Fig 36HP Stainless Steel Strainer

Description

The Fig 36HP is a Stainless steel Y-type strainer that has been designed in accordance with ASME B16.34:2004 and ASME VIII, that is readily available with integrally flanged or butt weld connections.

The standard stainless steel screen in the DN15 to DN80 (½" - 3") size range has 0.8 mm perforations, and 1.6 mm perforations in the DN100 to DN200 (4" to 8") size range - See 'Optional extras' for alternative perforations/mesh sizes and screen materials. If required, the strainer cover can be drilled and tapped for blowdown and drain valves.

Standards

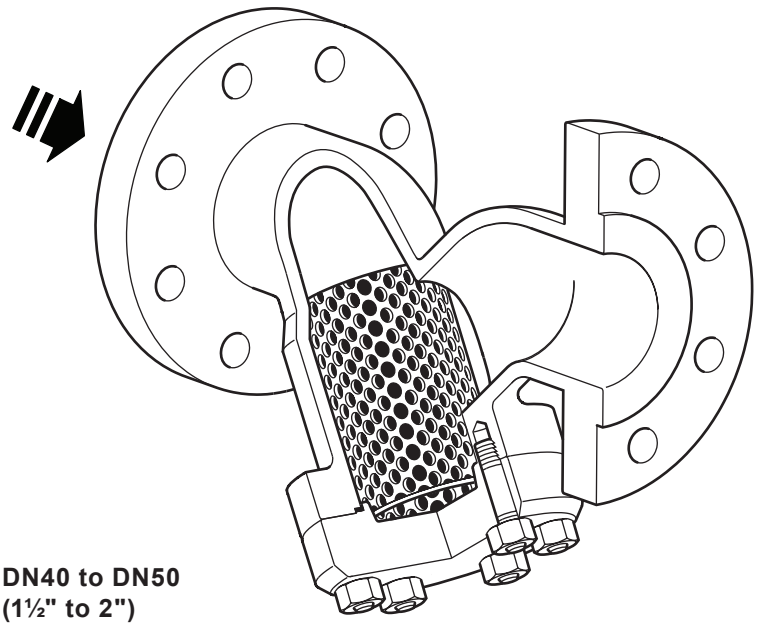
This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU and carries the CE mark when so required.

Certification

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

Sizes and pipe connections

Flanged:
EN 1092 PN100, EN 1092 PN63, ASME (ANSI) B16.5 Class 600 and ASME (ANSI) 600 RTJ - DN15, DN20, DN25, DN40, DN50, DN65, DN80, DN100, DN150 and DN200.
Screwed: BSP T Rp (ISO 7-1) or NPT - ½", ¾", 1", 1½" and 2"
Socket weld:
ASME (ANSI) B16.11 Class 3000 - ½", ¾", 1", 1½" and 2"
Butt weld:
ASME (ANSI) B16.25 Schedule 40 and Schedule 80 - ½", ¾", 1", 1½", 2", 2½", 3", 4", 6" and 8"



DN40 to DN50 (1½" to 2")

Optional extras

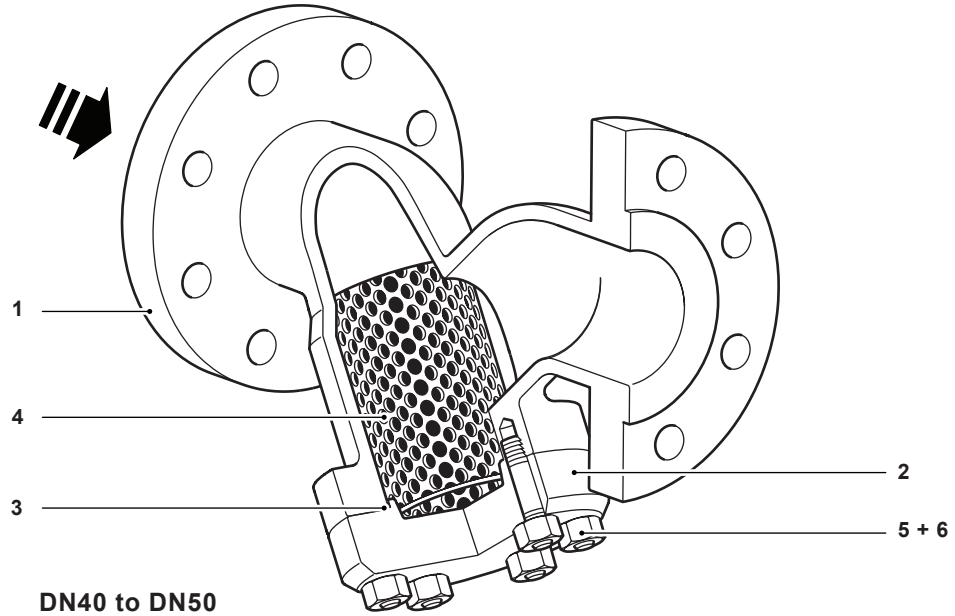
The following optional extras are available for all unit sizes at an extra cost and must be stated at the time of order placement:

Perforations:	0.8 mm (standard), 1 mm, 1.6 mm, 3 mm and 6 mm
	Contact Spirax Sarco for availability of perforations not displayed.
	M20, M40, M60, M100, M200 and M400
Mesh:	Contact Spirax Sarco for availability of mesh screens not displayed.
Screen material:	AISI 316, AISI 316L (standard), AISI 304,
	AISI 304L and Monel

Blowdown/drain valve connection
The cover can be drilled to the following sizes to enable a blowdown or drain valve to be fitted. This option is available at extra cost.

Strainer size	Blowdown valve	Drain valve
DN15 (½")	¼"	¼"
DN20 and DN25 (¾" and 1")	½"	½"
DN40 (1½")	1"	¾"
DN50 to DN100 (2" to 4")	1¼"	¾"
DN150 to DN200 (6" to 8")	2"	¾"

Materials



DN40 to DN50 (1½" to 2")

No.	Part	Material	
1	Body	Stainless steel	EN 10213 1.4408 and ASTM A351 CF8M
2	Cover	Stainless steel	EN 10213 1.4408 and ASTM A351 CF8M
3	Cover gasket	Stainless steel + Graphite	Spiral wound
4	Strainer screen	Stainless steel	AISI 316L
5	Cover stud	Stainless steel	ASTM A193 Gr. B8M2
6	Cover nut	Stainless steel	ASTM A194 Gr. 8M

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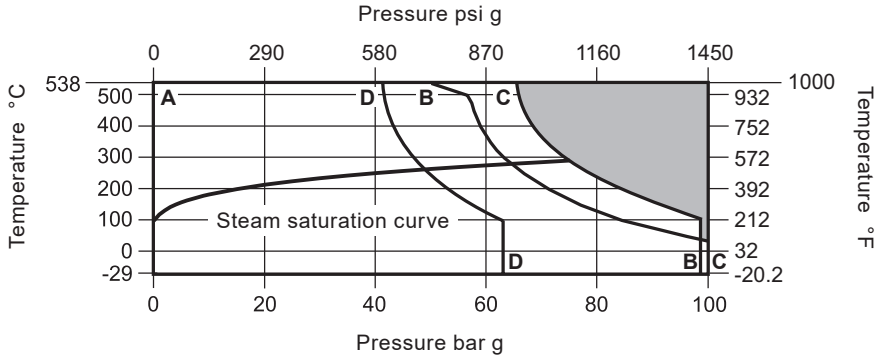
Pressure/temperature limits



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

A - B Flanged ASME (ANSI) B16.5 Class 600, ASME (ANSI) 600 RTJ, Screwed NPT, Socket weld ASME (ANSI) B16.11 Class 3000 and Butt weld ASME (ANSI) B16.25 Schedule 40 and 80.

A - C Flanged EN 1092 PN100 and Screwed BSP T Rp (ISO 7-1).

A - D Flanged EN 1092 PN63.

		A - B **Flanged ASME 600 and 600 RTJ Screwed NPT Socket weld and Butt weld**	**A - C** **Flanged EN 1092 PN100 and Screwed BSP T Rp (ISO 7-1)**	**A - D** **Flanged EN 1092 PN63**
Body design conditions		ASME 600	PN100	PN63
PMA	Maximum allowable pressure	99.3 bar g @ 38 °C	100 bar g @ 50 °C	63 bar g @ 50 °C
		(1440 psi g @ 100 °F)	(1450 psi g @ 122 °F)	(914 psi g @ 122 °F)
TMA	Maximum allowable temperature	538 °C @ 50 bar g	538 °C @ 65.4 bar g	538 °C @ 41.2 bar g
		(1000 °F @ 725 psi g)	(1000 °F @ 949 psi g)	(1000 °F @ 598 psi g)
Minimum allowable temperature		-29 °C	-29 °C	-29 °C
		(-20.2 °F)	(-20.2 °F)	(-20.2 °F)
PMO	Maximum operating pressure	99.3 bar g @ 38 °C	100 bar g @ 50 °C	63 bar g @ 50 °C
		(1440 psi g @ 100 °F)	(1450 psi g @ 122 °F)	(914 psi g @ 122 °F)
TMO	Maximum operating temperature	538 °C @ 50 bar g	538 °C @ 65.4 bar g	538 °C @ 41.2 bar g
		(1000 °F @ 725 psi g)	(1000 °F @ 949 psi g)	(1000 °F @ 598 psi g)
Minimum operating temperature **Note:** For lower operating temperatures consult Spirax Sarco.		-29 °C	-29 °C	-29 °C
		(-20.2 °F)	(-20.2 °F)	(-20.2 °F)
Product is safe for use under full vacuum conditions				
Designed for a maximum cold hydraulic test pressure of:		153 bar g	150 bar g	95 bar g
		(2219 psi g)	(2176 psi g)	(1378 psi g)

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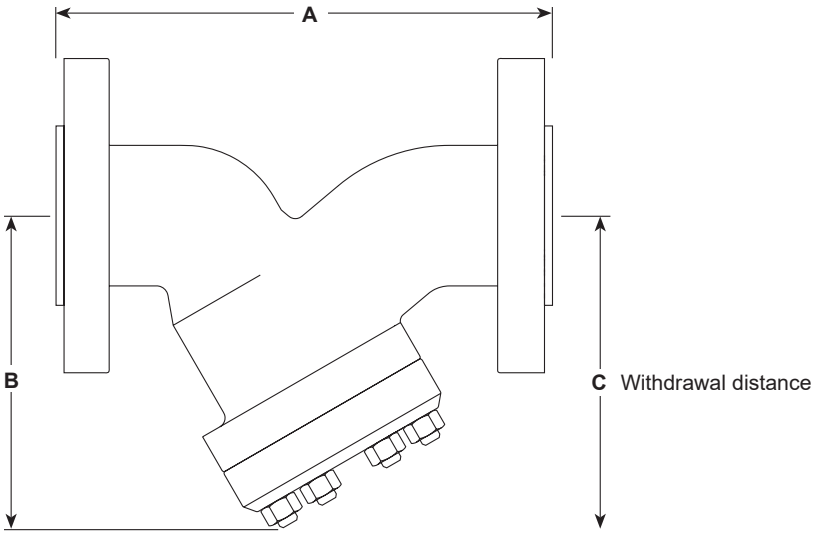
Kv values

Size	DN15	DN20	DN25	DN40	DN50	DN65	DN80	DN100	DN150	DN200
Perforations 0.8, 1.6 and 3 mm	5	8	13	29	46	72	103	155	340	588
Mesh M40 and M100	5	8	13	29	46	72	103	155	340	588
Mesh M200	4	6	10	23	37	58	83	124	268	464

Please consult Spirax Sarco for the Kv values of the following screens: 1 mm, 6 mm, M20, M60 and M400.

For conversion:
Cv (UK) = Kv x 0.963
Cv (US) = Kv x 1.156

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



Size	A ASME 600		A PN100		A Screwed Socket weld Butt weld		B		C		Weights ASME 600		PN100		Screwed Socket weld Butt weld	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	kg	lbs	kg	lbs	kg	lbs
DN15	165	6.50	210	8.27	165	6.50	117	4.61	200	7.87	3.6	7.94	4.0	8.82	1.6	3.52
DN20	190	7.48	230	9.06	190	7.48					4.6	10.1	4.9	10.8	1.8	3.97
DN25	216	8.50			216	8.50					5.6	12.3	7.6	16.8	2.2	4.85
DN40	241	9.49	260	10.2	241	9.49	195	7.68	330	13.0	12.2	26.9	12.2	26.9	7.2	15.9
DN50	292	11.5	300	11.8	292	11.5					17.4	38.4	18.0	39.7	7.6	16.8
DN65	330	13.0	340	13.4	330	13.0	222	8.74	340	13.4	34.0	75.0	35.0	77.2	16.2	35.7
DN80	356	14.0	380	15.0	356	14.0					35.0	77.2	36.0	79.4	20.6	45.4
DN100	432	17.0	430	16.9	432	17.0	280	11.0	458	18.0	60.0	132	59.0	130	31.9	70.3
DN150	559	22.0	550	21.7	559	22.0	360	14.2	610	24.0	130.0	287	128.0	282	74.8	165
DN200	660	26.0	650	25.6	660	26.0	455	17.9	775	30.5	222.0	489	222.0	489	143.5	316

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Safety information, installation and maintenance
For 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 horizontal plane. On liquid systems the pocket should point downwards.

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

Disposal
This product is recyclable. No ecological hazard is anticipated with the disposal of this product, provided due care is taken.

How to order
Example: 1 off Spirax Sarco DN40 Fig 36HP strainer having the standard stainless steel screen with 0.8 mm perforations and flanged EN 1092 PN100 connections.

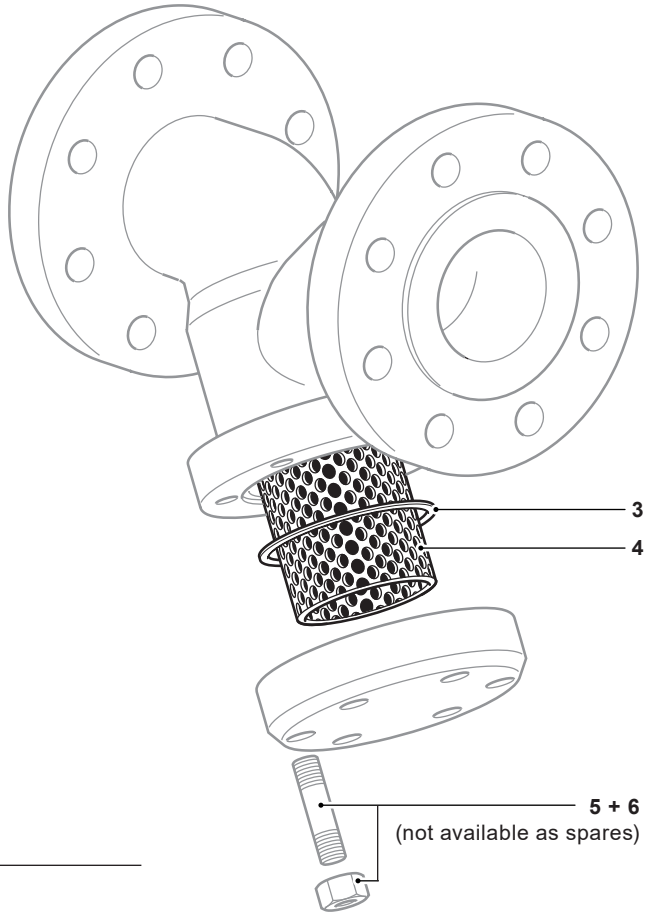
Spare parts
The spare parts available are shown in solid outline.
Parts drawn in a grey line are not supplied as spares.

Available spares

Cover gasket (packet of 3)		**3**
Strainer screen + Cover gasket	Strainer screen	**4**
	Cover gasket	**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 + Cover gasket. The strainer screen is to be stainless steel having 0.8 mm perforations for a DN50 Spirax Sarco Fig 36HP strainer having EN 1092 PN63 flanged connections.



Recommended tightening torques - Items 5 and 6

Sizes	Qty	or mm		N m	ft lbf
DN15 - DN25	4	7/16"	½" - 13 UNC	20 - 30	15 - 22
DN40 - DN50	8	7/16"	½" - 13 UNC	30 - 40	22 - 30
DN65 - DN80	8	1 1/16"	5/8" - 11 UNC	50 - 60	37 - 44
DN100	8	1¼"	¾" - 10 UNC	80 - 90	59 - 66
DN150	8	1 7/16"	⅞" - 9 UNC	100 - 110	74 - 81
DN200	12	1 13/16"	1¼" - 7 UNC	180 - 190	133 - 140