

# spirax/sarco®

## Fig 36 Austenitic Stainless Steel Strainer

### Description

Fig 36 is an austenitic stainless steel integrally flanged Y-type strainer. The standard stainless steel screen in the 1/2" to 3" size range is 0.8 mm perforation, in the 4" to 8" size range it is 1.6 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.

### Sizes and pipe connections

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4", 5", 6", & 8"

Standard flange:

**ANSI 150 and ANSI 300 (All sizes)**

JIS/KS flanges are available on request.

### Optional extras

Strainer screens

Stainless steel screens	Perforations	1.6 mm	(1/2" to 3")
		3.0 mm	(1/2" to 8")
	Mesh	40, 100, 200	
Monel screens		0.8 mm	(1/2" to 3")
	Perforations	1.6 mm	(4" to 8")
		3.0	(1/2" to 8")
	Mesh	100	

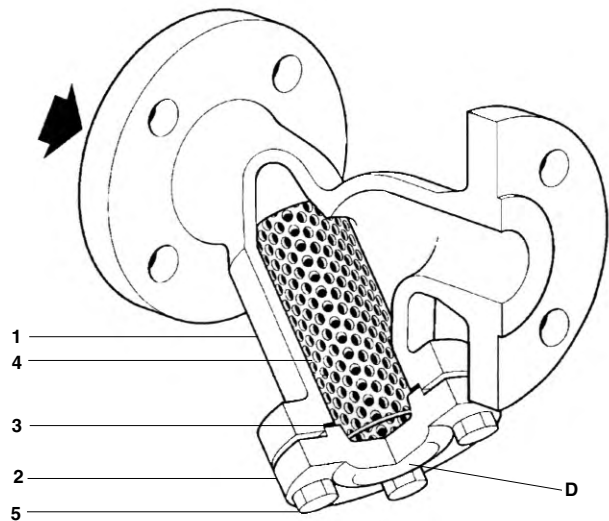
### Blowdown or drain valve connections.

The cap can be drilled to the following sizes to enable a blowdown or drain valve to be fitted.

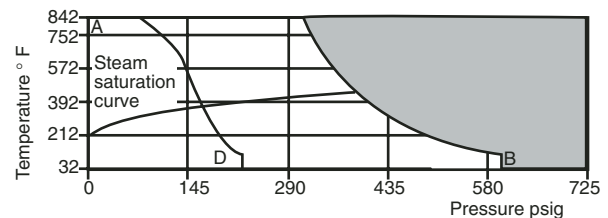
Strainer size	Blowdown valve (D)	Drain valve
1/2"	1/4"	1/4"
3/4", 1"	1/2"	1/2"
1-1/4", 1-1/2"	1"	3/4"
2" - 5"	1-1/4"	3/4"
6" - 8"	2"	3/4"

### Limiting conditions

Maximum body design conditions	ANSI 300 (PN50)
PMA - Maximum allowable pressure	595 psig (41 barg)
TMA - Maximum allowable temperature	842°F (450°C)
Minimum operating temperature	-20°F (-29°C)
Designed for a maximum cold hydraulic test pressure of	1102 psig (76 barg)
Special testing to allow lower temperature operation can be provided at extra cost. Consult Spirax Sarco.	



### Operating range



■ This product must not be used in this region.

A - B Flanged ANSI 300

A - D Flanged ANSI 150

### Materials

No.	Part	Material	
1	Body	Austenitic Stainless Steel	ASTM A351 CF3M
2	Cap	1/2" - 2"	Austenitic Stainless Steel ASTM A182 F316L
		2-1/2" - 8"	Austenitic Stainless Steel ASTM A351 CF3M
3	Cap gasket	Austenitic Stainless Steel	BS 1449 304 S16
4	Strainer screen	Austenitic Stainless Steel	ATM A240 316L
5	Cap bolt	Austenitic Stainless Steel	ISO 3506 A2-70

### Certification

The product is available with material certification to EN 10204 2.2 for body and cap as standard and EN 10204 3.1.B if specified at the time of ordering.

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.

TI-7-413-US 08.04

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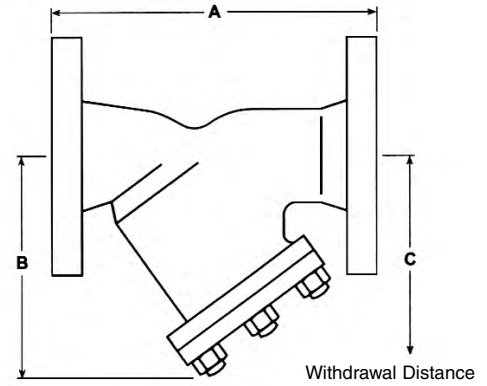
## Kv values

for conversion Cv (UK) = Kv x 0.97Cv (US) = Kv x 1.17

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
Perforations 0.8, 1.6 and 3 mm	5	8	13	22	29	46	72	103	155	237	340	588
Mesh 40 and 100	5	8	13	22	29	46	72	103	155	237	340	588
Mesh 200	4	6	10	17	23	37	58	83	124	186	268	464

## Dimensions / weights approximate in inches and lbs.

Size	PN	ANSI 150 A	ANSI 300 A	B	C	Screening area cm	Weight
1/2"	5.1	4.8	5.1	2.8	4.7	4.3	5.5
3/4"	5.9	5.6	5.9	3.1	5.1	7.1	9.9
1"	6.3	6.1	6.4	3.7	6.4	12.2	11.0
1-1/4"	7.0	7.0	7.0	5.1	9.3	20.9	22.0
1-1/2"	7.9	7.9	8.2	5.7	10.2	25	26.4
2"	9.1	9.1	9.5	7.0	12.6	38.9	36.3
2-1/2"	11.4	11.4	11.4	7.9	12.8	50.3	50.6
3"	12.2	12.2	12.2	8.0	13.0	55.8	78.3
4"	13.8	13.8	13.8	10.0	15.4	83.7	84.7
5"	15.7	15.7	15.7	12.4	20.0	130.2	167.2
6"	18.9	18.7	18.9	13.7	22.0	172.8	239.8
8"	23.6	23.4	23.6	17.3	26.0	295.3	316.8



## Safety information

See the Installation and Maintenance Instructions (IM-S60-18) for full details.

### Pressure

Before attempting any maintenance of the strainer, consider what is or may have been in the pipeline. Ensure that any pressure is isolated and safely vented to atmospheric pressure before attempting to maintain the strainer. This is easily achieved by fitting Spirax Sarco depressurization valves type DV (see separate literature for details). Do not assume that the system is depressurized even when a pressure gauge indicates zero.

### Temperature

Allow time for temperature to normalize after isolation to avoid the danger of burns and consider whether protective clothing (including safety glasses) is required.

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

## Installation

See the Installation and Maintenance Instructions (IM-S60-18) for full details. 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. Suitable isolation valves must be installed to allow for safe maintenance and trap replacement. Remove all protective caps prior to installation. Open isolation valves slowly until normal operating conditions are achieved. Check for leaks and correct operation.

## Maintenance

See the Installation and Maintenance Instructions (IM-S60-18) for full details. Maintenance can be completed with the strainer in the pipeline, once the safety procedures have been observed. It is recommended that a new gasket issued 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 of Spirax Sarco 1-1/4" Fig 36 strainer, flanged to ANSI 150 with a stainless steel screen having 0.8 mm perforations.

## Spare Parts

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

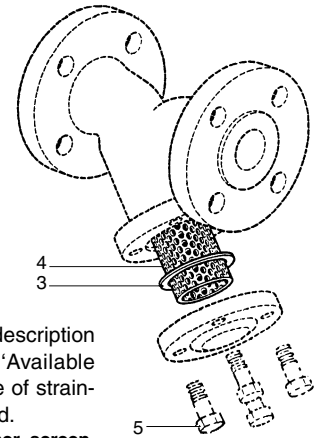
### Available spares

Strainer screen	4
(state material, size of perforations or mesh and size of strainer)	
Cap 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 of stainless steel strainer screen, having 0.8 mm perforation for a 2" Spirax Sarco Fig 36 strainer having ANSI 150.



## Recommended tightening torques

Item	Size	Qty	or mm	FT-LB
5	1/2" - 1"	4	17 A/F	M10 x 25 16-18
5	1-1/4" - 1-1/2"	4	19 A/F	M12 x 35 29.5 - 33
5	2"	8	19 A/F	M12 x 35 29.5 - 33
5	2-1/2"	8	19 A/F	M12 x 45 29.5 - 33
5	3	8	19 A/F	M12 x 50 29.5 - 33
5	4	8	24 A/F	M16 x 50 74 - 81
5	5	8	30 A/F	M20 x 60 118 - 125
5	6	8	30 A/F	M20 x 65 155 - 170
5	8	8	36 A/F	M20 x 75 155 - 170