

spirax sarco

TI-P164-02
 ST Issue 8

Fig 12 Brass and Bronze Strainers

Description

Fig 12 Y-type strainers are available with either a brass or bronze screwed body. The standard stainless steel screen has 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.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97 / 23 / EC and carries the **CE** mark when so required.

Certification

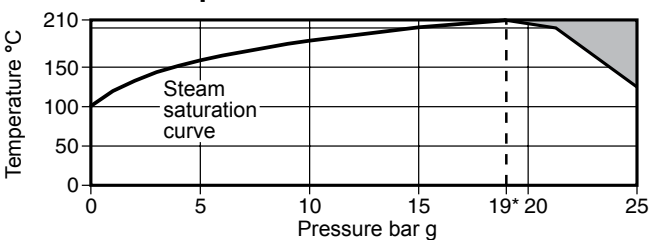
This product is available with a manufacturer's Typical Test Report for the body and cap. **Note:** All certifications/inspections requirements must be stated at the time of order placement.

Optional extras

Strainer screens	Stainless steel	Perforations	1.6, 3.0 mm
		Mesh	40, 100, 200
	Monel	Perforations	0.8, 3.0 mm
		Mesh	100

Blowdown or drain valve connections	Strainer size	Blowdown valve	Drain valve
The cap can be drilled to the following sizes to enable a blowdown or drain valve to be fitted at extra cost.	3/8" and 1/2"	1/4"	1/4"
	3/4" and 1"	1/2"	1/2"
	1 1/4" and 1 1/2"	1"	3/4"
	2" and 2 1/2"	1 1/4"	3/4"

Pressure/temperature limits



The product must not be used in this region.

Body design conditions	PN25
PMA Maximum allowable pressure	25 bar g @ 120°C
TMA Maximum allowable temperature	210°C @ 19 bar g
Minimum allowable temperature	-198°C
* PMO Maximum operating pressure for saturated steam service	19 bar g @ 210°C
TMO Maximum operating temperature	210°C @ 19 bar g
Minimum operating temperature	-198°C
Designed for a maximum cold hydraulic test pressure of 38 bar g	

Sizes and pipe connections

Fig 12 Brass 3/8"

Fig 12 Bronze 1/2", 3/4", 1, 1 1/4", 1 1/2", 2" and 2 1/2"

Connections: Screwed BSP (BS 21) or NPT

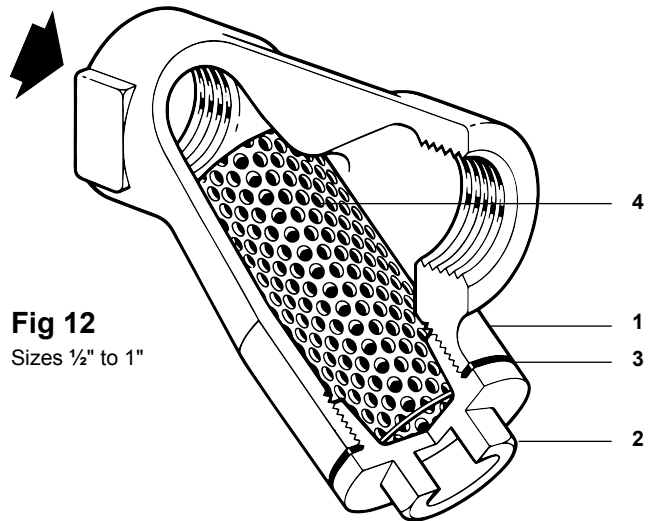


Fig 12
 Sizes 1/2" to 1"

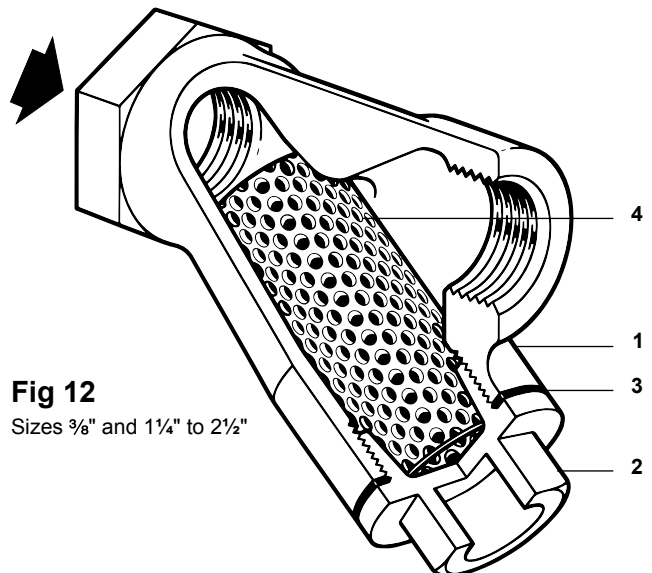


Fig 12
 Sizes 3/8" and 1 1/4" to 2 1/2"

Materials

No.	Part	Material	
1	Body	3/8"	Brass EN 12165 CW617N
		1/2" to 2 1/2"	Bronze EN 1982 CC491K
2	Cap	Brass	EN 12165 CW617N
3	Cap gasket	Reinforced exfoliated graphite	
4	Strainer screen	Stainless steel	ASTM A240 316 L

K_v values

Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
Perforations 0.8, 1.6 and 3 mm	2.6	3	6.2	11.3	26	41	68	98
Mesh 40 and 100	2.6	3	6.2	11.3	26	41	68	98
Mesh 200	2.6	3	6.2	9.3	21	33	55	78
For conversion:	C _v (UK) = K _v x 0.963		C _v (US) = K _v x 1.156					

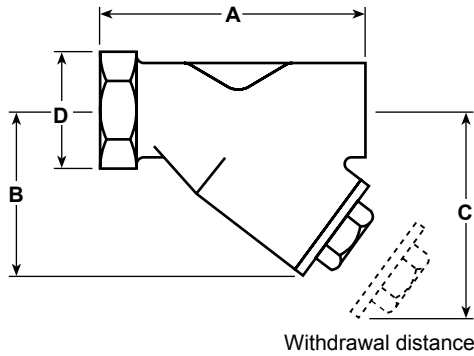
Dimensions/weights (approximate) in mm and kg

Brass body

Size	A	B	C	D	Screening area cm ²	Weight
3/8"	69	50	80	24 A/F	27	0.45

Bronze body

1/2"	72	54	85	30 A/F	27	0.55
3/4"	82	64	110	36 A/F	43	0.70
1"	104	72	130	46 A/F	73	1.00
1 1/4"	138	100	170	52 A/F	135	1.60
1 1/2"	150	110	190	60 A/F	164	2.10
2"	178	133	212	79 A/F	251	4.80
2 1/2"	207	152	240	98 A/F	327	7.70



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-S60-17) supplied with the product.

Installation note:

Suitable isolation valves must be installed to allow for safe maintenance and trap replacement. We also recommend that a Spirax Sarco DV depressurisation type valve (see the product specific TI literature for further details) be installed to ensure that any pressure is isolated and safely vented to atmospheric pressure before attempting to maintain the strainer.

Maintenance note:

Maintenance can be completed with the strainer in the pipeline, once the safety procedures have been observed. It is recommended that a new gasket is used whenever maintenance is undertaken.

Disposal

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

How to order

Example: 1 off Spirax Sarco 1 1/2" Fig 12 bronze strainer with screwed BSP connections and stainless steel screen having 0.8 mm perforations.

Spare parts

The spare parts available are shown in solid 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 - Stainless steel strainer screen having 0.8 mm perforations for a 3/4" Spirax Sarco Fig 12 strainer.

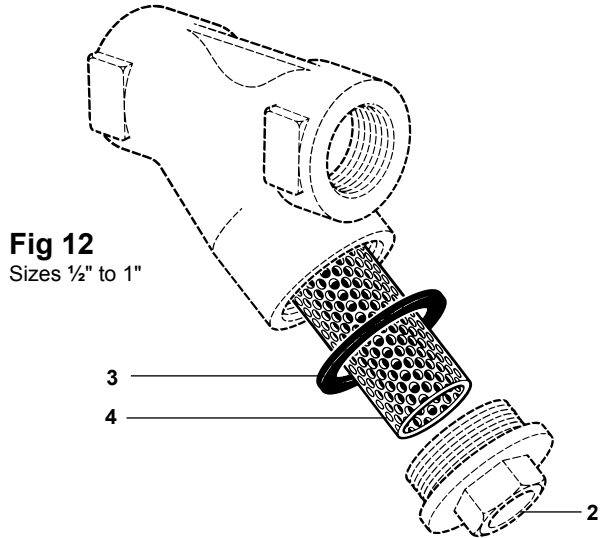


Fig 12
Sizes 1/2" to 1"

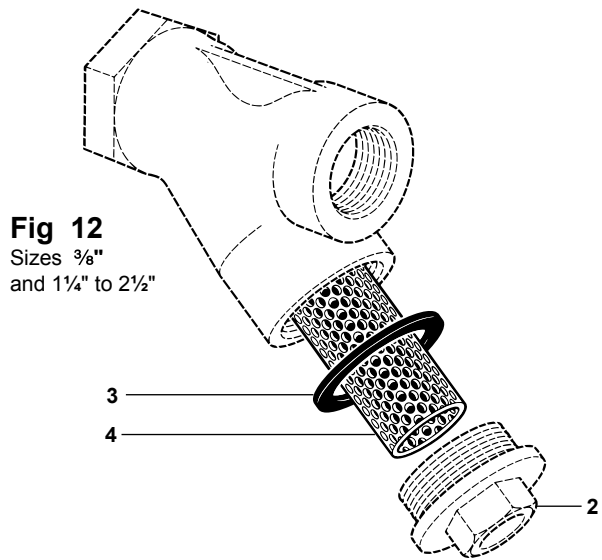


Fig 12
Sizes 3/8" and 1 1/4" to 2 1/2"

Recommended tightening torques

Item	Size	Qty		or mm		N m
2	3/8"	1	22 A/F		M28	35 - 40
	1/2"	1	22 A/F		M28	35 - 40
	3/4"	1	27 A/F		M32	42 - 48
	1"	1	27 A/F		M42	70 - 80
	1 1/4"	1	41 A/F		M56	124 - 144
	1 1/2"	1	41 A/F		M60	164 - 184
	2"	1	55 A/F		M72	234 - 264
	2 1/2"	1	55 A/F		3/4"-16 UNS	300 - 330