



## 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 DN15 to DN80 is 0.8 mm perforations and in the DN100 to DN200 it is 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 Indian Boiler Regulations, 1950.

### Certification

The product is available with a manufacturer's Typical Test Report and IBR certification. **Note:** All certification / inspection requirements must be stated at the time of order placement.

### Optional extras

#### Strainer screens

Stainless steel screen	Perforations	1.6 mm (DN15 to DN80) 3.0 mm (DN15 to DN200)
	Mesh	40, 100 and 200
Monel screen	Perforations	0.8 mm (DN15 to DN80) 1.6 mm (DN100 to DN200)
		3.0 mm (DN15 to DN200)
	Mesh	100

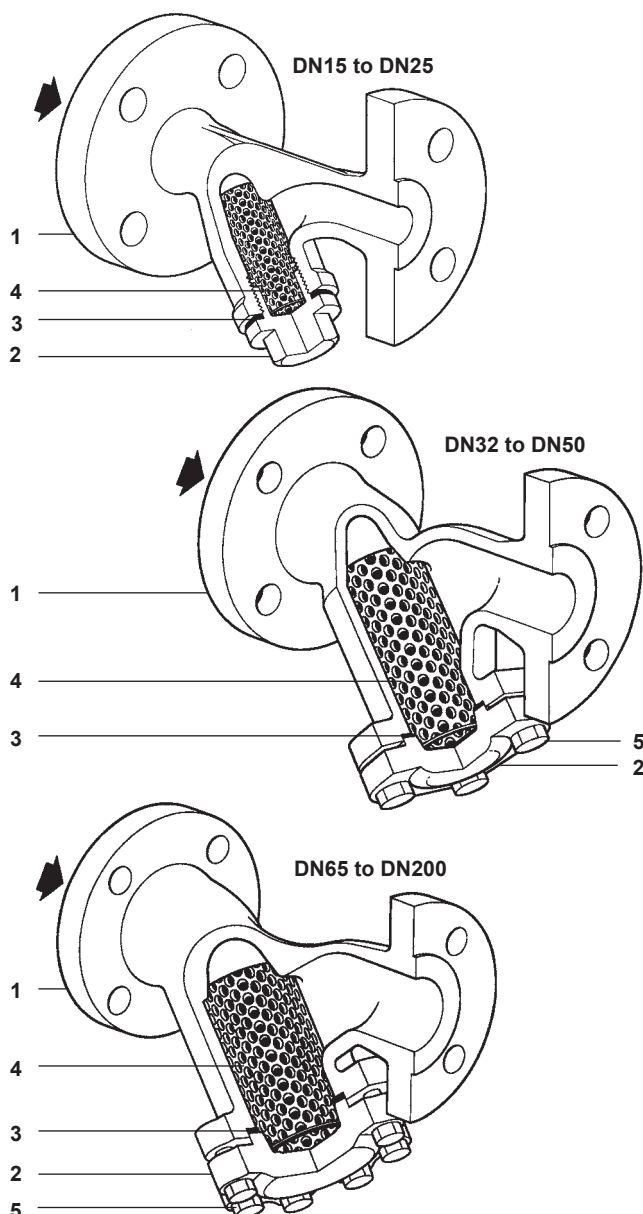
#### Blowdown or drain valve connections

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

Strainer size	Blowdown valve	Drain valve
DN15	¼"	¼"
DN20 and DN25	½"	½"
DN32 and DN40	1"	¾"
DN50 to DN125	1¼"	¾"
DN150 and DN200	2"	¾"

### Sizes and pipe connections

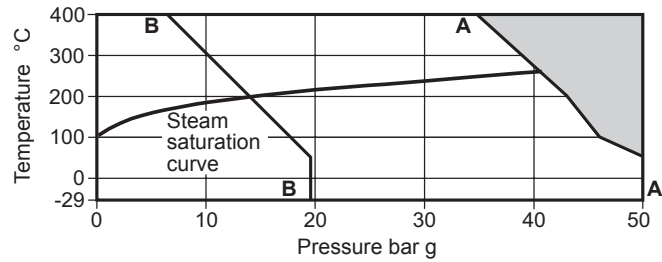
DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150 and DN200  
 Standard flange ASME Class 150, ASME Class 300.



### Materials

No.	Part	Material
1	Body	Carbon steel ASTM A216 WCB
2	Cap	DN15 - DN50 Forged steel A105N
		DN65 - DN200 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

## Pressure/temperature limits



This product **must not** be used in this region.  
**A - A** Flanged ASME 300      **B - B** Flanged ASME 150

	ANSI 300	ANSI 150
Body Design conditions	ASME 300	ASME 300
PMA Maximum allowable pressure	50 bar g @ 37.7 °C	19.6 bar g @ 38 °C
TMA Maximum allowable temperature	398.8 °C @ 34.8 bar g	400 °C @ 6.5 bar g
Minimum allowable temperature	-29 °C	-29 °C
PMO Maximum operating pressure	34.8 bar g @ 398.8 °C	6.5 bar g @ 400 °C
TMO Maximum operating temperature	398.8 °C @ 34.8 bar g	400 °C @ 6.5 bar g
Minimum operating temperature	-29 °C	-29 °C
Design for a maximum cold hydraulic test pressure of	75 bar g	29 bar g

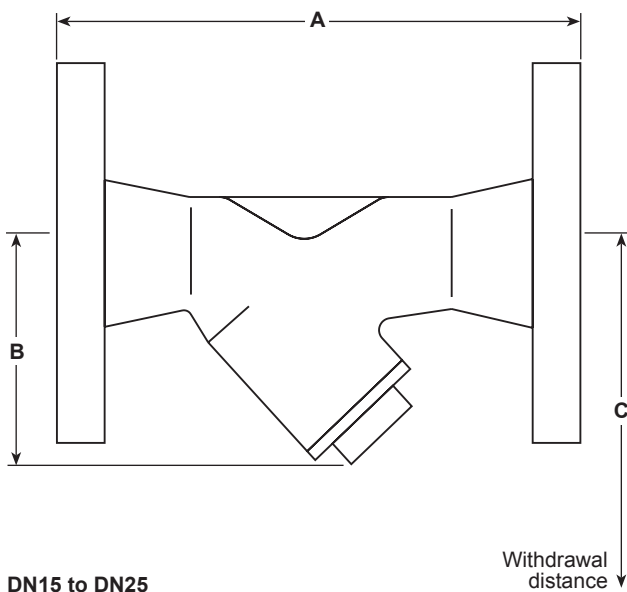
## K<sub>V</sub> values

For conversion:  $C_V (UK) = K_V \times 0.963$        $C_V (US) = K_V \times 1.156$

Size	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
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 mm and kg

Size	ASME		ASME		Screening area cm <sup>2</sup>	Weight
	150 A	300 A	B	C		
DN15	120	127	70	110	27	2.1
DN20	144	150	80	130	43	2.9
DN25	154	160	95	150	73	3.8
DN32	180	180	130	235	135	6.5
DN40	200	208	146	260	164	9.0
DN50	230	240	180	320	251	10.5
DN65	290	289	200	325	327	17.5
DN80	310	311	205	330	361	24.0
DN100	351	351	255	405	545	30.0
DN125	401	401	315	510	843	49.0
DN150	473	478	345	560	1 117	68.0
DN200	593	600	577	710	1 909	128.0



## Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-IBR16-22IN) 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 DN40 Fig 34 strainer having flanged ASME 300 connections with stainless steel screen having 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.

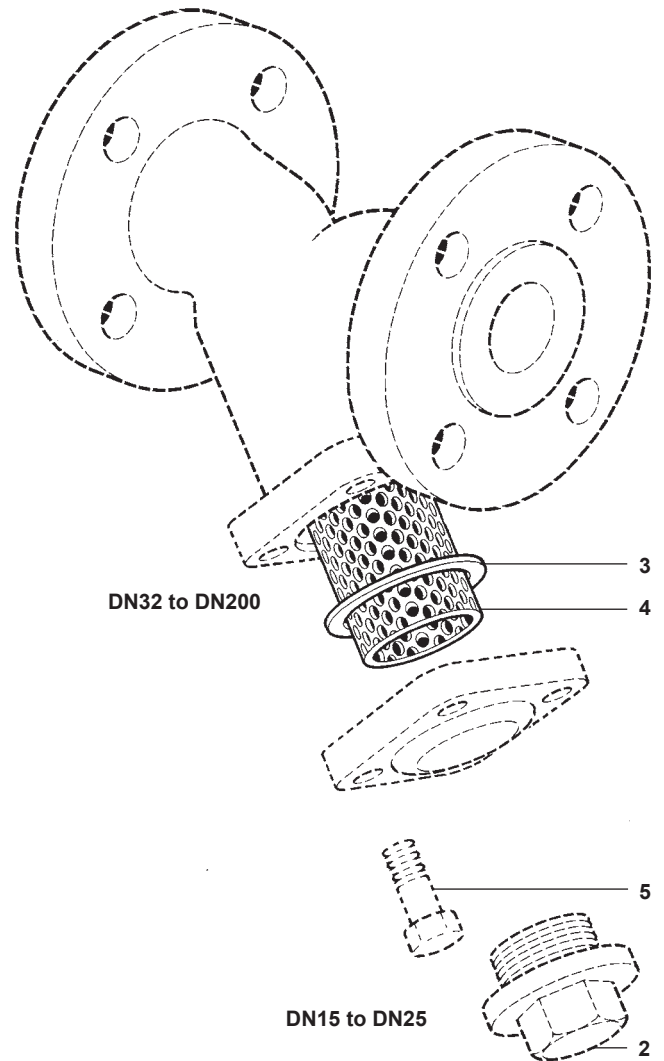
### Available spares

Strainer screen (state material, perforations or mesh and size of strainer)	<b>4</b>
Cap gasket (packet of 3)	<b>3</b>



### 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 0.8 mm perforations for a DN50 Spirax Sarco Fig 34 strainer having ASME 300 connections.



### Recommended tightening torques

Item	Size	Qty	or		N m
					
2	DN15	1	22		50 - 55
	DN20	1	27		60 - 66
	DN25	1	27		100 - 110
5	DN32 to DN65	4	19	M12 x 30	20 - 24
	DN80	4	19	M12 x 35	30 - 35
	DN100	8	24	M16 x 45	50 - 55
	DN125	8	30	M20 x 50	70 - 77
	DN150	8	30	M20 x 55	80 - 88
	DN200	12	36	M24 x 65	120 - 130