Local regulations may restrict the use of this product to below the conditions quoted.
In the interests of development and improvement of the product, we reserve the right to change the specification without notice. © Copyright 2025

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Fig 16L and Fig 16L Food+ Austenitic Stainless Steel Strainers

Description

The Fig 16L are austenitic stainless steel screwed Y-type strainers. The Fig 16L is 316L. 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.

Standards

This products complies with the requirements of the European Pressure Equipment Directive 2014/68/EU and carries the CE mark when so required.

Certification

The Fig 16L is available with certification to EN 10204 3.1.
Note: All certification/inspection requirements must be stated at the time of order placement.

Food+ can be supplied with material Certification for all wetted parts at extra cost.
Note: All certification/inspection requirements must be stated at the time of order placement.

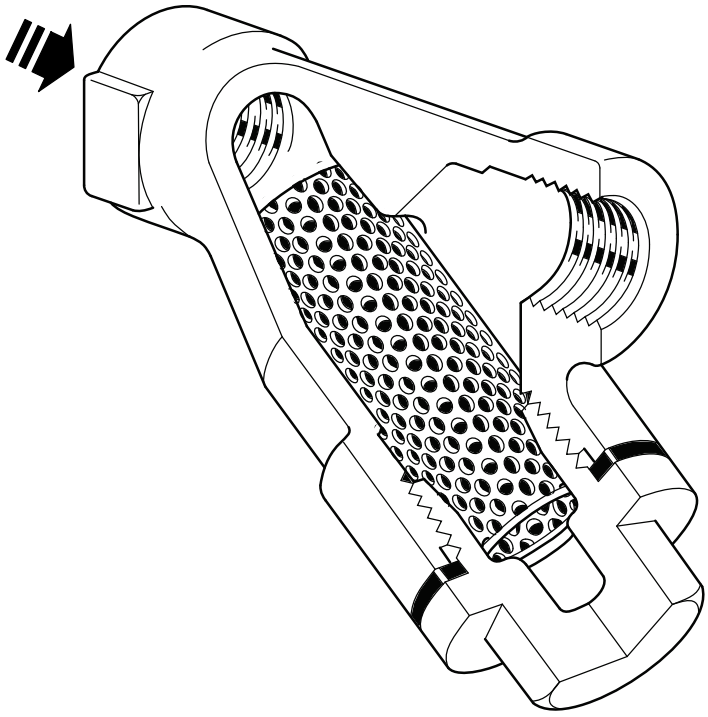

Fig 16L Food+ ½" to 2" is available with a food contact regulation Declaration of Compliance

Designed, manufactured and approved for Steam and Condensate applications, the Fig 16L Food+ product complies with:

- (EC)1935:2004 Materials and Articles Intended to come into Contact with Food
- (EC)2023:2006 Good Manufacturing Practice for Materials and Articles Intended to come into Contact with Food
- (EU)10/2011 Plastic Materials and Articles Intended to come into Contact with Food
- FDA Code of Federal Regulations - title 21 - Food and Drugs

This product is intended to be connected into a system that can operate a food contact compliant process.

A list of the materials that could come directly or indirectly into contact with foodstuffs can be found in the Declaration of Compliance available for this product.

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Sizes and pipe connections

⅜", ½", ¾", 1", 1¼", 1½" and 2"
Screwed BSP T Rp (ISO 7-1) or NPT
Socket weld ends to BS 3799 Class 3000 lb.

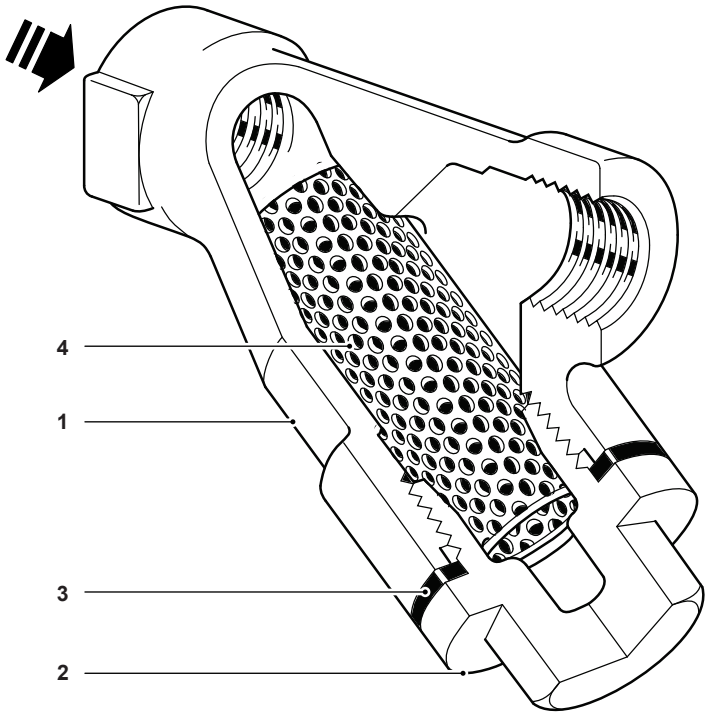
Optional extras

Strainer screens	**Stainless steel screens**	Perforations	1.6 mm and 3 mm
		Mesh	40, 100 and 200
	Monel screens	Perforations	0.8 mm and 3 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 at extra cost.

Strainer size	Blowdown valve	Drain valve
⅜" and ½"	¼"	¼"
¾"	½"	⅜"
1"	½"	½"
1¼" and 1½"	1"	¾"
2"	1¼"	¾"

Materials



No.	Part	Material	
1	Body	Austenitic stainless steel	ASTM A351 Gr. CF3M (316L)
2	Cap	Austenitic stainless steel	ASTM A351 Gr. CF3M (316L)
3	Cap gasket	Reinforced exfoliated graphite or PTFE on EC1935/2004 version	
4	Strainer screen	Austenitic stainless steel	316L

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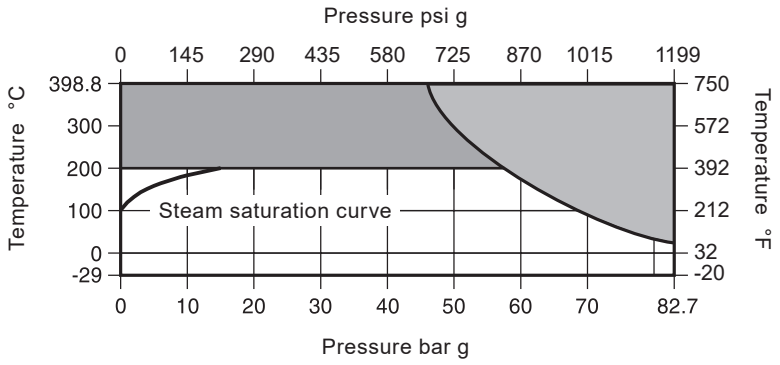
Pressure/temperature limits



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

EC1935/2004 product must not be used in this region.

Body design conditions			ANSI 600
PMA	Maximum allowable pressure	82.7 bar g @ 37.7 °C	1199 psi g @ 100 °F
TMA	Maximum allowable temperature	398.8 °C @ 46.2 bar g	750 °F @ 670 psi g
	Maximum EC1935/2004 allowable temperature	200 °C @ 13.7 barg	392 °F @ 199 psi g
Minimum allowable temperature		-29 °C	-20 °F
PMO	Maximum operating pressure	82.7 bar g @ 37.7 °C	1199 psi g @ 100 °F
TMO	Maximum operating temperature	398.8 °C @ 46.2 bar g	750 °F @ 670 psi g
	Maximum EC1935/2004 allowable temperature	200°C @ 13.7 bar g	392 °F @ 199 psi g
Minimum operating temperature **Note:** For lower operating temperatures consult Spirax Sarco		-29 °C	-20 °F
Product is safe for use under full vacuum conditions.			
Designed for a maximum cold hydraulic test pressure of:		125 bar g	1813 psi g

Kv values

Size	¼"	⅜"	½"	¾"	1"	1¼"	1½"	2"
Perforations 0.8, 1.6 and 3 mm	1	2.6	3.6	11	15.5	26	41	68
Mesh 40 and 100	1	2.6	3.6	11	15.5	26	41	68
Mesh 200	1	2.6	2.6	9	13.0	21	33	55

For conversion:
Cv (UK) = Kv x 0.963
Cv (US) = Kv x 1.156

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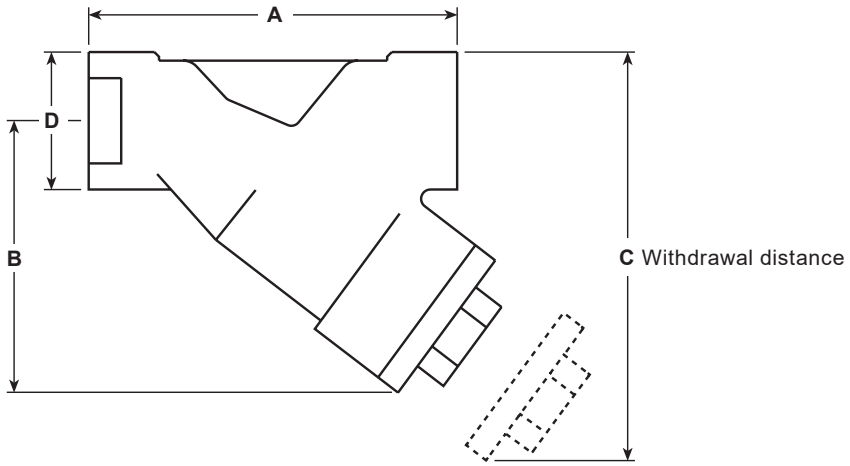
Dimensions/weights approximate) in mm (inches) and kg (pounds)



Size	A	B	C	D	Screening area cm²	Weight
⅜"	69 (2.7)	55 (2.2)	87 (3.4)	26 (1.0)	25 (3.9)	0.32 (0.7)
½"	76 (3.0)			32 (1.3)		0.38 (0.8)
¾"	88 (3.5)	65 (2.6)	110 (4.3)	38 (1.5)	42 (6.5)	0.51 (1)
1"	106 (4.2)	78 (3.1)	125 (4.9)	46 (1.8)	71 (11.0)	0.87 (2)
1¼"	133 (53.2)	103 (4.1)	155 (6.1)	56 (2.2)	135 (20.9)	1.56 (3)
1½"	146 (5.7)	115 (4.5)	190 (7.5)	62 (2.4)	161 (25.0)	2.10 (5)
2"	172 (6.8)	140 (5.5)	230 (9.1)	76 (3.0)	251 (38.9)	3.46 (7)

Safety information, installation and maintenance

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

Warning:

The strainer cap gasket contains a thin stainless steel support ring, which may cause physical injury if not handled and disposed of carefully.

Disposal

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

How to order

Example: 1 off Spirax Sarco 1½" Fig 16L strainer with screwed BSP connections and a stainless steel screen having 0.8 mm perforations.

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Spare parts

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

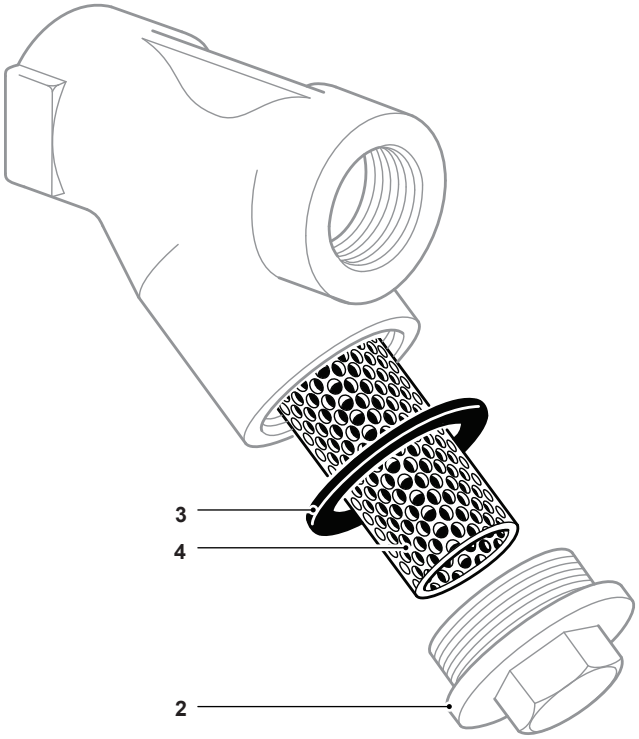
Available spares

Strainer screen (always state material, size of perforation/mesh and size of strainer)	**4**
Cap gasket (packet of 3)	**3**
EC1935/2004 Cap gasket - ½" to 2" (3 off)	**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 perforation or mesh required.
Example: 1 off Stainless steel strainer screen, having 1.6 mm perforations, for a ¾" Spirax Sarco Fig 16L strainer with screwed BSP connections.

Note: When replacing the strainer cap coat the thread only with anti-seize compound, making sure none gets on the gasket or gasket faces.



Recommended tightening torques

Item	Size	or mm	N m	ft lbf
	⅜"	22 A/F	45 - 50	33 - 37
	½"	22 A/F	45 - 50	33 - 37
	¾"	27 A/F	60 - 66	44 - 49
2	1"	27 A/F	100 - 110	74 - 82
	1¼"	46 A/F	240 - 260	177 -192
	1½"	46 A/F	260 - 280	192 - 207
	2"	60 A/F	310 - 340	229 - 251