

Fig. 34 Carbon Steel Strainer - ASTM Material

Description

The Fig 34 is an integrally flanged Y-type strainer designed to remove rust, scale and other debris from the pipeline. It is produced from carbon steel, ASTM material.

The standard stainless steel screen in the ½" to 3" is 1/32" (0.8 mm) perforations and in the 4" to 8" it is 1/16" (1.6 mm) perforations.

NB: A low temperature carbon steel strainer is available on request.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

Certification

The product is available with material certification to EN 10204 2.2 as standard and EN 10204 3.1.B for body and cap by order.

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

Optional extras

Strainer screens

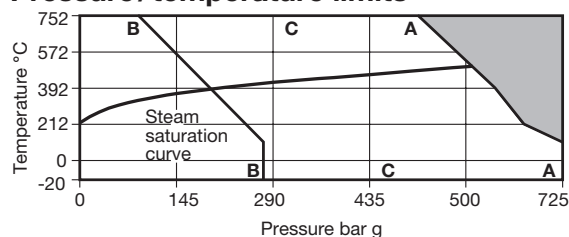
Stainless steel screen	Perforations	1/16" (1.6 mm) ½" to 3"
		1/8" (3.0 mm) ½" to 8"
	Mesh	40, 100 and 200
Monel screen	Perforations	1/32" (0.8 mm) ½" to 3"
		1/16" (1.6 mm) 4" to 8"
	Mesh	100

Standard drain valve connections

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

Strainer size	Blowdown valve
½"	¼"
¾" and 1"	½"
1¼" and 1½"	1"
2" to 5"	1¼"
6" to 8"	2"

Pressure/temperature limits



A - A Flanged ANSI 300
B - B Flanged ANSI 150

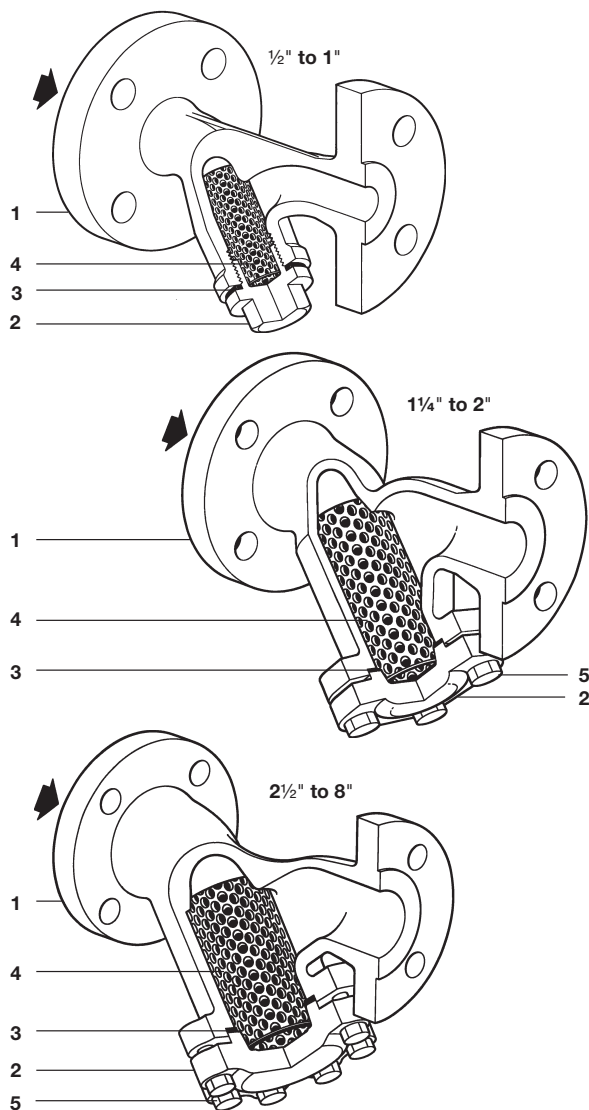
Body design conditions		ANSI 300
PMA	Maximum allowable pressure	725 psig @ 99.8°F
TMA	Maximum allowable temperature	749.8°F @ 504 psig
Minimum allowable temperature		-20°F
PMO	Maximum operating pressure	725 psig @ 99.8°F
TMO	Maximum operating temperature	749.8°F @ 504 psig
Minimum operating temperature		-20°F

Note: For lower operating temperatures consult Spirax Sarco.

Designed for a maximum cold hydraulic test pressure of 78 bar g

Sizes and pipe connections

Standard flange ANSI Class 150 and 300



Materials

No.	Part	Material	
1	Body	Carbon steel	ASTM A216 WCB
2	Cap	1/2" to 2"	Forged steel A105N
		2 1/2" to 8"	Carbon steel ASTM A216 WCB
3	Cap gasket	Reinforced exfoliated graphite	
4	Strainer screen	Stainless steel	ASTM A240 316L
5	Bolts	Carbon steel	ASTM A193 B7

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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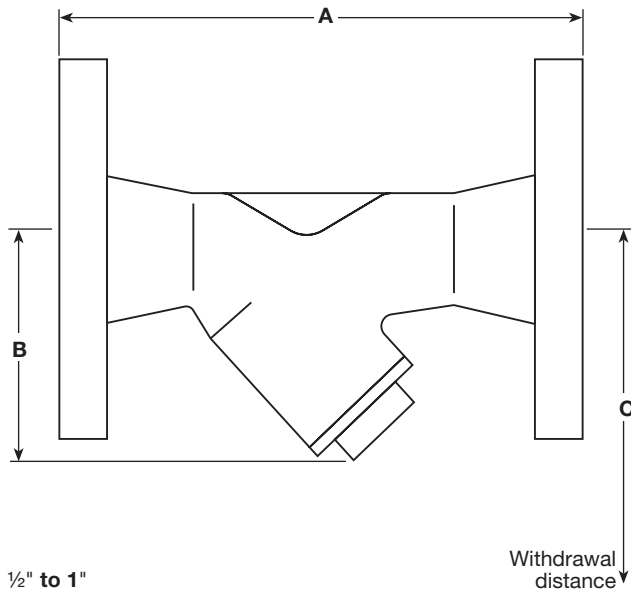
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C_v values

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
Perforations 1/32" (0.8 mm), 1/16" (1.6 mm), and 1/8" (3.0 mm)	6	9	15	25	34	53	83	119	179	274	393	680
Mesh 40 and 100	6	9	15	25	34	53	83	119	179	274	393	680
Mesh 200	5	7	11	20	27	43	67	96	143	215	310	536

Dimensions / weights (approximate) in inches and lbs

Size	ANSI		ANSI		Screening	
	150	300	A	B	area cm ²	Weight
1/2"	5	5	3	4	27	4.6
3/4"	6	6	3	5	43	6.4
1"	6	6	4	6	73	8.4
1 1/4"	7	7	5	9	135	14.3
1 1/2"	8	8	6	10	164	18.8
2"	9	9	7	13	251	23.1
2 1/2"	11	11	8	13	327	38.5
3"	12	12	8	13	361	52.8
4"	14	14	10	16	545	66.0
5"	16	16	12	20	843	107.8
6"	19	19	14	22	1 117	149.6
8"	23	24	17	28	1 909	281.6



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 the horizontal plane. On liquid systems the pocket should point downwards.

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 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 34 strainer having flanged ANSI 300 connections with stainless steel screen having 1/32" (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.

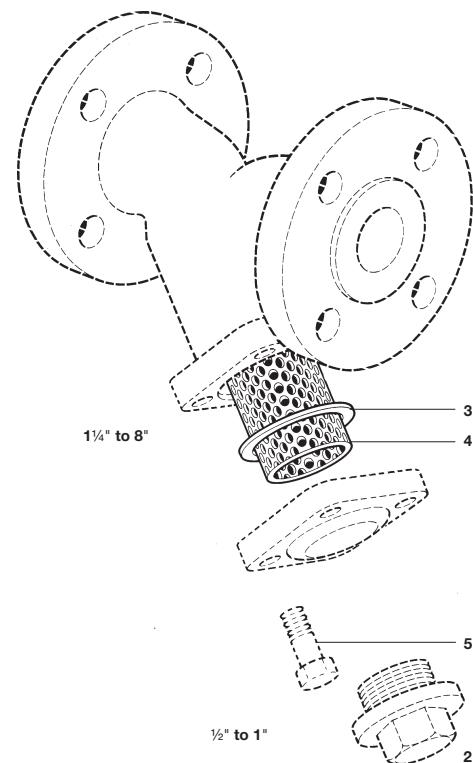
Available spares

Strainer screen (state material, perforations 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 perforation or mesh required.

Example: 1 off Strainer screen, stainless steel having 1/32" (0.8 mm) perforations for a 1/2" Spirax Sarco Fig 34 strainer having ANSI 300 connections.



Recommended tightening torques

Item	Size	Qty	mm	or	ft - lb
2	1/2"	1	22		37 - 40
	3/4"	1	27		44 - 48
	1"	1	27		74 - 81
5	1 1/4" to 2 1/2"	4	19	M12 x 30	15 - 18
	3"	4	19	M12 x 35	22 - 26
	4"	8	24	M16 x 45	37 - 41
	5"	8	30	M20 x 50	51 - 58
	6"	8	30	M20 x 55	59 - 65
	8"	12	36	M24 x 65	89 - 96