Fig 37
SG Iron
Strainer

Description

The Fig 37 is an SG iron integrally flanged Y-type strainer.
The standard stainless steel screen in the DN15 to DN80 size range is 0.8 mm perforations, in the DN100 to DN200 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.

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)
		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 at extra cost.

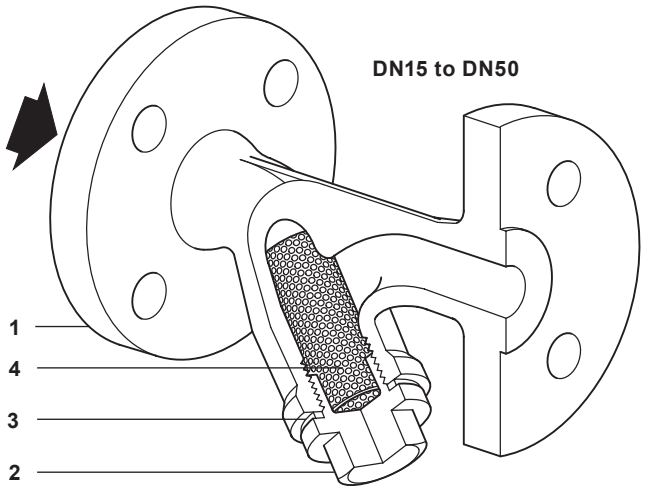
Strainer size	Blowdown valve	Drain valve
DN15	¼"	¼"
DN20 and DN25	½"	½"
DN32, DN40 and DN50	1"	¾"
DN65 to DN125	1¼"	¾"
DN150 and DN200	2"	¾"

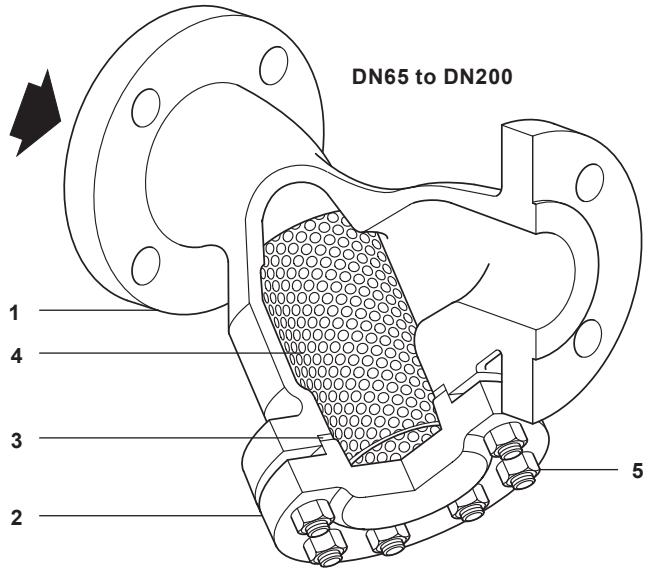
Standards
This product fully complies with the requirements of the Indian Boiler Regulations, 1950.

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

Sizes and pipe connections

DN15 to DN150 standard flange EN 1092 PN40 and ANSI 150.
DN200 standard flange EN 1092 PN25 and ANSI 150.

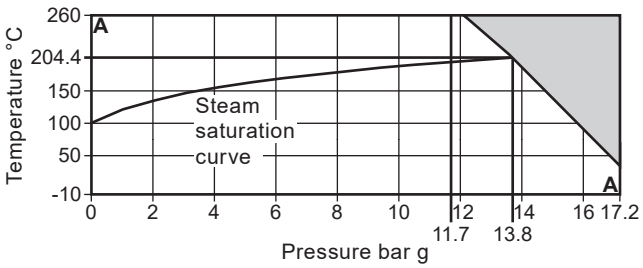




Materials

No.	Part		Materials	
1	Body		SG iron	DIN 1693 GGG 40
2	Cap	DN15 to DN50	Carbon steel	DIN 17245 C22.8
		DN65 to DN100	SG iron	EN-GJS-400-15
		DN125 to DN200	Carbon steel	DIN 17245 GS C25N
3	Cap gasket		Reinforced exfoliated graphite	
4	Strainer screen		Stainless steel	ASTM A240 316L
	Cap stud	DN65 to DN200	Carbon steel	BS 4439 Gr. 8.8
5	Cap nut	DN65 to DN200	Carbon steel	BS 3692 Gr.

Pressure/temperature limits



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

A - A Flanged ANSI 150.

Body design conditions		ASME 150
PMA Maximum allowable pressure		17.2 bar g @ 37.8 ˚C
TMA Maximum allowable temperature		260 °C @ 11.7 bar g
Minimum allowable temperature		-10 °C
PMO Maximum operating pressure		13.8 bar g @ 204.4 °C
TMO Maximum operating temperature		204.4 °C @ 13.8 bar g
Minimum operating temperature		-10 °C
Designed for a maximum cold hydraulic test pressure of:	ANSI 150	25.8 bar g

K_V values

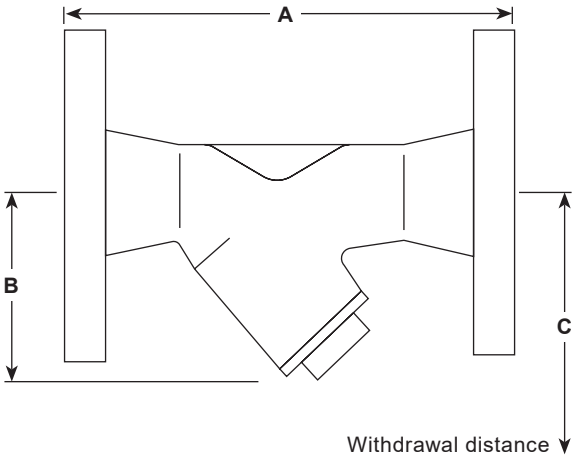
Size	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
Perforations 0.8, 1.6 and 3 mm	5	8	13	22	29	46	72	103	155	237	340	588
Mesh 40 and 100	5	8	13	22	29	46	72	103	155	237	340	588
Mesh 200	4	6	10	17	23	37	58	83	124	186	268	464

For conversion:
C_V (UK) = K_V x 0.963
C_V (US) = K_V x 1.156

Dimensions/weights (approximate) in mm and kg

Size	ANSI 150 A	B	C	Screening area cm²	Weight
DN15	122	70	110	25	1.85
DN20	142	80	130	42	2.80
DN25	156	95	150	71	3.50
DN32	176	135	225	135	6.20
DN40	200	145	240	161	7.40
DN50	230	175	300	251	11.20
DN65	291	200	335	352	20.00
DN80	311	210	340	360	24.00
DN100	350	255	415	540	36.00
DN125	398	300	510	840	60.00
DN150	482	345	575	1 115	83.00
DN200	600	435	730	1 905	148.00

DN15 to DN50 shown



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Safety information, installation and maintenance
For full details see the Installation and Maintenance Instructions (IM-IBR17-45IN) supplied with the product.

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.

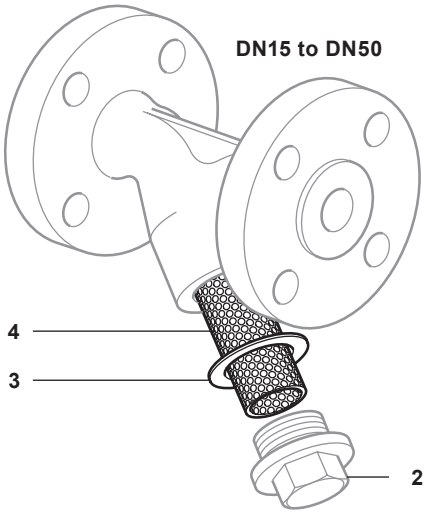
How to order
Example: 1 off Spirax Sarco DN80 Fig 37 strainer having flanged ANSI 150 connections with a stainless steel screen having 0.8 mm perforations.

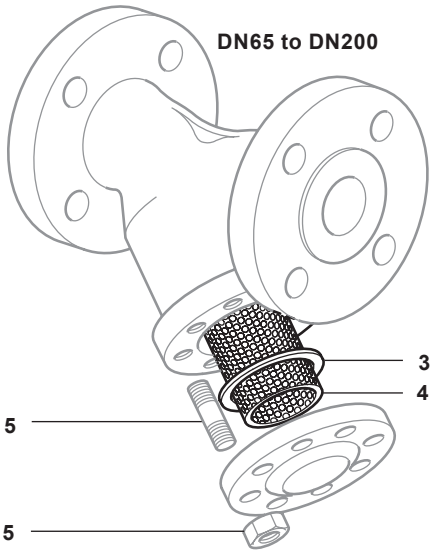
Spare parts
The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Available spares

Strainer screen (state material, size of perforation 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 Stainless steel strainer screen having 0.8 mm perforations for a DN50 Spirax Sarco Fig 37 strainer having ANSI 150 connections.





Recommended tightening torques

Item	Qty	Size	or mm		N m
2	1	DN15	22	M28	50 - 55
	1	DN20	27	M32	60 - 66
	1	DN25	27	M42	100 - 110
	1	DN32	46	M56	250 - 275
	1	DN40	50	M60	250 - 275
	1	DN50	60	M72	310 - 340
5	8	DN65	19	M12 x 35	20 - 24
	8	DN80	19	M12 x 35	30 - 35
	8	DN100	24	M16 x 45	50 - 55
	8	DN125	30	M20 x 50	80 - 88
	8	DN150	30	M20 x 55	100 - 110
	12	DN200	36	M24 x 65	90 - 100

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