Clarity
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Biopharmaceutical and
Pharmaceutical Filtration

The STRAINRITE Companies | World Class Filtration



Brevi-Cap

SINGLE-USE, GAMMA STERILIZABLE
1-2 SQ FT FILTER CAPSULES

REV 72926



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The Strainrite Companies

- Manufacturing and HQ in Auburn, ME USA
- Top-quality liquid filtration products
- Incorporated in 1978
- Clean room manufacturing
- 81,000 sq ft and growing
- 3rd Party GMP Accredited
- ISO9001

Brevi-Cap filter capsules

Uses

- Single use disposable systems
- Scale up/scale down benchtop studies
- OEM Equipment
- Avoidance of CIP and cross contamination
- Reducing operator exposure

Typical fluids filtered

- APIs
- Buffers
- Cell culture media
- Cell suspensions
- Cosmeceuticals
- Final drug product
- Injectables, parenterals
- Lysate suspensions
- Nutraceuticals
- Ophthalmics
- Oral dosage forms
- Ultrapure chemicals/sterile chemicals

Features

- Ultrapure polypropylene capsule
  ≈1 sq ft and ≈2 sq ft sizes
- Variety of Inlet and outlet connections
  include sanitary flanges in ¾” and 1”
  hose barbs for 1/8”, 3/8” and 1/4” i.d. tubing.
- Gamma irradiatable (with select filter media)
- Autoclavable
- Material compliance
- USP Class VI
- 21 CFR
- BSE/TSE
- ROHS
- REACH
- Easy to scale up
- Low extractables
- Vent and drain are 1/4” hose barb with valve.
- Low fill volumes
- Low hold-up volume

Variety of filtration media available

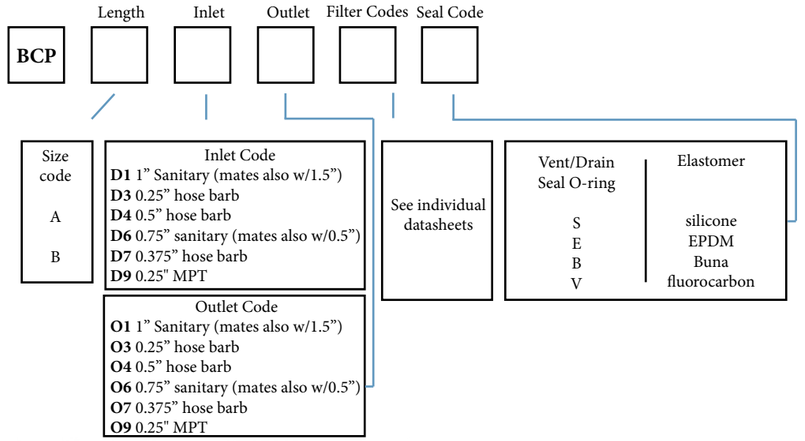
- Sterilizing grade PES membrane
- Bioburden reduction and prefiltration
- PES membrane
- Charged nylon for endotoxin
- Polypropylene microfiber for prefiltration
- Glass microfiber for pre-filtration
- PTFE vent filter

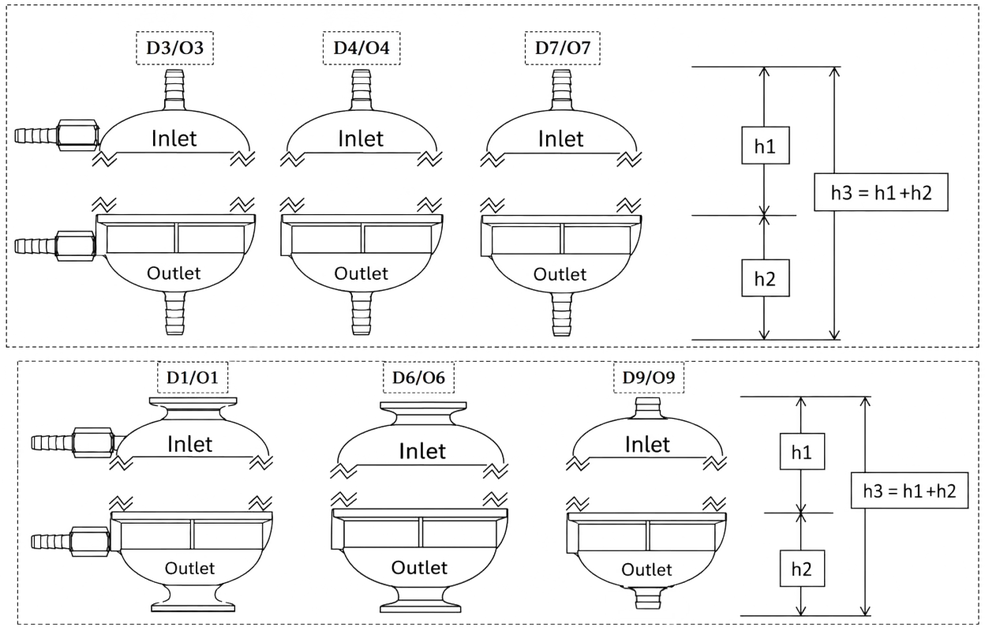


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SGS

AGS AMERICAN GLOBAL STANDARDS
9001:2025





h1 dimension, Size A & B

	Size A	Size B
Inlet code	inches (mm)	inches (mm)
D1	2.8 (71)	4.4 (112)
D3	3.3 (84)	5.0 (127)
D4	3.3 (84)	5.0 (127)
D6	2.8 (71)	4.4 (112)
D7	3.3 (84)	5.0 (127)
D9	3.0 (76)	4.5 (114)

h2 dimension, SizeA & B

Outlet code	inches (mm)
O1	2.2 (56)
O3	2.7 (69)
O4	2.7 (69)
O6	2.2 (56)
O7	2.7 (69)
O9	2.2 (56)

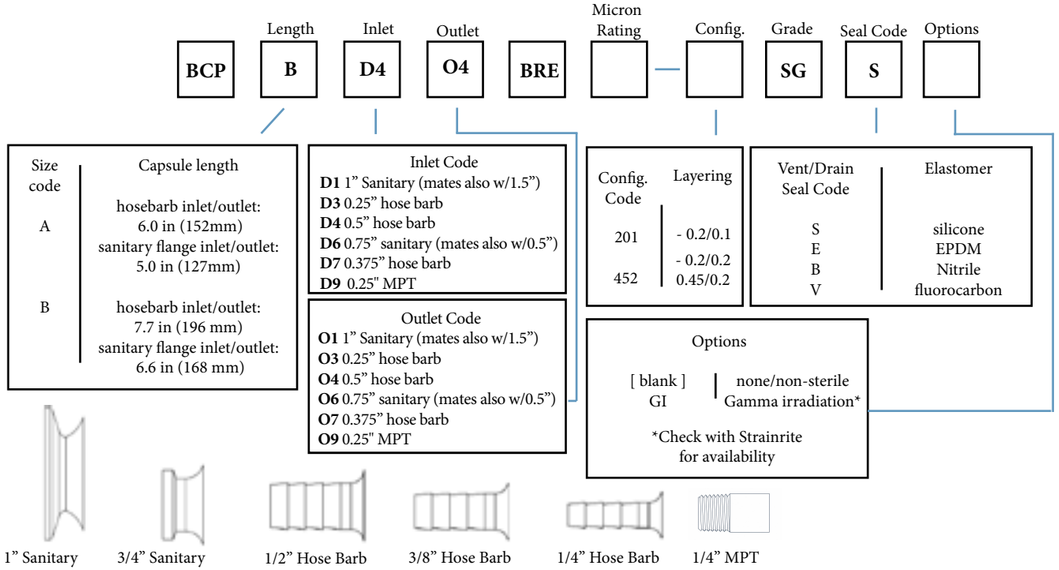
h3 dimension, Size A & B

	Size A	Size B
Inlet/Outlet code	inches (mm)	inches (mm)
D1/O1	5.0 (127)	6.6 (168)
D3/O3	6.0 (152)	7.7(196)
D4/O4	6.0 (152)	7.7(196)
D6/O6	5.0 (127)	6.6 (168)
D7/O7	6.0 (152)	7.7(196)
D9/O9	5.2 (132)	6.7 (170)

Designed for:	Sterilizing-filtration of SVPs, biopharmaceuticals, ophthlamics, APIs, biologicals, therapeutics. For ultra-pure chemicals, buffers, water, nutraceuticals, media. Upstream & downstream processing.
Membrane:	Two layers polyethersulfone membrane
Support Layers:	Polypropylene
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS, BSE/TSE
Validation:	Retains 1x10⁷/ cm² cfu of *Brevundimonas diminuta*
Quality:	100% of filter units DI flushed
	100% of filter units integrity tested
	Certificate of Quality
Sterilization:	Autoclavable, Gamma Irradiatable
Surface Area:	A = 1.02 ft²(948 cm²) B = 1.86 ft² (1,728 cm²)



ORDER GUIDE: Brevi-Cap Capsule Filters with Sterilizing Grade Double-Layer PES 0.2 µm Membrane



INTEGRITY TESTING

Size	Wetting Fluid	Diffusive Flow Integrity Test			Bubble Point (psig)
		Test Pressure (psig)	Air Flow Limit (ml/min)		
A	Water	40	0.2/0.2 0.45/0.2	≤2.8 ≤4.0	≥ 49
B	Water	40	0.2/0.2 0.45/0.2	≤5.0 ≤7.0	≥ 49

Pur-MAXX E PES Membrane Pre - Filters and Bioburden Reduction Filters

Designed for:	Prefiltration and bioburden reduction of LVPs, SVPs, biopharmaceuticals, ophthlamics, APIs, biologicals, therapeutics, ultra-pure chemicals, buffers, water, nutraceuticals. Upstream and downstream processing. Protection of final filters to improve economics.
Membrane:	Polyethersulfone membrane
Support Layers:	Polypropylene
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS, BSE/TSE
Quality:	100% of filter units DI flushed and integrity tested
	Certificate of Quality
Sterilization:	Autoclavable, Gamma Irradiatable
Surface Area:	A = 1.02 ft² (1,189 cm²) B = 1.86 ft² (2,155 cm²)

ORDER GUIDE: Brevi-Cap Capsule Filter with Pharmaceutical-Grade Bio-Reduction PES Membrane

Length	Inlet	Outlet		Micron	Grade	Seal Code	Options
BCP	B	D4	O4	BRE	0.45	2	S	

Size code / Capsule length
- A: hosebarb inlet/outlet: 6.0 in (152mm); sanitary flange inlet/outlet: 5.0 in (127mm)
- B: hosebarb inlet/outlet: 7.7 in (196 mm); sanitary flange inlet/outlet: 6.6 in (168 mm)

Inlet Code
- **D1** 1" Sanitary (mates also w/1.5")
- **D3** 0.25" hose barb
- **D4** 0.5" hose barb
- **D6** 0.75" sanitary (mates also w/0.5")
- **D7** 0.375" hose barb
- **D9** 0.25" MPT

Outlet Code
- **O1** 1" Sanitary (mates also w/1.5")
- **O3** 0.25" hose barb
- **O4** 0.5" hose barb
- **O6** 0.75" sanitary (mates also w/0.5")
- **O7** 0.375" hose barb
- **O9** 0.25" MPT

Absolute Micron Rating Code: .04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2

Vent/Drain Seal Code / Elastomer
- S: silicone
- E: EPDM
- B: Nitrile
- V: fluorocarbon

Options
- [blank]: none/non-sterile
- GI: Gamma irradiation*

*Check with Strainrite for availability

INTEGRITY TESTING

	Micron Rating	0.04	0.1	0.2	0.45	0.65	0.8	1.2
	Wetting Fluid	IPA	IPA	Water	Water	Water	Water	Water
Size A	Diffusive Flow Test Pressure	36 PSIG	28 PSIG	40 PSIG	30 PSIG	17 PSIG	12 PSIG	6 PSIG
	AIR Diffusive Flow Limit	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)
	Bubble Point	≥48 PSIG	≥35 PSIG	≥49 PSIG	≥39.9 PSIG	≥21.5 PSIG	≥16 PSIG	≥8 PSIG
Size B	Diffusive Flow Test Pressure	36 PSIG	28 PSIG	40 PSIG	30 PSIG	17 PSIG	12 PSIG	6 PSIG
	AIR Diffusive Flow Limit (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)
	Bubble Point	≥48 PSIG	≥35 PSIG	≥49 PSIG	≥39.9 PSIG	≥21.5 PSIG	≥16 PSIG	≥8 PSIG

Poly-MAXX Polypropylene Microfiber

Designed for:	Prefiltration and bioburden reduction of parenterals, biopharmaceuticals, ophthlamics, APIs, biologicals, therapeutics, ultra-pure chemicals, buffers, water, nutraceuticals. For upstream and downstream processing. Protection of downstream filters. Removal of gels.
Filter Medium:	Melt blown polypropylene microfiber – absolute rated
Support Layers:	Polypropylene
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS, BSE/TSE
Quality:	DI flush - optional
	Certificate of Quality
Sterilization:	Autoclavable, Gamma Irradiatable
Surface Area:	A = 1.05 ft² (975 cm²) B = 1.91 ft² (1,774 cm²)



ORDER GUIDE: Brevi-Cap Capsule Filters with Pharmaceutical-Grade Polypropylene Microfiber Media

Length	Inlet	Outlet		Micron	Grade	Seal Code	Options
BCP	B	D4	O4	BRPA	1	2	S	

Size code / Capsule length
- A: hosebarb inlet/outlet: 6.0 in (152mm); sanitary flange inlet/outlet: 5.0 in (127mm)
- B: hosebarb inlet/outlet: 7.7 in (196 mm); sanitary flange inlet/outlet: 6.6 in (168 mm)

Inlet Code
- **D1** 1" Sanitary (mates also w/1.5")
- **D3** 0.25" hose barb
- **D4** 0.5" hose barb
- **D6** 0.75" sanitary (mates also w/0.5")
- **D7** 0.375" hose barb
- **D9** 0.25" MPT

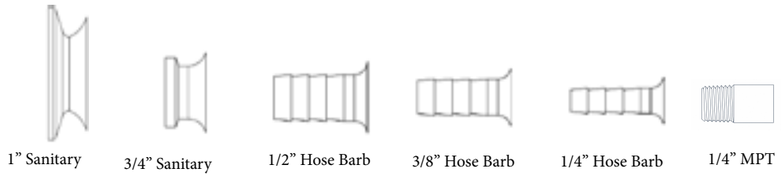
Outlet Code
- **O1** 1" Sanitary (mates also w/1.5")
- **O3** 0.25" hose barb
- **O4** 0.5" hose barb
- **O6** 0.75" sanitary (mates also w/0.5")
- **O7** 0.375" hose barb
- **O9** 0.25" MPT

Absolute Micron Rating Code: 1, 1.5, 2.5, 5, 10, 15, 20, 40, 70

Vent/Drain Seal Code / Elastomer
- S: silicone
- E: EPDM
- B: Nitrile
- V: fluorocarbon

Options
- [blank]: none/non-sterile
- GI: Gamma irradiation*
- DIF: DI Flush

*Check with Strainrite for availability



Fiber-MAXX Glass Microfiber Pre-Filters

Designed for:	Prefiltration and bioburden reduction, biopharmaceuticals, ophthlamics, APIs, biologicals, therapeutics, ultra-pure chemicals, buffers, water, nutraceuticals, upstream and downstream processing. Protection of downstream filters. Removal of gels.
Filter Medium:	Absolute rated microglass depth media
Support Layers:	Polypropylene and Polyester
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS, BSE/TSE
Quality:	DI flush - optional
	Certificate of Quality
Sterilization:	Autoclavable
Surface Area	A = 0.78 ft² (725 cm²) B = 1.42 ft² (1,319 cm²)



ORDER GUIDE: Brevi-Cap Capsule Filters with Pharmaceutical-Grade Glass Microfiber Media

	Length	Inlet	Outlet		Micron		Grade	Seal Code	Options
BCP	B	D4	O4	BRGA	1	—	2	S	

Size code / Capsule length

Size code	Capsule length
A	hosebarb inlet/outlet: 6.0 in (152mm) sanitary flange inlet/outlet: 5.0 in (127mm)
B	hosebarb inlet/outlet: 7.7 in (196 mm) sanitary flange inlet/outlet: 6.6 in (168 mm)

Inlet Code
- **D1** 1" Sanitary (mates also w/1.5")
- **D3** 0.25" hose barb
- **D4** 0.5" hose barb
- **D6** 0.75" sanitary (mates also w/0.5")
- **D7** 0.375" hose barb
- **D9** 0.25" MPT

Outlet Code
- **O1** 1" Sanitary (mates also w/1.5")
- **O3** 0.25" hose barb
- **O4** 0.5" hose barb
- **O6** 0.75" sanitary (mates also w/0.5")
- **O7** 0.375" hose barb
- **O9** 0.25" MPT

Absolute Micron Rating Code

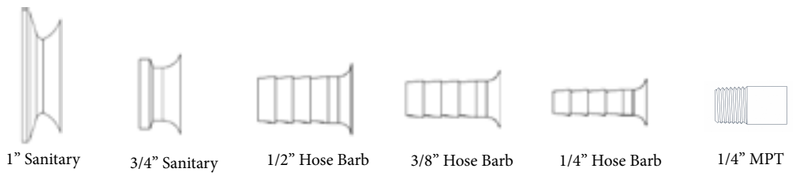
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Vent/Drain Seal Code / Elastomer

Vent/Drain Seal Code	Elastomer
S	silicone
E	EPDM
B	Nitrile
V	fluorocarbon

Options

[blank]	none/non-sterile
DIF	DI Flush



Vent-MAXX PTFE Membrane Sterile Air Filters

Designed for:	Critical sterilizing air and gas filtration for: bioreactor sterile inlet air, bio-reactor exhaust gas, sterile holding tanks, sterile blanketing. Common gasses sterile-filtered are air, nitrogen, and CO_2.
Membrane:	Two layers 0.2 µm PTFE membrane
Support Layers:	Polypropylene
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS, BSE/TSE
Validation:	*Brevundimonas diminuta* retention: 10^7 cfu /cm² in liquid and aerosol challenges
Quality:	100% of filter units DI flushed
	100% of filter units integrity tested
	Certificate of Quality
Sterilization:	Autoclavable
Surface Area:	A = .78 ft² (1,189 cm²) B = 1.42 ft² (2,155 cm²)



ORDER GUIDE: Brevi-Cap Capsule Filters with Sterilizing Grade Vent-MAXX Double-Layer PTFE Membrane

	Length	Inlet	Outlet		Grade	Seal Code
BCP	B	D4	O4	BRVM	2	S

Size code / Capsule length

Size code	Capsule length
A	hosebarb inlet/outlet: 6.0 in (152mm) sanitary flange inlet/outlet: 5.0 in (127mm)
B	hosebarb inlet/outlet: 7.7 in (196 mm) sanitary flange inlet/outlet: 6.6 in (168 mm)

Inlet Code
- **D1** 1" Sanitary (mates also w/1.5")
- **D3** 0.25" hose barb
- **D4** 0.5" hose barb
- **D6** 0.75" sanitary (mates also w/0.5")
- **D7** 0.375" hose barb
- **D9** 0.25" MPT

Outlet Code
- **O1** 1" Sanitary (mates also w/1.5")
- **O3** 0.25" hose barb
- **O4** 0.5" hose barb
- **O6** 0.75" sanitary (mates also w/0.5")
- **O7** 0.375" hose barb
- **O9** 0.25" MPT

Vent/Drain Seal Code / Elastomer

Vent/Drain Seal Code	Elastomer
S	silicone
E	EPDM
B	Nitrile
V	fluorocarbon

INTEGRITY TESTING

Size	Wenting Fluid	Diffusive Flow Integrity Test	
		Test Pressure (psig)	Air Flow Limit (ml/min)
A	IPA	14	4.4
B	IPA	14	8.0

Vent-RITE PTFE Membrane Sterile Air Filters

Designed for:	Sterilizing air and gas filtration for: Sterile air where there is a very low probability of moisture or condensate, and absolute retention in liquids is not required. Common gasses sterile-filtered are air, nitrogen, and CO_2.
Membrane:	0.2 µm PTFE membrane
Support Layers:	Polypropylene
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS, BSE/TSE
Validation:	*Brevundimonas diminuta* retention: 10^7 cfu /cm^2 in aerosol challenges
Quality:	100% of filter units DI flushed
	100% of filter units integrity tested
	Certificate of Quality
Sterilization:	Autoclavable
Surface Area:	A = 1.28 ft^2 (1,189 cm^2) B = 2.32 ft^2 (2,155 cm^2)



ORDER GUIDE: Brevi-Cap Capsule Filters with Sterilizing Grade Vent-Rite Single-Layer PTFE Membrane

BCP	Length: B	Inlet: D4	Outlet: O4	BRVR	Grade: 2	Seal Code: S

Size code / Capsule length

- A: hosebarb inlet/outlet: 6.0 in (152mm); sanitary flange inlet/outlet: 5.0 in (127mm)
- B: hosebarb inlet/outlet: 7.7 in (196 mm); sanitary flange inlet/outlet: 6.6 in (168 mm)

Inlet Code

- **D1** 1" Sanitary (mates also w/1.5")
- **D3** 0.25" hose barb
- **D4** 0.5" hose barb
- **D6** 0.75" sanitary (mates also w/0.5")
- **D7** 0.375" hose barb
- **D9** 0.25" MPT

Outlet Code

- **O1** 1" Sanitary (mates also w/1.5")
- **O3** 0.25" hose barb
- **O4** 0.5" hose barb
- **O6** 0.75" sanitary (mates also w/0.5")
- **O7** 0.375" hose barb
- **O9** 0.25" MPT

Vent/Drain Seal Code / Elastomer

- S: silicone
- E: EPDM
- B: Nitrile
- V: fluorocarbon

INTEGRITY TESTING

Size	Wetting Fluid	Diffusive Flow Integrity Test	
		Test Pressure (psig)	Air Flow Limit (ml/min)
A	IPA	14	≤20
B	IPA	14	≤36

Endo-MAXX CN Filters

Designed for:	Filtration of high purity water where a high degree of endotoxin control is required
Membrane:	Positive charge nylon 6,6 on polyester substrate
Support Layers:	Polypropylene
Filter Hardware:	Polypropylene
Toxicity / Material Compliance:	USP Class VI
	21 CFR
	REACH, ROHS
	BSE/TSE
Validation:	Typical endotoxin reduction in water: 2 log
Quality:	100% of filter units DI flushed
	100% of filter units integrity tested
	Certificate of Quality
Sterilization:	Autoclavable, Gamma Irradiatable
Surface Area:	A = 1.02 ft^2 (1,189 cm^2) B = 1.86 ft^2 (2,155 cm^2)



ORDER GUIDE: Brevi-Cap Capsule Filter with Endotoxin Reduction Charged Nylon Membrane

BCP	Length: B	Inlet: D4	Outlet: O4	BREDX	Micron: 0.2	Grade: 2	Seal Code: S

Size code / Capsule length

- A: hosebarb inlet/outlet: 6.0 in (152mm); sanitary flange inlet/outlet: 5.0 in (127mm)
- B: hosebarb inlet/outlet: 7.7 in (196 mm); sanitary flange inlet/outlet: 6.6 in (168 mm)

Inlet Code

- **D1** 1" Sanitary (mates also w/1.5")
- **D3** 0.25" hose barb
- **D4** 0.5" hose barb
- **D6** 0.75" sanitary (mates also w/0.5")
- **D7** 0.375" hose barb
- **D9** 0.25" MPT

Outlet Code

- **O1** 1" Sanitary (mates also w/1.5")
- **O3** 0.25" hose barb
- **O4** 0.5" hose barb
- **O6** 0.75" sanitary (mates also w/0.5")
- **O7** 0.375" hose barb
- **O9** 0.25" MPT

Absolute Micron Rating Code

- 0.1
- 0.2

Vent/Drain Seal Code / Elastomer

- S: silicone
- E: EPDM
- B: Nitrile
- V: fluorocarbon

INTEGRITY TESTING

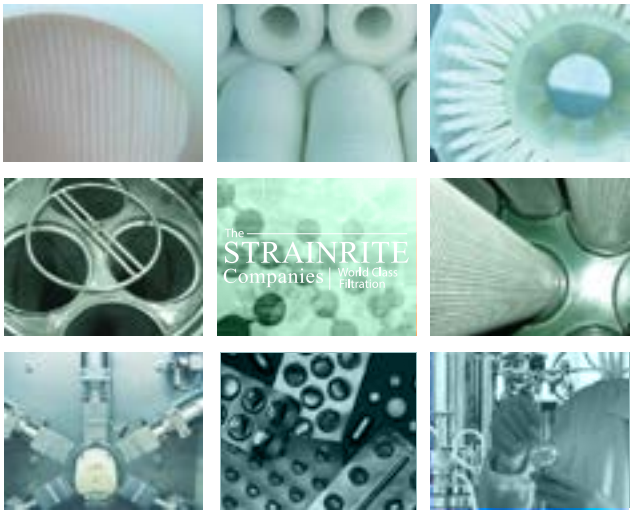
Micron Rating		0.1	0.2
Wetting Fluid		Water	Water
Size A	Diffusive Flow Test Pressure	48 PSI	36 PSIG
	Air Diffusive Flow Limit	15 (ml/min)	≤15 (ml/min)
	Bubble Point	≥ 60 PSIG	≥ 46 PSIG
Size B	Diffusive Flow Test Pressure	48 PSI	36 PSIG
	Air Diffusive Flow Limit (ml/min)	28 (ml/min)	≤28 (ml/min)
	Bubble Point	≥ 60 PSIG	≥ 46 PSIG



The STRAINRITE Companies | World Class Filtration

Clarity
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Designing and Manufacturing Leading-edge
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