



Cert. No. LRQ 0963008

ISO 9001

spirax/sarco

TI-P160-05

ST Issue 8

Fig 3616

Austenitic Stainless Steel Strainer - DIN Material

Description

The Fig 3616 is an austenitic stainless steel integrally flanged Y-type strainer with flanged screen cover in DIN 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 BS 4504 PN16.

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

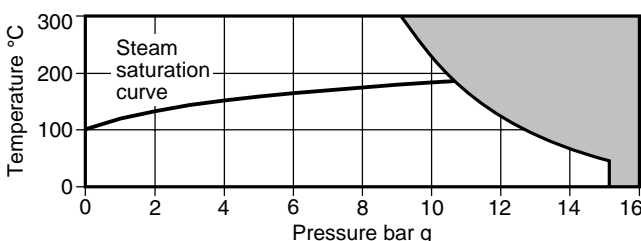
The cap can be tapped to enable a blowdown or drain valve to be fitted. The body can be drilled for pressure tapplings. These options are available at extra cost. **Connection sizes are as shown below:**

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	PN16
PMA - Maximum allowable pressure	15 bar g
TMA - Maximum allowable temperature	300°C
Minimum operating temperature	-10°C
Designed for a maximum cold hydraulic test pressure of 24 bar g	

Operating range

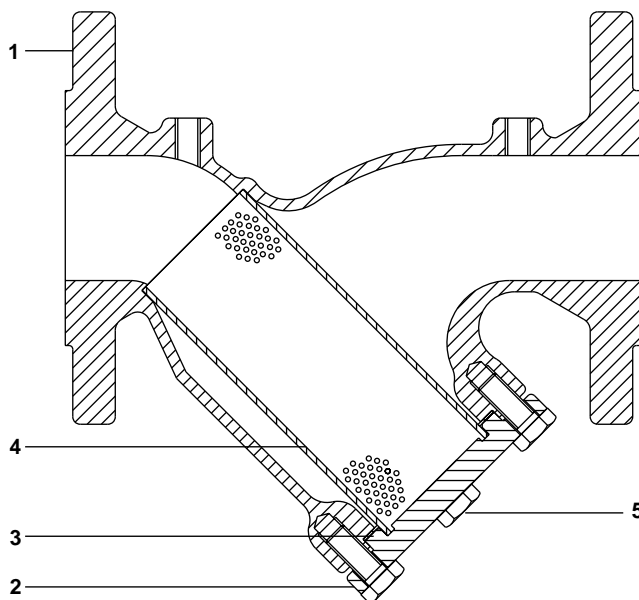


The product must not be used in this region.

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



Materials

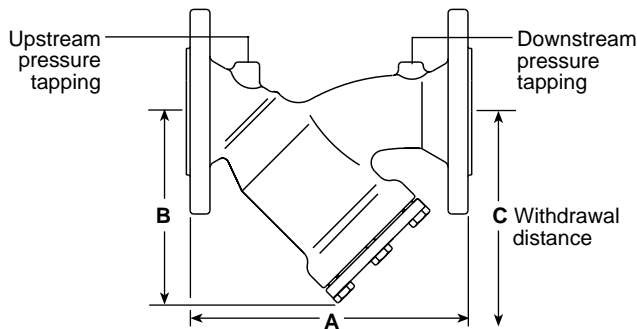
No. Part	Material
1 Body	Austenitic stainless steel EN10213 pt 4 1.4408
2 Cap	Austenitic stainless steel EN10088 pt 3 1.4401
3 Cap gasket	Reinforced exfoliated graphite
4 Strainer screen	Austenitic stainless steel ASTM A240 316L
5 Bolts	Austenitic stainless steel EN ISO 3506 A2 - 70

Certification

The product is available with material certification to EN 10204 3.1.B for body and cap at extra cost. All certification must be requested at the time of order placement.

Dimensions / weights (approximate) in mm and kg

Size	PN16 A	B	C	Screening area cm ²	Weight
DN15	130	69	101	28	2.1
DN20	150	82	125	46	2.9
DN25	160	90	140	79	3.8
DN32	180	114	198	135	6.6
DN40	200	127	210	161	9.0
DN50	230	150	248	251	10.5
DN65	290	162	263	325	17.5
DN80	310	178	272	360	20.0
DN100	350	210	323	540	24.0
DN125	400	253	393	840	38.0
DN150	480	293	454	1 115	50.5
DN200	600	375	584	1 905	88.0



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 BS 4504 PN16 with austenitic stainless steel screen having 0.8 mm perforations and flanged screen cap.

Spare parts

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

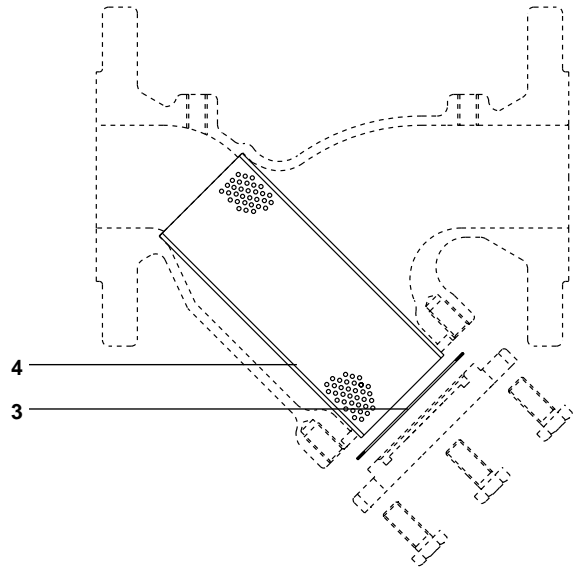
Available spares

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 - Strainer screen, stainless steel having 0.8 mm perforations for DN50 Spirax Sarco Fig 3616 strainer PN16.



Recommended tightening torques

Item	Size	Qty	or mm	N m
5	DN15 and 20	4	13 A/F M8 x 20	15 - 20
	DN25	4	13 A/F M8 x 20	15 - 20
	DN32 and 40	4	13 A/F M8 x 20	15 - 20
	DN50	4	17 A/F M10 x 25	22 - 25
	DN65	4	17 A/F M10 x 30	22 - 25
	DN80	6	17 A/F M10 x 30	22 - 25
	DN100	6	19 A/F M12 x 35	50 - 60
	DN125	8	19 A/F M12 x 40	50 - 60
	DN150	8	19 A/F M12 x 40	50 - 60
	DN200	8	24 A/F M16 x 50	100 - 110