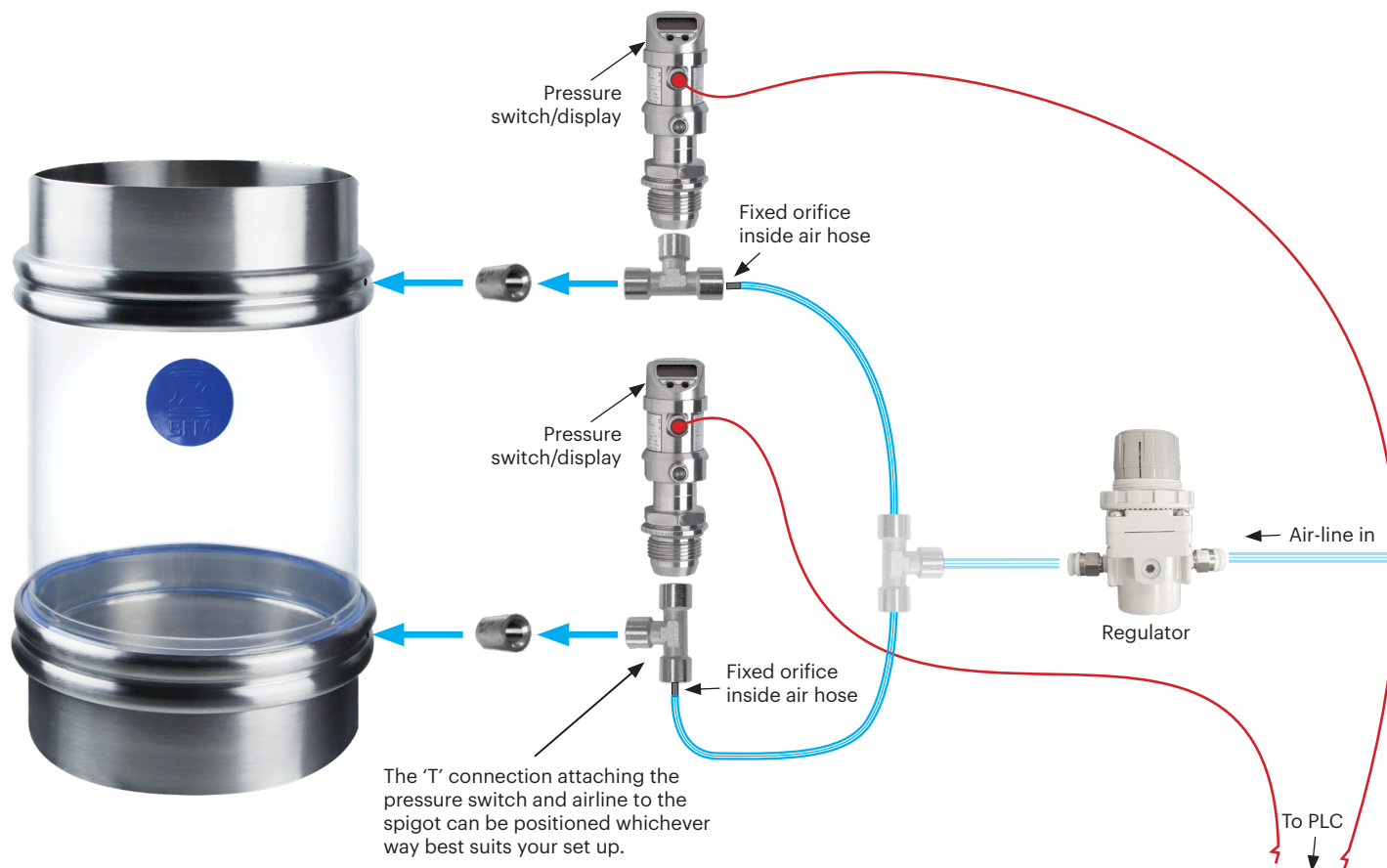


# BFM<sup>®</sup> Pneumatic Monitoring System

Below is an overview of the basic set up for the BFM<sup>®</sup> Pneumatic Monitoring System. To install the system, a hole needs to be drilled in-between the two ridges on each spigot (need to ensure hole is **no bigger than 3mm / 1/64"**). **Note:** if you are using **TR (Tool Release) connectors**, the hole being drilled for installing the system should be located as far away as possible from the TR Tool hole to ensure there is no air leakage close to the sensor.



Pressurised air is pumped between the flexible cuff of the BFM<sup>®</sup> connector and the spigot.

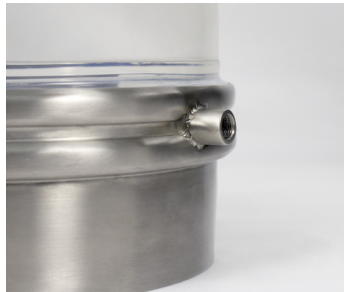
Air line sensors (pressure switches) immediately detect if this outward pressure is released as the connector cuff begins to get pushed inwards, setting off an alarm and/or shutting off any moving parts below.

**Note:** the system is designed for use with BFM<sup>®</sup>'s Seeflex range of connectors.

The image on this page shows the ATEX compliant Pressure Switch, and the reverse page shows the IP65 compliant Pressure Switch. The instructions for installing either system are the same for both versions.

Note: 1m of air-hose and approximately 1.9m of wiring is provided with the System. Additional air-hose, wiring and central T-junction connector are not included.

# Installing the BFM® Pneumatic Monitoring System



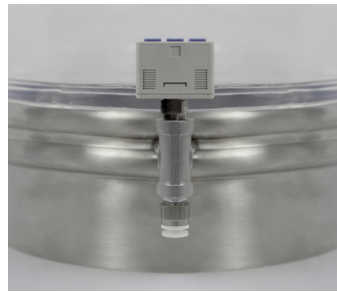
01.

Weld the socket provided between the ridges of the BFM® spigot ensuring the weld is clean.



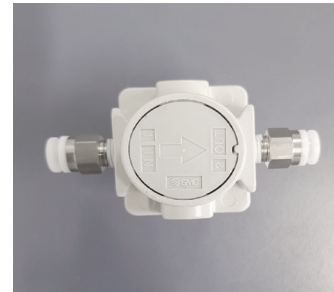
02.

Drill a 3mm diameter (1/8") hole in between the spigot ridges through the weld socket.



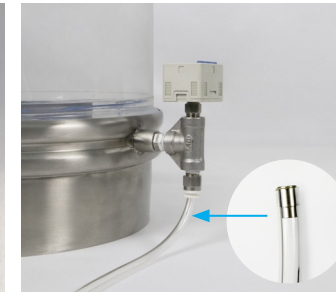
03.

Wind the T-fitting and pressure switch onto the socket so that it sits as shown.



04.

Ensure the flow-direction arrow on the regulator is towards the spigot side



05.

Connect the air hose to the T-fitting. Make sure the end containing the fixed-orifice is placed into the T-fitting.



06.

Connect the regulator to the air hose. Ensure regulator is closed, and connect to the air supply.

**CAUTION!** Extreme care must be taken not to distort spigot shape.

## Setting the system:

Ensure a BFM® Seeflex connector is fitted properly into the spigot during the setting process.



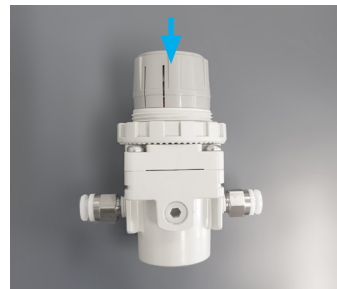
01.

Zero the pressure switch.



02.

Open the regulator and slowly increase pressure until reading on the pressure switch is approximately 30kPa or 4.35PSI.



03.

Lock the regulator to this position to avoid tampering by pushing down on top knob.

04.

Follow the instruction leaflet included with the kit to set the window for the switching function. The upper limit should be adjusted to 40kPa or 5.8PSI\*, and the lower limit to 20kPa or 2.9PSI.

*\* The upper pressure limit can be set higher if your product flow is pressurized or particularly dense and puts added pressure on the inside of the BFM® fitting.*



These settings should be sensitive enough to detect removal or opening of the fitting from any point around the cuff, however:

- **Larger diameters** may require more than one pneumatic connection.
- For **TR connectors** you should ensure that the spigot weld socket for installing the Pneumatic Monitoring System is positioned as far away as it can be from the TR hole to reduce the possibility of air leakage close to the sensor.

If you have any doubt, please contact your BFM® Distributor for advice.