

Gas/Liquid Separators

Type TF Separator Filter Series

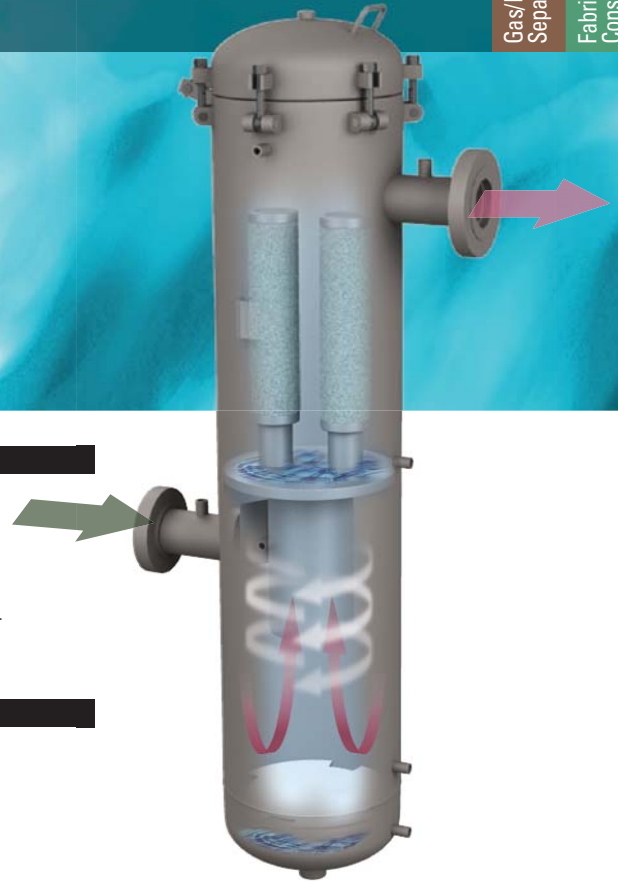
- Sizes 2 1/2" to 16"
- Two-Stage Design for Maximum Efficiency
- Carbon Steel
- Flanged Connections
- Vertical Flow

FEATURES

- Fabricated Construction
- High Efficiency Over Wide Flow Range
- Removes 99% of Liquid and Solid Entrainment Particles Larger than 0.3 Microns - Dependent on Installed Filter
- Gas, Steam or Air Applications

OPTIONS

- High Pressure Models
- Support Legs
- ASME U Code Stamp



The two-stage Eaton Type TF Separator/Filter removes 99% of all particles larger than 10 microns and is for applications requiring extremely fine entrainment removal.

The first stage is a centrifugal separator that removes slugs and heavy liquid loads. The second stage uses coalescing filters to remove nearly all remaining droplets plus particles as small as 0.3 microns from air, gas and steam processes. The most common application for the TF Series Filter/Separator is for natural gas, but it is also suitable for those requiring highly pure output.

Exclusive Design

Moisture-laden gas enters the inlet of the separator where it is deflected in a centrifugal downward motion. The entrained solids and moisture droplets are separated out by a reduction in velocity. Separated liquid and solids fall into a reservoir where the exclusive Eaton Vortex Containment Plate (VCP) ensures that they cannot be re-entrained. This design eliminates the need for expensive, delicate baffles used in ordinary separators.

The clean, dry flow is then directed upward to the second stage where precision filters capture any additional moisture and particles to meet the exact application requirements.

Fabricated Construction

Fabricated Type TF Separators Filters are available in standard sizes from 2 1/2" to 16" in carbon steel. Stainless steel construction and other sizes can be ordered for special applications. Ports are built in for vents, gauges and drains. Additional fittings can be specified.

The filter elements are made from borosilicate microglass fibers with an epoxy saturated, glass matrix drain layer. Filter elements are available down to 0.3 microns. Eaton Type TF Separator/Filters meet ASME Code, Section VII, Division 1. ASME U code stamp is available.



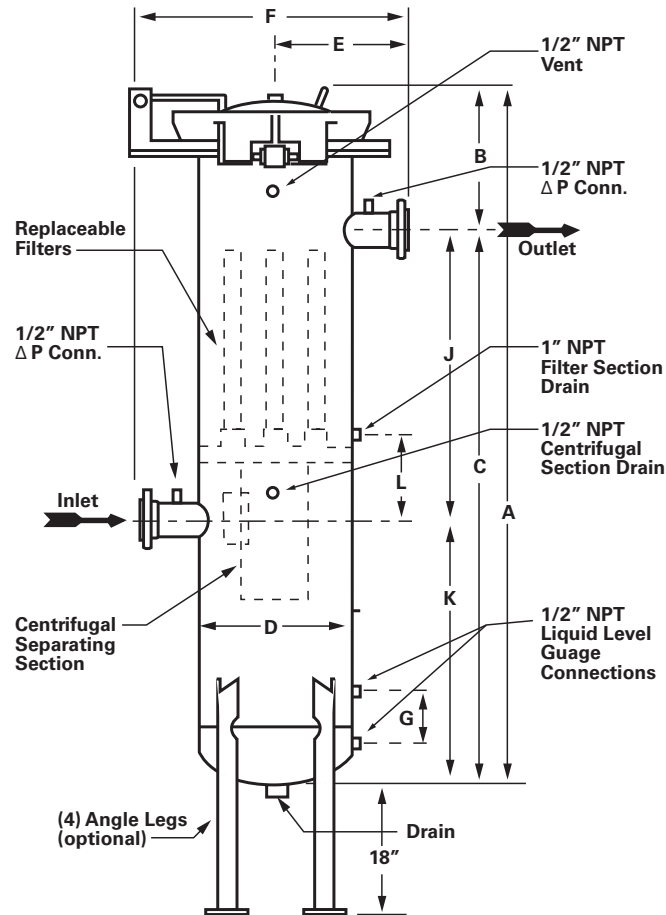
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Type TF Gas/Liquid Separator/Filter

Dimensions: Type TF (in/mm)

Pipe Size	A	B	C	D	E	F	G	J	K	L	Drain NPT	Weight (lb/kg)	
												175 psi*	305 psi*
2 1/2	67 / 1,702	8 / 203	59 / 1,499	8.63 / 219	8 / 203	16 / 406	5.75 / 1,146	44 / 1,118	15 / 381	12 / 305	1	270 / 122	285 / 129
3	72 / 1,829	9 / 229	63 / 1,600	10.75 / 273	9 / 229	18 / 457	5.75 / 1,146	45 / 1,143	18 / 457	13 / 330	1 1/2	375 / 170	390 / 177
4	79 / 2,007	10 / 254	69 / 1,753	12.75 / 324	10 / 254	20 / 508	5.75 / 1,146	47 / 1,194	22 / 559	14 / 356	1 1/2	520 / 236	535 / 243
5	85 / 2,159	11 / 279	74 / 1,880	14 / 356	11 / 279	22 / 559	7.88 / 200	48 / 1,219	26 / 660	15 / 381	1 1/2	620 / 281	650 / 295
6	92 / 2,337	12 / 305	80 / 2,032	16 / 406	12 / 305	24 / 610	7.88 / 200	50 / 1,270	30 / 762	16 / 406	1 1/2	775 / 352	820 / 372
8	103 / 2,616	14 / 356	89 / 2,261	18 / 457	14 / 356	28 / 711	7.88 / 200	52 / 1,321	37 / 940	17 / 432	2	1,055 / 479	1,140 / 517
10	127 / 3,226	18 / 457	109 / 2,769	24 / 610	17 / 432	34 / 864	7.88 / 200	54 / 1,372	55 / 1,397	18 / 457	2	1,625 / 737	1,750 / 794
12	133 / 3,378	19 / 483	114 / 2,896	28 / 711	19 / 483	38 / 965	7.88 / 200	56 / 1,422	58 / 1,473	19 / 483	2 1/2	1,795 / 814	2,140 / 971
14	140 / 3,556	22 / 559	118 / 2,997	32 / 813	21 / 533	42 / 1,067	7.88 / 200	58 / 1,473	60 / 1,524	20 / 508	2 1/2	2,345 / 1,064	3,140 / 1,424
16	153 / 3,886	25 / 635	128 / 3,251	36 / 914	23.5 / 597	47 / 1,194	7.88 / 200	60 / 1,524	68 / 1,727	21 / 533	3	3,110 / 1,411	3,960 / 1,796

* @ 450 °F (232 °C)



North America – HQ

44 Apple Street,
Tinton Falls, NJ 07724

Toll Free: 800 656-3344
(North America only)

Tel. +1 732 212-4700

Europe/Africa/Middle East

Tel. +49-2486-809-0

Brazil

Tel. +55 11 2465 8822

China

Tel. +86-21 5200 0422

Singapore

Tel. +65 6825-1668

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For more information, e-mail us at
filtration@eaton.com

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