

TI-P160-02 CMGT Issue 15

Description

The Fig 36 is an austenitic stainless steel integrally flanged Y-type strainer.

The standard stainless steel screen in the DN15 to DN80 ($\frac{1}{2}$ " - 3") size range has 0.8 mm perforations, in the DN100 to DN200 (4" to 8") size range it has 1.6 mm perforations. Other perforations, mesh sizes and monel screens are available as options. The strainer cap can be drilled and tapped for blowdown and drain valves if required.

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

The product is available with a manufacturers' Typical Test Report as standard and EN 10204 3.1 for body and cap by special request.

Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150 and DN200 (½", ¾", 1", 1¼", 2", 1½", 3", 4", 5", 6" and 8") Standard flange: EN 1092 PN16, PN25 and PN40 (DN15 to DN50 (½" to 2")) EN 1092 PN25 and PN40 (DN65 to DN150 (2½" to 6")) EN 1092 PN40 (DN200 (8")) ANSI Class 150 and ANSI Class 300 (All sizes) JIS/KS flanges are available on request.



Optional extras

		Denferentieren	1.6 mm (DN15 to DN80 (½" to 3"))		
	Stainless steel screens	Perforations	3.0 mm (DN15 to DN200 (½" to 8"))		
		Mesh	40, 100, 200		
Strainer screens			0.8 mm (DN15 to DN80 (½" to 3"))		
	Manalaanaa	Perforations	1.6 mm (DN100 to DN200 (4" to 8"))		
	Monel screens		3.0 mm (DN15 to DN200 (½" to 8"))		
		Mesh	100		
	Strainer size	Blowdown valve	Drain valve		
Blowdown or drain valve	DN15 (½")	1/4"	1/4"		
connections	DN20 and DN25 (1/2" and 1")	1/2"	1/2"		
The cap can be drilled to the following sizes to enable a blowdown or drain) 1"	3/4"		
valve to be fitted.	DN50 to DN125 (2" and 5")	11⁄4"	3/4"		
	DN150 and DN200 (6" and 8") 2"	3/4"		

Pressure/temperature limits



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

- A B Flanged ANSI 300.
- A C Flanged EN 1092 PN40.

esign conditions			ANSI 300 (PN50)
MA Maximum allowable pressure		41 bar g @ 38 °C	595 psi g @ 100 °F
A Maximum allowable temperature		450 °C @ 21 bar g	842 °F @ 305 psi g
m allowable temperature		-29 °C	-20.2 °F
	ANSI 150	16 bar g	232 psi g
Maximum operating pressure	PN40	38 bar g	551 psi g
	ANSI 300	41 bar g	595 psi g
Maximum operating temperature		450 °C @ 21 bar g	842 °F @ 305 psi g
m operating temperature for lower operating temperatures co	nsult Spirax Sarco.	-29 °C	-20.2 °F
is safe for use under full vacuum c	onditions		
ed for a maximum cold hydraulic tes	st pressure of:	76 bar g	1102 psi g
	Maximum allowable pressure Maximum allowable temperature n allowable temperature Maximum operating pressure Maximum operating temperature n operating temperature or lower operating temperatures co is safe for use under full vacuum c	Maximum allowable pressure Maximum allowable temperature n allowable temperature Maximum operating pressure Maximum operating temperature Maximum operating temperature	Maximum allowable pressure41 bar g @ 38 °CMaximum allowable temperature450 °C @ 21 bar gIn allowable temperature-29 °CMaximum operating pressureANSI 150PN4038 bar gANSI 30041 bar gMaximum operating temperature450 °C @ 21 bar gIn operating temperature-29 °CIn operating temperature-29 °C

Kv values

Size	DN15 (½")	DN20 (¾")	DN25 (1")	DN32 (1¼")	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 x 0.963 Cv (US) = Kv x 1.156



No.	Part	Size	Material	
1	Body		Austenitic stainless steel	ASTM A351 CF3M
•	2 Cap	DN15 - DN50 (½" - 2")	Austenitic stainless steel	ASTM A351 CF3M
2		DN65 - DN200 (2½" - 8")	Austenitic stainless steel	ASTM A351 CF3M
3	Cap gasket		Reinforced exfoliated graphite	
4	Strainer screen		Austenitic stainless steel	ASTM A240 316L
5	Cap bolt		Austenitic stainless steel	ISO 3506 A2-70



Size	EN1092 PN16/25/40 A	ANSI 150 A	ANSI 300 A	В	с	Screening area cm²	Weight
DN15	130	124	130	70	120	28	2.5
	(5.12)	(4.88)	(5.12)	(2.76)	(4.72)	(4.34)	(5.51)
DN20	150	142	149	80	130	46	4.5
	(5.91)	(5.59)	(5.87)	(3.15)	(5.12)	(7.13)	(9.92)
DN25	160	156	163	95	162	79	5.0
	(6.30)	(6.14)	(6.42)	(3.74)	(6.38)	(12.2)	(11.0)
DN32	180	180	180	130	235	135	10.0
	(7.09)	(7.09)	(7.09)	(5.12)	(9.25)	(20.9)	(22.0)
DN40	200	200	208	146	260	161	12.0
	(7.87)	(7.87)	(8.19)	(5.75)	(10.2)	(25.0)	(26.5)
DN50	230	230	241	180	320	251	16.5
	(9.06)	(9.06)	(9.49)	(7.09)	(12.6)	(38.9)	(36.4)
DN65	290	290	290	200	325	325	23.0
	(11.4)	(11.4)	(11.4)	(7.87)	(12.8)	(12.8)	(50.7)
DN80	310	310	310	205	330	360	35.6
	(12.2)	(12.2)	(12.2)	(8.07)	(13.0)	(55.8)	(78.5)
DN100	351	351	351	255	405	540	38.5
	(13.8)	(13.8)	(13.8)	(10.0)	(15.9)	(83.7)	(84.9)
DN125	400	400	400	315	510	840	76.0
	(15.7)	(15.7)	(15.7)	(12.4)	(20.1)	(130)	(168)
DN150	480	475	480	345	560	1 115	109.0
	(18.9)	(18.7)	(18.9)	(13.6)	(22.0)	(173)	(240)
DN200	600	594	600	440	710	1 905	144.0
	(23.6)	(23.4)	(23.6)	(17.3)	(28.0)	(295)	(317)

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 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.

Maintenance note

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.

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.

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 DN32 Fig 36 strainer having a stainless steel screen with 0.8 mm perforations. The connections are to be flanged EN 1092 PN40.

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, size of perforations or mesh and size of strainer)	4
Cap gasket (3 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 off stainless steel strainer screen, having 0.8 mm perforations for a DN50 Spirax Sarco Fig 36 strainer having EN 1092 PN40 connections.



Item	Size	Qty		or m	N m	ft lbf
	DN15 - DN25	4	16 A/F	M10 x 30	22 - 25	16 - 18
	DN32 - DN40	4	19 A/F	M12 x 35	40 - 45	30 - 33
	DN50	8	19 A/F	M12 x 35	40 - 45	30 - 33
	DN65	8	19 A/F	M12 x 45	40 - 45	30 - 33
5	DN80	8	19 A/F	M12 x 50	40 - 45	30 - 33
	DN100	8	24 A/F	M16 x 50	100 - 110	74 - 81
	DN125	8	30 A/F	M20 x 60	160 - 170	118 - 125
	DN150	8	30 A/F	M20 x 65	210 - 230	155 - 170

36 A/F

8

M20 x 75

Recommended tightening torques

DN200

210 - 230

155 - 170