



TI-P155-02
CMGT Issue 5

DF1
Diffuser

Description

The Spirax Sarco diffuser is a compact unit designed to be fitted to the outlet of a steam or air trap discharging to atmosphere. The diffuser reduces the problem of noise and erosion by cushioning high velocity discharge. It can be fitted to any trap where conditions promote blast discharge similar to that associated with balanced pressure, inverted bucket or thermodynamic traps. A reduction of more than 80% of sound pressure level can be expected measured at 1 metre from the discharge point.

Standards

This product fully complies with the requirements of the Pressure Equipment Directive (PED).

Limiting conditions

Suitable for use with traps rated up to PN63.

Sizes and pipe connections

½" and ¾" screwed BSP (BS 21 parallel) or NPT (inlet only).
½" and ¾" socket weld end (inlet only).

Materials

| No. | Part | Material | |
|-----|------------------|-----------------|--------------------|
| 1 | Case | Stainless steel | ASTM A 240 Gr. 304 |
| | End boss screwed | Stainless steel | ASTM A 351 CF 8 |
| 2 | Socket weld | Stainless steel | ASTM A 276 Gr. 304 |
| | Internals | Stainless steel | ASTM A 580 Gr. 304 |

Dimensions/weights (approximate) in mm and kg

| Size | A | B | C | Weight |
|------|----|----|----|--------|
| ½" | 59 | 40 | 27 | 0.23 |
| ¾" | 60 | 40 | 32 | 0.23 |

Safety information, installation and maintenance

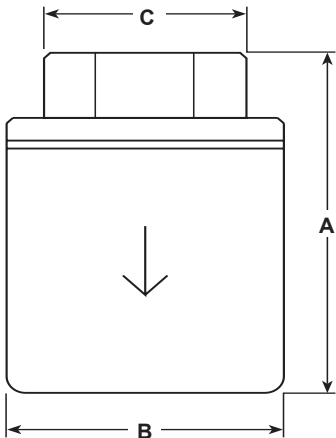
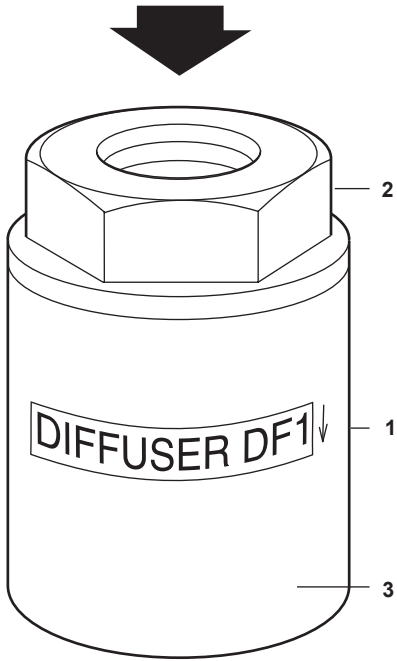
For full details see the Installation and Maintenance Instructions (IM-P155-07) supplied with the product.

Installation note:

The diffuser should be fitted on the outlet side of a steam trap or air trap with a suitable fitting to ensure that the discharge of condensate is towards the ground or some safe enclosure. The recommended distance for the outlet of the diffusers to the ground is a maximum of 100 mm (4"). The discharge from the DF1 must be facing vertically downwards.

How to order

Example: 1 off Spirax Sarco ½" DF1 diffuser having a screwed BSP connection.



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TI-P155-06
CMGT Issue 3

DF2
Diffuser

Description

The Spirax Sarco diffuser is a compact unit designed to be fitted to the outlet of steam traps discharging into flooded condensate return lines. It reduces the problem of noise and waterhammer when the flash steam formed on discharge from the steam trap condenses due to rapid cooling.

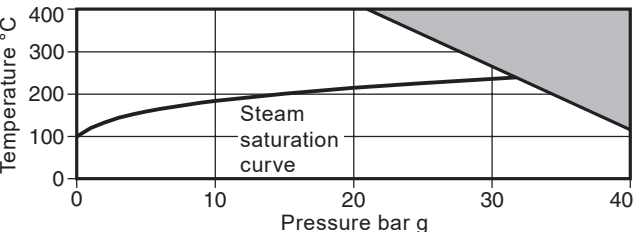
Sizes and pipe connections

½" and ¾" screwed BSP
½" socket weld ends to BS 3799 Class 3000

Materials

| No. | Part | Material |
|-----|-----------|--------------------------------------|
| 1 | Case | Stainless steel ASTM A240 Gr. 304 |
| 2 | End boss | Stainless steel ASTM A351 CF8 |
| 3 | Internals | Stainless steel ASM A580 Gr. 304 |

Pressure/temperature limits



The product **must not** be used in this region.

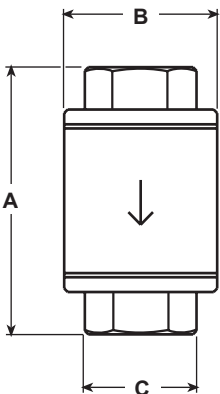
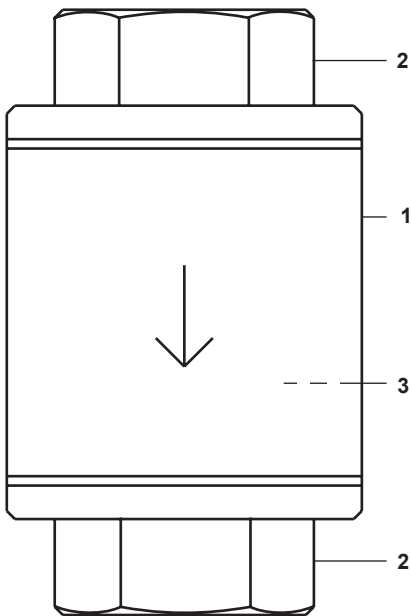
| | | |
|---|-------------------------------|----------|
| Maximum body design conditions | | PN40 |
| PMA | Maximum allowable pressure | 40 bar g |
| TMA | Maximum allowable temperature | 400°C |
| PMO | Maximum operating pressure | 32 bar g |
| TMO | Maximum operating temperature | 400°C |
| Designed for a maximum cold hydraulic test pressure of: | | 60 bar g |

Installation

The DF2 should be fitted on the outlet side of the steam trap ensuring that the directional arrow on the body is in the flow direction.

How to order

Example: 1 off ½" Spirax Sarco DF2 diffuser, screwed BSP.



Dimensions
(approximate in mm)

| Size | A | B | C | Weight |
|------|----|----|----|--------|
| ½" | 74 | 40 | 27 | 0.3 |
| ¾" | 74 | 40 | 32 | 0.3 |