



# The new industry standard for flexible connectors



Food



Chemical



Pharma



Mineral



# BFM® fitting system

The BFM® fitting system comprises two spigots (or flanges) that are welded to your pipes, and a snap-fit, BLUEBAND™ flexible connector that seats on the inside of the shaped portion of the two spigots, holding it securely in place.

Our Seeflex range, made from clear, ether-based polyurethane, are the most widely used BFM® fitting connectors across many industries, but we have a broad range of materials for almost every process application.

To ensure consistent fit, and better inventory control, BFM® fitting products are manufactured in standard nominal metric (mm) diameters and lengths:



(Certain materials and larger diameter connectors have size/length restrictions).

## Old Style

CLAMPED  
SLEEVES



## New Industry Standard

BFM®  
INTEGRATED  
SYSTEM



## Benefits You'll See With BFM® fitting:



### Improves Hygiene

There's no product build-up and easy flush-through for cleaning provides a much more hygienic connection solution than clamped products where crevices can breed bacteria.



### Quicker Changeovers

The snap-fit design means BFM® fitting connectors have the fastest changeover in the market - they can be replaced in less than 30 seconds.



### Explosion Resistant

The snap-fit internally seated cuff and spigot design seals tighter under pressure and the Seeflex range of connectors have been explosion tested in excess of 60kPa (0.6 bar, 8.7 psi).



### Reduces Downtime

Faster changeovers, longer-lasting materials and less dust leakage mean there is significantly less lost production time for connector replacements and clean-ups with BFM® fittings.



### More Durable

The materials and design of the BFM® fitting connector system are extremely long-wearing and durable so they don't need to be replaced as often as other connectors.



### No Product Loss

The 100% seal and the durable nature of the connectors mean no valuable product escapes during normal production and there's no spillage due to connectors tearing.



### Streamlines Inventory

Consistent, exact sizing simplifies and streamlines inventory control, improves supply chain sustainability and ensures a perfect fit in the right position every time.



### Better Health & Safety

No tools required for installing standard BFM® connectors, plus less dust in the plant atmosphere provides a healthier and safer environment for staff.



### Regulatory Compliant

BFM® fitting products have been independently tested and conform with the leading internationally recognized health and safety legislation.





## Non-Permeable Connectors

### Seeflex 040E

Strong, most resilient multi-purpose connector



- **Temp. Range:**  
-25°C to 110°C (-13°F to 230°F)  
Surges to 120°C (248°F)
- **Surface Resistivity:**  $10^{10} \Omega$
- **Max. Operating Pressure:**  
0.34 bar / 5.0 PSI
- **Compliant with:**  
EC, FDA, USDA & 3A, ATEX

### Seeflex 020E

Lightweight & flexible, ideal for weighscale applications



- **Temp. Range:**  
-25°C to 80°C (-13°F to 176°F)  
Surges to 100°C (212°F)
- **Surface Resistivity:**  $10^{10} \Omega$
- **Max. Operating Pressure:**  
0.10 bar / 1.5 PSI
- **Compliant with:**  
EC, FDA, USDA & 3A, ATEX

### Seeflex 040AS

Designed to dissipate static, ideal for potentially explosive areas



- **Temp. Range:**  
-25°C to 95°C (-13°F to 203°F)  
Surges to 100°C (212°F)
- **Surface Resistivity:**  $10^8 \Omega$   
(very good at dissipating static)
- **Max. Operating Pressure:**  
0.24 bar / 3.5 PSI
- **Compliant with:**  
EC, FDA, USDA & 3A, ATEX

### Seeflex 060ES

Superior strength for over-pressure situations



- **Temp. Range:**  
-25°C to 120°C (-13°F to 248°F)  
Surges to 140°C (284°F)
- **Surface Resistivity:**  $10^{10} \Omega$
- **Used for continuous pressure situations:**  
Up to 1.7 bar / 24 PSI
- **Compliant with:**  
EC, FDA, USDA & 3A, ATEX

### Blanking Caps

As sight-glasses/viewing ports & sealing during changeovers



- Used to prevent contamination during clean down or change-over, also as sight-glasses/inspection ports
- **Available Diameters:**  
Ø100mm (4") to Ø1,650mm (65")  
in 50mm (2") increments
- **All blanking caps are:**  
30mm (1 3/8") in length
- Made from Seeflex 040E

### Blanking Bins

Ideal for sifter overs, transparent for monitoring fill level & reject consistency



- Can be lined with plastic bags for easy disposal of reject product
- **Available Diameters:**  
Ø100mm (4") to Ø1,650mm (65")  
in 50mm (2") increments
- **Available Lengths:**  
80mm (3"), 100mm (4") then in 50mm (2")  
increments up to 1,000mm (39 1/2")

### Flexi (Seeflex + Wire Coil)

Ideal for bag feeders & filling heads



- **Temp. Range:**  
-20°C to 85°C (-4°F to 185°F)  
Surges to: 105°C (221°F)
- **Approx compression ratio:**  
3:1 (wire coil section)
- **Available in:**  
**Flexi-Light** (more flexible coil)  
**Flexi-Earthed** (with built-in terminal lugs for grounding)
- **Compliant with:**  
EC, FDA, USDA & 3A, ATEX

### Teflex NP Black

PTFE film for temperature extremes & harsh chemicals



- **Temp. Range:**  
-73°C to 300°C (-99°F to 572°F)  
Surges to 316°C (600°F)
- **Surface Resistivity:**  $10^6 \Omega$
- **Max. Operating Pressure:**  
0.34 bar / 5.0 PSI
- **Compliant with:**  
EC, FDA & USDA, ATEX

### Teflex NP Opaque

PTFE film, semi-transparent to view product flow



- **Temp. Range:**  
-73°C to 300°C (-99°F to 572°F)  
Surges to 316°C (600°F)
- **Insulative material**
- **Max. Operating Pressure:**  
0.34 bar / 5.0 PSI
- **Compliant with:**  
EC, FDA & USDA

### Bulk Bag Loader

Inflatable loading head for hygienic operation



- **Inflates in seconds and seals tight** on the neck of bulk bag, eliminating product leaks
- **Much safer for workers hands** as there are no pinch points
- Can be used on bulk bags with or without plastic liners
- **Material complies with:**  
EC, FDA & USDA, ATEX

### Corner Connector

Replaces expensive steel tun-dishes in CIP



- **Available in:**  
Seeflex 040E and 060ES material
- Redirects CIP wash fluid to a drain to keep equipment and product dry
- Can be used to connect equipment on different levels when there is limited space

### Weighing Bellows

Prevents force transfer on weigh-scales



- Fast & easy snap fit, no manual adjustment required, made from durable Seeflex 040E.
- **Available Diameters:**  
Ø100mm (4"), Ø150mm (6"), Ø200mm (8")
- **Standard Height** of 80mm (3")

# BFM® fitting product range

## Woven Connectors

### LM3

100% woven polypropylene-breathable, suitable for low temperatures

- **Temp. Range:**  
-70°C to 94°C  
(-94°F to 201°F)
- **Surge Temp:**  
107°C (225°F)
- **Air Permeability:**  
13 (cm³/cm²/sec@125Pa)  
25 (ft³/ft²/min@0.5" wg)
- **Compliant with:**  
EC, FDA, ATEX



### LM4

100% woven Polyester-suitable for higher temperatures

- **Temp. Range:**  
-55°C to 130°C  
(-48°F to 266°F)
- **Surge Temp:**  
150°C (302°F)
- **Air Permeability:**  
0.4 (cm³/cm²/sec@125Pa)  
0.8 (ft³/ft²/min@0.5" wg)
- **Compliant with:**  
EC, FDA, ATEX



### Teflex Woven

Tightly woven pure PTFE-high temperature & chemical resistant

- **Temp. Range:**  
-40°C to 260°C  
(-40°F to 500°F)
- **Surge Temp:**  
280°C (536°F)
- **Air Permeability:**  
0.3 (cm³/cm²/sec@125Pa)  
0.5 (ft³/ft²/min@0.5" wg)
- **Compliant with:**  
FDA, ATEX



### FM1 Breather Bag

Polyester needle felt for venting hoppers & other contained vessels

- **Temp. Range:**  
-20°C to 130°C  
(-4°F to 266°F)
- **Surge Temp:**  
150°C (302°F)
- **Air Permeability:**  
17 (cm³/cm²/sec at 125Pa)  
33 (ft³/ft²/min at 0.5 inch wg)
- **Compliant with:**  
EC, FDA



## BFM® Product Options

### Rings

Support / anti-collapse rings to keep connector walls open

- Ideal for negative pressure, longer lengths or compression
- Available in stainless steel to Ø500mm (20") or plastic to Ø1,000mm (39½")
- Can be added to Seeflex O40E, O40AS, LM3, LM4, Blanking Bin, Teflex woven & Teflex NP (SS)



### Tool Release (TR)

Safety option to reduce risk of staff putting hands near dangerous moving parts

- Much firmer 'snap -bands' make TR connectors virtually impossible to release manually
- Specialist rounded-end or 'Smiley Faced' BFM® Tool Release Tool used to release connector
- Any BFM® fitting connector can be supplied as a TR option (≤Ø650mm)



### TR Lock-Out Safety System

Adds an extra level of safety to the TR option

- A lock-out 'tube' is welded over the TR hole & a padlock inserted
- Blocks access to the TR hole so padlock must be removed
- Key to padlock held securely to control access



### Quick Access Port

Makes metal detector testing or product sampling easy

- A polyurethane thread port hole & screw-in plug inserted in a Seeflex O40E or O60ES connector wall
- Allows easy access for metal detector test ball drops or product sampling without interrupting product flow or removing connector



In addition to the above range, BFM® has a variety of other products, including:



#### Wash Sleeve

Identifiable for exclusive CIP use



#### Tapered Connector

As hoppers or for flow correction



#### Kevlar Cover

Prevents fire in the event of explosion



#### Black-Out Cover

Used for light-sensitive processes



#### Venting Surge Hopper

Flexible alternative to steel surge / vent hoppers



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