

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



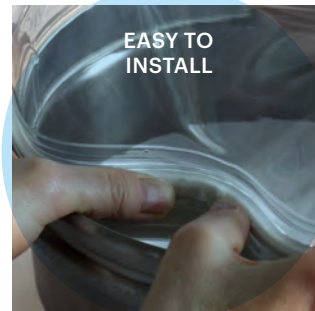
## BEFORE Traditional

HOSE CLAMPED  
FABRIC SLEEVE



## AFTER Transformed

BFM®  
INTEGRATED  
SYSTEM



	Traditional	Transformed
<b>HYGIENE</b> 	Powder leaks through hose clips Build up between spigot and connector	Leak free – Dust free No crevices to collect product
<b>INSTALLATION</b> 	Inaccurate measurements & product variations create ill-fitting connections Installation problems due to variation in fabrication	Perfect fit every time – only in the correct place
<b>STANDARDISATION</b> 	Connectors are made any sizes – thousands of stock variations possible	Diameters every 50mm from 100mm to 1650mm Lengths in 50mm increments standardises stocks
<b>HEALTH &amp; SAFETY</b> 	Tools can damage connectors Installer's hands at risk	Tool free – snap fit Hand safe assembly Clean & transparent connector gives product flow visibility
<b>EXPLOSION RESISTANT</b> 	Overpressure causes hose clamp failure before connector failure	Seals tighter under pressure Independently explosion tested to 60 kPa +
<b>DOWNTIME</b> 	Slow and difficult to change Longer plant downtime during CIP & maintenance Connectors wear out faster	Fastest change over in industry guarantees minimal machine interruption More durable connector means less change overs

# BFM® Global Products

## 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:  $10^{10} \Omega$  (Tested to ASTM D-257)
- Atex Compliant: IBExU tested
- Regulations: FDA CFR 177.1680. & 177.2600 (EC) 1935/2004, 2023–2006 & 10/2011, USDA & 3A (20-)



### 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:  $10^{10} \Omega$  (Tested to ASTM D-257)
- Atex Compliant: IBExU tested.
- Regulations: FDA CFR 177.1680. & 177.2600, (EC) 1935/2004, 2023–2006 & 10/2011, USDA & 3A (20-)



### 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:  $10^8 \Omega$  (very good at dissipating static - Tested to ASTM D-257)
- Clear ether based polyurethane with antistatic infusion
- Regulations: FDA CFR 177.1680. & 177.2600



### 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:  $10^{10} \Omega$  (Tested to ASTM D-257)
- Used for continuous pressure situations up to 1.3 bar
- Regulations: FDA CFR 177.1680. & 177.2600, (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 CFR 177.1680, 21 CFR 175.105 (adhesives) & 177.2600, (EC) 1935/2004, 2023–2006, USDA & 3A (20-27)



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

- Maximum Operating Temp: 300°C (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:  $10^6 \text{ Ohms}$
- Regulations: FDA CFR 177.150 & CFR 178.3297, (EC) 1935/2004, 10/2011

## 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<sup>3</sup>/cm<sup>2</sup>/sec@125Pa) 25 (ft<sup>3</sup>/ft<sup>2</sup>/min@0.5" wg)
- LM3 fulfils food contact requirements: Directives 1935/2004 and 10/2011, FDA certified for food contact



### 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<sup>3</sup>/cm<sup>2</sup>/sec@125Pa) 0.8 (ft<sup>3</sup>/ft<sup>2</sup>/min@0.5" wg)
- LM4 fulfils food contact requirements: Directives 1935/2004 and 10/2011 FDA CFR21, part 177.2800



### TEFLEX - 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<sup>3</sup>/cm<sup>2</sup>/sec@125Pa) 0.5 (ft<sup>3</sup>/ft<sup>2</sup>/min@0.5" wg)
- Teflex can be used on products across the full PH scale (either caustic or acid)
- Regulation: FDA 21CFR 177.1550

IN ADDITION TO THE ABOVE RANGE, BFM® CAN OFFER THE FOLLOWING PRODUCTS:



Flexi-Earthed



Flexi-Light



Steel Rings



Plastic Rings



Wash Sleeve



Tapered Connector



Black-Out Cover



Kevlar Cover



FM1 Breather Bag



Blanking Cap



Blanking Sock/Bin



TR (Tool Release) Option



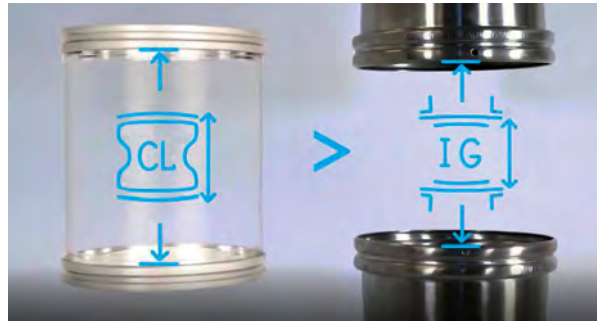
# BFM® Connectors

BFM®s flexible connectors are available in a wide range of diameters as shown in the table below. It is important that the appropriate connector length is selected for the space available. Pipe and spigot length can be adjusted to ensure the right fit within an appropriate Installation Gap (IG) for the connector length.

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

Your BFM® distributor can advise on the correct IG for your connector length/application.

Standard Connector DIAMETER Ø		Standard Connector LENGTHS	
(MM)	(INCHES)	(MM)	(INCHES)
100	4"	80	3"
125	5"	100	4"
150	6"	150	6"
200	8"	200	8"
250	10"	250	10"
300	12"	300	12"
350	14"	350	14"
400	16"	400	16"
450	18"	450	18"
500	20"	500	20"
550	22"	550	22"
600	24"	600	24"
650	26"	650	26"
		700	28"
		750	30"
		800	31½"
		6,000*	19ft 8"*



As a basic guide for in-line static equipment (ie. no off-set or movement):

$$IG = CL - 10mm \text{ (Minimum)}$$

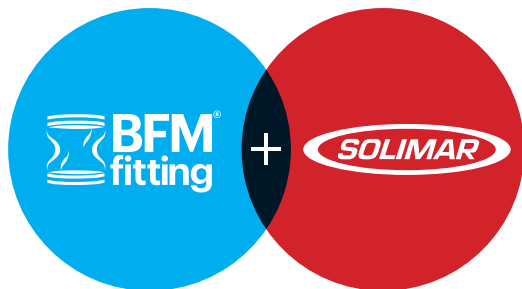
- The connector diameters and lengths highlighted in blue on the adjacent table are the 'Preferred Connector' range and are the most cost effective options.
- Anything outside of this standard range can be produced as a special connector, up to 1,650mm (65") diameter maximum\*. 100mm (4") diameter is the smallest we can manufacture.
- The maximum length for diameters under 700mm (28") is 6 metres (19ft 8")\*.
- Available in 50mm/2" increments only.
- TR (Tool Release) connectors are available up to a maximum of diameter of 650mm (25½")

\* There are some restrictions on diameter and length for different materials and for those connectors with support rings. Refer to BFMfitting.com or your local Distributor for more information.

**NB:** Connector diameters and lengths are available in 50mm/2" increments only. Measurements shown in mm are exact, inches are approximate.

**NOTES:**

01. The stainless steel spigots (flanges) have a tail 52mm (2") long. These can be easily cut down or cut on an angle to suit your existing pipework. See installation instructions for more information.
02. It is important to weld the spigots onto your pipework with the length of the flexible connector in mind as indicated above. All BFM® connectors are available in length increments of 50mm (2").
03. For applications where there is a possibility for static build up, e.g. wood dust, flour, milk powder etc., we recommend using a static dissipative wire (strip), connecting the two BFM® spigots.



**LEARN MORE**

**W:** www.solimarpneumatics.com  
**T:** 1.800.233.7109 | 763.574.1820  
**E:** solimar@solimarpne.com

All information in this document is based on our present knowledge and experience at the time of printing. Due to the multitude of factors influencing the suitability and performance of the BFM® fittings, it does not exempt the user from performing his/her own tests. Nor does it imply any legally binding assurance concerning specific properties of the BFM® fittings or the suitability for a particular application. The responsibility of complying with any governing laws and regulations relevant to the use of BFM® fittings is the obligation of the user. Subject to technical changes without prior notice. BFM® fittings are manufactured by BFM® Global Ltd.