

spirax sarco

Fig 18HP Alloy Steel Strainer

Description

The Fig 18HP is an alloy steel butt weld Y-type strainer with flanged screen cover that has been designed in accordance with ASME B16.34:2004 and ASME VIII. The standard stainless steel screen in the 1/2" to 2" size range has 1/32" (0.8 mm) perforations – See 'Optional extras' for alternative perforations/mesh sizes and screen materials. If required, the strainer cover can be drilled and tapped for blowdown and drain valves.

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 certification to EN 10204 3.1 and NACE Approval.

Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

NPT (ASME B 1.20.1)

Socket weld ASME B 16.11

Butt weld ASME B16.25 Schedule 160, Schedule 80 and Schedule 40

Optional extras

The following optional extras are available for all unit sizes at an extra cost and must be stated at the time of order placement:

Perforations: 1/32" (standard), 3/64", 1/16", 1/8", and 1/4"
Contact Spirax Sarco for availability of perforations not displayed.

Mesh: M20, M40, M60, M100, M200 and M400
Contact Spirax Sarco for availability of mesh screens not displayed.

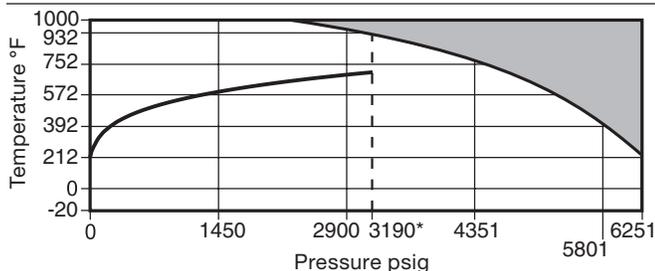
Screen material: AISI 316, AISI 316L (standard), AISI 304, AISI 304L and Monel

Blowdown connection

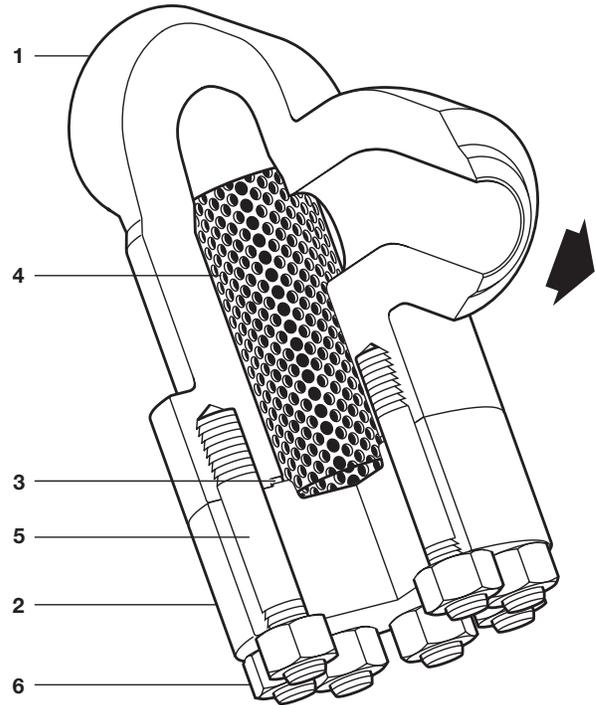
The cover is drilled to the following sizes to enable a blowdown valve to be fitted.

Strainer size	Blowdown valve
1/2" - 1"	1/2"
1 1/4" - 2"	1 1/4"

Pressure / temperature limits



The product must not be used in this region.



Materials

No.	Body	Material	
1	Body	Alloy steel	EN 10213: 1.7379 and ASTM A217 WC9
2	Cover	Alloy steel	EN 10213: 1.7379 and ASTM A217 WC9
3	Cover gasket	Stainless steel + Graphite	
4	Strainer screen	Stainless steel	AISI 316L
5	Cover studs	Alloy steel	ASTM A193 Gr. B16
6	Cover nuts	Alloy steel	ASTM A194 Gr. 7

Body design conditions		ASME 2500
PMA	Maximum allowable pressure	6251 psig @ 100°F
TMA	Maximum allowable temperature	1000°F @ 2233 psig
	Minimum allowable temperature	-20°F
PMO	Maximum operating pressure for saturated steam service	3190 psig @ 705°F
TMO	Maximum operating temperature	1000°F @ 2233 psig
	Minimum operating temperature	-20°F

Note: For lower operating temperatures consult Spirax Sarco. Designed for a maximum cold hydraulic test pressure of 9369 psig

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

In the interests of development and improvement of the product, we reserve the right to change the specification.

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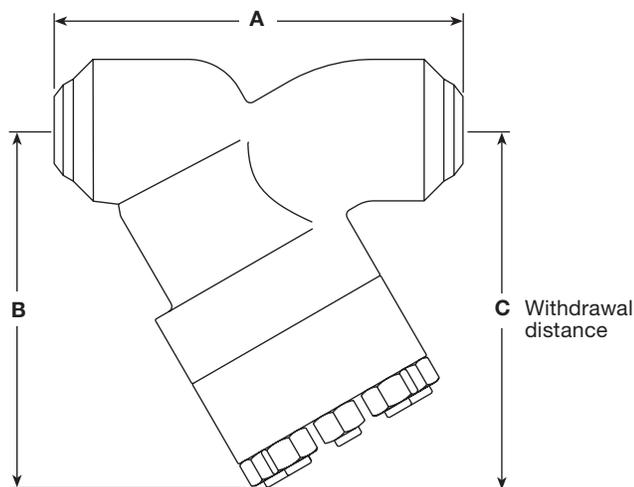
C_v values

Size	½"	¾"	1"	1¼"	1½"	2"
perforations 1/32", 1/16", and 1/8"	4.3	6.8	11.1	18.9	24.9	39.5
Mesh M200	3.4	5.1	8.6	14.6	19.8	31.9

Please consult Spirax Sarco for the C_v values of the following screens: 1 mm, 6 mm, M20, M40, M60, M100 and M400.

Dimensions / weights (approximate) inches and lb

Size	A	B	C	Weight	Volume (L)	Screening area (cm ²)
½"	7.0	5.9	7.7	19	0.130	73 cm ²
¾"				19.3	0.140	
1"				19.5	0.145	
1¼"	11.0	9.4	12.1	63	0.850	251 cm ²
1½"				63.5	0.850	
2"				63.9	0.850	



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P162-04) supplied with the product.

Warning:

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

Installation note:

The strainer should be installed in the direction of flow, as indicated on the body. On applications involving steam or gases the pocket should be in horizontal plane. On liquid systems pocket should be point downwards.

Disposal

This product is recyclable. No ecological hazard is anticipated with the disposal of this product, provided due care is taken.

How to order

Example: 1 off Spirax Sarco ½" Fig 18HP strainer having the standard stainless steel screen with 1/32" (0.8 mm) perforations and Schedule 160 butt weld connections.

Spare parts

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

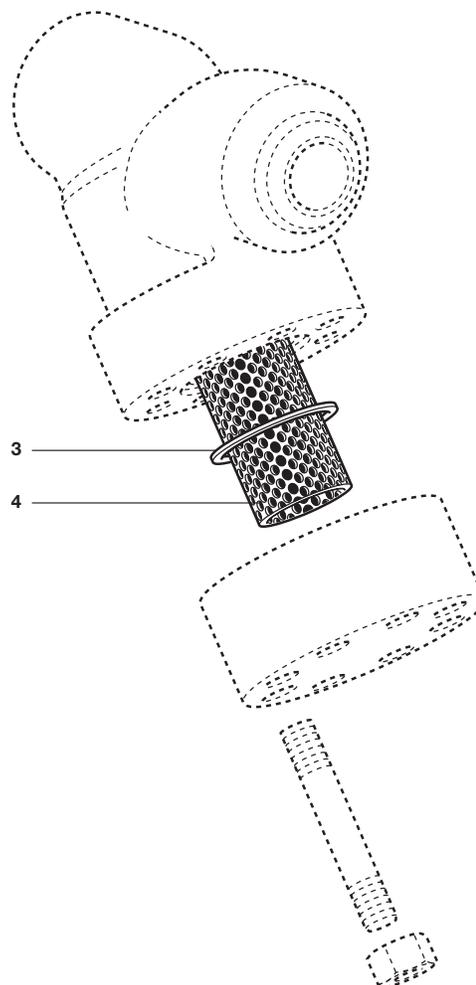
Available spares

Spares kit 1	Strainer screen and Cover gasket (state material, perforations or mesh and size of strainer)	4 and 3
Spares kit 2	Cover gasket (set of 3)	3

How to order spares

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

Example: 1 off Spares kit 1 for a 2" Spirax Sarco Fig 18HP strainer having butt weld connections. The strainer screen is to be stainless steel with 1/16" (1.6 mm) perforations.



Recommended tightening torques - Items 5 and 6

Sizes	Qty	mm	or	FT - LBF
½" - 1"	4	1¼"	¾" - 10 UNC	103 - 110
1¼" - 2"	8	1¼"	¾" - 10 UNC	88 - 95

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