

## SUREBAND<sup>®</sup>Steel-ML *(Multi-Latches)*

Material stainless steel: 50/70/90 mm band width 1.4401 / ASTM 316 (other widths on request)

Net 1.4304 / ASTM 316L, Clamp 1.4310

Temperature: -52°C ... 500 °C

Temperature: 500 °C

Max. Pressure: 100 bar (higher pressures on request)

Pressure levels: DIN PN6-PN100

ANSI 150 lbs-1500 lbs

BS Table A -T

Nominal sizes: DN15 - DN 400 (other nominal diameters on request)

¼ "- 24"

Special designs: Various band widths and thicknesses, other stainless steel materials

### Important features of a safety shield

Flangeguards®  
SUREBAND Steel



1

#### **Total Pressure Release** PDT (Pressure Diffusion Technology)

Generally the most important requirement is to stop a leak from causing damage or injury. Even at low pressure, leakage can result in spray-out.

2

#### **Quick connection latch**

Easy assembly or disassembly without tools.

3

#### **Material**

The material used must be suitable for the application (pressure, temperature, chemical resistance)

Pipe Connections :

Flange DIN, ANSI, SAE ...

Applikation:

High Pressure and High Temperature Applications

Steam and Chemicals

Hydraulic oil, fuels, lubricants, sealing etc.

### Special Features

A safety shield to avoid dangerous spray-outs at high pressure or high temperature applications. No danger of spray-outs or misting, as the stainless steel mesh insert ensures complete pressure release within the shield. Flangeguards PDT technology enables complete pressure release in the event of damage. Escaping liquid does not spray out of the leak but drips unstressed and safe from the safety shield.

The safety shield can be re-used even after a leak and can therefore be used for a long time. It can be installed quickly without tools and can be dismantled easy again, e.g. for inspections.

## Beschreibung

### SUREBAND<sup>Steel</sup>



Multi-latches safety shields were developed to protect high-pressure and high-temperature applications. In systems subjected to high pressure or high temperature, they serve as spray protection in order to avoid dangers from product leakage (e.g. acids, oils and vapours) at flanged joints.

The Flangeguards PDT technology enables a complete pressure release in the event of damage. Leaking liquid no longer sprays out of the leak, but drips safely out of the shield. Lateral spray-outs and dangerous mist g are reliably prevented. The special design of SUREBAND-ML covers several nominal diameters with a safety shield.

## Material

SUREBAND<sup>Steel</sup> – Safety shields are made of a stainless steel band (1.4404/316) with a 4-layer metal mesh on the inside.

| SUREBAND <sup>Steel</sup><br>Type | DIN Flange  |           |         | ANSI Flange |         |        |         |
|-----------------------------------|-------------|-----------|---------|-------------|---------|--------|---------|
|                                   | PN10 - PN40 |           |         | 150lb       |         | 300lb  |         |
| FG-SBS-089/127-50<br>26,00 €      | DN 15       | PN10-PN40 | ∅ 95mm  | 1/2"        | ∅ 89mm  | 1/2"   | ∅ 95mm  |
|                                   | DN 20       | PN10-PN40 | ∅ 105mm | 3/4"        | ∅ 98mm  | 3/4"   | ∅ 117mm |
|                                   | DN 25       | PN10-PN40 | ∅ 115mm | 1"          | ∅ 108mm | 1"     | ∅ 124mm |
|                                   |             |           |         | 1-1/4"      | ∅ 117mm |        |         |
|                                   |             |           |         | 1-1/2"      | ∅ 127mm |        |         |
| FG-SBS-133/165-50<br>32,00 €      | DN 32       | PN10-PN40 | ∅ 140mm | 2"          | ∅ 152mm | 1-1/4" | ∅ 133mm |
|                                   | DN 40       | PN10-PN40 | ∅ 150mm |             |         | 1-1/2" | ∅ 156mm |
|                                   | DN 50       | PN10-PN40 | ∅ 165mm |             |         | 2"     | ∅ 165mm |
| FG-SBS-178/191-50<br>35,00 €      | DN 65       | PN10-PN40 | ∅ 185mm | 2-1/2"      | ∅ 178mm |        |         |
|                                   |             |           |         | 3"          | ∅ 190mm | 2-1/2" | 190mm   |
| FG-SBS-200/229-50<br>39,00 €      | DN 80       | PN10-PN40 | ∅ 200mm | 4"          | 229mm   | 3"     | ∅ 210mm |
|                                   | DN100       | PN10-PN16 | ∅ 220mm |             |         |        |         |
| FG-SBS-235/285-50<br>48,00 €      | DN100       | PN25-PN40 | ∅ 235mm |             |         |        |         |
|                                   | DN125       | PN10-PN16 | ∅ 250mm | 5"          | ∅ 254mm | 4"     | ∅ 254mm |
|                                   | DN125       | PN25-PN40 | ∅ 270mm | 6"          | ∅ 279mm | 5"     | ∅ 279mm |
|                                   | DN150       | PN10-PN16 | ∅ 285mm |             |         |        |         |

## Installation

No tools are required for the assembly of SUREBAND Steel

The stainless steel safety shield is placed around the flange and fixed by the quick connection clip.

These shields are made to exactly fit specific outside-diameters. However, there are four possible slots for the latch to fit into (for added flexibility). For best fit, identify flange the slot which provides a 'snug' fit without being too tight.

On the side of the shield with the latch, make a slight gab between the steel band and the mesh, for the other fit into.

Pull the latch down and tight, holding the shield in place.