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ISO 9001

spirax sarco

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ST Issue 5

Fig 3 Bronze Strainer for the Admiralty

Description

The Fig 3 is an Admiralty bronze integrally flanged 'Y' type strainer. The standard stainless steel screen in the DN20 to 80 size range is 0.8 mm perforations, in the DN100 size range it is 3 mm perforations. Optional mesh and perforation sizes are available as well as monel screens. The strainer cap can be drilled and tapped for blowdown and drain valves if required.

Certification

This product is available with a certification to EN 10 204 2.2. **Note:** All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

DN20, 25, 32, 40, 50, 65, 80 and 100.
Standard flange:- BR 3013, BS 4504/DIN PN16 and ANSI 150.

Optional extras

Strainer screens

Stainless steel screen	Perforations	1.6 mm	(DN20 to 80)
		3.0 mm	(DN20 to 100)
	Mesh	40, 100, 200	
Monel screen	Perforations	0.8 mm	(DN20 to 80)
		3.0 mm	(DN20 to 100)
	Mesh	100	

Blowdown or drain valve connections

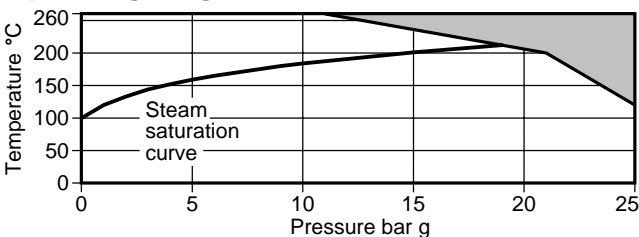
The cap can be drilled to the following sizes to enable a blowdown or drain valve to be fitted at extra cost.

Strainer size	Blowdown valve	Drain valve
DN20	1/2"	1/2"
DN25	3/4"	3/4"
DN32 and 40	1"	3/4"
DN50	1 1/4"	3/4"
DN65 and 80	1 1/2"	3/4"
DN100	2"	3/4"

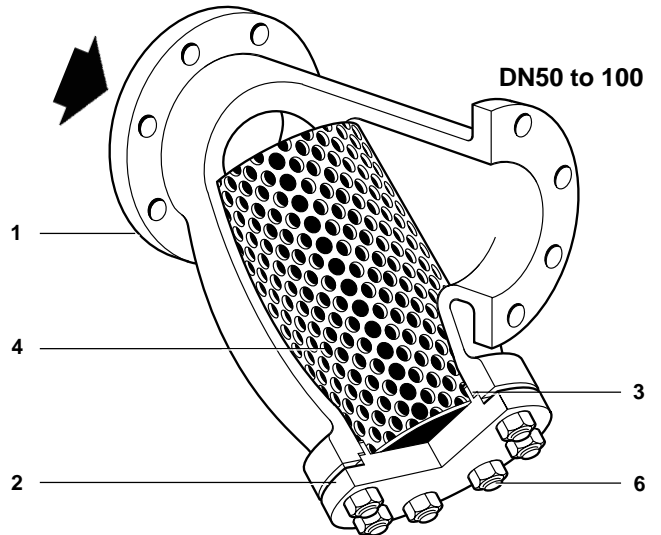
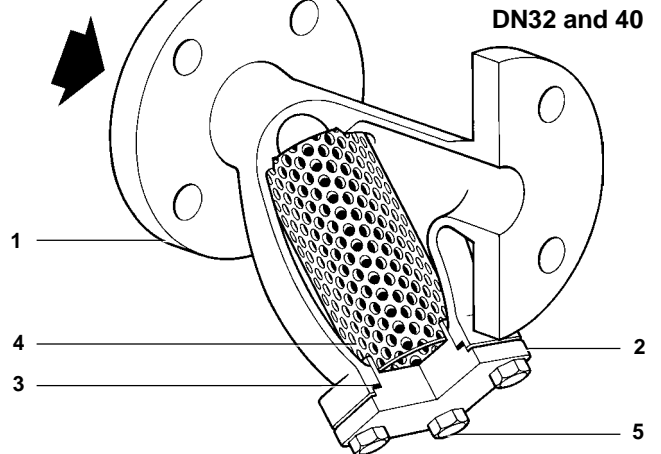
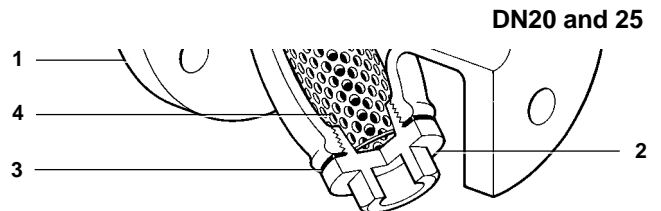
Limiting conditions

Body design conditions	PN25
Maximum design temperature	260°C
Minimum operating temperature	-200°C
Designed for a maximum cold hydraulic test pressure of 38 bar g	

Operating range



The product must not be used in this region.



Materials

*DGS 203A is equivalent to BS 1400 LG4

No. Part	Material	
1 Body	Admiralty bronze	DGS 203A*
2 Cap	Admiralty bronze	DGS 203A*
3 Cap gasket	Reinforced exfoliated graphite	
4 Strainer screen	Stainless steel	316L
5 Cap bolts DN32 and 40	Admiralty bronze	NES 833 Part 2
6 Cap stud and nuts DN50 to 100	Admiralty bronze	NES 833 Part 2

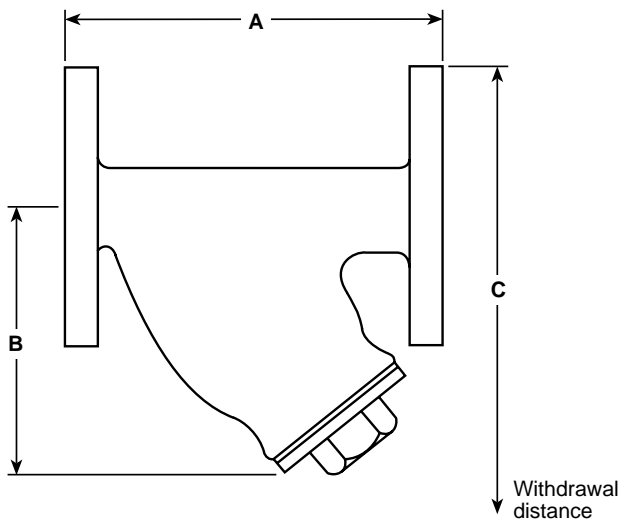
K_v values

Size	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Perforations 0.8, 1.6 and 3 mm	11	19	27	41	64	103	165	268
Mesh 40 and 100	11	19	27	41	64	103	165	268
Mesh 200	9	16	23	37	52	77	124	196

For conversion: C_v (UK) = $K_v \times 0.963$ C_v (US) = $K_v \times 1.156$

Dimensions/weights (approximate) in mm and kg

Size	A	B	C	Screening area	Weight
DN20	146	86	150	73 cm ²	3.6
DN25	165	117	200	135 cm ²	5.0
DN32	184	133	175	164 cm ²	7.3
DN40	190	150	229	194 cm ²	8.6
DN50	224	172	305	310 cm ²	13.6
DN65	250	204	343	406 cm ²	21.0
DN80	270	227	386	503 cm ²	28.5
DN100	365	260	448	826 cm ²	42.6



Installation

The strainer should be installed in the direction of flow as indicated on the body, in a vertically downwards or horizontal pipe line. In a horizontal line on steam and gases the pocket should be in the horizontal plane. On liquid systems the pocket should point downwards.

Maintenance

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 depressurisation valves type DV (see separate literature for details). Do not assume that the system is depressurised even when a pressure gauge indicates zero.

Temperature

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

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 DN25 Spirax Sarco Fig 3 Admiralty bronze strainer to DGS 203A flanged to BS 4504/DIN PN16 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.

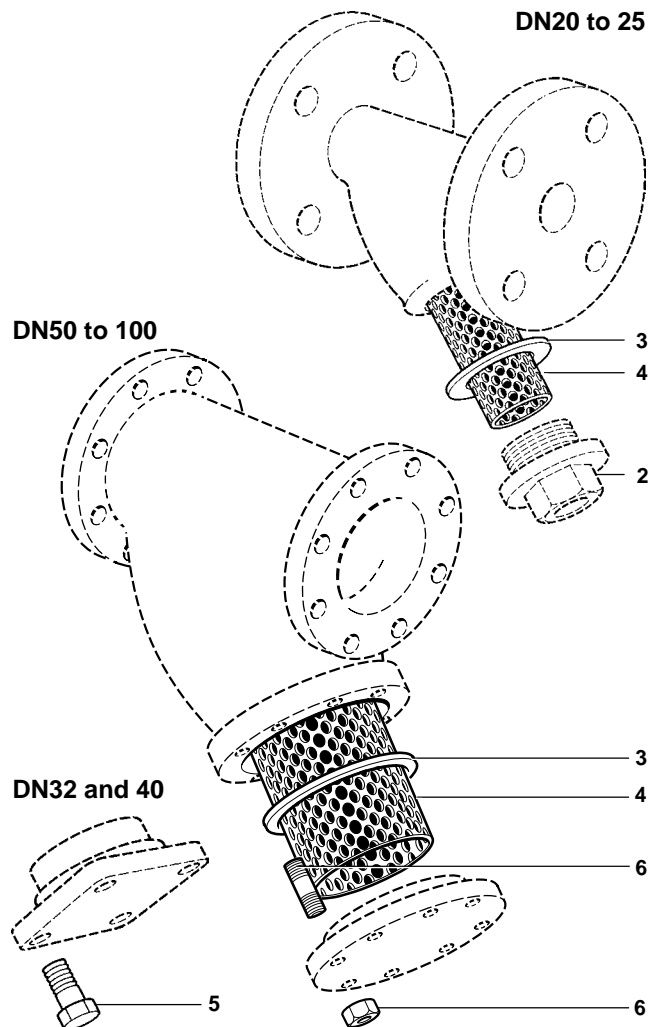
Available spares

Strainer screen. (State material, size of perforation or mesh and size of strainer)	4
Cap gasket (packet of 3)	3
Cap bolts DN32 and 40	5
Set of cap studs and nuts DN50 to 100	6



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 perforations or mesh required.

Example: 1 - Stainless steel strainer screen having 0.8 mm perforations for a DN65 Spirax Sarco Fig 3 Admiralty bronze strainer flanged to BS 4504/DIN PN16.



Recommended tightening torques

Item	Qty	Size	 or 	mm	N m
2	-	DN20	26 A/F	1 1/4" BSP x 5/8"	70 - 80
	-	DN25	32 A/F	1 3/4" BSP x 3/4"	124 - 144
5, 6	4	DN32 and 40	9/16" A/F	3/8" UNF x 3/4"	20 - 24
	6	DN50 and 65	9/16" A/F	3/8" UNF x 1 1/4"	20 - 24
	6	DN80	1 1/16" A/F	7/16" UNF x 1 1/2"	50 - 55
	8	DN100	3/4" A/F	1/2" UNF x 2"	50 - 55