BFM® fitting



Years of expertise & industry knowledge have created a transformed flexible connector.


## Traditional

**HOSE CLAMPED FABRIC SLEEVE**




## Transformed

**BFM® INTEGRATED SYSTEM**




| | Traditional | Transformed |
|---|---|---|
| HYGIENE | Powder leaks through hose clips<br>Build up between spigot and connector | Leak free – Dust free<br>No crevices to collect product |
| INSTALLATION | Inaccurate measurements & product variations create ill-fitting connections<br>Installation problems due to variation in fabrication | Perfect fit every time – only in the correct place |
| HEALTH & SAFETY | Tools can damage connectors<br>Installer's hands at risk | Tool free – snap fit<br>Hand safe assembly<br>Clean & transparent connector gives product flow visibility |
| EXPLOSION RESISTANCE | Overpressure causes hose clamp failure before connector failure | Seals tighter under pressure<br>Independently explosion tested to 60 kPa + |
| DOWNTIME | Slow and difficult to change<br>Longer plant downtime during CIP & maintenance<br>Connectors wear out faster | Fastest change over in industry guarantees minimal machine interruption<br>More durable connector means less change overs |
| PRODUCT LOSS | Valuable product can be lost due to constant connector leakage<br>Clamped connectors prone to tearing leading to product spillage | 100% seal prevents product leakage<br>Superior material strength and snap-fit design means connectors won't tear |
| STANDARDIZATION | Multiple sizes, materials, fitting types & safety conformity make stock monitoring complex.<br>Inconsistent sizes and fit when installing manually cut sleeve materials. | Streamlines inventory control and improves supply chain sustainability<br>Standardized exact sizes ensures perfect fit every time. |

# BFM® fitting product range

## NON-PERMEABLE CONNECTORS

BFM®'s Seeflex range of connectors are made from clear, ether based polyurethane. Seeflex has no memory and will not fracture with flexing.

### SEEFLEX 040E - STRONG, MOST RESILIENT MULTI-PURPOSE CONNECTOR

- Temp. Range: -25°C to 110°C (-13°F to 230°F) • Surge Temp: 120°C (248°F)
- Surface Resistivity: $10^{10}$ Ω (Tested to ASTM D-257)
- Atex Compliant: IBExU tested
- Regulations: FDA 21 CFR 177.1680 & 177.2600, USDA & 3A (20-), (EC) 1935/2004, 2023/2006 & 10/2011

### SEEFLEX 020E - LIGHTWEIGHT & FLEXIBLE, IDEAL FOR WEIGHSCALE APPLICATIONS

- Temp Range: -25°C to 80°C (13°F to 176°F) • Surge Temp: 100°C (212°F)
- Surface Resistivity: $10^{10}$ Ω (Tested to ASTM D-257)
- Atex Compliant: IBExU tested
- Regulations: FDA 21 CFR 177.1680 & 177.2600, USDA & 3A (20-), (EC) 1935/2004, 2023/2006 & 10/2011

### SEEFLEX 040AS - DESIGNED TO DISSIPATE STATIC, IDEAL FOR POTENTIALLY EXPLOSIVE AREAS

- Temp. Range: -25°C to 95°C (-13°F to 203°F) • Surge Temp: 100°C (212°F)
- Surface Resistivity: $10^{8}$ Ω (very good at dissipating static - Tested to ASTM D-257)
- Clear ether-based polyurethane with antistatic infusion
- Regulations: FDA 21 CFR 177.1680 & 177.2600, USDA & 3A (20-), (EC) 1935/2004, 2023/2006 & 10/2011

### SEEFLEX 060ES - SUPERIOR STRENGTH FOR OVER-PRESSURE SITUATIONS

- Temp. Range: -25°C to 120°C (-13°F to 248°F) • Ether based polyurethane with internally bonded polyester scrim
- Surface Resistivity: $10^{10}$ Ω (Tested to ASTM D-257)
- Used for continuous pressure situations up to 1.3 bar
- Regulations: FDA 21 CFR 177.1680 & 177.2600, USDA & 3A (20-), (EC) 1935/2004, 2023/2006 & 10/2011

### FLEXI - SEEFLEX + WIRE COIL - IDEAL FOR BAG FEEDERS & FILLING HEADS

- Temp Range: -20°C to 85°C (-4°F to 185°F) • Approx compression ratio: 3:1
- Also available as Flexi-Light (more flexible coil) and Flexi-Earthed with terminal lugs attached to coil ends
- Regulations: FDA 21 CFR 177.1680, 175.105 (adhesives) & 177.2600, USDA & 3A (20-), (EC) 1935/2004, 2023/2006 & 10/2011

### TEFLEX NP BLACK (NON-PERMEABLE) - PTFE LAMINATE FOR TEMPERATURE EXTREMES & CHEMICALS

- Temp Range: -73°C to 300°C (-99°F to 572°F) • Surge Temp: 316°C (600°F)
- Teflex NP can be used on products across the full pH scale (caustic/acid products will not effect Teflex NP)
- Designed to dissipate electrical charge - Surface Resistivity: $10^{6}$ Ω
- Regulations: FDA 21 CFR 177.1550, 175.105 & 178.3297, (EC) 1935/2004, 2023/2006 & 10/2011

### 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 in: Ø100mm (4"), Ø125mm (5"), then Ø150mm (6") to Ø1,650mm (65") in 50mm (2") increments
- All blanking caps are 30mm (1 3/16") in length
- Manufactured from Seeflex 040E (so same material/operational specs & compliance applies)

## 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 ($cm^3/cm^2/sec$@125Pa) 25 ($ft^3/ft^2/min$@0.5" wg)
- Regulations: FDA 21 CFR 177.2800, (EC) 1935/2004, 2023/2006 & 10/2011

### LM4 - 100% WOVEN POLYESTER - SUITABLE FOR HIGHER TEMPERATURES

- Maximum Operating Temp: 130°C (266°F) continuous
- Surge Temp: 150°C (302°F)
- Air Permeability: 0.4 ($cm^3/cm^2/sec$@125Pa) 0.8 ($ft^3/ft^2/min$@0.5" wg)
- Regulations: FDA 21 CFR 177.2800, (EC) 1935/2004, 2023/2006 & 10/2011

### TEFLEX WOVEN - PURE WOVEN PTFE - HIGH TEMPERATURE & CHEMICAL RESISTANT

- Maximum Operating Temp: 260°C (500°F) • Surge Temp: 280°C (536°F)
- Air Permeability: 0.3 ($cm^3/cm^2/sec$@125Pa) 0.5 ($ft^3/ft^2/min$@0.5" wg)
- Teflex can be used on products across the full PH scale (either caustic or acid)
- Regulations: FDA 21 CFR 177.1550, 178.3297

## BFM® PRODUCT RANGE...continued

### 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.

### RINGS OPTION - SUPPORT / ANTI-COLLAPSE RINGS TO KEEP CONNECTOR WALLS OPEN

- Ideal for use under negative pressure or for longer length connectors or compression applications
- Available in stainless steel to Ø500mm(20") or plastic to Ø1,000mm (39½"))
- Can be added Seeflex 040E (incl Wash Sleeves), Seeflex 040AS, LM3, LM4, Teflex and Teflex NP only
- Multiple rings can be inserted up to 10 in total, subject to minimum spacing (Teflex NP maximum is 8)

### TOOL RELEASE (TR) OPTION - FOR ADDED SAFETY LAYER OR HIGH VACUUM APPLICATIONS

- Connectors have much firmer 'snap-bands' to make virtually impossible to release manually
- Specialist rounded-end BFM® Tool Release Tool used to release connector through hole in spigot
- Any BFM® fitting connector can be supplied as a TR option (with the firmer bands)
- Additional safety level offered with uniquely shaped 'Smiley Face' TR tool option

### IN ADDITION TO THE ABOVE RANGE, BFM® HAS A VARIETY OF ADDITIONAL PRODUCTS, INCLUDING:


Teflex NP Opaque


Flexi-Earthed


Flexi-Light


Wash Sleeve


Tapered Connector


Black-Out Cover


Kevlar Cover


FM1 Breather Bag


Blanking Sock/Bin

# BFM® fitting system

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

The stainless steel spigots have a 'tail' 52mm (2") long. These can be easily cut down or cut on an angle to suit your existing pipework.

BFM®'s flexible connectors are available in a wide range of diameters and lengths. Pipe and spigot length can be adjusted to ensure the optimum fit within an appropriate Installation Gap (IG) for the connector length (CL).

The Installation Gap is always slightly smaller than the actual connector length to allow for ease of connector replacement and any offset or movement during operation.


As a basic guide for **in-line static equipment:**
(ie. no off-set or movement) **IG = CL - 10mm (Minimum)**

**You can download the BFM® Installation Calculator from our website or contact your local Distributor for more information.**

**Your Local BFM® Distributor is:**

Visit **BFMfitting.com** for more information.



V13 Jun 2022 ENG BLUE