



3G STANDARD FILTER HOUSINGS

We took our time-tested industry standard and made it even better. We started from the ground up, utilizing our 35 years of experience, to create the unique and innovative 3G design. This patented* design features integral brackets, 20" clear housings, and caps for differential pressure gauges. The 3G housings accept standard double open end (DOE) and our Seal-Safe™ o-ring sealing cartridges. The Seal-Safe™ o-ring design offers enhanced cartridge sealing for critical cartridge applications. 3G Standard Filter Housings set the standard and will keep you in the lead.

- Integral bracket versions available.
- Available in 10" and 20" sumps in clear and opaque.
- Buttress threads and uniform walls for easier cartridge change and improved strength.
- Accepts proprietary Seal-Safe™ double o-ring sealing cartridges as well as standard DOE cartridges.
- Cap is available with threaded ports for mounting differential pressure gauge.
- Choice of with or without pressure-relief/bleed button.
- Leak-proof sealing with top-seated floating Buna-N o-ring.

3G Standard Filter Housings are manufactured from a durable polypropylene or clear Styrene-Acrylonitrile (SAN). All are equipped with 3/4" NPT inlet and outlet ports.

Reinforced polypropylene housings have excellent chemical resistance and are ideal for many residential, commercial and industrial applications. Clear sumps are manufactured from a clear, FDA compliant Styrene-Acrylonitrile (SAN). They offer on-site examination of the cartridge and have excellent chemical compatibility as well.

3G Standard Filter Housings are available in both 10" and 20" lengths and will accommodate a wide range of 2 1/4" to 3 1/2" diameter cartridges.

* U.S. Patent No. D 455,194 S and D 456,486 S



3G Standard Filter Housings

Standard Mounting Boss Caps

Can be used with MC-1A bracket kit.

Blue Housings

NPT Thread Part No.	BSP Thread Part No.†	Description
150542	150543	3G #10 ST BK/BL 3/4" MB W/PR
150546	150547	3G #10 ST BK/BL 3/4" MB
150544	150545	3G #20 ST BK/BL 3/4" MB W/PR
150548	150549	3G #20 ST BK/BL 3/4" MB



The 154638, 154642, 154584, 154588, 153200 and 153197 are Tested and Certified by NSF International to NSF/ANSI Standard 42 for material and structural integrity requirements only.



150542
150546

150544
150548

MB Cap
w/PR

Clear Housings

NPT Thread Part No.	BSP Thread Part No.†	Description
150558	150559	3G #10 ST BK/CL 3/4" MB W/PR
150562	150563	3G #10 ST BK/CL 3/4" MB
150560	150561	3G #20 ST BK/CL 3/4" MB W/PR
150564	150565	3G #20 ST BK/CL 3/4" MB



150558
150562

150560
150564

MB Cap
w/PR

Integral Mounting Bracket Caps

Optional screw kit for integral bracket, part number 150580 sold separately.

Blue Housings

NPT Thread Part No.	BSP Thread Part No.†	Description
150550	150551	3G #10 ST BK/BL 3/4" IB W/PR
150554	150555	3G #10 ST BK/BL 3/4" IB
150552	150553	3G #20 ST BK/BL 3/4" IB W/PR
150556	150557	3G #20 ST BK/BL 3/4" IB



The 154646, 154650, 154600, 154604, 153200 and 153197 are Tested and Certified by NSF International to NSF/ANSI Standard 42 for material and structural integrity requirements only.



150550
150554

150552
150556

IB Cap
w/PR

Clear Housings

NPT Thread Part No.	BSP Thread Part No.†	Description
150566	150573	3G #10 ST BK/CL 3/4" IB W/PR
150570	150571	3G #10 ST BK/CL 3/4" IB
150568	150569	3G #20 ST BK/CL 3/4" IB W/PR
150572	150573	3G #20 ST BK/CL 3/4" IB



150566
150570

150568
150572

IB Cap
w/PR

† For international distributors only.

Integral Bracket Meter Mount Caps

Optional screw kit for integral bracket sold separately.
Cap contains predrilled and tapped holes for mounting differential pressure gauges. (See page 4.)

Blue Housings

NPT Thread Part No.	BSP Thread Part No.†	Description
150574	150575	3G #10 ST BK/BL 3/4" MM W/PR
150576	150577	3G #20 ST BK/BL 3/4" MM W/PR

† For international distributors only.

CAUTION: Housing will not hold pressure without an installed differential pressure gauge.



The 154654, 154658, 153200 and 153197 are Tested and Certified by NSF International to NSF/ANSI Standard 42 for material and structural integrity requirements only.



150574

150576

MM Cap
w/PR

Key:	Key:
ST = Standard	(blank) = Without Pressure Release
BK = Black	MB = Mounting Bosses for MC-1A bracket
BL = Blue	IB = Integral Bracket
CL = Clear	MM = Meter Mount for Differential Pressure Gauges
W/PR = With Pressure Release	BT = British Threads

Seal-Safe™ Double o-ring Sealing Cartridges

Seal-Safe™ (patent pending) double o-ring sealing cartridges are 3.1" in diameter and ideal for critical applications where a positive seal is required.

CBC® Carbon Blocks

These carbon block cartridges contain approximately 20% more carbon than standard CBC cartridges and 8% more surface area for enhanced capacity and cartridge life. These cartridges also feature Endurawrap™ to protect the block from fine sediment and to enhance its useful life.

CBC-3.1-10 Part number: 155947-43

CBC-3.1-20 Part number: 155948-43



The CBC-3.1-10 and CBC-3.1-20 are Tested and Certified by NSF International to NSF/ANSI Standard 42 for material requirements only.

High Efficiency Pleated Cartridges

High efficiency 1 micron pleated cartridges further extend the life of carbon block or other cartridges and provide high quality water to critical applications.

HEP1-3.1-10 Part number: 155949-43

HEP1-3.1-20 Part number: 155950-43



CBC-3.1-10

CBC-3.1-20

HEP1-3.1-10

HEP1-3.1-20

Accessories

MC-1A Bracket Kit

Fits 3/4" MB (Mounting Boss) caps only. Constructed of zinc-plated steel. Kit includes bracket and screws.

Part number: 150578



SW-2 Plastic Spanner Wrench

Fits all PENTEK 3/4" housings.

Part number: 150295



Integral Bracket Screw Kit

Fits IB and IB MM caps. Contains two galvanized steel 1 1/2" screws.

Part number: 150580



Cartridge Coupler

Fits standard double open end cartridges.

Part number: 155003



#241 FDA Grade Buna-N O-ring

Fits all PENTEK 3/4" housings.

Part number: 151120



#241 FDA Grade Silicone O-ring

Fits all PENTEK 3/4" housings.

Part number: 151118



#241 Viton® O-ring

Fits all PENTEK 3/4" housings.

Part number: 151117



Differential Pressure Gauges

These gauges can be read from both sides. They tell the user when to change the cartridge while the filter is in operation. They are easily mounted directly to MM (Meter Mount) caps with screws provided. Both are constructed of glass-filled nylon, Buna-N o-rings, 304 SS spring. 143549 contains a ceramic magnet.

Color change differential pressure gauge

Green and red color indicate when cartridge should be changed.

Green (clean) 0-7 psid; Red (change) 7-10 psid.

Part number: 143550



Needle differential pressure gauge

Needle points to international standard colors to determine when cartridge needs to be changed. Green (clean) 0-6 psid; Yellow (change) 6-9 psid; Red (dirty) 9-12 psid.

Part number: 143549



- Differential pressure gauges take the guess work out of cartridge changes*.



- Integral bracket saves time and money when compared to installing separate bracket.

- Buttress threads for improved strength and easier cartridge change.

- Floating o-ring for improved sealing. FDA grade Buna-N is standard. Viton® or FDA grade Silicon o-rings are also available separately.



- Improved ergonomic pressure relief button is easier to use.

- Double Open End (DOE) cartridge

- The patented 3G housing accepts standard double open end (DOE) cartridges and our exclusive Seal-Safe™ o-ring seal design.



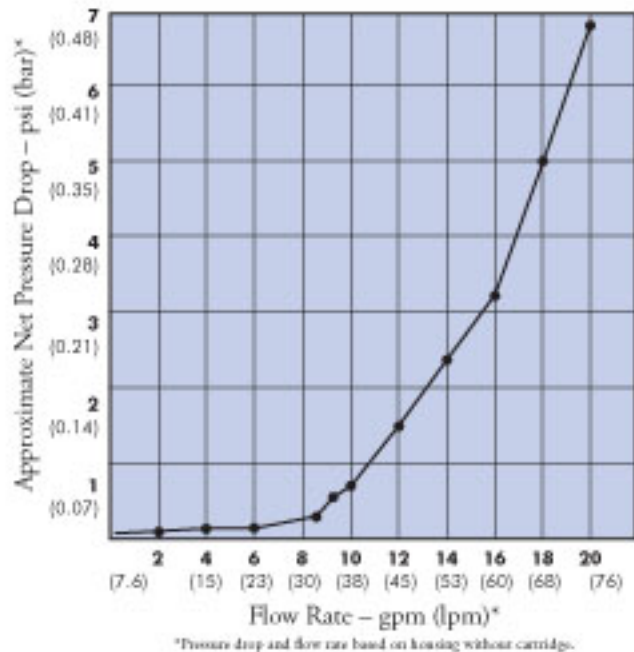
- The Seal-Safe™ o-ring design offers enhanced cartridge sealing for critical cartridge applications.

- Sumps are available in 10' and 20' opaque and clear versions.



- Shown with differential pressure gauge. Gauges sold separately.

3G Standard Filter Housings



* Shown with differential gauge. Gauges sold separately.

Housing Specifications and Performance Data

Model	Maximum Dimensions	Initial ΔP (psi) @ Flow Rate (gpm)
3G #10 Blue or Clear MB	12 $\frac{3}{4}$ " x 5 $\frac{1}{2}$ " (324 mm x 137 mm)	1 psi @ 10 gpm (0.07 bar @ 38 lpm)
3G #10 Blue or Clear IB/MM*	13 $\frac{3}{4}$ " x 5 $\frac{1}{2}$ " (337 mm x 146 mm)	1 psi @ 10 gpm (0.07 bar @ 38 lpm)
3G #20 Blue or Clear MB	23" x 5 $\frac{1}{2}$ " (584 mm x 137 mm)	1 psi @ 10 gpm (0.07 bar @ 38 lpm)
3G #20 Blue or Clear IB/MM*	23 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " (597 mm x 146 mm)	1 psi @ 10 gpm (0.07 bar @ 38 lpm)

*Height does not include meter. Add 1-3/4" for 143549 gauge and 1/2" for 143550 gauge.

Materials of Construction

• Housing	Polypropylene (Opaque) Styrene Acrylonitrile (Clear)	• O-Ring	Buna-N
• Cap	Reinforced Polypropylene	• Maximum Temperature	125°F (51.7°C)
• Button Assembly	300-series Stainless Steel, polypropylene and EPDM	• Maximum Pressure	125 psi (8.62 bar)



502 Indiana Avenue • P.O. Box 1047 • Sheboygan, Wisconsin 53082-1047
 Customer Service: 800-645-0267 • Fax: 888-203-7361 • supportspecialist@pentekfiltration.com
 International: 920-457-9435 • Fax: 920-457-2417 • international@pentekfiltration.com
www.pentekfiltration.com