TI-P064-02 CMGT Issue 15

Spirax Sarco Fig 34 Carbon Steel Strainer - ASTM Material

Description

The Fig 34 is an integrally flanged Y-type strainer designed to remove rust, scale and other debris from the pipeline. It is produced from carbon steel, ASTM material.

The standard stainless steel screen in the DN15 to DN80 (½" to 3") is 0.8 mm perforations and in the DN100 to DN200 (4" to 8") it is 1.6 mm perforations.

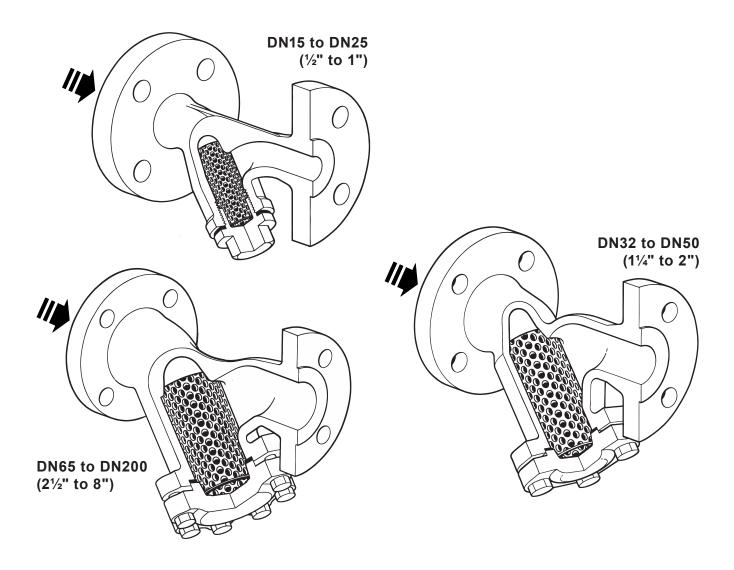
Note: A low temperature carbon steel strainer is available on request.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

Certification

The product is available with a manufacturer's Typical Test Report as standard and certification to EN 10204 3.1 for body and cap by order. **Note:** All certification/inspection requirements must be stated at the time of order placement.



Optional extras

Strainer screens

	Denfanations	1.6 mm	DN15 to DN80	(½" to 3")
Stainless steel screen	Perforations	3.0 mm	DN15 to DN200	(½" to 8")
	Mesh	40, 100 and 200		
		0.8 mm	DN15 to DN80	(½" to 3")
Manuel	Perforations	1.6 mm	DN100 to DN200	(4" to 8")
Monel screen		3.0 mm	DN15 to DN200	(½" to 8")
	Mesh	100		

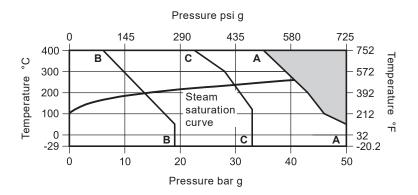
Blowdown or drain valve connections

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

Strainer size	Blowdown valve	Drain valve
DN15 (½")	1/4"	1/4"
DN20 and DN25 (¾" and 1")	1/2"	1/2"
DN32 and DN40 (1¼" and 1½")	1"	1"
DN50 to DN125 (2" to 5")	11/4"	11/4"
DN150 and DN200 (6" and 8")	2"	3/4"

Sizes and pipe connectionsDN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150 and DN200 (½", ¾", 1", 1½", 2", 2½", 3", 4", 5", 6" and 8")
Standard flange ASME Class 150, ASME Class 300 and JIS/KS 20.

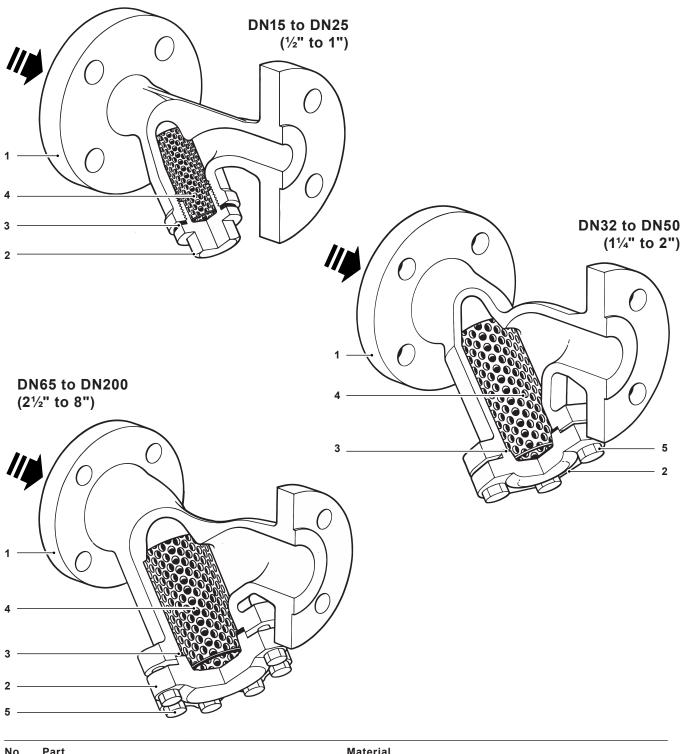
Pressure/temperature limits



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

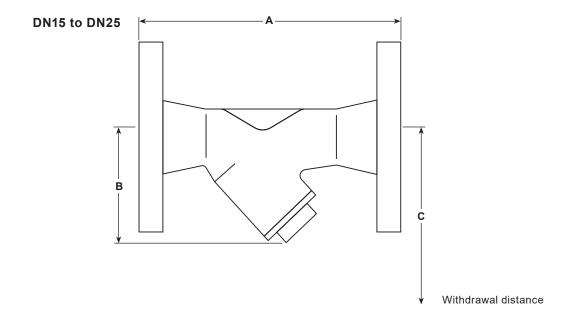
- A A Flanged ASME 300
- **B B** Flanged ASME 150
- C C Flanged JIS/KS 20

	PN50/ASME 300
50 bar g @ 37.7 °C	725 psi g @ 100 °F
398.8 °C @ 34.8 bar g	750°F @ 505 psi g
-29 °C	-20.2 °F
50 bar g @ 37.7 °C	725 psi g @ 100 °F
398.8 °C @ 34.8 bar g	750°F @ 505 psi g
-29 °C	-20.2 °F
78 bar g	1131 psi g
	398.8 °C @ 34.8 bar g -29 °C 50 bar g @ 37.7 °C 398.8 °C @ 34.8 bar g -29 °C



No.	Part		Material		
1	Body		Carbon steel	ASTM A216 WCB	
2	0.5	DN15 - DN50	Forged steel	A105N ASTM A216 WCB	
	Сар	DN65 - DN200	Carbon steel		
3	Cap gasket		Reinforced exfoliated graphite		
4	Strainer screen		Stainless steel	ASTM A240 316L	
5	Bolts		Carbon steel	ASTM A193 B7	

Dimensions/weights (approximate) in mm (inches) and kg (lbs)



Size		ASME 150 A	ASME 300 A	JIS/KS 20 A	В	С	Screening area cm² (in²)	Weight
DN15	(1/2")	120 (4.72)	127 (5)	126 (4.96)	70 (2.76)	110 (4.33)	27 (4.19)	2.1 (4.63)
DN20	(3/4")	144 (5.67)	150 (5.91)	150 (5.91)	80 (3.15)	130 (5.12)	43 (6.67)	2.9 (6.39)
DN25	(1")	154 (6.06)	160 (6.30)	159 (6.26)	95 (3.74)	150 (5.91)	73 (11.3)	3.8 (8.38)
DN32	(11/4")	180 (7.09)	180 (7.09)	178 (7.01)	130 (5.12)	235 (9.25)	135 (20.9)	6.5 (14.3)
DN40	(1½")	200 (7.87)	208 (8.19)	202 (7.95)	146 (5.75)	260 (10.2)	164 (25.4)	9.0 (19.8)
DN50	(2")	230 (9.06)	240 (9.45)	232 (9.13)	180 (7.09)	320 (12.6)	251 (38.9)	10.5 (23.1)
DN65	(2½")	290 (11.4)	289 (11.4)	278 (10.9)	200 (7.87)	325 (12.8)	327 (50.7)	17.5 (38.6)
DN80	(3")	310 (12.2)	311 (12.24)	297 (11.7)	205 (8.07)	330 (13.0)	361 (56.0)	24.0 (52.9)
DN100	(4")	351 (13.8)	351 (13.8)	333 (13.1)	255 (10.0)	405 (15.9)	545 (84.5)	30.0 (66.1)
DN125	(5")	401 (15.8)	401 (15.8)	383 (15.1)	315 (12.4)	510 (20.1)	843 (131)	49.0 (108)
DN150	(6")	473 (18.6)	478 (18.8)	461 (18.1)	345 (13.6)	560 (22.0)	1 117 (173)	68.0 (150)
DN200	(8")	593 (23.3)	600 (23.6)	577 (22.7)	440 (17.3)	710 (28.0)	1 909 (296)	128.0 (282)

Kv values

Size	DN15 (½")	DN20 (¾")	DN25 (1")	DN32 (11/4")	DN40 (1½")	DN50 (2")	DN65 (2½")	DN80 (3")	DN100 (4")	DN125 (5")	DN150 (6")	DN200 (8")
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: $Cv (UK) = Kv \times 0.963$ Cv(US) = Kv x 1.156

Safety information, installation and maintenanceFor full details see the Installation and Maintenance Instructions (IM-S60-18) supplied with the product.

Installation note

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.

The strainer cap gasket contains a thin stainless steel support ring, which may cause physical injury if not handled and disposed of carefully.

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 34 strainer having flanged ASME 300 connections with 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.

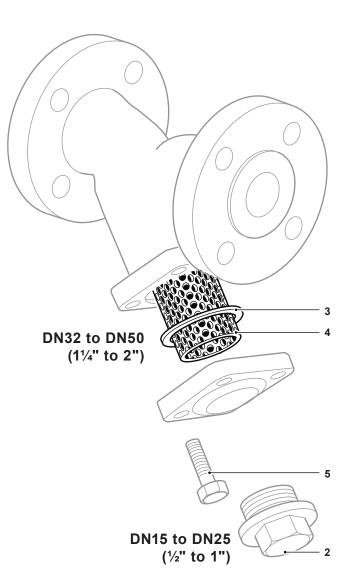
Available spares

Strainer screen (state material, perforations 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 Strainer screen, stainless steel having 0.8 mm perforations for a DN50 Spirax Sarco Fig 34 strainer having ASME 300 connections.



Recommended tightening torques

Item	Size	3 11 3 1	Qty		or mm	N m	ft lbf
	DN15	(½")	1	22		50 - 55	37 - 41
2	DN20	(3/4")	1	27		60 - 66	44 - 49
	DN25	(1")	1	27		100 - 110	74 - 81
	DN32 to DN40	(1¼" to 1½")	4	19	M12 x 30	20 - 24	15 - 18
	DN50	(2")	6	19	M12 x 35	20 - 24	15 - 18
	DN65	(2½")	8	19	M12 x 35	20 - 24	15 - 18
_	DN80	(3")	8	19	M12 x 35	30 - 35	22 - 26
5	DN100	(4")	8	24	M16 x 45	50 - 55	37 - 41
	DN125	(5")	8	30	M20 x 50	70 - 77	52 - 57
	DN150	(6")	8	30	M20 x 55	80 - 88	59 - 65
	DN200	(8")	12	36	M24 x 65	120 - 230	89 - 170