

spirax sarco

Fig 34HP Carbon Steel Strainer

Description

The Fig 34HP is a cast carbon steel Y-type strainer that has been designed in accordance with ASME B16.34:2004 and ASME VIII, that is readily available with integrally flanged or butt weld connections. The standard stainless steel screen in the 1/2" to 3" size range has 0.8 mm perforations, and 1.6 mm perforations in the 4" to 8" size range - 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

Flanged:

ASME (ANSI) B16.5 Class 600 and ASME (ANSI) 600 RTJ - 1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 6" and 8"

Screwed: NPT - 1/2", 3/4", 1", 1 1/2" and 2"

Socket weld:

ASME (ANSI) B16.11 Class 3000 - 1/2", 3/4", 1", 1 1/2" and 2"

Butt weld:

ASME (ANSI) B16.25 Schedule 40 and Schedule 80 - 1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 6" and 8"

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:

0.8 mm (standard), 1 mm, 1.6 mm, 3 mm and 6 mm

Perforations: Contact Spirax Sarco for availability of perforations not displayed.

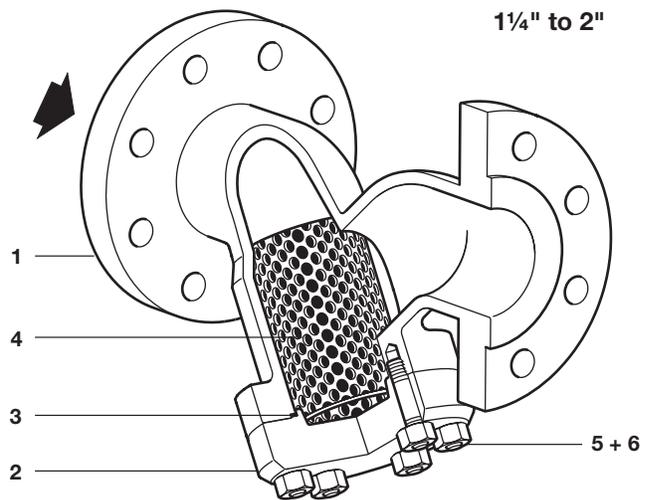
Mesh: M20, M40, M60, M100, M200 and M400
Contact Spirax Sarco for availability of mesh screens not displayed.

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

Blowdown valve connection

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

Strainer size	Blowdown valve
1/2"	1/4"
3/4" and 1"	1/2"
1 1/2"	1"
2" to 4"	1 1/4"
6" to 8"	2"



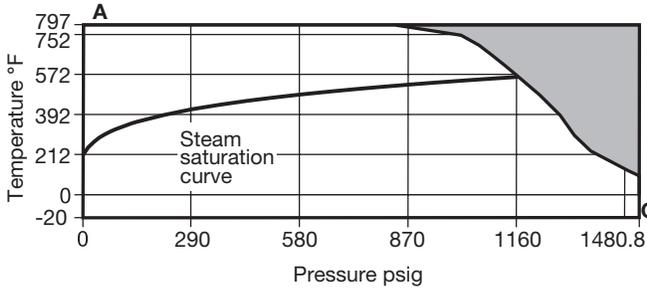
Materials

No. Part	Material
1 Body	Carbon steel EN 10213 10619+N and ASTM A216 WCB
2 Cover	Carbon steel EN10213 1.0619+N and ASTM A216 WCB
3 Cover gasket	Stainless steel + Graphite Spiral wound
4 Strainer screen	Stainless steel AISI 316L
5 Cover stud	Carbon steel ASTM A193 Gr. B7
6 Cover nut	Carbon steel ASTM A194 Gr. 2H

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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.

Pressure / temperature limits



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

A - C Flanged ASME (ANSI) B16.5 Class 600, ASME (ANSI) 600 RTJ, Screwed NPT, Socket weld ASME (ANSI) B16.11 Class 3000 and Butt weld ASME (ANSI) B16.25 Schedule 40 and 80.

A - C
Flanged
ASME 600 and 600 RTJ
Screwed NPT
Socket weld
and
Butt weld

Body design conditions		ASME 600
PMA	Maximum allowable pressure	1480.8 psig @ 100.4°F
TMA	Maximum allowable temperature	797°F @ 833.9 psig
Minimum allowable temperature		-20°F
PMO	Maximum operating pressure	1480.8 psig @ 100.4°F
TMO	Maximum operating temperature	797°F @ 833.9 psig
Minimum operating temperature		-20°F
Note: For lower operating temperatures consult Spirax Sarco.		
Designed for a maximum cold hydraulic test pressure of:		2219 psi g

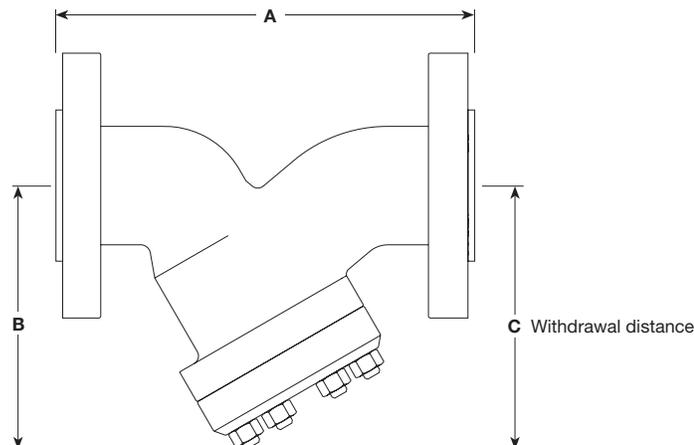
C_v values

Size	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
Perforations 0.8, 1.6 and 3 mm	5	9	15	33	53	83	119	179	393	680
Mesh M40 and M100	5	9	15	33	53	83	119	179	393	680
Mesh M200	4	7	11	26	43	67	96	143	310	536

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

Dimensions / weights (approximate) inches and lbs

Size	Dimensions				Weights	
	A ASME 600	A Screwed Socket weld Butt weld	B	C	ASME 600	Screwed Socket weld Butt weld
1/2"	6.5	6.5	4.6	7.9	7.9	3.5
3/4"	7.5	7.5	4.6	7.9	10.1	4.0
1"	8.5	8.5	4.6	7.9	12.3	4.8
1 1/2"	9.5	9.5	7.6	13.0	26.8	15.8
2"	11.5	11.5	7.6	13.0	38.3	16.7
2 1/2"	13.0	13.0	8.7	13.4	74.8	35.6
3"	14.0	14.0	8.7	13.4	77.0	45.3
4"	17.0	17.0	11.0	18.0	132.0	70.2
6"	22.0	22.0	14.2	24.0	286.0	164.6
8"	26.0	26.0	17.9	30.5	488.4	315.7



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Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-S60-18) supplied with the product.

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 the pocket should point downwards.

Warning:

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

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 1½" Fig 34HP strainer having the standard stainless steel screen with 0.8 mm perforations and flanged ANSI 600 connections.

Spare parts

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

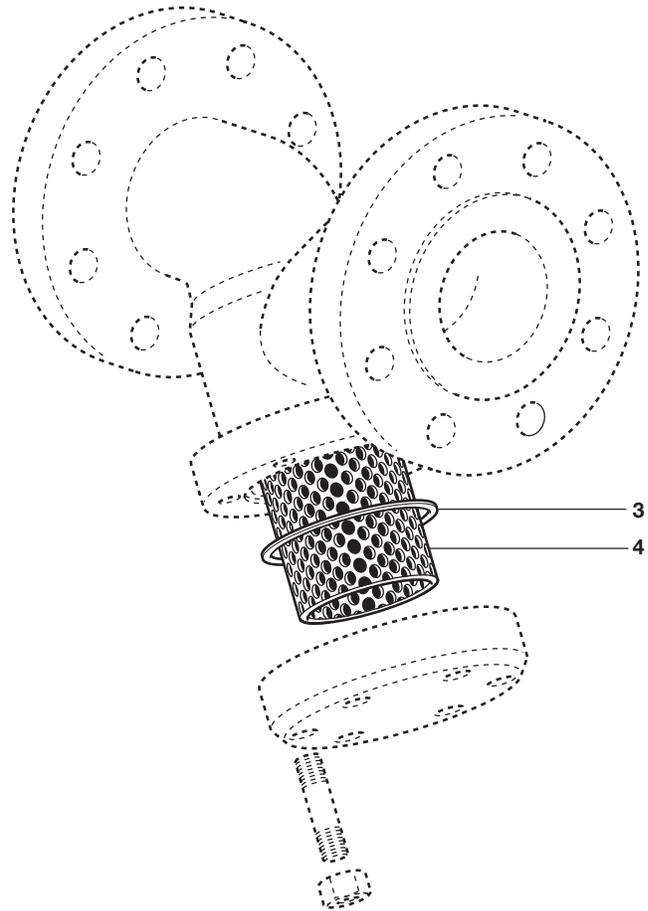
Available spares

Cover gasket (packet of 3)		3
Strainer screen + Cover gasket	Strainer screen	4
	Cover gasket	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 - Strainer screen + Cover gasket. The strainer screen is to be stainless steel having 0.8 mm perforations for a 2" Spirax Sarco Fig 34HP strainer having ANSI 600 flanged connections.



Recommended tightening torques - Items 5 and 6

Sizes	Qty	mm		ft - lb
				
½" - 1"	4	7/16"	½" - 13 UNC	14.7 - 22.1
1½" - 2"	8	7/16"	½" - 13 UNC	22.1 - 29.5
2½" - 3"	8	1 1/16"	5/8" - 11 UNC	36.8 - 44.2
4"	8	1 ¼"	¾" - 10 UNC	59.0 - 66.3
6"	8	1 7/16"	7/8" - 9 UNC	73.7 - 81.1
8"	12	1 3/16"	1 ¼" - 7 UNC	132.7 - 140.1

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