



Cert. No. LRQ 0963008

ISO 9001

spirax sarco

TI-P160-04
ST Issue 8

Fig 3616

Austenitic Stainless Steel Strainer - ASTM Material

Description

The Fig 3616 is an austenitic stainless steel integrally flanged Y-type strainer with flanged screen cover in ASTM material. The standard stainless steel screen in the DN15 to 80 has 0.8 mm perforations and in the DN100 to 200 it has 1.6 mm perforations. As options, other perforation 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. The body can also be drilled and tapped for pressure tapplings if required.

Sizes and pipe connections

DN15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150 and 200.
Standard flange ANSI class 150.

Optional extras

Strainer screens

Stainless steel screen	Perforations	1.6 mm (DN15 to 80) 3.0 mm (DN15 to 200)
	Mesh	40, 100, 200
Monel screen	Perforations	0.8 mm (DN15 to 80) 1.6 mm (DN100 to 200) 3.0 mm (DN15 to 200)
	Mesh	100

Blowdown, drain valve and pressure connections

The cap can be tapped to enable a blowdown or drain valve to be fitted. The body can be drilled for pressure tapplings. These options are available at extra cost. **Connection sizes are as shown below:**

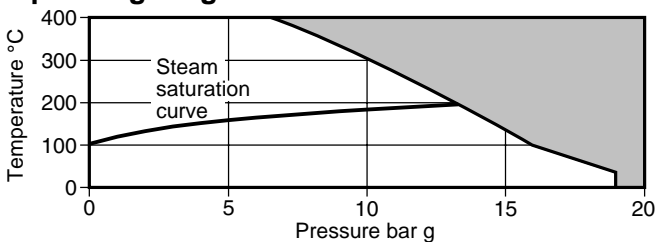
Strainer size	Blowdown valve	Drain valve	Pressure tapping
DN15 to 20	3/8"	3/8"	1/4"
DN25 to 32	1/2"	1/2"	1/4"
DN40 and 80	3/4"	3/4"	1/4"
DN100 to 200	1"	1"	1/4"

Limiting conditions

Body design conditions	ANSI 150
PMA - Maximum allowable pressure	19 bar g (275.5 psi g)
TMA - Maximum allowable temperature	400°C (752°F)
Minimum operating temperature	-29°C (-20°F)
Designed for a maximum cold hydraulic test pressure of:	30 bar g (435 psi g)

Special testing to allow lower temperature operation can be provided at extra cost. Consult Spirax Sarco.

Operating range



The product must not be used in this region.

K_v values

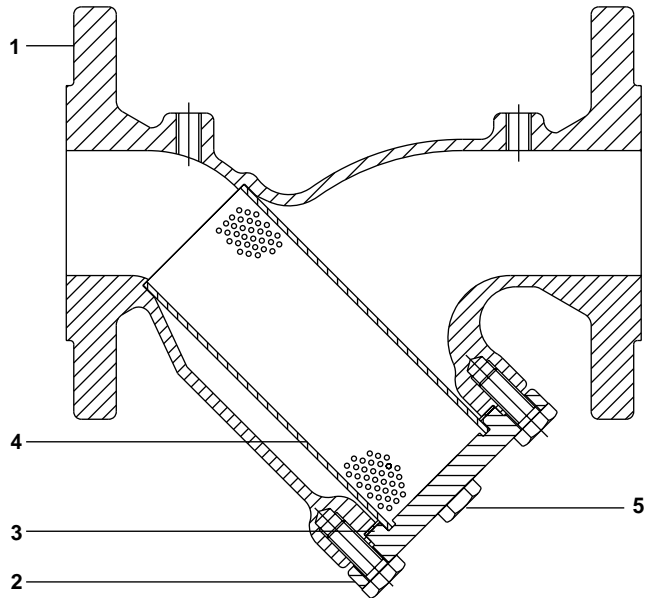
Size	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
Perforations 0.8, 1.6 and 3 mm	5	8	13	22	29	46	72	103	155	237	340	588
Mesh 40 and 100	5	8	13	22	29	46	72	103	155	237	340	588
Mesh 200	4	6	10	17	23	37	58	83	124	186	268	464

For conversion: C_v (UK) = K_v × 0.963 C_v (US) = K_v × 1.156

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.

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Materials

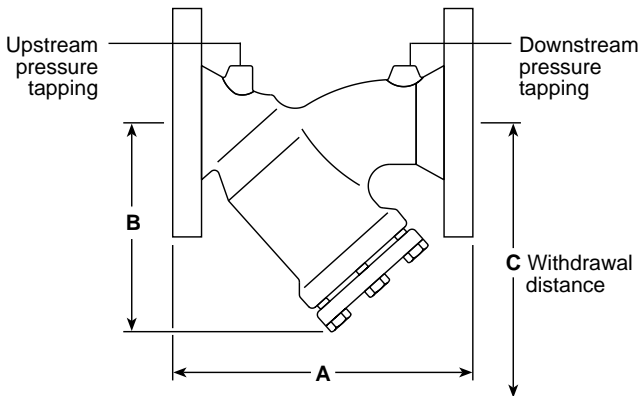
No. Part	Material
1 Body	Austenitic stainless steel ASTM A351 CF8M
2 Cap	Austenitic stainless steel ASTM A479 316L
3 Cap gasket	Reinforced exfoliated graphite
4 Strainer screen	Austenitic stainless steel ASTM A240 316L
5 Bolts	Austenitic stainless steel EN ISO 3506 A2 - 70

Certification

This product is available with certification to EN 10204 3.1.B. **Note:** All certification/inspection requirements must be stated at the time of order placement.

Dimensions /weights approximate in mm (ins) and kg (lb)

Size	ANSI 150			Screening area cm ²	Weight
	A	B	C		
DN15	120 (4.72)	69 (2.71)	101 (3.97)	28 (4.34)	2.1 (4.6)
DN20	144 (5.66)	82 (3.22)	125 (4.92)	46 (7.13)	2.9 (6.4)
DN25	154 (6.06)	90 (3.54)	140 (5.51)	79 (12.24)	3.8 (8.4)
DN32	180 (7.08)	114 (4.48)	198 (7.79)	135 (20.92)	6.6 (14.5)
DN40	200 (7.87)	127 (5.00)	210 (8.26)	161 (24.95)	9.0 (19.8)
DN50	230 (9.05)	150 (5.90)	248 (9.76)	251 (38.90)	10.5 (23.1)
DN65	290 (11.41)	162 (6.37)	263 (10.35)	325 (50.37)	17.5 (38.6)
DN80	310 (12.20)	178 (7.00)	272 (10.70)	360 (55.80)	20.0 (44.1)
DN100	351 (13.81)	210 (8.26)	323 (12.71)	540 (83.70)	24.0 (52.9)
DN125	401 (15.78)	253 (9.96)	393 (15.47)	840 (130.20)	38.0 (83.7)
DN150	473 (18.62)	293 (11.53)	454 (17.87)	1 115 (172.82)	50.5 (111.1)
DN200	593 (23.34)	375 (14.76)	584 (22.99)	1 905 (295.27)	88.0 (194.0)



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)		4
Cap gasket	DN15 to 100 (3 off)	3
	DN125 to 200 (1 off)	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 - stainless steel strainer screen, having 0.8 mm perforations for a DN50 Spirax Sarco Fig 3616 strainer having flanged ANSI 150 connections.

Safety information

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

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.

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

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

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

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

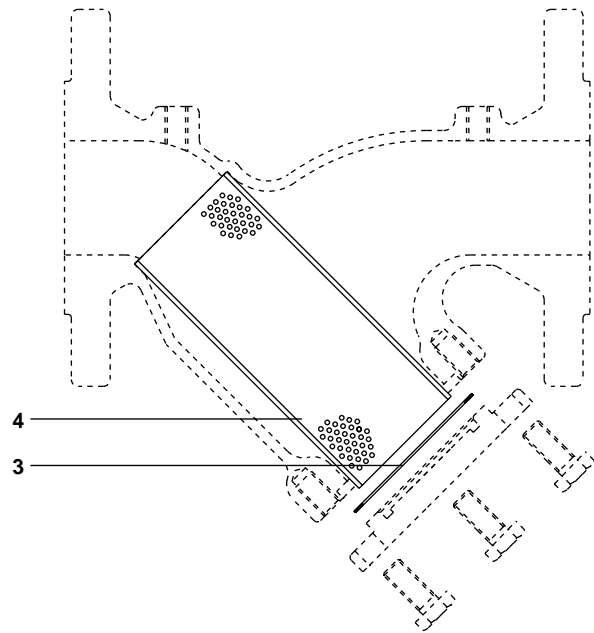
Maintenance can be completed with the strainer in the pipeline, once the safety procedures have been observed. It is recommended that a new gasket is used whenever maintenance is undertaken.

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 off Spirax Sarco DN40 Fig 3616 strainer, flanged ANSI 150 with austenitic stainless steel screen having 0.8 mm perforations and flanged screen cap.



Recommended tightening torques

Item	Size	Qty	or		N m	(lbf ft)
						
5	DN15	4	13 A/F	M8 x 20	15 - 20	(11 - 15)
	DN20	4	13 A/F	M8 x 20	15 - 20	(11 - 15)
	DN25	4	13 A/F	M8 x 20	15 - 20	(11 - 15)
	DN32	4	13 A/F	M8 x 20	15 - 20	(11 - 15)
	DN40	4	13 A/F	M8 x 20	15 - 20	(11 - 15)
	DN50	4	17 A/F	M10 x 25	22 - 25	(16 - 18)
	DN65	4	17 A/F	M10 x 30	22 - 25	(16 - 18)
	DN80	6	17 A/F	M10 x 30	22 - 25	(16 - 18)
	DN100	6	19 A/F	M12 x 35	50 - 60	(36 - 44)
	DN125	8	19 A/F	M12 x 40	50 - 60	(36 - 44)
	DN150	8	19 A/F	M12 x 40	50 - 60	(36 - 44)
	DN200	8	24 A/F	M16 x 50	100 - 110	(73 - 80)