



TP1, TP2, TP3 and Spacer Ring Stainless Steel Temporary Strainers

Description

Temporary strainers have been designed to fit between two flanges and are generally used during commissioning and start-up to remove any coarse debris. They are available in three designs (TP1, TP2 and TP3 as illustrated below) to suit a wide range of fluids for applications in process lines, hot water systems, steam and condensate systems etc. The standard screens are manufactured using 304L or 316L stainless steel and have 3 mm perforations. Other perforations or material of construction are available on request.

Temporary strainers are not intended to be used for permanent applications. Contact Spirax Sarco when permanent applications are required. After commissioning and start-up the temporary strainer should be removed from the pipeline and replaced with a spacer ring.

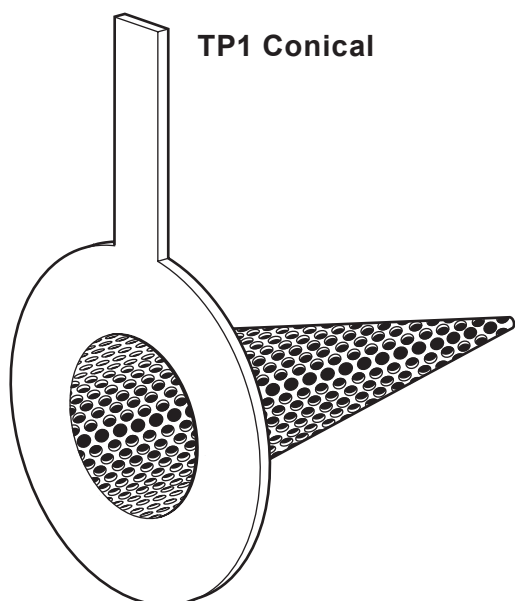
Standards

These products fully comply with the requirements of the European Pressure Equipment Directive 2014/68/EU and carry the  mark when so required.

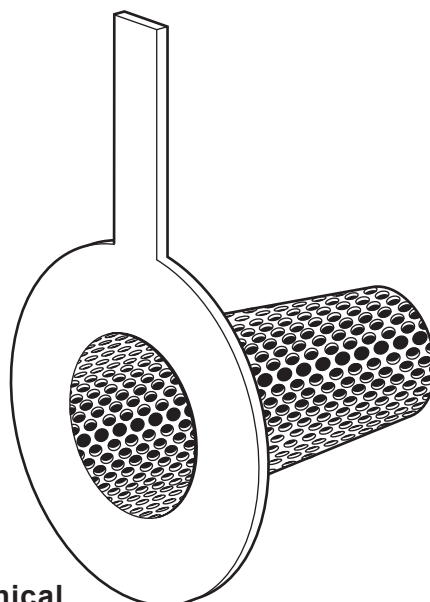
Certification

These products are available with certification to EN 10204 3.1 and NACE approval.

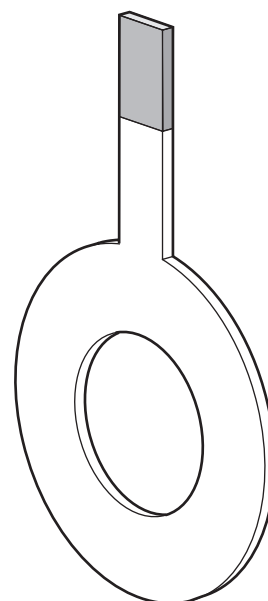
Note: All certifications/inspections requirements must be stated at the time of order placement.



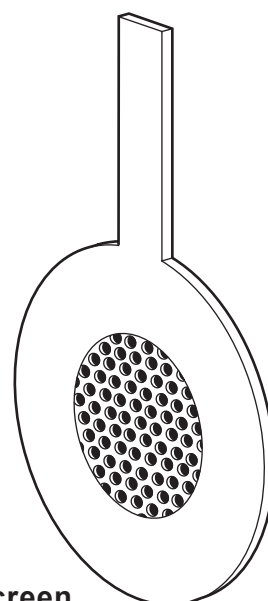
TP1 Conical



TP2 Truncated conical



Spacer ring



TP3 Flat screen

Sizes and pipe connections

DN40 - DN700 (1½" – 28")

Designed for installation between the following flanges:

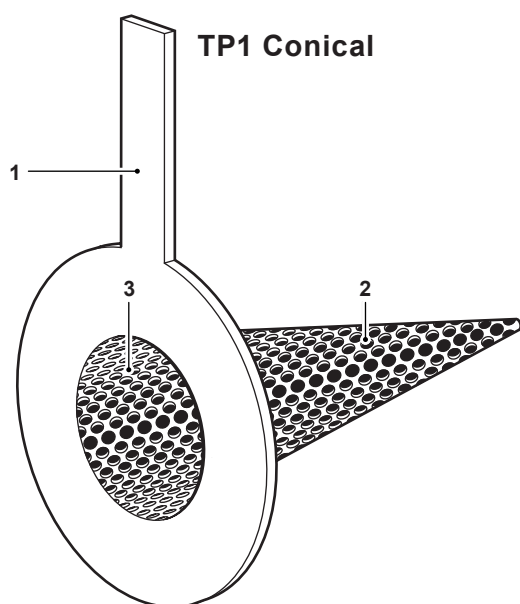
EN 1092 PN10, PN16, PN25 and PN40 or ASME 150, ASME 300 and ASME 600

Materials

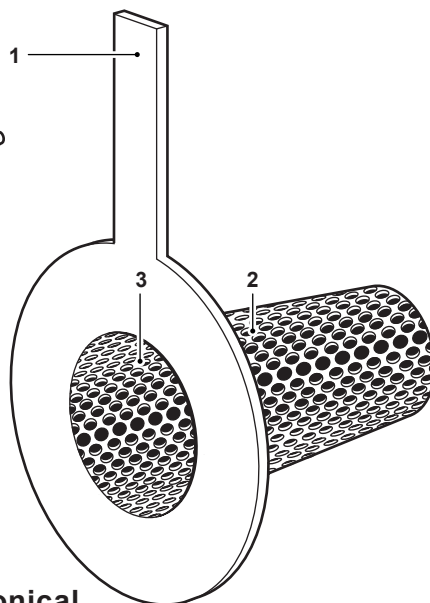
No.	Part	Material
1	Collar	Stainless steel AISI 304L or AISI 316L
2	Screen	Stainless steel AISI 304L or AISI 316L
3	Mesh lining	Stainless steel AISI 304L or AISI 316L

Please note

The spacer ring handle is painted blue to differentiate it from a temporary strainer when fitted between the flanges on the pipeline.

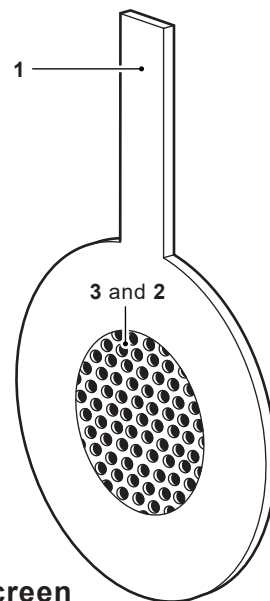
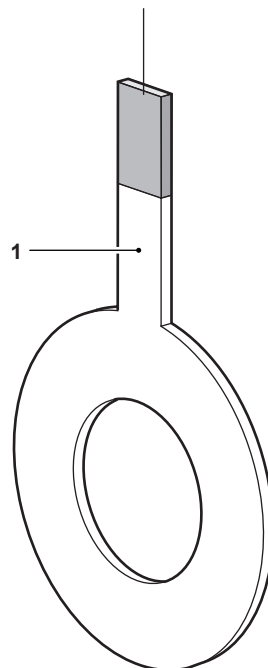


TP1 Conical



TP2 Truncated conical

Spacer ring



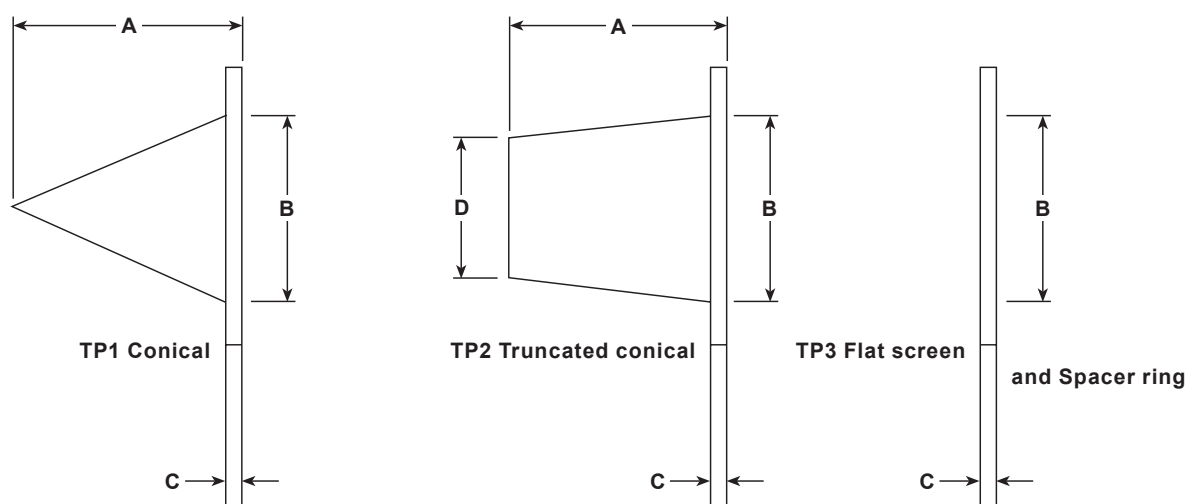
TP3 Flat screen

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	3 mm (standard), 1.6 mm and 6 mm. Contact Spirax Sarco for availability of perforations not displayed.
Mesh	M40, M100 and M200. Contact Spirax Sarco for availability of mesh screens not displayed.
Screen material	AISI 304L (standard), AISI 316L and Monel 400.
Specific surface finish for collar	Ra 0.025 µm to 50 µm.

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

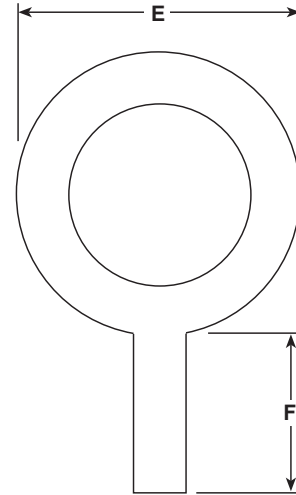


Size	A						B		C		D		Weight *			
	100% column = The standard unit												PN		ASME	
	(100%)		(150%)		(200%)											
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	kg	lb	kg	lb
DN40 - 1½"	50	1.97	100	3.94	140	5.51	31	1.22	2	0.08	20	0.79	0.30	0.66	0.24	0.53
DN50 - 2"	68	2.68	115	4.53	150	5.91	44	1.73			32	1.26	0.38	0.84	0.30	0.66
DN65 - 2½"	88	3.46	140	5.51	180	7.09	56	2.20			38	1.50	0.45	0.99	0.40	0.88
DN80 - 3"	108	4.25	165	6.50	230	9.06	67	2.64			50	1.97	0.65	1.43	0.60	1.32
DN100 - 4"	140	5.51	215	8.46	290	11.4	88	3.46			65	2.56	1.00	2.20	0.60	1.32
DN125 - 5"	173	6.81	268	10.6	355	14.0	117	4.61			83	3.27	1.30	2.87	1.10	2.43
DN150 - 6"	210	8.27	330	13.0	430	16.9	139	5.47			105	4.13	2.00	4.41	1.60	3.53
DN200 - 8"	282	11.1	430	16.9	585	23.0	181	7.13	3	0.12	145	5.71	3.60	7.94	2.80	6.17
DN250 - 10"	355	14.0	535	21.1	685	27.0	228	8.98			185	7.28	5.00	11.0	3.90	8.60
DN300 - 12"	427	16.8	635	25.0	825	32.5	276	10.9			225	8.86	6.50	14.3	5.30	11.7
DN350 - 14"	477	18.8	660	26.0	890	35.0	320	12.6			260	10.2	8.40	18.5	6.40	14.1
DN400 - 16"	558	22.0	750	29.5	990	39.0	368	14.5	5	0.20	300	11.8	11.80	26.0	9.20	20.3
DN450 - 18"	670	26.4	840	33.1	1120	44.1	415	16.3			345	13.6	12.40	27.3	11.60	25.6
DN500 - 20"	704	27.7	940	37.0	1245	49.0	466	18.3			380	15.0	14.60	32.2	13.50	29.8
DN600 - 24"	848	33.4	1120	44.1	1475	58.1	568	22.4			460	18.1	20.30	44.8	18.60	41.0
DN700 - 28"	993	39.1	1538	60.6	2072	81.6	686	27.0			550	21.7	27.80	61.3	26.00	57.3

* Please note that the weights displayed are approximate and **only applicable for the TP1 and TP2**

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

All variants



Size	E														F	
	PN10		PN16		PN25		PN40		ASME 150		ASME 300		ASME 600		mm	inches
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches		
DN40 - 1½"	88	3.15	88	3.15	88	3.15	88	3.15	80	3.15	90	3.54	90	3.54	102	4.02
DN50 - 2"	102	4.02	102	4.02	102	4.02	102	4.02	98	3.86	105	4.13	105	4.13		
DN65 - 2½"	122	4.80	122	4.80	122	4.80	122	4.80	117	4.61	124	4.88	124	4.88		
DN80 - 3"	138	5.43	138	5.43	138	5.43	138	5.43	130	5.12	143	5.63	143	5.63		
DN100 - 4"	158	6.22	158	6.22	162	6.38	162	6.38	168	6.61	175	6.89	187	7.36		
DN125 - 5"	188	7.40	188	7.40	188	7.40	188	7.40	191	7.52	210	8.27	235	9.25	127	5
DN150 - 6"	212	8.35	212	8.35	218	8.58	218	8.58	216	8.50	245	9.65	260	10.2		
DN200 - 8"	268	10.6	268	10.6	278	10.9	285	11.2	275	10.8	302	11.9	314	12.4		
DN250 - 10"	320	12.6	320	12.6	335	13.2	345	13.6	333	13.1	356	14.0	394	15.5	153	6.02
DN300 - 12"	370	14.6	378	14.9	395	15.6	410	16.1	403	15.9	416	16.4	450	17.7		
DN350 - 14"	430	16.9	438	17.2	450	17.7	465	18.3	445	17.5	479	18.9	486	19.1		
DN400 - 16"	482	19.0	490	19.3	505	19.9	535	21.1	508	20	533	21.0	560	22.0		
DN450 - 18"	532	20.9	550	21.7	555	21.9	560	22.0	543	21.4	591	23.3	605	23.8	203	7.99
DN500 - 20"	585	23.0	610	24.0	615	24.2	615	24.2	600	23.6	648	25.5	675	26.6		
DN600 - 24"	685	27.0	725	28.5	720	28.3	735	28.9	711	28.0	768	30.2	784	30.9		
DN700 - 28"	800	31.5	795	31.3	820	32.3	840	33.1	800	31.5	800	31.5	800	31.5		

Size	Weight *			
	PN		ASME	
	kg	lb	kg	lb
DN40 - 1½"	0.30	0.66	0.24	0.53
DN50 - 2"	0.38	0.84	0.30	0.66
DN65 - 2½"	0.45	0.99	0.40	0.88
DN80 - 3"	0.65	1.43	0.60	1.32
DN100 - 4"	1.00	2.20	0.60	1.32
DN125 - 5"	1.30	2.87	1.10	2.43

Size	Weight *			
	PN		ASME	
	kg	lb	kg	lb
DN150 - 6"	2.00	4.41	1.60	3.53
DN200 - 8"	3.60	7.94	2.80	6.17
DN250 - 10"	5.00	11.0	3.90	8.60
DN300 - 12"	6.50	14.3	5.30	11.7
DN350 - 14"	8.40	18.5	6.40	14.1
DN400 - 16"	11.80	26.0	9.20	20.3

Size	Weight *			
	PN		ASME	
	kg	lb	kg	lb
DN450 - 18"	12.40	27.3	11.60	25.6
DN500 - 20"	14.60	32.2	13.50	29.8
DN600 - 24"	20.30	44.8	18.60	41.0
DN700 - 28"	27.80	61.3	26.00	57.3

* Please note that the weights displayed are approximate and only applicable for the TP1 and TP2

Safety information, installation and maintenance

For full details see the installation and maintenance instructions (IM-P169-07) supplied with the product.

Warning

Carry strainers with gloves.

Disposal

These products are recyclable. No ecologic hazard is anticipated with disposal of these products providing due care is taken.

How to order

Example: 1 off Spirax Sarco DN100 TP1 temporary conical shaped strainer having the standard 100% stainless steel screen with 3 mm perforations, for installation between EN 1092 PN25 flanges.