## HOW TO ELIMINATE

#### Dust Leakage & Excess Downtime With BFM® fitting

— 10 OCTOBER 2023 —



# **Meet Our Speakers**



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# **BFM® At a Glance**

Made in NZ, Used The World Over



## **Just some of our Global Customers**



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# AGENDA

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The BFM<sup>®</sup> fitting 100% seal - cleaner, safer & more efficient



**Case Studies** 

**BFM®** Product Range



Industries & Applications Q&A

The BFM® fitting 100% seal – cleaner, safer & more efficient

## The Problem with Old-Style Connectors

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- Short lifespan so frequent replacements
- Lengthy installation process
- Significant downtime to replace & clean up after
- Larger inventory due to variation in sizes



Unhygienic

- Poor sealing ability
- Product build-up between connector & pipe walls
- Frequent cleanups required



- Unsafe
- Dust leakage is a serious
   explosion risk
- Dust in plant atmosphere unhealthy for staff
- Clamps and tools required for fitment risk workers hands

01. The BFM® fitting 100% seal – cleaner, safer & more efficient



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# **THE BFM® ADVANTAGE**

What's so great about a BFM<sup>®</sup> fitting?







**AFTER BFM® FITTING** 

BEFORE

BFM® GLOBAL LTD. | WEB: BFMfitting.com







**AFTER BFM® FITTING** 

BEFORE



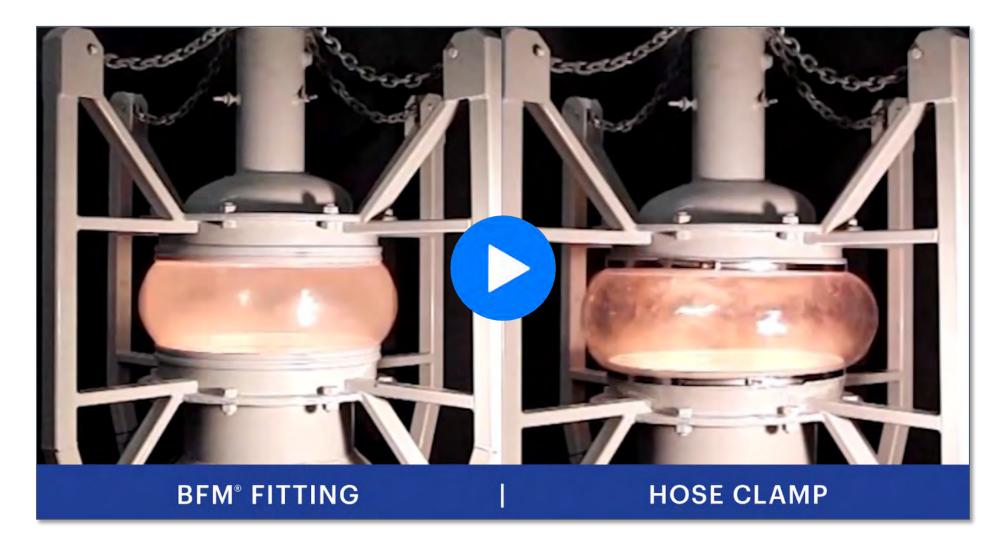






 Snap fit installation means no tools required for standard BFM<sup>®</sup> fitting connector installation & removal • For high-risk areas, **special tool-release options** are available for added staff security, with user friendly design





# **REGULATORY COMPLIANCE**





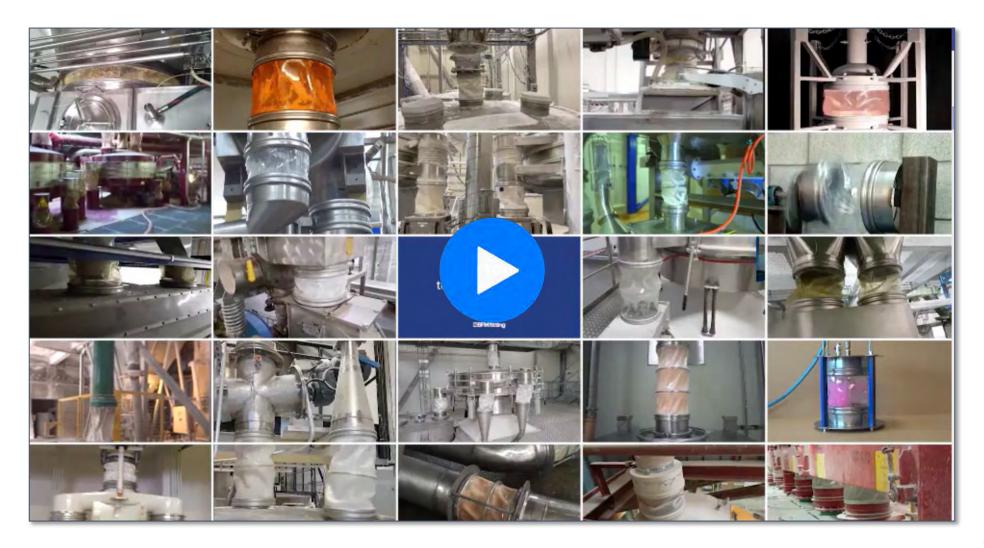


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# BFM® are lasting over **50x longer**

than our previous connectors

— Uk Plaster Manufacturer

## Helps STREAMLINE YOUR INVENTORY



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## Significantly REDUCES DOWNTIME





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## **BFM® SPIGOTS RANGE**





#### **STANDARD SPIGOT**

- Stainless Steel T304L and T316L , & C22 Hastelloy
- Ø100mm to 1,650mm in 50mm increments (incl a Ø125mm)

#### **LIPPED SPIGOT**

- Stainless Steel T304L only
- Ø100mm to 400mm in 50mm increments

## **BFM® SEEFLEX RANGE**



#### **SEEFLEX 040E**

Temp Range:	
Surge Temp:	
Surface Resistivity:	
ATEX Compliant:	

**Regulations:** 

- 25 to 110°C
120°C
10 <sup>10</sup> (Tested to ASTMD-257)
IBExU tested
• FDA 21 CFR 177.1680 & 177.2600 • USDA
• (EC) 1935/2004, 2023-2006 & 10/2011



**SEEFLEX 020E** 

- 25 to 80°C

100°C

10<sup>10</sup> (Tested to ASTMD-257)

IBExU tested

FDA 21 CFR 177.1680 & 177.2600
USDA
(EC) 1935/2004, 2023-2006 & 10/2011



- 25 to 95°C

100°C

10<sup>8</sup> (Tested to ASTMD-257)

IBExU tested

• (EC) 1935/2004, 2023-2006 & 10/2011

• FDA 21 CFR 177.1680 & 177.2600

• USDA



#### SEEFLEX 040AS SEEFLEX 060ES

- 25 to 120°C

140°C

10<sup>10</sup> (Tested to ASTMD-257)

IBExU tested

FDA 21 CFR 177.1680 & 177.2600
USDA
(EC) 1935/2004, 2023-2006 & 10/2011

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## **BFM® TEFLEX RANGE**





**TEFLEX NP BLACK** 



#### **TEFLEX WOVEN**

Temp Range:	- 40 to 260°C	
Surge Temp:	280°C	
Surface Resistivity:	Insulative	
ATEX Compliant:	IBExU tested	IBI
Regulations:	• FDA 21 CFR 177.1550, 178.3297.	• FDA 21 CFR • (EC) 1935/2

73 to 300°C	
316°C	
10 <sup>6</sup>	
BExU tested	
FR 177.1550 & 178.3297 /2004 & 10/2011.	• FD/ • (EC

#### **TEFLEX NP OPAQUE**

- 73 to 300°C 316°C Insulative IBExU tested • FDA 21 CFR 177.1550 • (EC) 1935/2004 & 10/2011.

## **BFM® FLEXI RANGE**







**FLEXI-EARTHED** 

**FLEXI CONNECTOR** 

#### **FLEXI-LIGHT**

#### **Temp Range:** - 20 to 85°C - 20 to 85°C - 20 to 85°C Surge Temp: 105°C 105°C 105°C **Compression Ratio:** 3:1 4:1 3:1 **ATEX Compliant:** IBExU tested IBExU tested IBExU tested • FDA 21 CFR 177.1680, 175.105 (adhesives) & 177.2600 • FDA 21 CFR 177.1680, 175.105 (adhesives) & 177.2600 • FDA 21 CFR 177.1680, 175.105 (adhesives) & 177.2600 **Regulations:** • (EC) 1935/2004, 2023-2006 & 10/2011 • (EC) 1935/2004, 2023-2006 & 10/2011 • (EC) 1935/2004, 2023-2006 & 10/2011 • USDA • USDA • USDA

## **BFM® BREATHABLE CONNECTORS**





#### LM3 CONNECTOR

#### **LM4 CONNECTOR**

#### **FM1 BREATHER BAG**

Max. Operating Temp:	-70 to 94°C	- 40 to 130°C	- 20 to 130°C
Max. Surge Temp:	107°C	150°C	150°C
Surface Resistivity:	10 <sup>8</sup>	10 <sup>9</sup>	10 <sup>8</sup>
ATEX Compliant:	IBExU tested	IBExU tested	N/A
Regulations:	• FDA 21 CFR 177.2800 • (EC) 1935/2004, 2023/2006 & 10/2011	• FDA 21 CFR 177.2800 • (EC) 1935/2004, 2023/2006 & 10/2011	• FDA 21 CFR 177.2800 • (EC) 1935/2004 & 10/2011

## **BFM® BLANKING CAPS & BINS**



#### **BLANKING CAP**

**Temp Range:** Surge Temp: Surface Resistivity: **ATEX Compliant: Regulations:** 

- 25 to 110°C
120°C
1010
IBExU tested
• FDA 21 CFR 177.1680 & 177.2600 • USDA

• (EC) 1935/2004, 2023-2006 & 10/2011



#### **BLANKING BIN**

- 25 to 110°C

120°C

10<sup>10</sup>

IBExU tested

• FDA 21 CFR 177.1680 & 177.2600

• USDA

• (EC) 1935/2004, 2023-2006 & 10/2011

## **BFM® BULK BAG LOADER**





## **BFM® COVERS**





#### **KEVLAR COVER**

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#### **ATEX Compliant:**

**Regulations:** 

#### IBExU tested\*

- FDA 21 CFR 177.1680 & 177.2600
- USDA
- (EC) 1935/2004, 2023-2006 & 10/2011

### **BLACK-OUT COVER**

#### IBExU tested\*

- FDA 21 CFR 177.1680 & 177.2600
- USDA
- (EC) 1935/2004, 2023-2006 & 10/2011

## **BFM® ADDITIONAL OPTIONS**





## **BFM® NEW PRODUCTS**

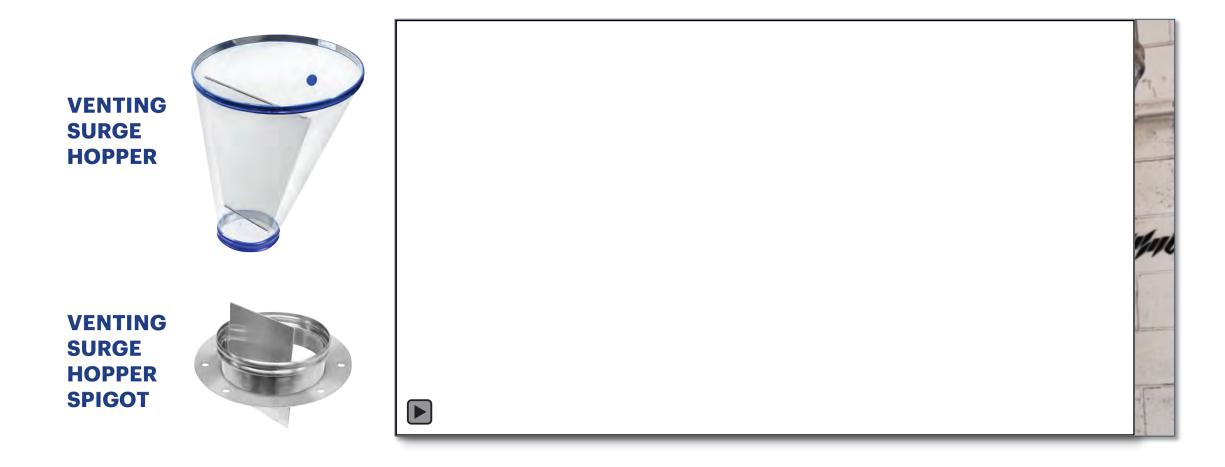


#### **CORNER CONNECTOR 040E & 060ES**



#### **QUICK ACCESS PORT OPTION**

## **BFM® VENTING SURGE HOPPER**



## **BFM® WEIGHING BELLOWS**



#### **WEIGHING BELLOWS**

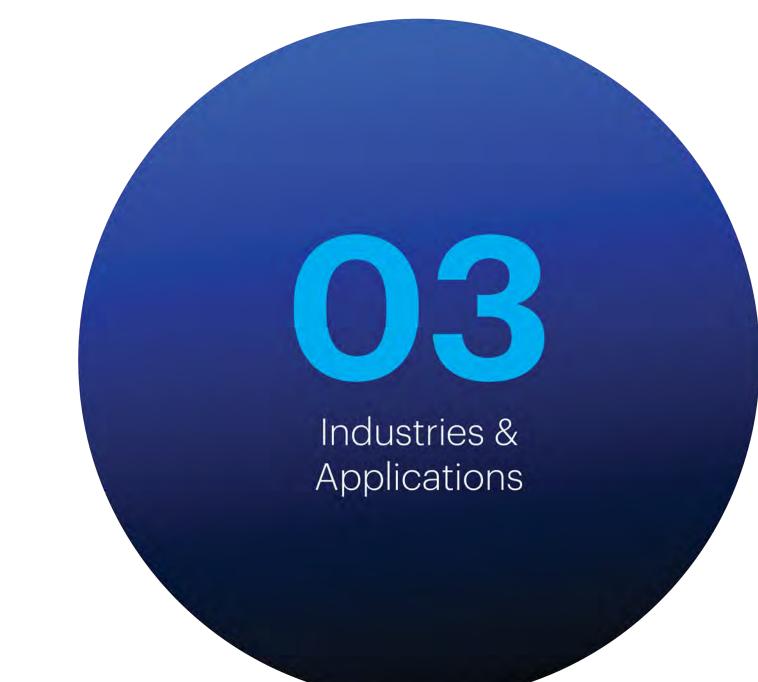


## **BFM® WEIGHING BELLOWS**



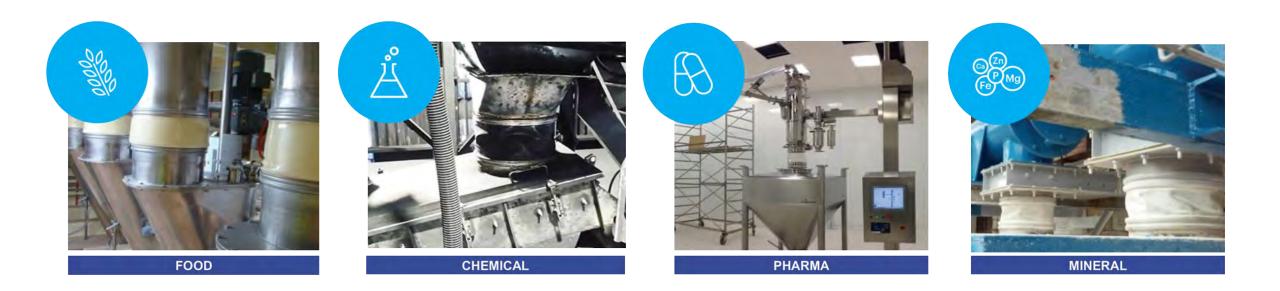
**WEIGHING BELLOWS** 





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## **INDUSTRIES**

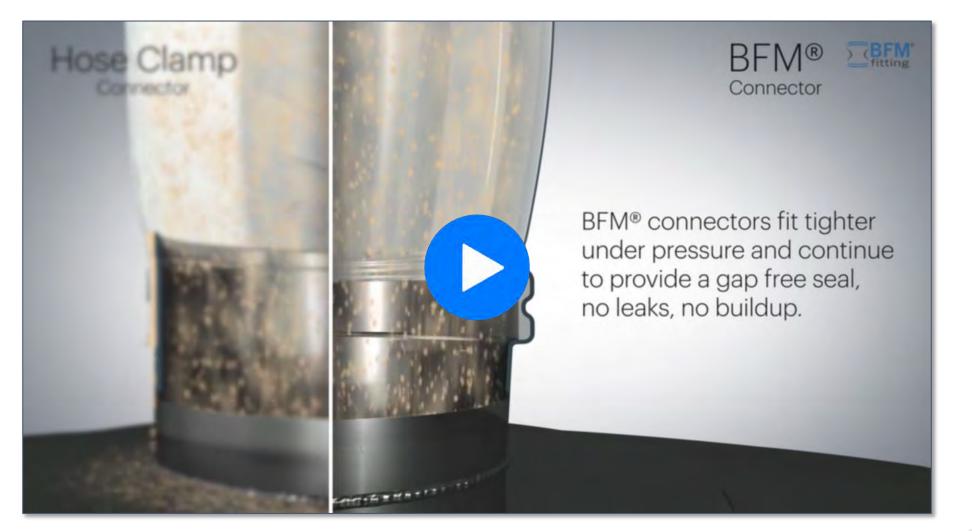


# APPLICATIONS / OPERATING CONDITIONS

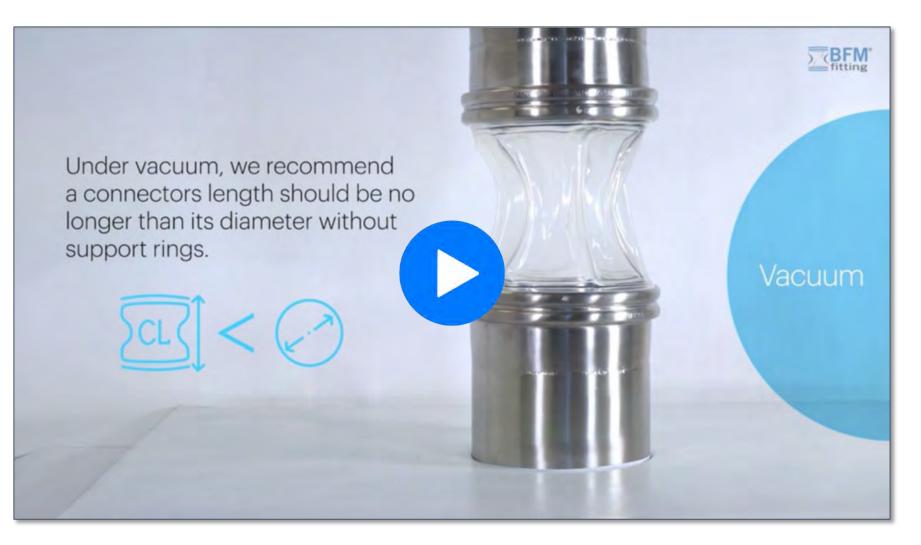
### **BFM® & MOVEMENT**



#### **BFM® & PRESSURE**



#### **BFM® & VACUUM**





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### **BFM® & METAL DETECTORS**



METAL DETECTOR UNDER SILO



FROM A BIN DISCHARGE TO INTERMEDIARY HOPPER

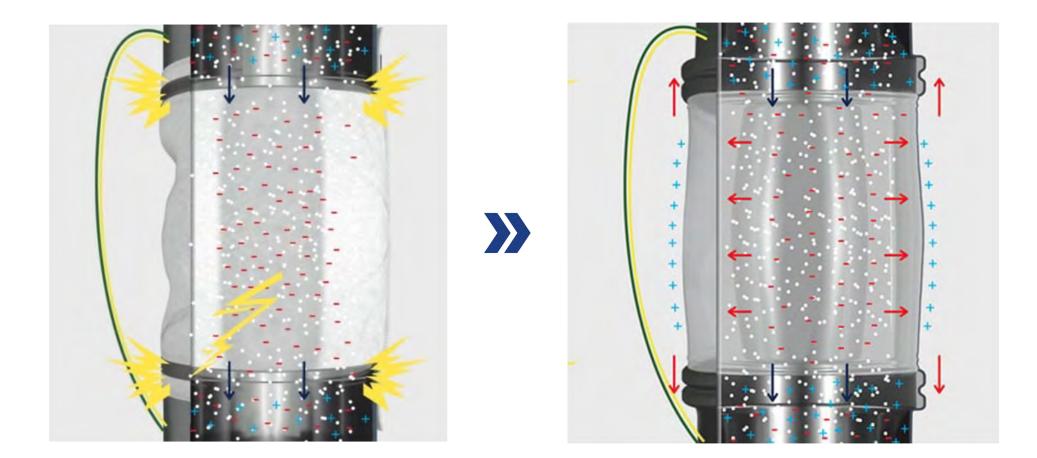
#### **BFM® & METAL DETECTORS**

### EASY ACCESS FOR METAL DETECTOR TESTING



#### **QUICK ACCESS PORT OPTION**





# — Aren't earthing cables enough?

- No!



#### **High Risk Area Solution:**

**Double Layer Connectors** 



### **BFM® & CLEAN IN PLACE (CIP)**



### **BFM® & CLEAN IN PLACE (CIP)**



### **BFM® & CLEAN IN PLACE (CIP)**



Replaces expensive tundish type drainage systems









#### HEAVY LEAKAGE SOLVED On Sifter With Large Throw





**BEFORE** 

#### **AFTER BFM® FITTING**

Read full Case Study here.







**BEFORE** 



#### **AFTER BFM® FITTING**

Read full Case Study here.





BEFORE

#### **AFTER BFM® FITTING**

Read full Case Study here.

#### EASY CLEAN-ROOM HYGIENE & LESS DOWNTIME For Ingredient Manufacturer



**BEFORE** 



#### **AFTER BFM® FITTING**

Read full Case Study here.



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#### **GETTING THE PERFECT FIT**



Identify the connection type

- Static Inline
  Static Offset
  - Vibrating
    Oscillating



Measure total space available

• Measure the maximum space available to fit the spigots and connector



#### Measure diameter on all connections

• Measure total space and diameters on all machines.

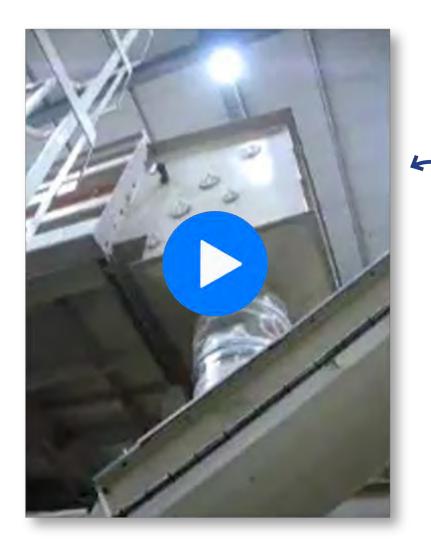
**Note**: BFM<sup>®</sup> spigot diameters are measured on the inside diameter (ID) except for the 100mm / 4" spigots which are measured on outside diameter (OD).

#### BFM fitting

#### **GETTING THE PERFECT FIT**



### **TIPS FOR MEASURING MOVEMENT**



Measuring with a laser pointer

### **INSTALLING SPIGOTS**



### **INSTALLATION GAP (IG) CALCULATOR**



BFM fitting

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#### Installation Don'ts: DON'T INSTALL WITH IG THAT'S TOO BIG



#### Installation Don'ts: DON'T INSTALL WITH IG THAT'S TOO SMALL



#### Installation Don'ts: ENSURE BOTH CUFFS ARE INSIDE THE SPIGOT RIDGES



#### **SPIGOT ADAPTATION**



SQUARE TO ROUND



FLUSH-MOUNTED



**BLANKING BIN LID** 

#### **SPIGOT ADAPTATION**



CONTAINER LOADING/LID

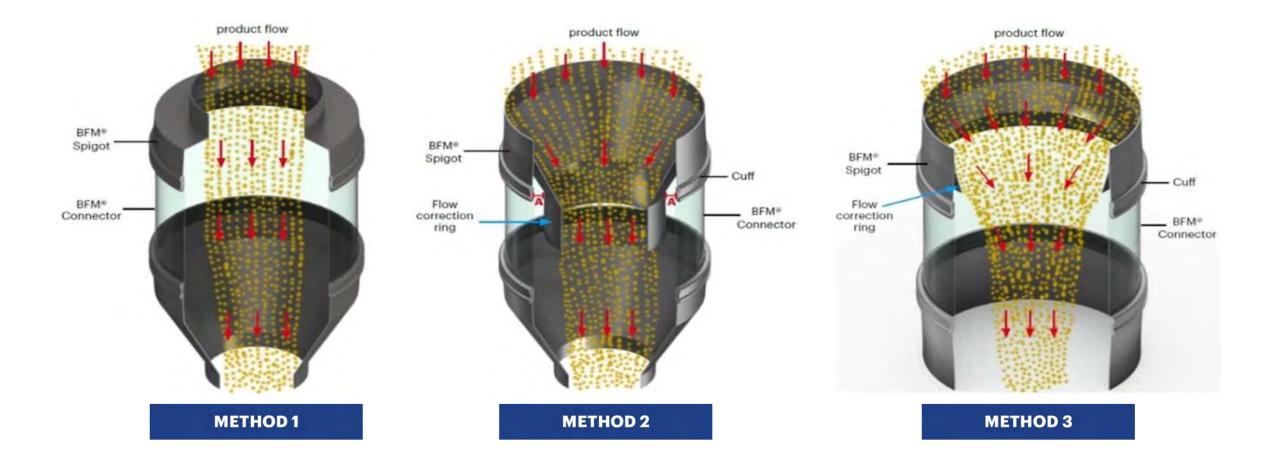


MATCON IBC LOADING



TWIN DISCHARGE TO BUTTERFLY VALVES

### **BFM® & FLOW CORRECTION**



#### **BFM® & FLOW CORRECTION**





## **Thanks for Attending**



**BFMfitting.com** 

