DATA SHEET

BL575-D – iPleat (Pleated Filter Element)

Bottom load style pleated filter element (PFE).
Fits most industry standard 5-1/8” diameter bag cup/hub connections.
Designed for smaller sized venturi bell mouth (< 3.3” diameter) or designs without venturis.
Short profile polyurethane top boot maximizes available filter area in shorter filter designs.
Replaces 5-3/4” diameter bag and cage assembly.

Standard Configuration

- 3.6” (91-mm) inner core diameter
- 1.0” (25-mm) nominal pleat depth
- Standard Pleat Count – 45 Pleats
- Molded top boot and bottom puck made from bright white soft polyurethane rated to 225°F
- Polyurethane, polypropylene and polyester components are safe for food contact

Configuration Options

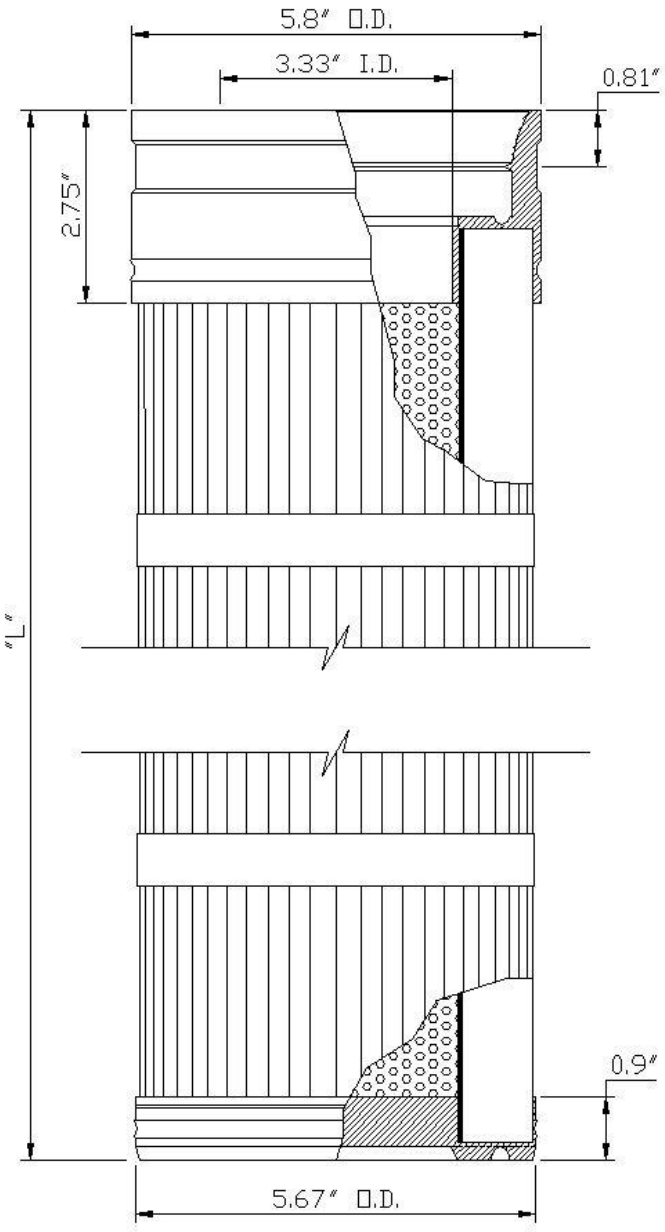
- Special pleat counts (Available range: 35 – 60 pleats)
- Polypropylene Core – Rated to 180°F
- Galvanized and SS Perforated Metal (Spiral Formed) – For temperatures >180°F and for high pressure / vacuum applications.
- Grounded designs (with conductive media, metal core and stainless steel grounding wire extensions).

Filter Media

- Base filter media: 100% spunbond polyester (SBPE)
- Filtration Efficiency: > 99.9 % for particle size range between 0.2 μ- 2.0 μ - BGIA Dust Class “M” rating
- Weight: 8.0 oz/yd2 (260 g/m2)
- Permeability: 15-30 acfm Frazier permeability at 0.5” w.g. dP
- Mullenburst Stength: 350 psi

Media Designation	Media Description
FM0103	100% spunbond polyester (SBPE)
FM0105	100% SBPE with hydrophobic & oliophobic finish
FM0109	100% SBPE with conductive grid
FM0203	100% SBPE with ePTFE membrane
FM0209	100% SBPE with conductive grid & ePTFE membrane

Nominal Length	Overall Length “L”	Filter Area (sf) @ 45 Pleats	No. of Straps
0.5 m	21.6”	12.3	1
1.0 m	41.3”	24.6	3
1.4 m	57.0”	34.5	4
2.0 m	80.7”	49.2	6



DATA SHEET

BL575-S – iPleat (Pleated Filter Element)

Bottom load style pleated filter element (PFE).
Fits most industry standard 5-1/8" diameter bag cup/hub connections.
Designed for all sized venturi bell mouth (up to 3-3/8" diameter).
Shallow pleat depth (22-mm) is more stable in heavy dust loading and offers better release of dense dust cakes.
Short profile polyurethane top boot maximizes available filter area in shorter filter designs.
Replaces 5-3/4" diameter bag and cage assembly.

Standard Configuration

- 3.89" (99-mm) inner core diameter
- 0.87" (22-mm) nominal pleat depth
- Standard Pleat Count – 50 Pleats
- Molded top boot and bottom puck made from bright white soft polyurethane rated to 225°F
- Polyurethane, polypropylene and polyester components are safe for food contact

Configuration Options

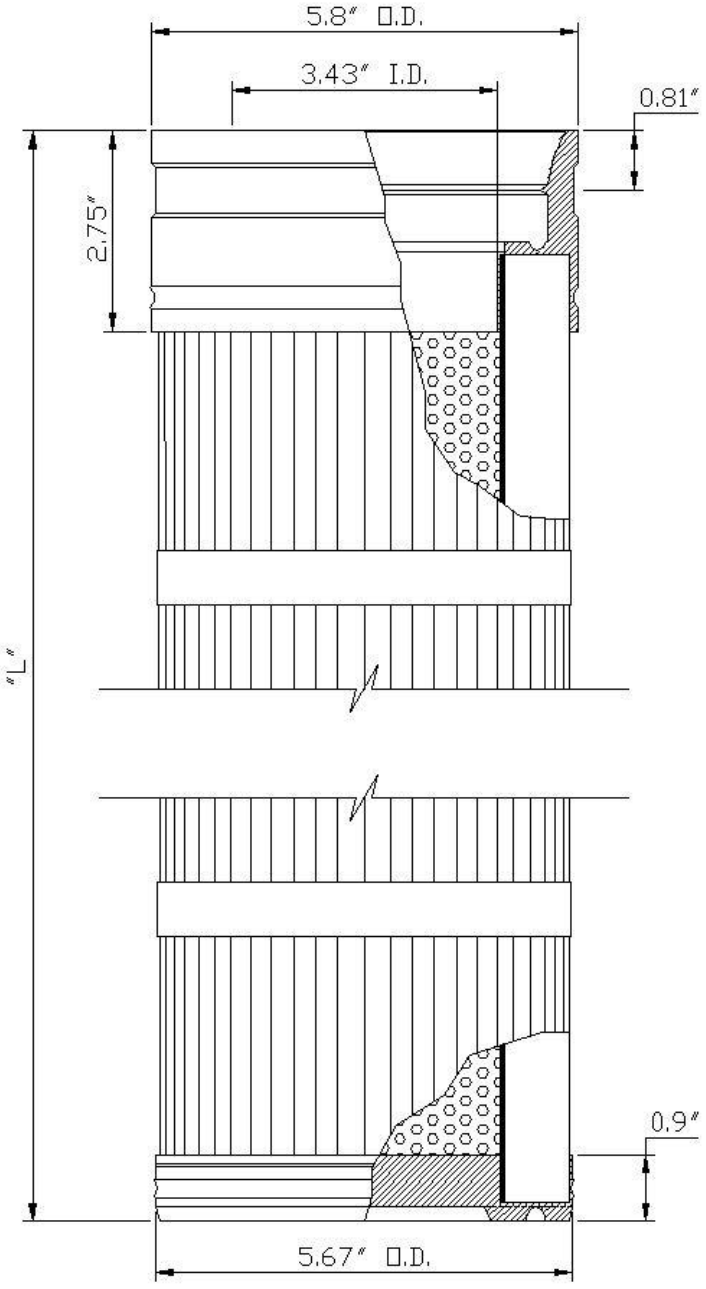
- Special pleat counts (Available range: 35 – 60 pleats)
- Polypropylene Core – Rated to 180°F
- Galvanized and SS Perforated Metal (Spiral Formed) – For temperatures >180°F and for high pressure / vacuum applications.
- Grounded designs (with conductive media, metal core and stainless steel grounding wire extensions).

Filter Media

- Base filter media: 100% spunbond polyester (SBPE)
- Filtration Efficiency: > 99.9 % for particle size range between 0.2 μ- 2.0 μ - BGIA Dust Class "M" rating
- Weight: 8.0 oz/yd2 (260 g/m2)
- Permeability: 15-30 acfm Frazier permeability at 0.5" w.g. dP
- Mullenburst Stength: 350 psi

Media Designation	Media Description
FM0103	100% spunbond polyester (SBPE)
FM0105	100% SBPE with hydrophobic & oliophobic finish
FM0109	100% SBPE with conductive grid
FM0203	100% SBPE with ePTFE membrane
FM0209	100% SBPE with conductive grid & ePTFE membrane

Nominal Length	Overall Length "L"	Filter Area (sf) @ 50 Pleats	No. of Straps
0.5 m	21.6"	11.9	1
1.0 m	41.3"	23.8	3
1.4 m	57.0"	33.3	4
2.0 m	80.7"	47.6	6



DATA SHEET

BL575-U – iPleat (Pleated Filter Element)

Bottom load style pleated filter element (PFE).
Fits most industry standard 5-1/8" diameter bag cup/hub connections.
Designed for all sized venturi bell mouth (up to 3-3/8" diameter).
Universal boot combines larger core (to accommodate all sized venturis) and deep pleat (30-mm) to maximize available filter area in short profile designs.
Replaces 5-3/4" diameter bag and cage assembly.

Standard Configuration

- 3.89" (99-mm) inner core diameter
- 1.18" (30-mm) nominal pleat depth
- Standard Pleat Count – 45 Pleats
- Molded top boot and bottom puck made from bright white soft polyurethane rated to 225°F
- Polyurethane, polypropylene and polyester components are safe for food contact

Configuration Options

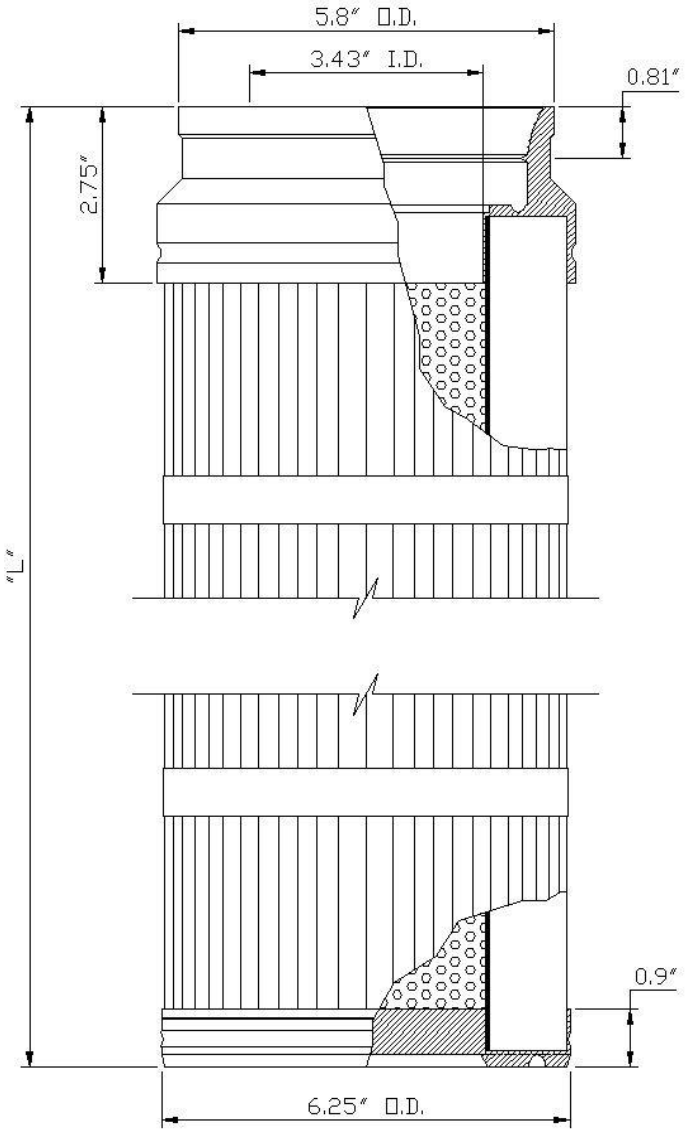
- Special pleat counts (Available range: 35 – 60 pleats)
- Polypropylene Core – Rated to 180°F
- Galvanized and SS Perforated Metal (Spiral Formed) – For temperatures >180°F and for high pressure / vacuum applications.
- Grounded designs (with conductive media, metal core and stainless steel grounding wire extensions).

Filter Media

- Base filter media: 100% spunbond polyester (SBPE)
- Filtration Efficiency: > 99.9 % for particle size range between 0.2 μ- 2.0 μ - BGIA Dust Class "M" rating
- Weight: 8.0 oz/yd2 (260 g/m2)
- Permeability: 15-30 acfm Frazier permeability at 0.5" w.g. dP
- Mullenburst Stength: 350 psi

Media Designation	Media Description
FM0103	100% spunbond polyester (SBPE)
FM0105	100% SBPE with hydrophobic & oliophobic finish
FM0109	100% SBPE with conductive grid
FM0203	100% SBPE with ePTFE membrane
FM0209	100% SBPE with conductive grid & ePTFE membrane

Nominal Length	Overall Length "L"	Filter Area (sf) @ 45 Pleats	No. of Straps
0.5 m	21.6"	14.5	1
1.0 m	41.3"	29.1	3
1.4 m	57.0"	40.7	4
2.0 m	80.7"	58.1	6



DATA SHEET

TL625D – iPleat (Pleated Filter Element)

Top load style pleated filter element (PFE)*.
Unique, aerodynamically designed high-flow orifice develops 30% more cleaning energy.**
Fits most industry standard 6.25" diameter tubesheet holes, fits tubesheet thickness from 1/8" to 1/4".
Replaces 6.25" diameter bag and cage assembly.

Standard Configuration

- 3.3" (84-mm) inner core diameter
- 1.18" (30-mm) nominal pleat depth
- Standard Pleat Count – 45 Pleats
- Molded top boot and bottom puck made from bright white soft polyurethane rated to 225°F
- iSeal™ gasket made from flexible gray EPDM rubber
- Polyurethane, EPDM rubber, polypropylene and polyester components are safe for food contact

Configuration Options

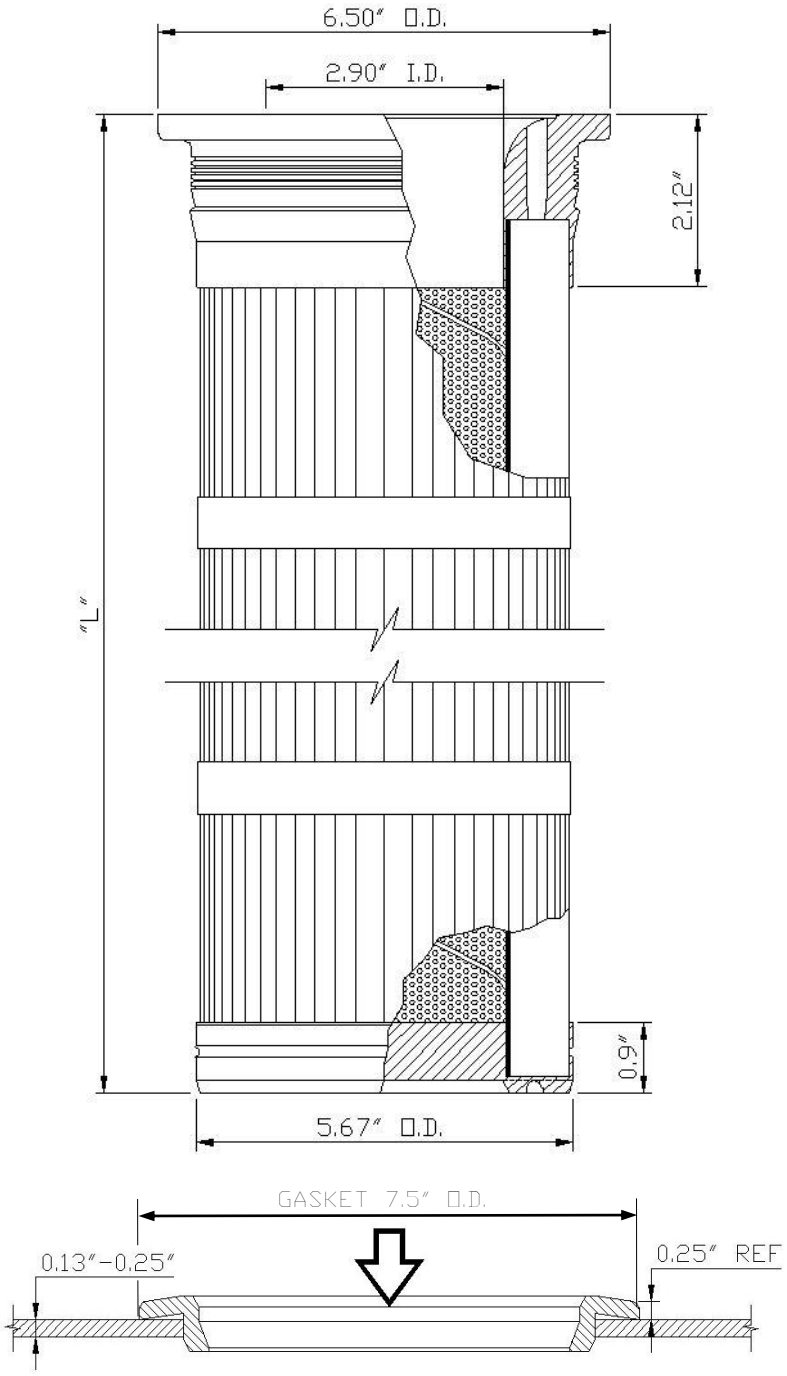
- Special pleat counts (Available range: 35 – 60 pleats)
- Polypropylene Core – Rated to 180°F
- Galvanized and SS Perforated Metal (Spiral Formed) – For temperatures >180°F and for high pressure / vacuum applications.
- Grounded designs (with conductive media, metal core and electrically conductive EPDM tubesheet gasket (iSeal™ gasket).

Filter Media

- Base filter media: 100% spunbond polyester (SBPE)
- Filtration Efficiency: > 99.9 % for particle size range between 0.2 μ- 2.0 μ - BGIA Dust Class "M" rating
- Weight: 8.0 oz/yd2 (260 g/m2)
- Permeability: 15-30 acfm Frazier permeability at 0.5" w.g. dP
- Mullenburst Stength: 350 psi

Media Designation	Media Description
FM0103	100% spunbond polyester (SBPE)
FM0105	100% SBPE with hydrophobic & oliophobic finish
FM0109	100% SBPE with conductive grid
FM0203	100% SBPE with ePTFE membrane
FM0209	100% SBPE with conductive grid & ePTFE membrane

Nominal Length	Overall Length "L"	Filter Area (sf) @ 45 pleats	No. of Straps
0.5 m	21.0"	14.5	1
1.0 m	40.7"	29.1	3
1.4 m	56.4"	40.7	4
2.0 m	80.0"	58.1	6



*U.S. Patent No. D 626,208 & Patent Pending
**Confirmed by Independent 3rd party testing

Technical Data Sheet

Filter media:	**FM0103**
Construction:	100% Polyester spunbond media with point bond finish
Color:	White
Weight:	7.7 oz/yd^2 (260 g/m^2)
Thickness:	0.024 inch (0.66 mm)
Permeability:	18 – 26 ft^3/ft^2/min @ 1/2" H_2O – ASTM D 737 9.1 – 13.2 cm^3/cm^2/sec @ 125 Pa – ASTM D 737 86 – 125 l/dm^2/min @ 200 Pa – DIN 53887
Max. Operating Temperature:	265°F (130°C)
Tensile Strength:	200 lbs/2-in. strip (91 kg/5 cm strip) – MD 125 lbs/2-in. strip (57 kg/5 cm strip) – CMD
Mullen Strength:	350 lbs/in^2 (24.6 kg/cm^2)
Dust Release Properties:	Very good
Filtration Efficiency:	> 99.9 % for particle size range between 0.2 μ- 2.0 μ
BGIA-Filter Class:	"M" – per Test Method: DIN EN 60335–2–69
FDA conformity:	FDA - 21 CFR 177.1630 30.31 LFGB

This data is to be considered as typical, and for information purposes only. All specifications are subject to change.

ONE WORLD-GLOBAL SERVICES
cyclonaire®
PNEUMATIC CONVEYING SYSTEMS

Technical Data Sheet

Filter media:	**FM0203**
Construction:	100% Polyester spunbond media with point bond finish and laminated with ePTFE membrane
Color:	White
Weight:	7.7 oz/yd^2 (260 g/m^2)
Thickness:	0.024 inch (0.66 mm)
Permeability:	4.0 – 8.0 ft^3/ft^2/min.@ 1/2" H_2O 19 - 38 l/dm^2/min. @ 200Pa
Max. Operating Temperature:	265°F (130°C)
Tensile Strength:	200 lbs/2-in. strip (91 kg/5 cm strip) – MD 125 lbs/2-in. strip (57 kg/5 cm strip) – CMD
Mullen Strength:	350 lbs/in^2 (24.6 kg/cm^2)
Dust Release Properties:	Excellent
Filtration Efficiency:	> 99.98 % for particle size 0.3 μ- and larger
Testing Method:	ASHRAE 52.2 (Fractional Efficiency)
FDA conformity:	FDA 21 CFR 176.170 30.31 LFGB

This data is to be considered as typical, and for information purposes only. All specifications are subject to change.

Technical Data Sheet

Filter media:	**FM0109**
Construction:	100% Polyester spunbond media with point bond finish and printed with a conductive ink pattern on both sides of media
Color:	White with black printing in a 1" cross-hatch pattern on both sides of media
Weight:	7.8 oz/yd^2 (260 g/m^2)
Thickness:	0.024 inch (0.66 mm)
Permeability:	18 - 26 ft^3/ft^2/min.@ 1/2" H_2O 400 - 650 m^3/m^2/Std. @ 200Pa
Max. Operating Temperature:	265°F (130°C)
Tensile Strength:	200 lbs/2-in. strip (91 kg/5 cm strip) – MD 125 lbs/2-in. strip (57 kg/5 cm strip) – CMD
Mullen Strength:	350 lbs/in^2 (24.6 kg/cm^2)
Dust Release Properties:	Very good
Filtration Efficiency:	> 99.9 % for particle size range between 0.2 μ- 2.0 μ
BGIA-Filter Class:	"M" – per Test Method: DIN EN 60335–2–69
FDA conformity:	21 CFR 177.1630 30.31 LFGB
Electrical Conductivity:	<1.0 x 10^6 Ohm/Square at 500V at 12.0"; Static Decay </=0.5 seconds @ 10% cut off

This data is to be considered as typical, and for information purposes only. All specifications are subject to change.

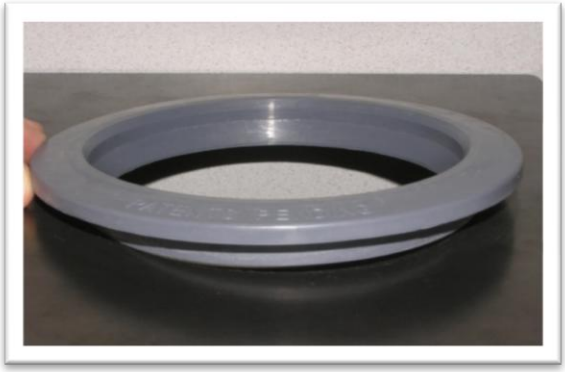
Installation Procedures for TL and MTL Style Filters

Step 1 – Preparation for Installation

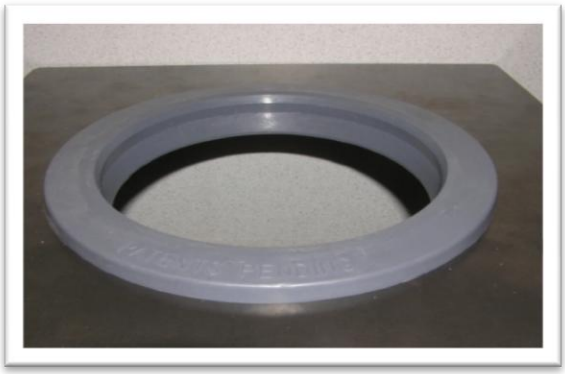
- Remove old filters from the dust collector. The tubesheet/cell plate and clean air plenum (CAP) should be thoroughly cleaned to remove all residual dust.
- Inspect the tubesheet/cell plate holes for build up or corrosion and use a wire brush to remove buildup of any material that may interfere with the filter seal.
- In the case of conductive media/filter designs utilizing the electrically conductive tubesheet gasket, ensure that the inside diameter of the tubesheet hole is not coated or painted, as this is the area where electrical grounding will occur.
- In the case of filters with ePTFE membrane, the tubesheet gasket will help protect the pleat tips during installation, but care should be taken during staging and handling of the filter elements into the dust collector. Cardboard or other smooth materials should be used to cover potential scrape hazards such as door frames and handrails. Care should be taken to stack or store the filters in such a manner to prevent or minimize the scraping of the fragile ePTFE membrane surface on the pleats.
- Inspect each filter element for damage from shipping, storage, or handling. Do not use damaged elements; they may leak or fail prematurely.
- ***If the filter element has a stainless steel ground wire, please see additional instruction sheet insert for proper attachment of the grounding wire.***

Step 2 – Installation of Tubesheet Gasket

- Place the gasket in the tubesheet hole with beveled bottom lip first (the outer top flange with printing should be facing upward).

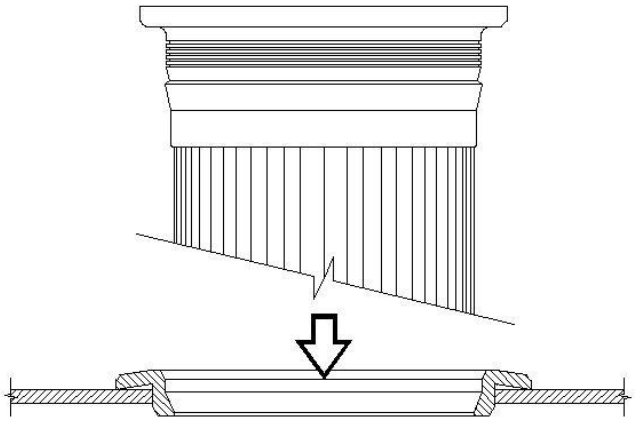


- Press the tubesheet gasket gently into the tubesheet hole by hand, it will self-center and seat. A properly installed gasket will have no deformations around the ID of the gasket, and the top flange will be flush against the top of the tubesheet.

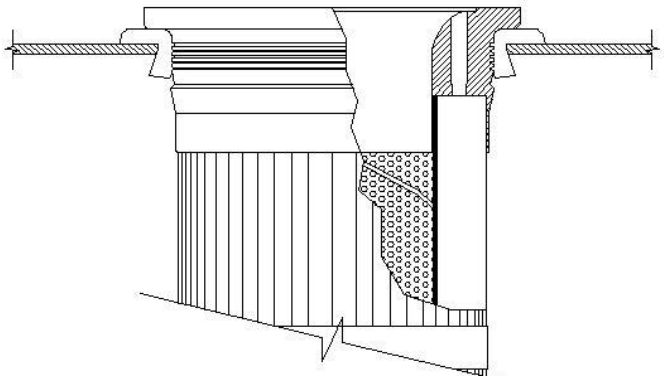


Step 3 – Installation of the Pleated Filter Element

- Place the bottom puck of the filter element inside the tubesheet gasket and press the filter down through the inside diameter of the gasket.



- Lower the pleated filter element straight down (plumb) through the tubesheet gasket.



- Once the filter is lowered all the way into the tubesheet gasket, the final sealing of the filter into the gasket will require slow, firm pressure to seat the stepped top down into the gasket and kick out the bottom flange to engage the seal.
- Stepping on the filter top is acceptable as long as steady, even pressure is applied.

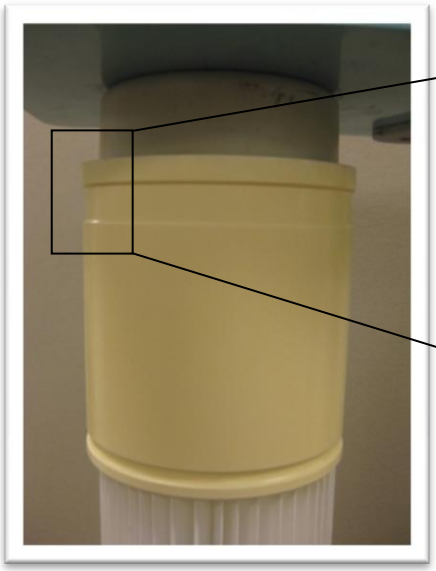
Installation Procedures for BL Style Filters

Step 1 – Preparation for Installation

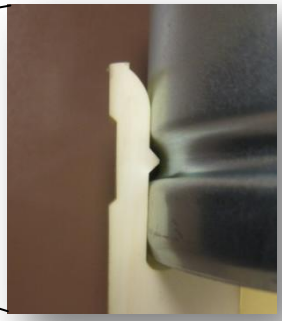
- Inspect each filter element for damage from shipping, storage, or handling. Do not use damaged elements; they may leak or fail prematurely.
- Remove old filters from the dust collector. The bag cup / venturi connections should be thoroughly cleaned to remove all residual dust. Use a wire brush to remove buildup of any material that may interfere with the filter seal.
- In the case of filters with ePTFE membrane, care should be taken during staging and handling of the filter elements into the dust collector. Cardboard or other smooth materials should be used to cover potential scrape hazards such as door frames and handrails. Care should be taken to stack or store the filters in such a manner to prevent or minimize the scraping of the fragile ePTFE membrane surface on the pleats.
- ***If the filter element has a stainless steel ground wire, please see Additional Instructions for proper attachment of the ground wire.***

Step 2 – Installation of the Pleated Filter Element

Slowly push the filter element up onto the bag cup until the flexible boot snaps into place on the groove.



Pull the element down slightly and rotate it to ensure the internal bead is properly engaged in the groove in the bag cup / venturi connection (See inset for cutaway detail).



Inset showing proper bead/groove alignment.

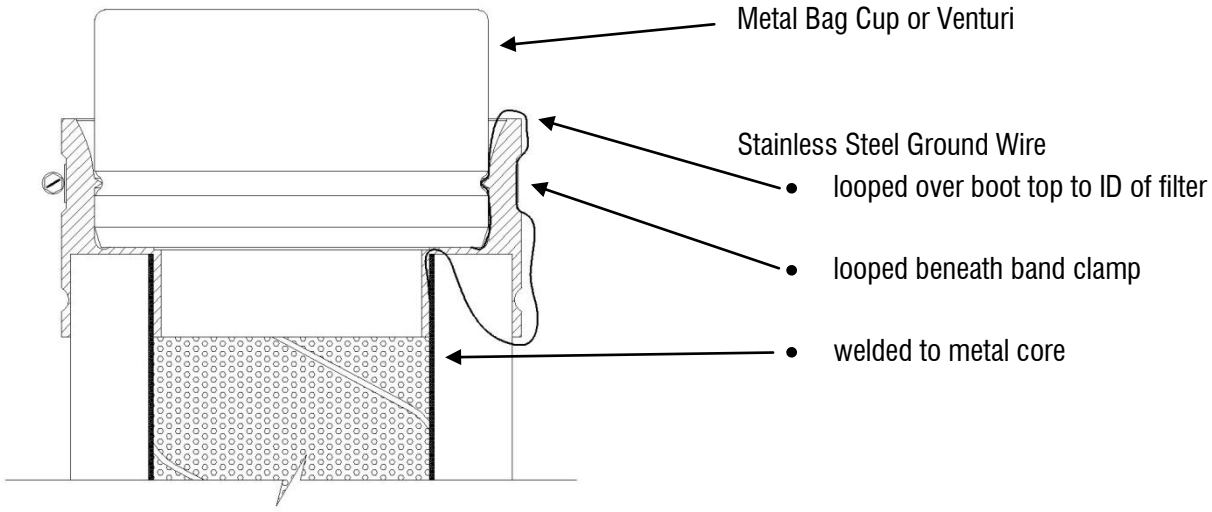
Install the clamp between the outer groove markings on the flexible boot.

Use of a lined clamp is strongly recommended to prevent cutting the polyurethane boot.

Using a nut driver, hand tighten the clamp, making sure it stays in place between the outer groove markings. Do not over tighten. Over tightening may cut the polyurethane.

After tightening, you should not be able to rotate the filter element by hand. Make sure the filter elements hang plumb and are not touching each other or obstructions such as the sidewalls or internal stiffeners.

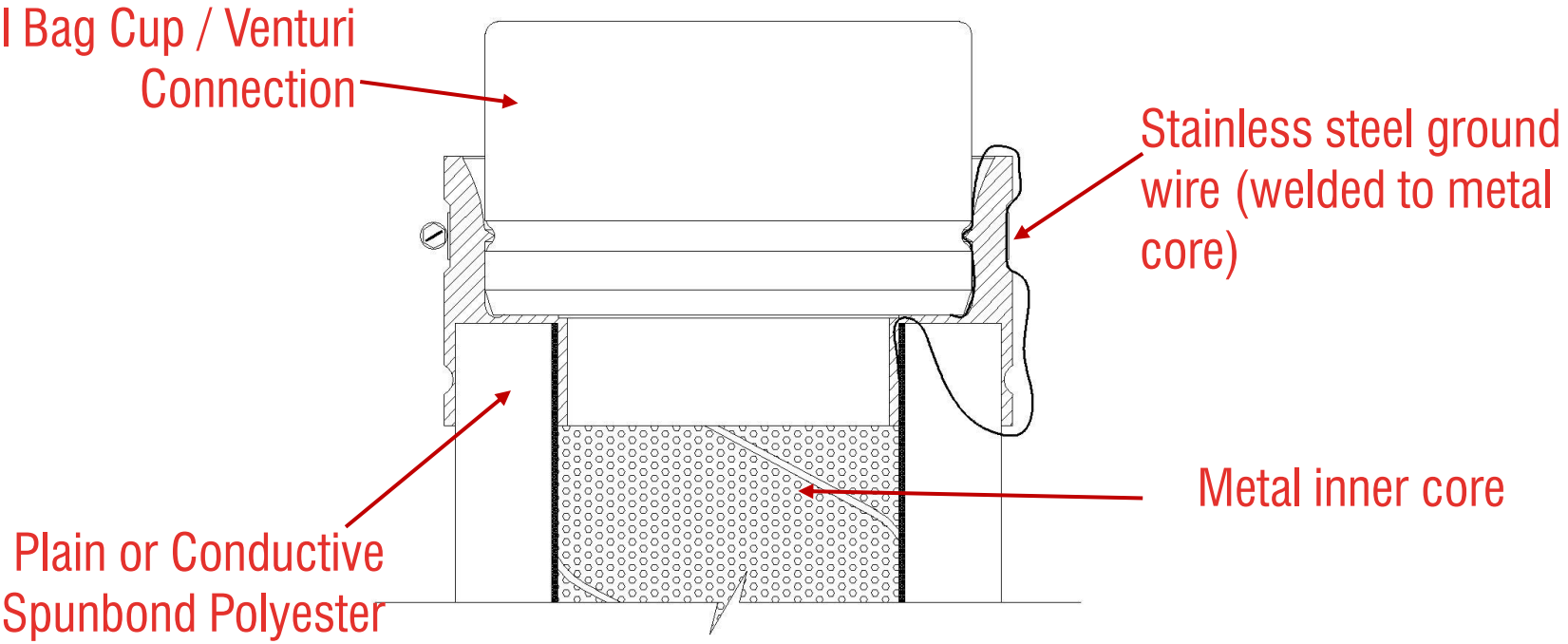
Additional Instructions for Ground Wire Installation



In the case of conductive media or filter designs utilizing metal core and stainless steel ground wire extension, ensure that the ground wire is folded over the boot top to ID of filter and down past the bead on the mold, to properly seal the filter and to allow a firm connection for grounding to the metal bag cup / venturi connection as the clamp is tightened. Also ensure the ground wire is located beneath the clamp before the clamp is tightened.

In the case of a non-metal synthetic (nylon, plastic) bag cup connection, DO NOT INSTALL PER ABOVE METHOD. An alternative grounding method will be required.

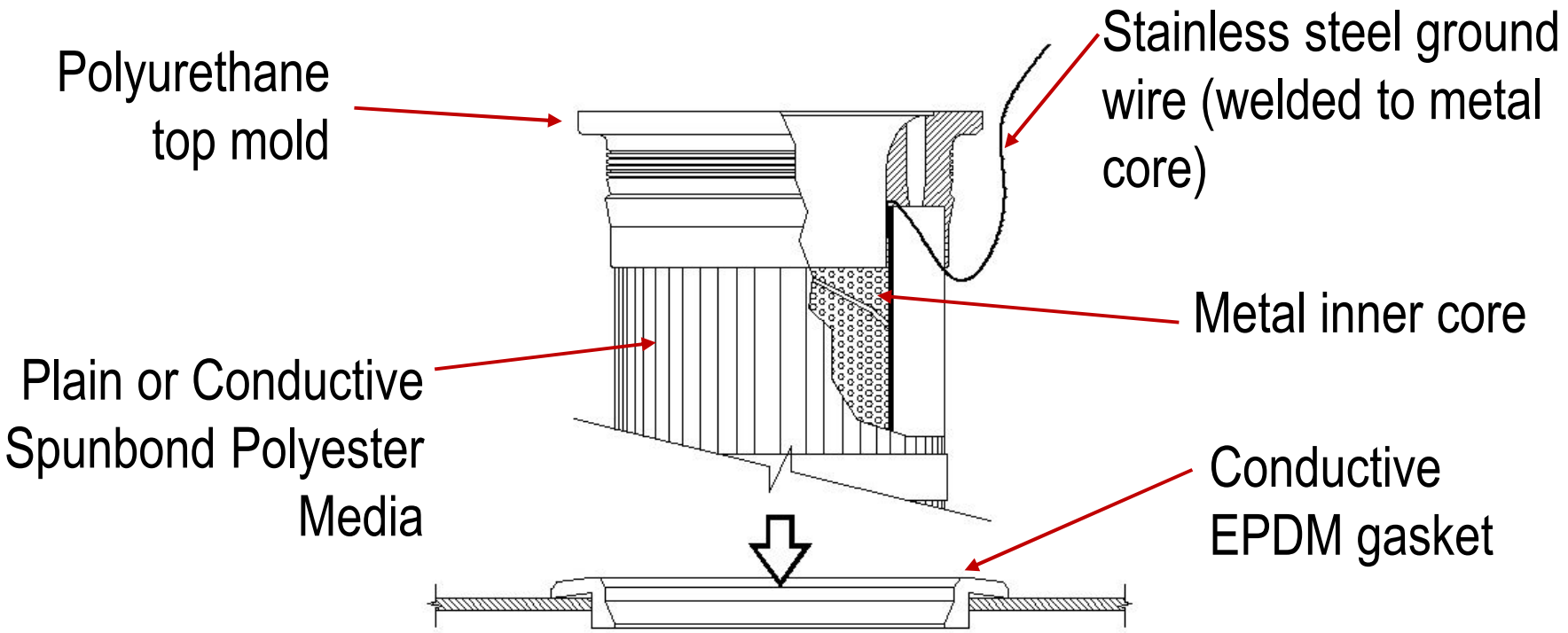
BL– Metal Core with Ground Wire Design



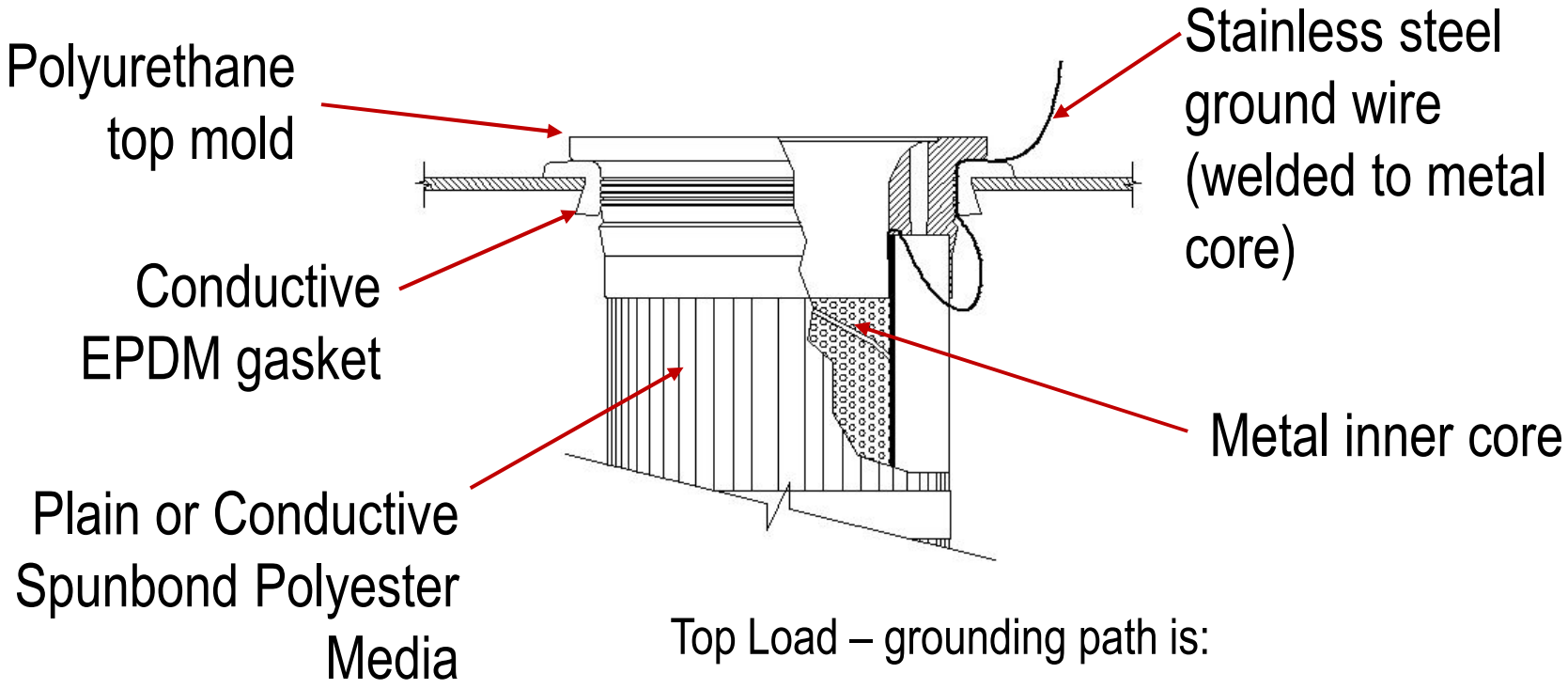
Bottom Load – grounding path is:

1. **Media (if conductive)**
2. **Metal core**
3. **Ground wire**
4. **Metal bag cup connection**
5. **Tubesheet**

TL – Metal Core with Ground Wire Design



TL – Metal Core with Ground Wire Design



Top Load – grounding path is:

1. Media (if conductive)
2. Metal core
3. Ground wire
4. Conductive gasket
5. Tubesheet