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ISO 9001

spirax/sarco

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ST Issue 3

Fig 13 Cast Iron Strainer

Description

The Fig 13 is a cast iron screwed Y-type strainer. The standard stainless steel screen is 0.8 mm perforations. As options, other perforations and mesh sizes are available as well as monel screens. The strainer cap can be drilled and tapped for blowdown and drain valves if required.

Certification

The product is available with material certification to EN 10204 2.2 for the body and cap as standard.

Sizes and pipe connections

¼" and ¾" screwed BSP or NPT

Optional extras

Strainer screens

Stainless steel screen	Perforations	1.6 and 3.0 mm
	Mesh	40, 100 and 200
Monel screen	Perforations	0.8 and 3.0 mm
	Mesh	100

Blowdown or drain valve connections.

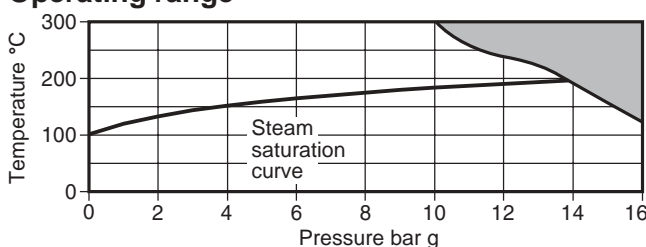
The cap can be drilled to the following sizes to enable a blowdown or drain valve to be fitted.

Strainer size	Blowdown valve	Drain valve
¼" and ¾"	¼"	¼"

Limiting conditions

Body design conditions	PN16
Maximum design temperature	300°C
Minimum operating temperature	-10°C
Designed for a maximum cold hydraulic test pressure of 24 bar g	

Operating range



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

Materials

No.	Part	Material
1	Body	Cast iron DIN 1691 GG20
2	Cap	Cast iron DIN 1691 GG20
3	Cap gasket	Reinforced exfoliated graphite
4	Strainer screen	Stainless steel 316L

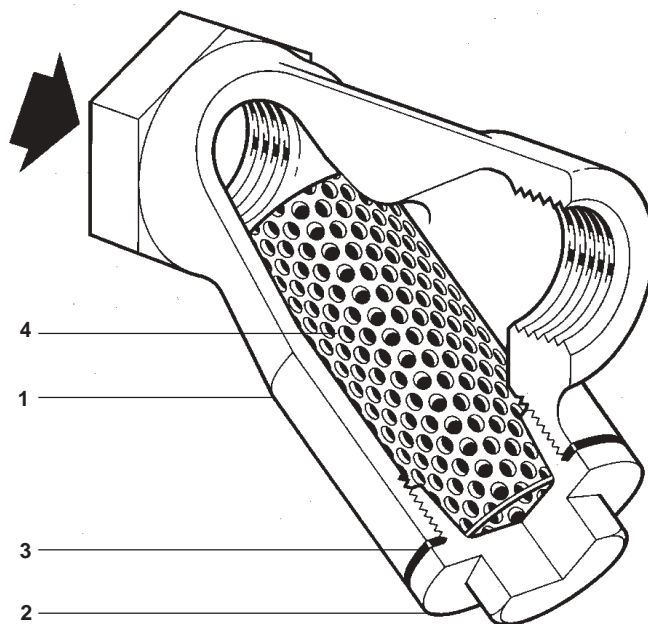
K_V values

Size	¼"	¾"
Perforations 0.8, 1.6 and 3.0 mm	1	2.5
Mesh 40, 100 and 200	1	2.5

For conversion: C_V (UK) = K_V x 0.963 C_V (US) = K_V x 1.156

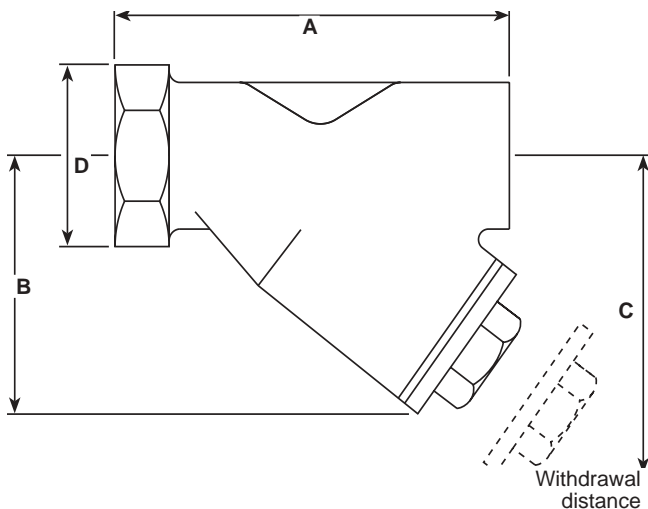
How to order

Example: 1 off Spirax Sarco ¼" Fig 13 strainer, screwed BSP with stainless steel screen 0.8 mm perforations.



Dimensions / weights (approximate) in mm and kg

Size	A	B	C	D	Screening area cm ²	Weight
¼"	70	53	80	27	27	0.31
⅜"	70	53	80	30	27	0.40



Installation

The strainer should be installed in the direction of flow as indicated on the body, in a vertically downwards or horizontal pipeline. In a horizontal line on steam and gases the pocket should be in the horizontal plane. On liquid systems the pocket should point vertically downwards.

Maintenance

Pressure

Before attempting any maintenance of the strainer, consider what is or may have been in the pipeline. Ensure that any pressure is isolated and safely vented to atmospheric pressure before attempting to maintain the strainer. This is easily achieved by fitting Spirax Sarco depressurisation valves type DV (see separate literature for details). Do not assume that the system is depressurised even when a pressure gauge indicates zero.

Temperature

Allow time for temperature to normalise after isolation to avoid the danger of burns and consider whether protective clothing (including safety glasses) is required.

Disposal

The product is recyclable. No ecological hazard is anticipated with disposal of this product providing due care is taken.

Spare parts

The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

Available spares



Strainer screen (state material, size of perforation or mesh and size of strainer)	4
Cap gasket (packet of 3)	3

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of strainer and perforations or mesh required.

Example: 1 - Strainer screen, stainless steel 0.8 mm perforations for a ⅜" Spirax Sarco Fig 13 strainer.

Recommended tightening torques

Item	Size	 or mm		N m
2	¼" and ⅜"	22		50 - 55

