



In-Line Filter TFS01



Angle Type Filter TFA01



Y type Filter TFY01



Y type Filter TFY02

ORDERING INFORMATION

Product Series	TFS	In-Line Filter	Size	DIN11850	
	TFA	Angle Type Filter		025	DN25
	TFY	Y type Filter		032	DN32
	TFD	DUPLEX TUBE FILTER		040	DN40
Item No.	01	Model No.01		...	...
	02	Model No.02		100	DN100
	03	Model No.03		3A	
Connection	11	Weld/Weld		100	1"
	22	Clamp/Clamp		150	1.5"
	33	Male/Male		200	2"
	44	Liner/Liner	...		
	55	Flange/Flange	400	4"	
Body Material	4	SS304	Screen Type	W	Wedge Wire
	6	SS316L		P	Perforated Plate
Gasket Material	1	Silicon	Mesh Size	08	Mesh 80
	2	EPDM		10	Mesh 100
	3	Viton		15	Mesh 150
	4	NBR		20	Mesh 200
Standard	1	3A		25	Mesh 250
	2	DIN 11850		30	Mesh 300
	3	SMS		40	Mesh 400

Ordering Information:

Model:	TFS	01	11	4	1	1	150	P	10
Product Series		Item No.	Connection	Body Material	Gasket Material	Standard	Connection Size	Screen Type	Mesh Size

Example: Weld In-Line Filter TFS01, 3A 1.5", SS304, Silicon gasket with Perforated Plate Screen, 100Mesh

FILTER TFS & TFA & TFY SERIES

APPLICATION

Filters have a wide range of applications in the food-processing, cosmetics and some chemical industries as well as in auxiliary services of the pharmaceutical industry. They have a hygienic design and are used to filter particles capable of damaging pumps and other equipments.



Wedge Wire



Perforated Plate

FEATURES AND DESIGN

- Cleaning of the screen without disassembling the filter for Angle type Filter TFA and Y type Filter TFY
- Cleaning of the screen disassembling the filter for In-line Filter TFS
- Low pressure drops.
- Perforated Plate screen standard with 2mm holes, on request available from Ø 0,5 mm to Ø 3 mm.
- Metal screen mesh with 100 meshes, on request available 80 to 400 meshes

OPERATING CONDITIONS

Working Pressure: 8Bar
Working Temperature: -10°C to 120°C(Silicon)

MATERIAL

Wetting Parts: SS304/SS316L
Slotted cover nut: SS304
Gasket Material: Silicon per FDA 177.2600

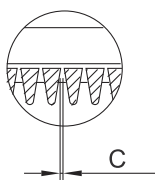
SURFACE FINISHING

Satin or Mirror Polishing

OPTIONS

Seal Material: EPDM, FPM per FDA 177.2600
Wedge Wire Screen options available

SCREEN: WEDGE WIRE



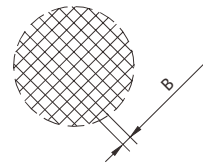
Mesh equiv.	C(mm)	Useful surface(%)
40	0.40	28
60	0.30	23
80	0.20	17
165	0.10	10
325	0.05	5

SCREEN: PERFORATED PLATE



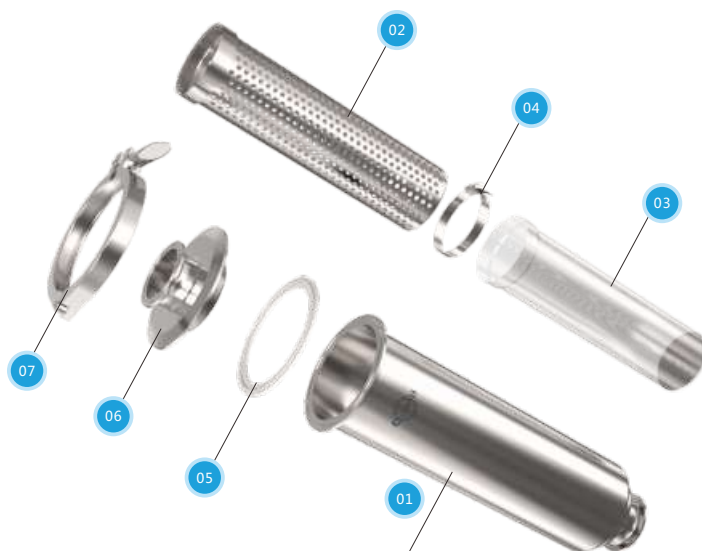
A(mm)	Useful surface(%)
0.5	15
1	28
2	30
5	46
10x1	20

SCREEN: WIRE MESH

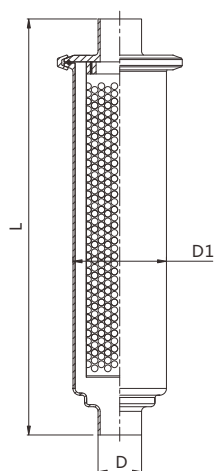


Mesh	Wire Diameter(mm)	Aperture(mm)
80	0.12	0.198
100	0.1	0.154
120	0.08	0.132
150	0.065	0.104
200	0.053	0.074
250	0.04	0.061
300	0.035	0.049
350	0.03	0.042
400	0.025	0.0385

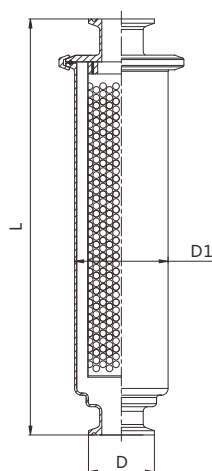
IN-LINE FILTER TFS01



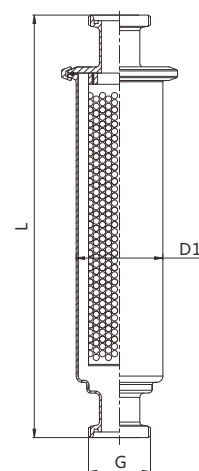
Item	Description	Material
1	Filter House	SS304/SS316L
2	Perforated Plate Screen	SS304/SS316L
3	Wire Mesh Screen	SS304/SS316L
4	Hose Clamp	SS304
5	Tri Clamp Gasket	Silicon
6	Cap	SS304/SS316L
7	Clamp	SS304



Weld Connection



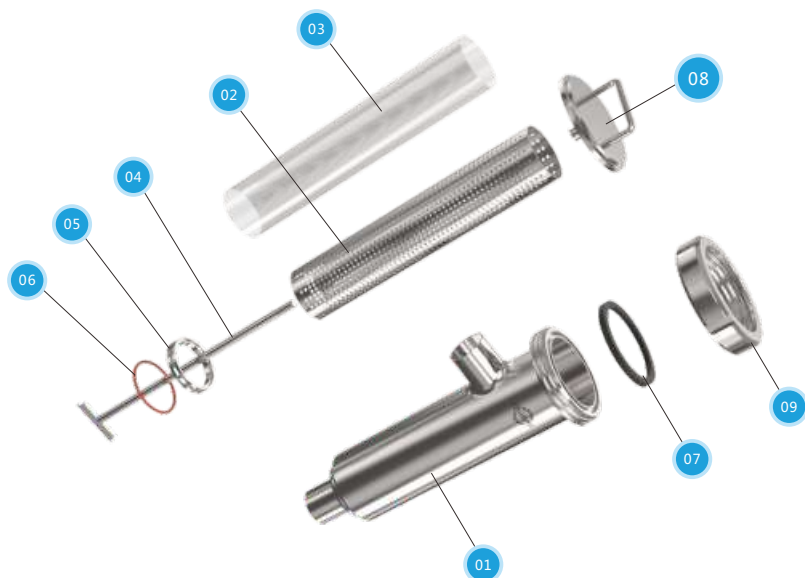
Clamp Connection



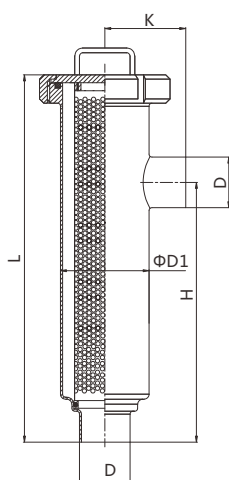
Thread Connection

Size	D1	D		G	L		
		Weld	Clamp	Thread	Weld	Clamp	Thread
1"	76.1	25.4	50.5	RD40*1/6	350	393	388
1.5"	76.1	38.1	50.5	RD60*1/6	350	393	396
2"	101.6	50.8	64	RD70*1/6	380	423	426
2.5"	101.6	63.5	77.5	RD85*1/6	400	443	454
3"	114.3	76.2	91	RD98*1/6	500	543	554
4"	139.7	101.6	119	RD132*1/6	600	643	660
DN25	76.1	28	50.5	RD52*1/6	350	393	408
DN40	76.1	40	50.5	RD65*1/6	350	393	416
DN50	101.6	52	64	RD78*1/6	380	423	450
DN65	101.6	70	91	RD95*1/6	400	456	480
DN80	114.3	85	106	RD110*1/6	500	556	590
DN100	139.7	104	119	RD130*1/4	600	656	708

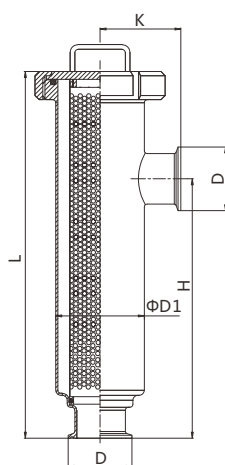
ANGLE TYPE FILTER TFA01



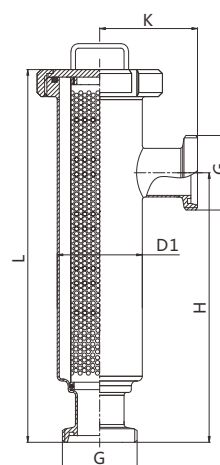
Item	Description	Material
1	Filter House	SS304/SS316L
2	Perforated Plate Screen	SS304/SS316L
3	Wire Mesh Screen	SS304/SS316L
4	Locating Rod	SS304/SS316L
5	Gasket Holder	SS304/SS316L
6	O-Ring	Silicon
7	Union Gasket	Silicon
8	Cap	SS304/SS316L
9	Nut	SS304



Weld Connection



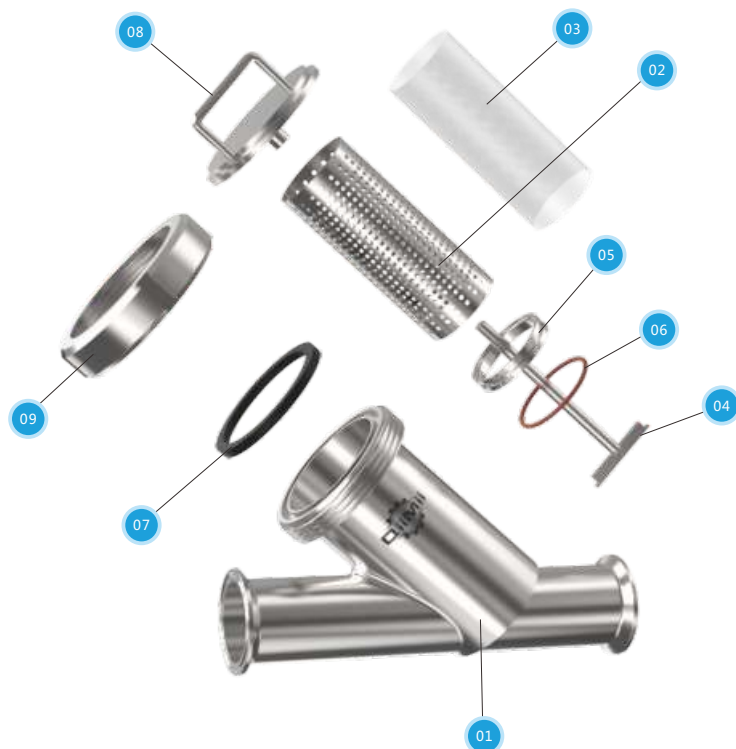
Clamp Connection



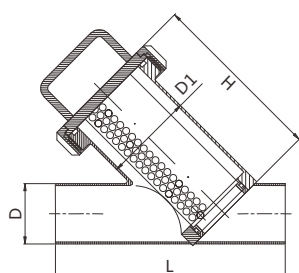
Thread Connection

Size	D1	D			K			H			L		
		Weld	Clamp	Thread	Weld	Clamp	Thread	Weld	Clamp	Thread	Weld	Clamp	Thread
1"	76.1	25.4	50.5	RD40*1/6	73	94.5	92	240	261.5	259	315	336.5	334
1.5"	76.1	38.1	50.5	RD60*1/6	73	94.5	96	240	261.5	263	315	336.5	338
2"	101.6	50.8	64	RD70*1/6	96	117.5	119	304	325.5	327	410	431.5	433
2.5"	101.6	63.5	77.5	RD85*1/6	96	117.5	123	350	371.5	377	455	476.5	482
3"	114.3	76.2	91	RD98*1/6	115	136.5	142	415	436.5	442	560	581.5	587
4"	139.7	101.6	119	RD132*1/6	130	151.5	160	450	471.5	480	600	621.5	630
DN25	76.1	28	50.5	RD52*1/6	73	94.5	102	240	261.5	269	315	336.5	344
DN40	76.1	40	50.5	RD65*1/6	73	94.5	105	240	261.5	272	315	336.5	347
DN50	101.6	52	64	RD78*1/6	96	117.5	129	304	325.5	337	410	431.5	443
DN65	101.6	70	91	RD95*1/6	96	124	131	350	378	385	455	483	490
DN80	114.3	85	106	RD110*1/6	115	143	155	415	443	455	560	588	600
DN100	139.7	104	119	RD130*1/4	130	158	175	450	478	495	600	628	645

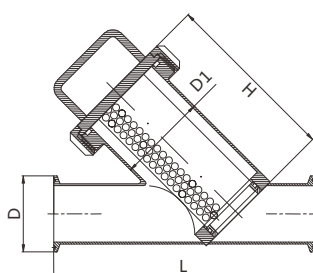
Y TYPE FILTER TFY01



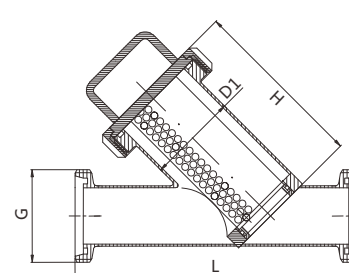
Item	Description	Material
1	Filter House	SS304/SS316L
2	Perforated Plate Screen	SS304/SS316L
3	Wire Mesh Screen	SS304/SS316L
4	Locating Rod	SS304/SS316L
5	Gasket Holder	SS304/SS316L
6	O-Ring	Silicon
7	Union Gasket	Silicon
8	Cap	SS304/SS316L
9	Nut	SS304



Weld Connection



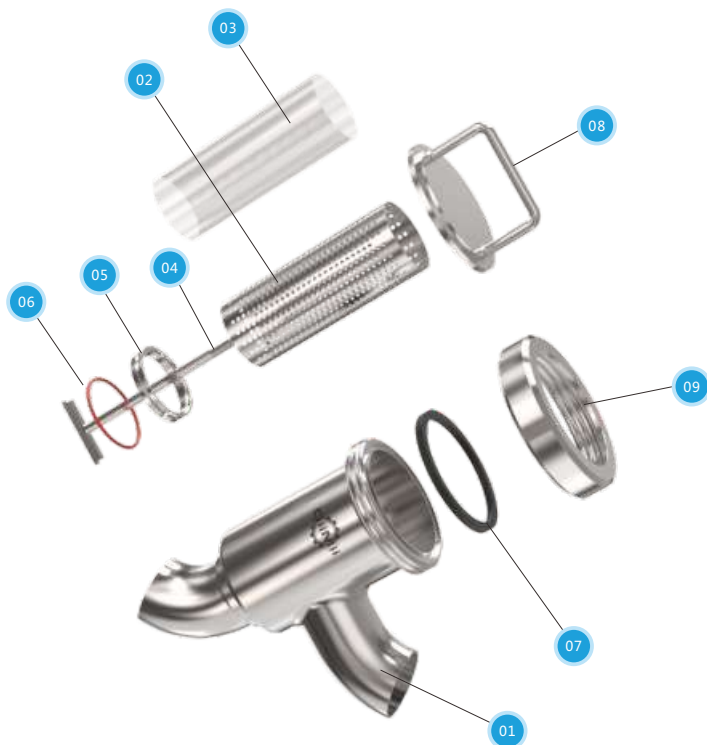
Clamp Connection



Thread Connection

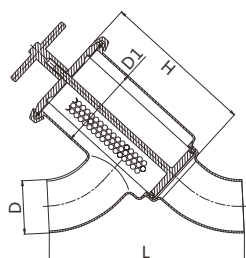
Size	D1	D		G	H	L		
		Weld	Clamp			Weld	Clamp	Thread
1"	45	25.4	50.5	RD40*1/6	100	130	173	168
1.5"	63	38.1	50.5	RD60*1/6	120	175	218	221
2"	76	50.8	64	RD70*1/6	145	210	253	256
2.5"	89	63.5	77.5	RD85*1/6	175	245	288	299
3"	102	76.2	91	RD98*1/6	195	280	323	334
4"	140	101.6	119	RD132*1/6	255	360	403	420
DN25	45	28	50.5	RD52*1/6	100	130	173	188
DN40	63	40	50.5	RD65*1/6	120	175	218	239
DN50	76	52	64	RD78*1/6	145	210	253	276
DN65	102	70	91	RD95*1/6	195	260	316	330
DN80	114	85	106	RD110*1/6	255	300	356	380
DN100	140	104	119	RD130*1/4	255	360	416	450

Y TYPE FILTER TFY02

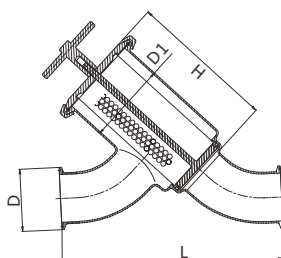


Item	Description	Material
1	Filter House	SS304/SS316L
2	Perforated Plate Screen	SS304/SS316L
3	Wire Mesh Screen	SS304/SS316L
4	Locating Rod	SS304/SS316L
5	Gasket Holder	SS304/SS316L
6	O-Ring	Silicon
7	Union Gasket	Silicon
8	Cap	SS304/SS316L
9	Nut	SS304

Y TYPE FILTER TFY02



Weld Connection



Clamp Connection

Size	D1	D		G	H	L		
		Weld	Clamp	Thread		Weld	Clamp	Thread
1"	51	25.4	50.5	RD40*1/6	100	140	183	178
1.5"	76	38.1	50.5	RD60*1/6	145	165	208	211
2"	89	50.8	64	RD70*1/6	165	210	253	256
2.5"	102	63.5	77.5	RD85*1/6	195	245	288	299
3"	102	76.2	91	RD98*1/6	195	280	323	334
4"	140	101.6	119	RD132*1/6	255	360	403	420
DN25	51	28	50.5	RD52*1/6	100	140	183	198
DN40	76	40	50.5	RD65*1/6	145	165	208	229
DN50	89	52	64	RD78*1/6	165	210	253	276
DN65	102	70	91	RD95*1/6	195	280	336	350
DN80	114	85	106	RD110*1/6	225	300	356	380
DN100	140	104	119	RD130*1/4	255	360	416	450

DUPLEX TUBE FILTER TFD

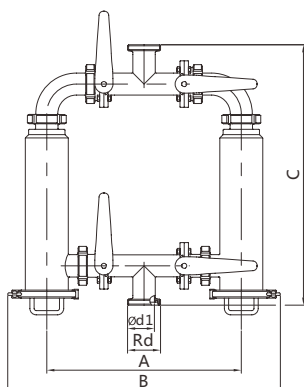
APPLICATION

TFD Hygienic Duplex Filter Assembly consisting of 4pcs butterfly valves VBN and 2pcs Angle type Filters TFA. Stainless Steel 304 or 316L, clamp end connections to ASME BPE. Silicon Seals (-10°C to +120°C) according to FDA 177.2600



FEATURES AND DESIGN

- Perforated Plate screen standard with Ø 2mm holes, on request available from Ø 0,5 mm to Ø 3 mm.
- Metal screen mesh with 100 mesh, on request available 80 to 400 meshes
- Wedge Wire Screen options available
- Size available: DN25 (1") to DN100 (4").
- Available in standard setup
- Available with preparation for pressure gauge



CLAMP DUPLEX TUBE FILTER

Size	d1	Rd	A	B	C
1"	22.1	50.5	342.2	387.7	432.9
1.5"	34.8	50.5	363.4	408.9	471.2
2"	47.5	64	451.4	510.9	592.2
2.5"	60.2	77.5	455.4	514.9	657.3
3"	72.9	91	508.2	573.2	754.1
4"	97.4	119	583.8	661.3	868.2

SANITARY FILTER HOUSING TFM

APPLICATION

TFM sanitary filter housing is designed for sanitary, pharmaceutical, biological, biotechnological, food and beverage applications, constructed in stainless steel 304 or 316L with a crevice free design. Designed for hot water, chemical and steam sterilisation. Ideal for use with filter cartridges ranging from clarification to sterilising grade membranes. Suitable for applications where CIP and SIP cleaning and sterilization procedures are required.

MATERIAL

Cartridge housing material: SS304/SS316L

Clamp: SS304

Tri clamp Gasket: Silicon per FDA 177.2600

Venting (optional): SS304/SS316L

Draining (optional): SS304/SS316L



SURFACE FINISHING

Inner surface: Mechanical polished, surface roughness < 0.4 μm

Outer surface: Mechanical polished, surface roughness < 0.8 μm

OPERATING CONDITIONS

Max. operating temperature: -10°C to 120°C(Silicon)

Max. operating pressure: 8 bar up to 40 °C

Steam Sterilization: 121°C/ 30 min

CONNECTION

Body Connection: Tri-Clamp Closure (Single Round) / Swing Bolt Closures(Multi-Round)

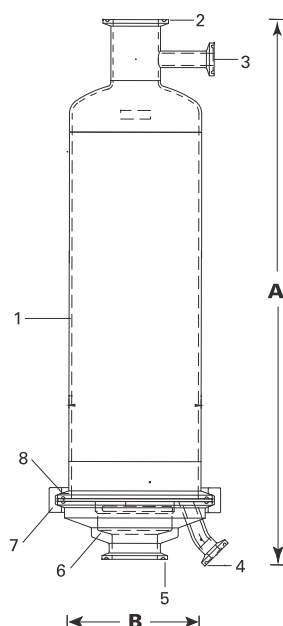
Inlet/outlet: Dairy pipe fittings for dairy pipes as per DIN 11851 or weld end clamps TC for pipes as per ISO 2037 or flanges

Vent: M6 thread/TC 25.2mm

Drain: Clamp 1/2" (TC 25.2mm)

INLINE FILTER HOUSING TFM10

- High-quality and crevice free construction
- Tri-Clamp Closure
- Sanitary process, vent & drain connections
- Cartridges in 222/Fin or 226/Fin configurations
- Single cartridge
- Length of filter cartridges: 5", 10", 20"



Item	Description	Material
1	Bowl	SS304/SS316L
2	Inlet	SS304/SS316L
3	Vent	SS304/SS316L
4	Drain	SS304/SS316L
5	Outlet	SS304/SS316L
6	Head assembly	SS304/SS316L
7	Housing Clamp	SS304
8	Housing gasket	Silicon

Model No	Cartridges			B	A	Inlet & Outlet	
	Qty	Length	configurations			Connection	Size
TFM1005S22411100	1	5"	226	101.6	300	Clamp	1"
TFM1010S22411100	1	10"	226	101.6	420	Clamp	1"
TFM1020S22411100	1	20"	226	101.6	670	Clamp	1"

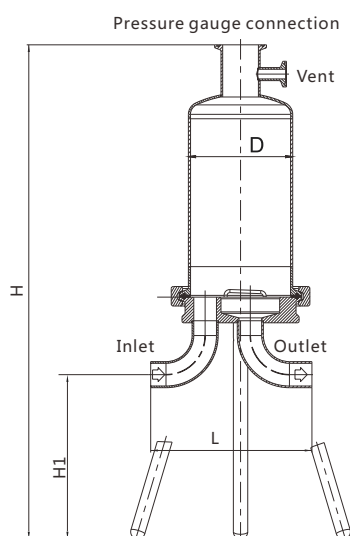
Ordering Information:

Model:TFM							
00 00 0 00 0 0 0 000							
Series No.	Filter Length	Cartridges configurations	Connection(Inlet/Outlet)	Material	Gasket	Standard	Size
10: In-Line	05: 5 Inch	S: 226/Fin	11: Weld/Weld	4: SS304	1: Silicon	1: 3A	DIN 11851 3A
1R: Single Cartridge	10: 10 Inch	T: 222/Fin	22: Clamp/Clamp	6: SS316L	2: EPDM	2: DIN	025: DN25 100: 1"
3R: 3 Cartridges	20: 20 Inch	D: DOE	33: Male/Male		3: Viton	3: SMS	032: DN32 150: 1.5"
4R: 4 Cartridges	30: 30 Inch		44: Liner/Liner		4: NBR	4: ISO/IDF	040: DN40 200: 2"
5R: 5 Cartridges	40: 40 Inch		55: Flange/Flange		5: PTFE		
6R: 6 Cartridges							150: DN150 400: 4"
7R: 7 Cartridges							

SANITARY SINGLE CARTRIDGE FILTER HOUSING TFM1R

FEATURES AND BENEFITS

- T type Design
- High-quality and crevice free construction
- Tri-Clamp Closure
- Sanitary process, vent & drain connections
- Cartridges in 222/Fin or 226/Fin configurations
- Single cartridge
- Length of filter cartridges: 10", 20", 30", 40"



Model No	Cartridges			D	H	H1	L	Inlet & Outlet	
	Qty	Length	configurations					Connection	Size
TFM1R10S22411150	1	10"	226	101.6	625	170	220	Clamp	1.5"
TFM1R20S22411150	1	20"	226	101.6	875	170	220	Clamp	1.5"
TFM1R30S22411150	1	30"	226	101.6	1125	170	220	Clamp	1.5"
TFM1R40S22411150	1	40"	226	101.6	1375	170	220	Clamp	1.5"

Ordering Information:

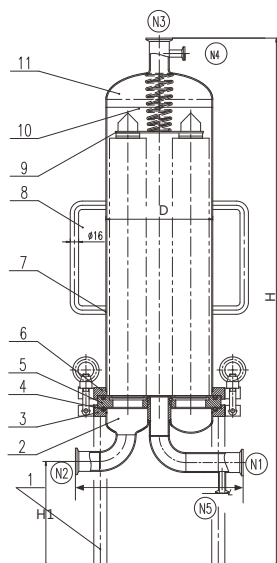
Model:TFM							
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Series No.	Filter Length	Cartridges configurations	Connection(Inlet/Outlet)	Material	Gasket	Standard	Size
10: In-Line	05: 5 Inch	S: 226/Fin	11: Weld/Weld	4: SS304	1: Silicon	1: 3A	DIN 11851 3A
1R: Single Cartridge	10: 10 Inch	T: 222/Fin	22: Clamp/Clamp	6: SS316L	2: EPDM	2: DIN	025: DN25 100: 1"
3R: 3 Cartridges	20: 20 Inch		33: Male/Male		3: Viton	3: SMS	032: DN32 150: 1.5"
4R: 4 Cartridges	30: 30 Inch		44: Liner/Liner		4: NBR	4: ISO/IDF	040: DN40 200: 2"
5R: 5 Cartridges	40: 40 Inch		55: Flange/Flange		5: PTFE		...
6R: 6 Cartridges							150: DN150 400: 4"
7R: 7 Cartridges							

SANITARY MULTI-CARTRIDGE FILTER HOUSING

TFM

FEATURES AND BENEFITS

- High-quality and crevice free construction
- Swing Bolt Closures
- Sanitary process, vent & drain connections
- Cartridges in DOE, 222/Fin or 226/Fin configurations
- Number of filter cartridges: 3,4,5,6,7,8,9
- Length of filter cartridges: 10", 20", 30", 40"



PARTS LIST

Item	Description	Material
1	Leg	SS304
2	Head Assembly	SS304/SS316L
3	Lower Flange	SS304/SS316L
4	Housing Gasket	Silicon
5	Plate	SS304/SS316L
6	Upper Flange	SS304/SS316L
7	Bowl	SS304/SS316L
8	Handle	SS304
9	Plate	SS304/SS316L
10	Spring	SS304/SS316L
11	Cap	SS304/SS316L
12	Swing Bolt	SS304

PIPE CONNECTION

Item	Description	Connection	Size
N1	Inlet	Clamp/Weld	1.5"
N2	Outlet	Clamp/Weld	1.5"
N3	Pressure Gauge Connection	Clamp	1.5"
N4	Vent	Clamp	1/2"
N5	Drain	Clamp	1/2"

Model No	Cartridges			D	H	H1	L	Inlet & Outlet	
	Qty	Length	configurations					Connection	Size
TFM3R10S22411150	3-4	10"	226	204	760	200	320	Clamp	1.5"
TFM3R20S22411150	3-4	20"	226	204	1010	200	320	Clamp	1.5"
TFM3R30S22411150	3-4	30"	226	204	1260	200	320	Clamp	1.5"
TFM3R40S22411150	3-4	40"	226	204	1610	200	320	Clamp	1.5"
TFM5R10S22411200	5-6	10"	226	235	780	200	320	Clamp	2"
TFM5R20S22411200	5-6	20"	226	235	1030	200	320	Clamp	2"
TFM5R30S22411200	5-6	30"	226	235	1280	200	320	Clamp	2"
TFM5R40S22411200	5-6	40"	226	235	1530	200	320	Clamp	2"
TFM7R10S22411250	7-8	10"	226	273	805	200	400	Clamp	2.5"
TFM7R20S22411250	7-8	20"	226	273	1055	200	400	Clamp	2.5"
TFM7R30S22411250	7-8	30"	226	273	1305	200	400	Clamp	2.5"
TFM7R40S22411250	7-8	40"	226	273	1555	200	400	Clamp	2.5"

Ordering Information:

Model: TFM 00 00 0 00 0 0 0 000								
Series No.	Filter Length	Cartridges configurations	Connection(Inlet/Outlet)	Material	Gasket	Inlet & Outlet connection Standard	Size	
3R: 3 Cartridges	10: 10 Inch	S: 226/Fin	11: Weld/Weld	4: SS304	1: Silicon	1: 3A	DIN 11851	3A
4R: 4 Cartridges	20: 20 Inch	T: 222/Fin	22: Clamp/Clamp	6: SS316L	2: EPDM	2: DIN	025: DN25	100: 1"
5R: 5 Cartridges	30: 30 Inch	D: DOE	33: Male/Male		3: Viton	3: SMS	032: DN32	150: 1.5"
6R: 6 Cartridges	40: 40 Inch		44: Liner/Liner		4: NBR	4: ISO/IDF	040: DN40	200: 2"
7R: 7 Cartridges			55: Flange/Flange		5: PTFE			
8R: 8 Cartridges								

SANITARY REBREATHER TFR SERIES

CONCEPT

TFR Series rebreather is a kind of filter which will be installed on the top of tank, it prevents the outside particulates coming into the storage tank due to liquid level descends. It ensures the air purity in the tank.

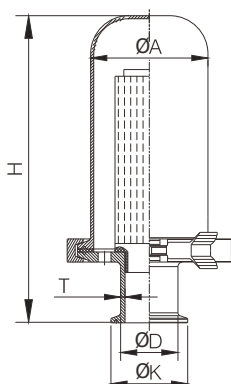


TECHNICAL DATA

- Housing Material: SS304 or SS316L
- Filter Material: PP, PTFE, Nylon or PE
- Filter Precision: 0.1-60um (0.22um is the standard)

FEATURES

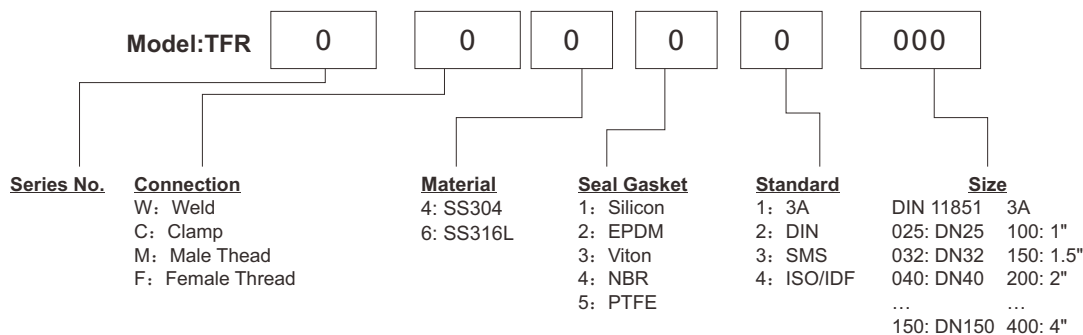
- 4" Filter Housing Diameter
- Internal and External mirror or satin polished.
- Different connection way for option: Clamp, Thread, Weld or Flange



CLAMP REBREATHER

Model No	Size	D	K	A	H
TFR01C411100	1"	25.4	50.5	101.6	180
TFR01C411125	1 1/4"	31.8	50.5	101.6	180
TFR01C411150	1 1/2"	38.1	50.5	101.6	180
TFR01C411200	2"	50.8	64	101.6	180
TFR01C412025	DN25	28	50.5	101.6	180
TFR01C412032	DN32	34	50.5	101.6	180
TFR01C412040	DN40	40	50.5	101.6	180
TFR01C412050	DN50	52	64	101.6	180

Ordering Information:



Note

Note

