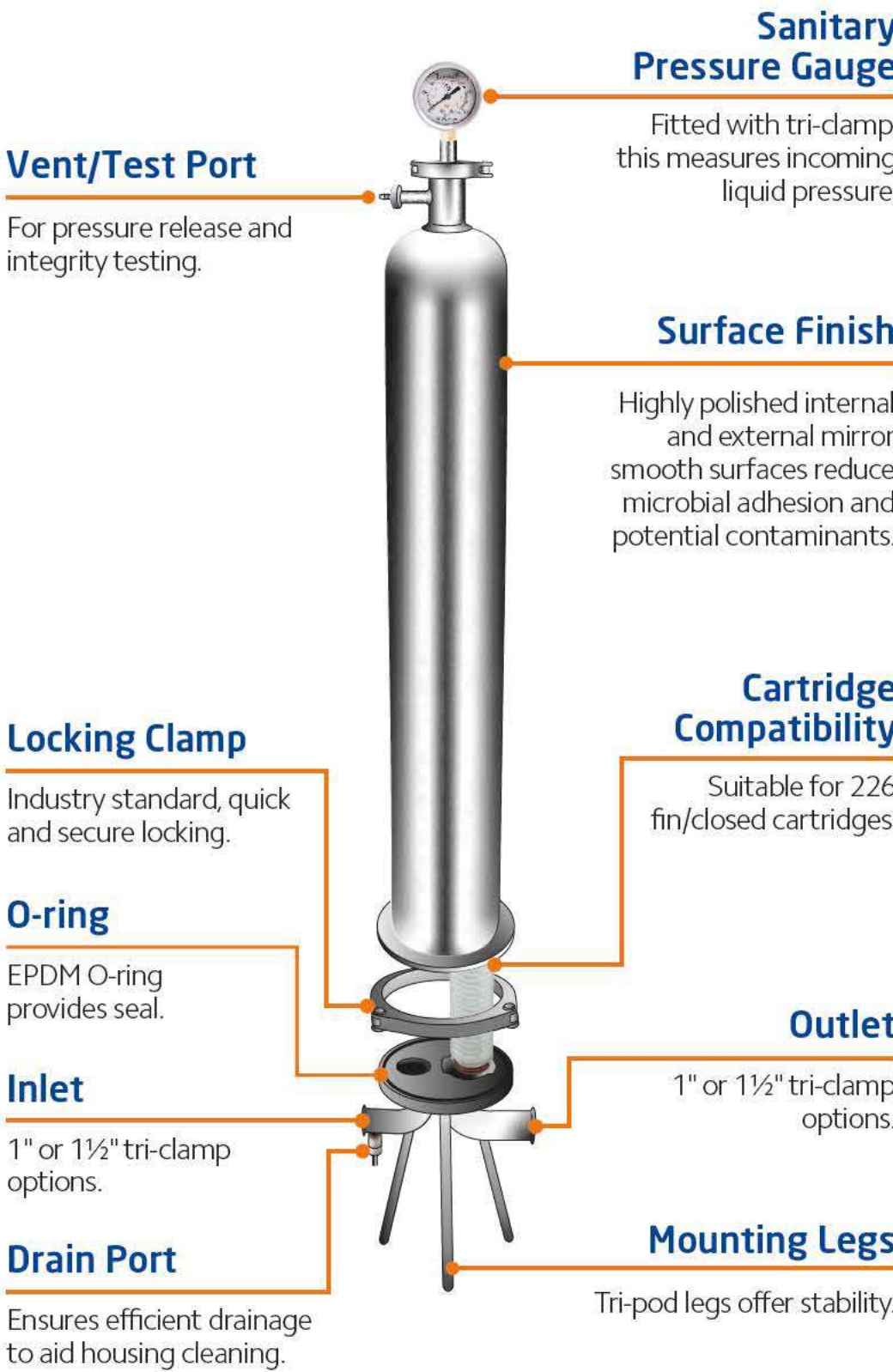
Temperature (°C) Pressure Rating (bar)*

120 10

Materials

Body & Base - 316L Stainless Steel
Internal Surface Finish - ≤ 0.3µm Ra
External Surface Finish - ≤ 0.4µm Ra
Housing Seal - EPDM

* Hydrostatic Pressure Rating



Code	Description	Box Weight (kg)
PSFH-SEP-1-10-1-226E	SPECTRUM Sanitary Filter Housing 1 x 10 226 End-Cap 1" Tri-Clamp EPDM Seal	6
PSFH-SEP-1-20-1-226E	SPECTRUM Sanitary Filter Housing 1 x 20 226 End-Cap 1" Tri-Clamp EPDM Seal	8
PSFH-SEP-1-30-1-226E	SPECTRUM Sanitary Filter Housing 1 x 30 226 End-Cap 1" Tri-Clamp EPDM Seal	9
PSFH-SEP-1-30-1.5-226E	SPECTRUM Sanitary Filter Housing 1 x 30 226 End-Cap 1.5" Tri-Clamp EPDM Seal	9

Sanitary Filter Housing

3 Round

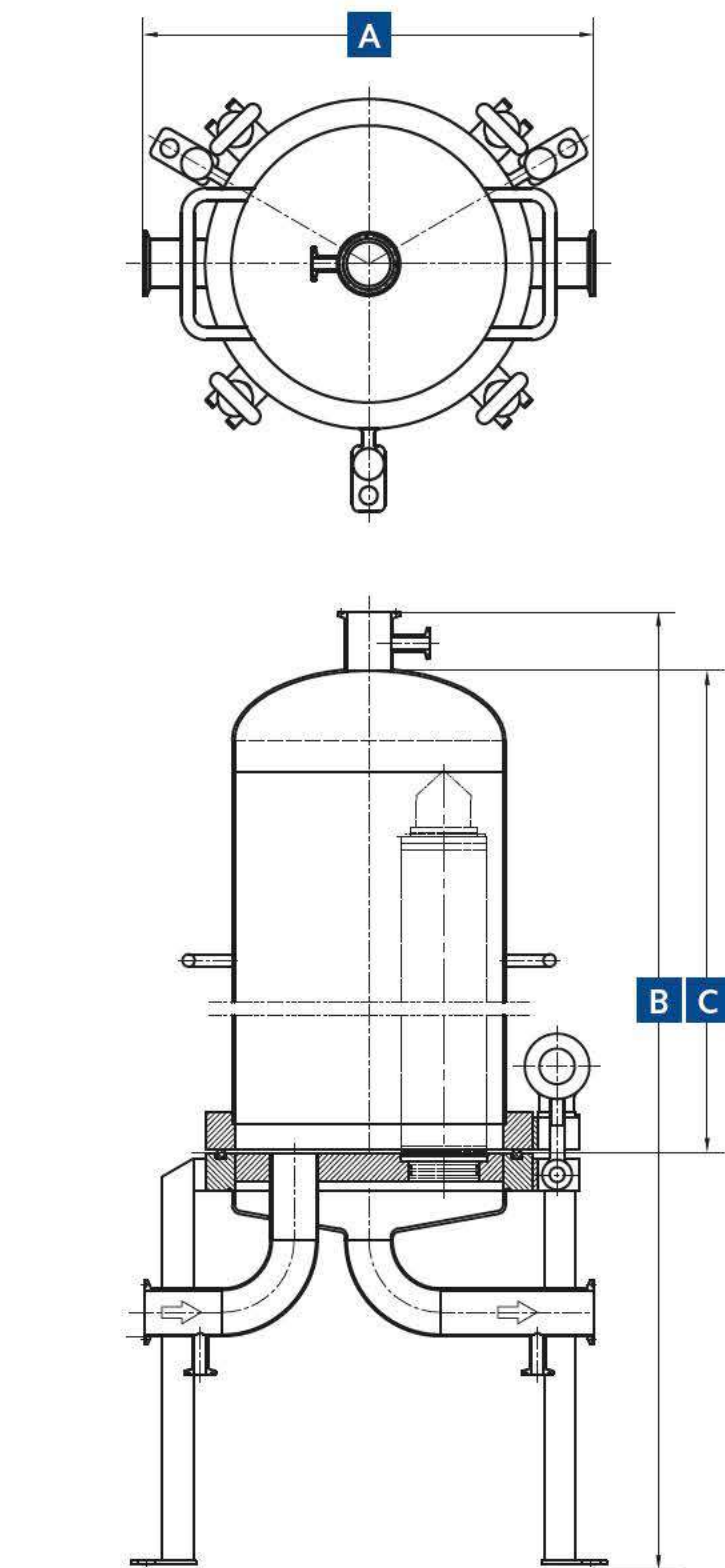
One of the most popular sizes of sanitary housing throughout the Food and Beverage industry, the 3 round configuration boasts a flow rate capacity up to 180 litre per minute. With the swing bolt and eye nut closure mechanism, tool-free cartridge changeout reduces system downtime and operator labour. The 2" inlet and outlet ports provide compatibility with housing accessories such as the sanitary sight glass for visual filtrate validation.



FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PSFH-SEP-3-30	360	1255	1050

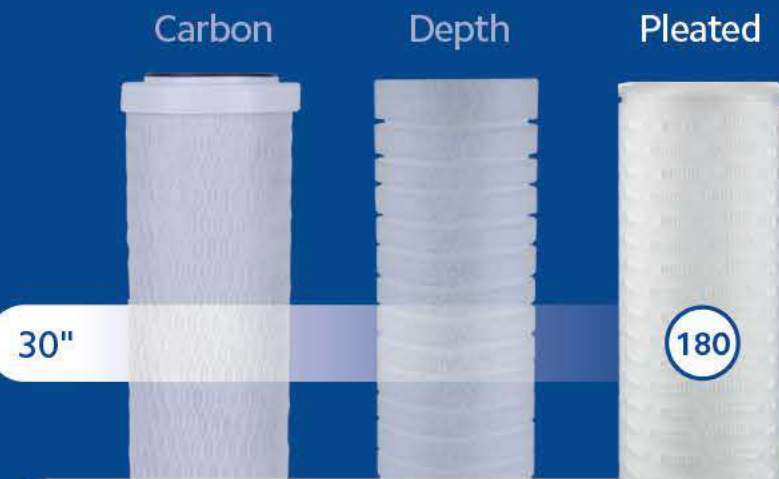
Key Features

- 0.3µm Ra internal surface finish
- Tri-clamp ports for industry compatibility
- Diaphragmed pressure gauge included to filter monitoring
- Vent / test port for pressure release and integrity testing
- Accepts 226 end-cap for added security and reduced bypass



Code	Description	Box Weight (kg)
PSFH-SEP-3-30-2-226E	SPECTRUM Sanitary Filter Housing 3 x 30 226 End-Cap 2" Tri-Clamp EPDM Seal	49

Flow Rate (lpm)



Specification

Port Sizes (Tri-Clamp")

2

Cartridge Compatibility (")

30

End-Cap Compatibility

226

FG/FH/ZH
Ended
eg. Bubble Point

Temperature (°C)

120

Pressure Rating (bar)*

10

Materials

Body & Base - 316L Stainless Steel
Internal Surface Finish - ≤ 0.3µm Ra
External Surface Finish - ≤ 0.4µm Ra
Housing Seal - EPDM

* Hydrostatic Pressure Rating

Sanitary Filter Housing

5 Round

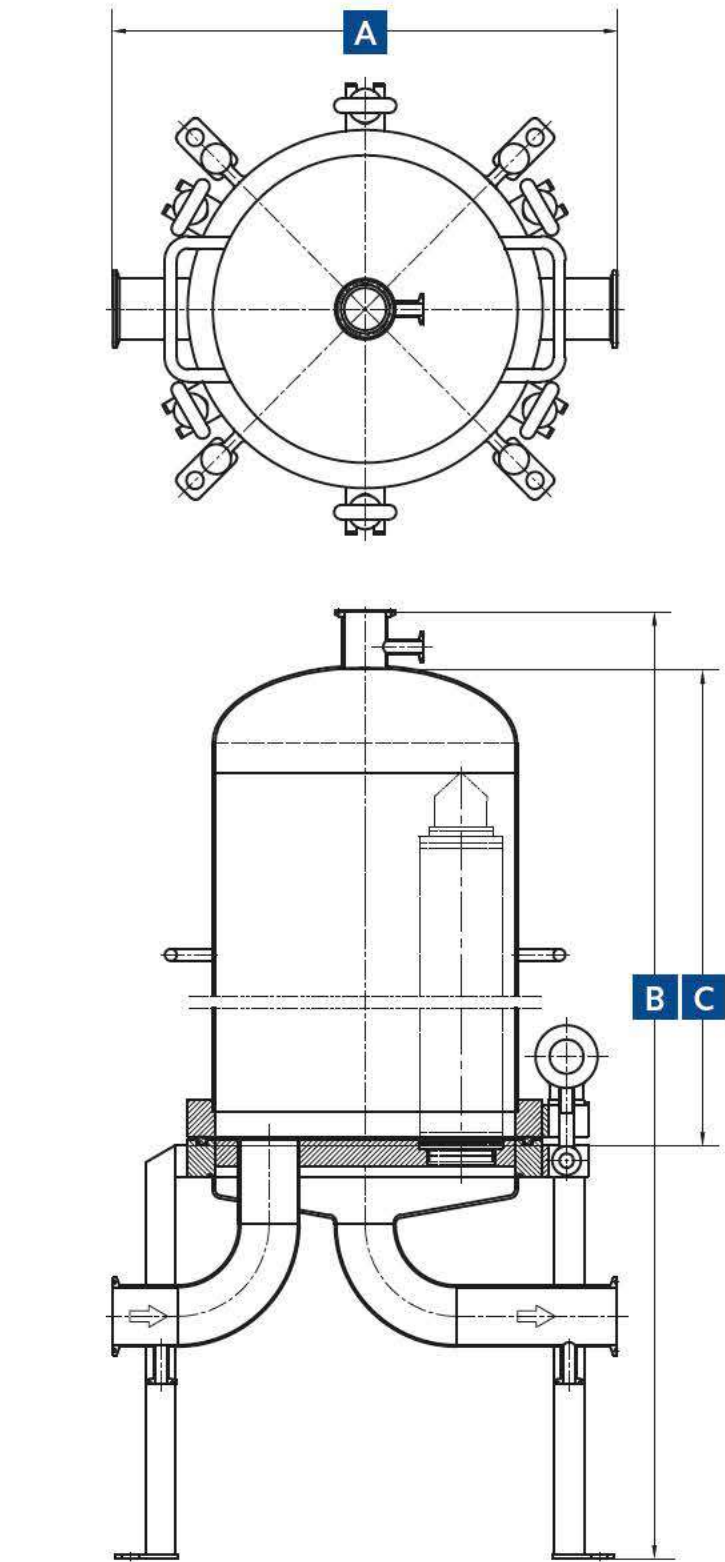
Extending flow rate capability, the 5 round Sanitary housing is the first of the multi-round configurations to offer the benefit of future proofing application requirements. System capacity can be increased by 33%, without any pipework adjustments by simply exchanging a 30" body for the 40" version. The swing bolt closure mechanism assists cartridge changeout even in these larger configurations.



FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PSFH-SEP-5-30	420	1285	1050
PSFH-SEP-5-40	420	1535	1300

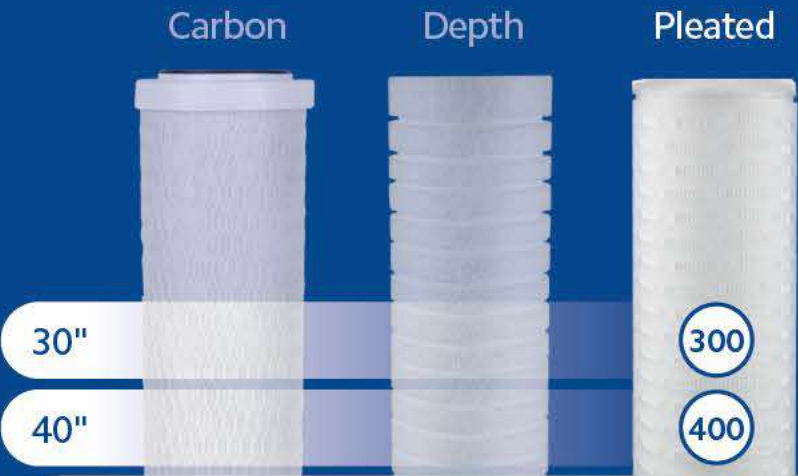
Key Features

- 0.3µm Ra internal surface finish
- Tri-clamp ports for industry compatibility
- Diaphragmed pressure gauge included to filter monitoring
- Vent / test port for pressure release and integrity testing
- Accepts 226 end-cap for added security and reduced bypass



Code	Description	Box Weight (kg)
PSFH-SEP-5-30-2-226E	SPECTRUM Sanitary Filter Housing 5 x 30 226 End-Cap 2" Tri-Clamp EPDM Seal	59
PSFH-SEP-5-40-2-226E	SPECTRUM Sanitary Filter Housing 5 x 40 226 End-Cap 2" Tri-Clamp EPDM Seal	62

Flow Rate (lpm)



Specification

Port Sizes (Tri-Clamp")

2

Cartridge Compatibility (")

30

40

End-Cap Compatibility



Temperature (°C)

120

Pressure Rating (bar)*

10

Materials

Body & Base - 316L Stainless Steel
Internal Surface Finish - ≤ 0.3µm Ra
External Surface Finish - ≤ 0.4µm Ra
Housing Seal - EPDM

* Hydrostatic Pressure Rating

Sanitary Filter Housing

7 Round

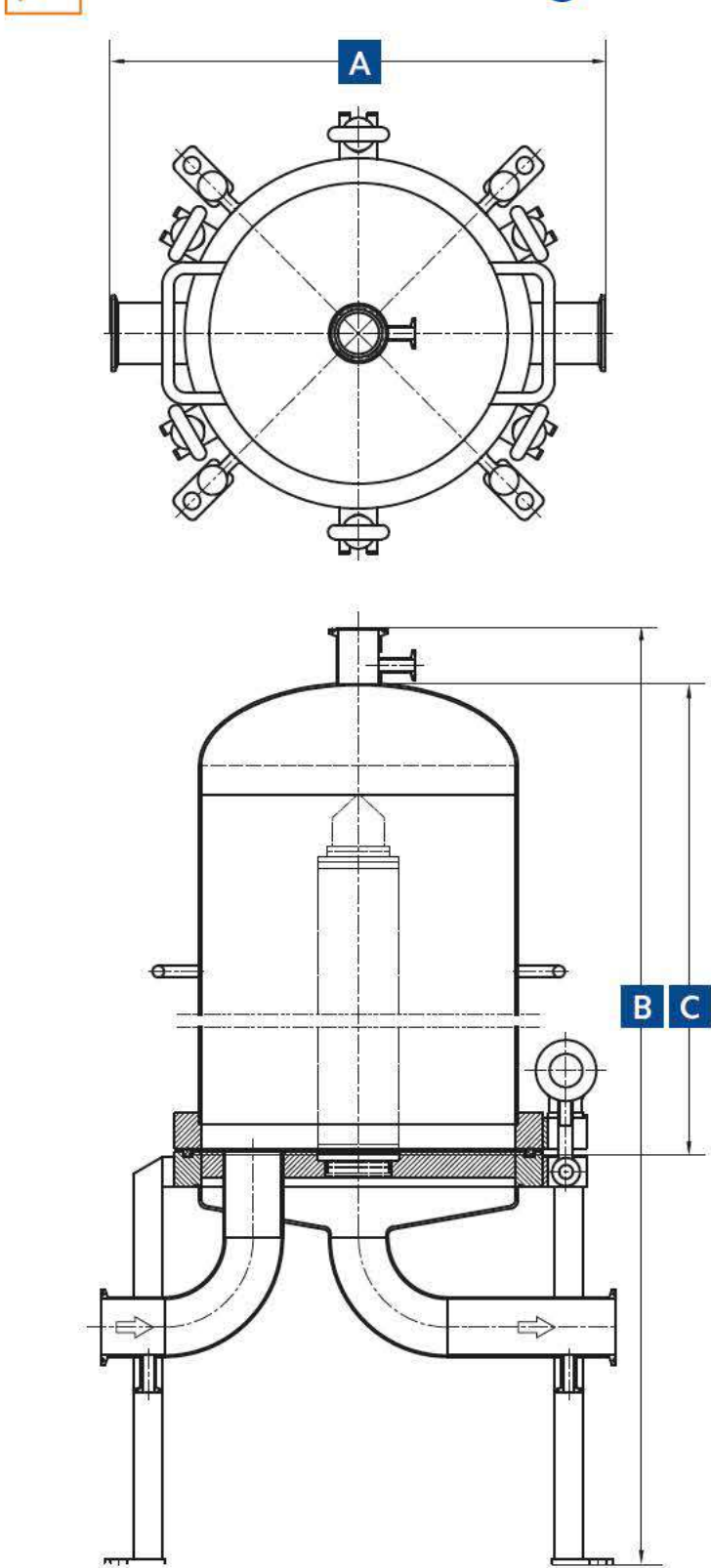
The largest variation in the Inox Sanitary housing range, the 7 round provides a comprehensive solution for precise applications up to 560 litres per minute. Implementing industry specified and user-focused features, these larger vessels do not compromise in terms of quality or functionality. With a sanitary pressure gauge, vent and drain ports, floor mountable legs, as well as blanking plates for any unused ports, the range is supplied as a complete package for peace of mind.



FDA
Compliant Materials

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Technical Drawing



Dimensions (mm)			
Housing	A	B	C
PSFH-SEP-7-30	440	1293	1050
PSFH-SEP-7-40	440	1543	1300

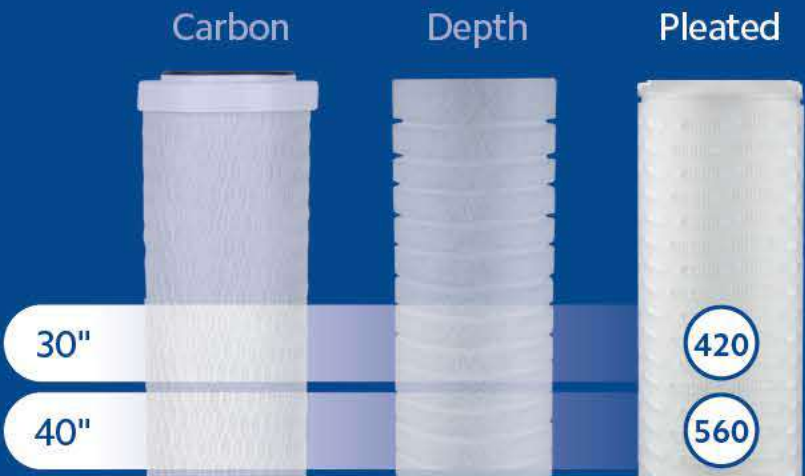
Key Features

- 0.3µm Ra internal surface finish
- Tri-clamp ports for industry compatibility
- Diaphragmed pressure gauge included to filter monitoring
- Vent / test port for pressure release and integrity testing
- Accepts 226 end-cap for added security and reduced bypass



Code	Description	Box Weight (kg)
PSFH-SEP-7-30-2-226E	SPECTRUM Sanitary Filter Housing 7 x 30 226 End-Cap 2" Tri-Clamp EPDM Seal	65
PSFH-SEP-7-40-2-226E	SPECTRUM Sanitary Filter Housing 7 x 40 226 End-Cap 2" Tri-Clamp EPDM Seal	75

Flow Rate (lpm)



Specification

Port Sizes (Tri-Clamp")

2

Cartridge Compatibility (")

30

40

End-Cap Compatibility

226

FG/FH/ZH
Ended
eg. Bubble Point

Temperature (°C) Pressure Rating (bar)*

120

10

Materials

Body & Base - 316L Stainless Steel
Internal Surface Finish - ≤ 0.3µm Ra
External Surface Finish - ≤ 0.4µm Ra
Housing Seal - EPDM

* Hydrostatic Pressure Rating

The Filer Portfolio

Filtration and Water Treatment Solutions

At Filer, we specialise in certified filtration products and applying these effectively and efficiently across multiple applications and markets.

For more information, please visit www.filer.co.uk where you can download further Filer product brochures.



Carbon Cartridges

Extensive range of carbon, including, modified, coconut and granular cartridges.



Pleated Cartridges

A variety of filtration media's, offering both nominal and absolute removal efficiencies.



Depth Cartridges

Spun bonded, wound string and specialist materials cartridges.



Medical POU

Legionella control with medical shower & tap.



Pressure Vessels

Reinforced for high capacity resin and carbon treatment.

Reverse Osmosis

Small to large RO systems and membranes to suit a wide range of purification applications.



UV Systems

Offering bacterial disinfection systems up to 250 lpm.



Bag Filtration

Full range of bag housings and bag sizes with a variety of neck styles.



Water Softening

Cartridge, cabinet and duplex systems available.



Point Of Use

From taste & odour improvement to purified water.

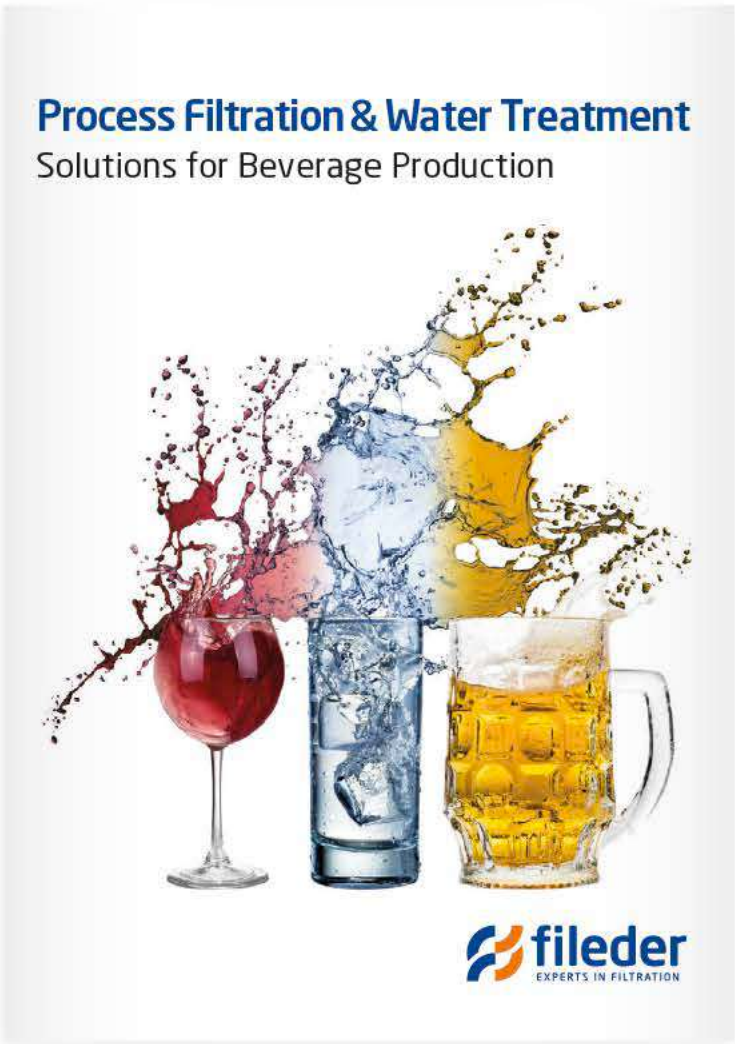


Product Brochures



	Pleated Filtration
	Depth Filtration
	Stainless Steel Cartridges
	High Flow Filtration
	Water Treatment - Carbon & Media Cartridges
	Filter Housings
	Bag Filtration
	Pure Water Membranes
	Pressure Vessels & Media
	Water Softening & Conditioning
	UV Systems
	Food Service
	Filtration & Water Treatment Rental
	Installation & Servicing

Application Brochures



	Solutions for Surface Finishing
	Solutions for Hospitals
	Solutions for Beverage Production
	Solutions for the Coatings Industry
	Solutions for Bacteria and Parasites
	Solutions for Cosmetics and Toiletries
	Filtration for Municipal Water with DWI
	Solutions for Cryptosporidium Protection
	Solutions for Chemical Production

Contact us

Filerder Filter Systems Ltd
20/20 Business Park
Maidstone, Kent
ME16 0LS

Phone: 01622 691886
Fax: 01622 621932
Email: info@filerder.co.uk
Website: www.filerder.co.uk

