



Cert. No. LRQ 0963008

ISO 9001

# spirax/sarco

TI-P081-01

ST Issue 9

## 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

For optional extras see overleaf.

### Standards

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

### Certification

The product is available a manufacturers' Typical Test Report for the body and cap as standard and EN 10204 3.1 to special order at extra cost.

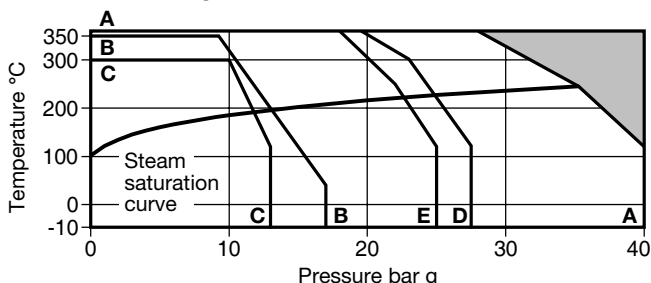
**Note:** All certification/inspection requirements must be stated at the time of order placement.

### Sizes and pipe connections

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

JIS/KS 10K and 20K flanges are available on request for the following sizes: DN15, DN20 and DN32 to DN200.

### Pressure/temperature limits



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

**A - A** Flanged EN 1092 PN40.

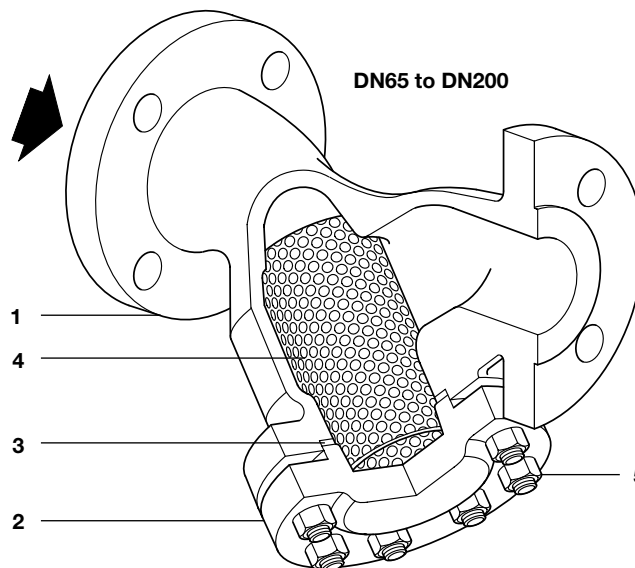
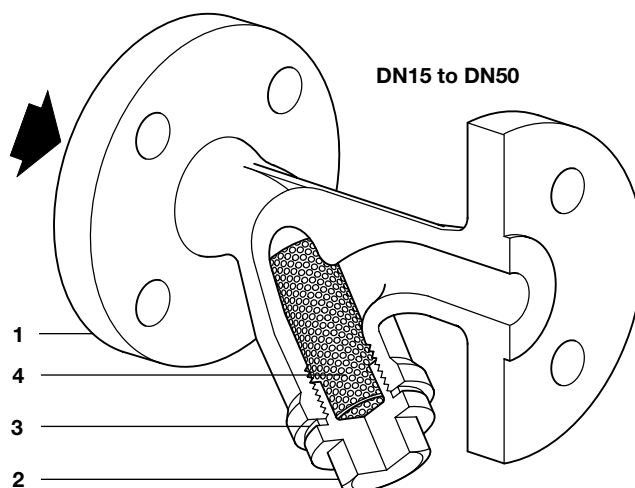
**B - B** Flanged ANSI 150.

**C - C** Flanged JIS/KS 10K.

**A - D** Flanged JIS/KS 20K.

**A - E** Flanged EN 1092 PN25.

Body design conditions		DN15 - DN150		PN40
		DN200		PN25
PMA	Maximum allowable pressure	DN15 - DN150	40 bar g @ 120°C	
		DN200	25 bar g @ 120°C	
TMA	Maximum allowable temperature			350°C
Minimum allowable temperature				-10°C
PMO	Maximum operating pressure	DN15 - DN150	40 bar g @ 120°C	
		DN200	25 bar g @ 120°C	
TMO	Maximum operating temperature	DN15 - DN150	350°C @ 28.5 bar g	
		DN200	350°C @ 17.5 bar g	
Minimum operating temperature				-10°C
Designed for a maximum cold hydraulic test pressure of:		PN25		38 bar g
		PN40		60 bar g
		ANSI 150		30 bar g
		JIS/KS 20K		49 bar g
		JIS/KS 10K		28 bar g



### Materials

No.	Part	Material	
1	Body	SG iron	DIN 1693 GGG 40
		DN15 to DN50	Carbon steel DIN 17245 C22.8
2	Cap	DN65 to DN100	Carbon steel 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	
5	Cap stud	DN65 to DN200	Carbon steel BS 4439 Gr. 8.8
	Cap nut	DN65 to DN200	Carbon steel BS 3692 Gr.

Local regulations may restrict the use of this product to below the conditions quoted.

In the interests of development and improvement of the product, we reserve the right to change the specification without notice.

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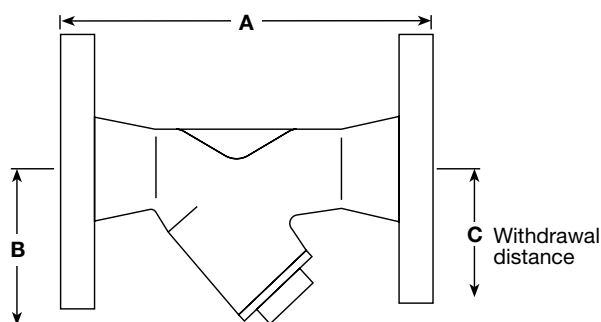
## K<sub>V</sub> values

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:  $C_V(\text{UK}) = K_V \times 0.963$   $C_V(\text{US}) = K_V \times 1.156$

## Dimensions/weights (approximate) in mm and kg

Size	PN40 A	PN25 A	ANSI 150 A	B	C	Screening area cm <sup>2</sup>	Weight
DN15	130	-	122	70	110	25	1.85
DN20	150	-	142	80	130	42	2.80
DN25	160	-	156	95	150	71	3.50
DN32	180	-	176	135	225	135	6.20
DN40	200	-	200	145	240	161	7.40
DN50	230	-	230	175	300	251	11.20
DN65	290	-	291	200	335	352	20.00
DN80	310	-	311	210	340	360	24.00
DN100	350	-	350	255	415	540	36.00
DN125	400	-	398	300	510	840	60.00
DN150	480	-	482	345	575	1 115	83.00
DN200	-	600	600	435	730	1 905	148.00



DN15 to DN50 shown

## Safety information, installation and maintenance

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

## 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	1/4"	1/4"
DN20 and DN25	1/2"	1/2"
DN32, DN40 and DN50	1"	3/4"
DN65 to DN125	1 1/4"	3/4"
DN150 and DN200	2"	3/4"

## How to order

**Example:** 1 off Spirax Sarco DN80 Fig 37 strainer having flanged EN 1092 PN40 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 broken line are not supplied as spares.

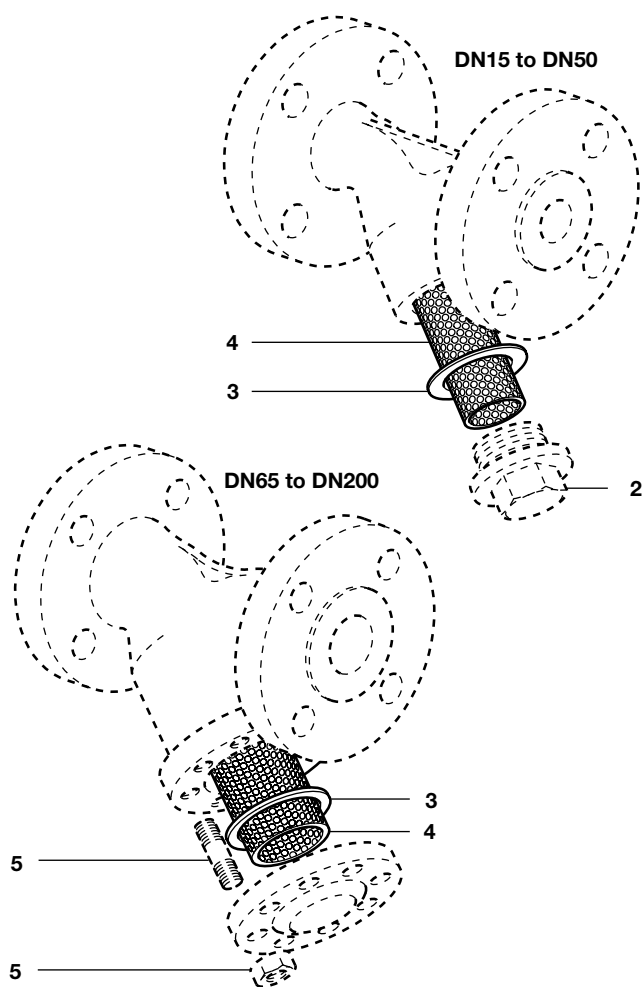
### Available spares

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 EN 1092 PN25 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