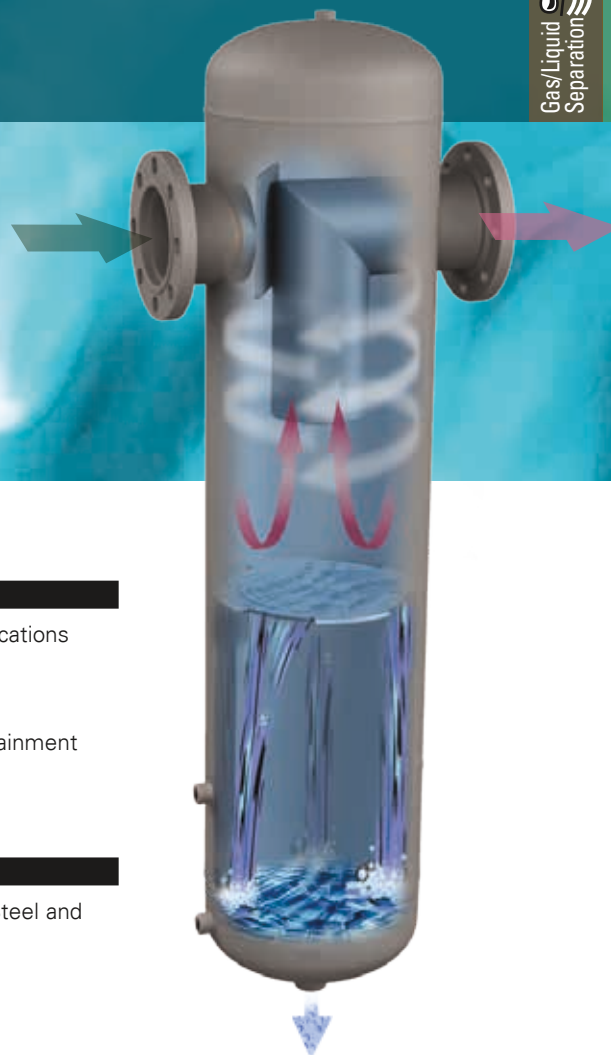


Type TS

Vertical Fabricated Construction



- Custom Sizes
- Threaded, Flanged or Socket Weld
- Carbon Steel or Stainless Steel

FEATURES

- Designed for High Liquid Loading Applications
- High Efficiency Over Wide Flow Range
- No Required Maintenance
- Removes 99% of Liquid and Solid Entrainment Particles Larger Than 10 Microns
- Gas, Steam, or Air Applications

OPTIONS

- ASME UM or U Code Stamp (Carbon Steel and Stainless Steel Models)
- Support Legs

High Efficiency – No Maintenance

The Eaton Type TS Gas/Liquid Separator automatically removes 99% of all liquid and solid entrainment particles 10 microns in size or larger from air, gas, and steam processes. And it does so with no moving parts to wear out and with no required maintenance.

Applications

The Eaton Type TS Gas/Liquid Separator is designed for applications where heavier than normal liquid loading causes a “slugging” problem. These applications are widely found in refineries and chemical plants. In many

cases, there is a liquid holdup requirement where instrumentation is provided for controlling the level of the liquid in the reservoir of the vessel. Some common applications include upstream of gas turbines, absorption towers, steam generator outlets and gas scrubbers.

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 can't be re-entrained. The clean, dry flow is then directed to the outlet by the VCP. This eliminates the need for expensive, delicate baffles used in ordinary separators.

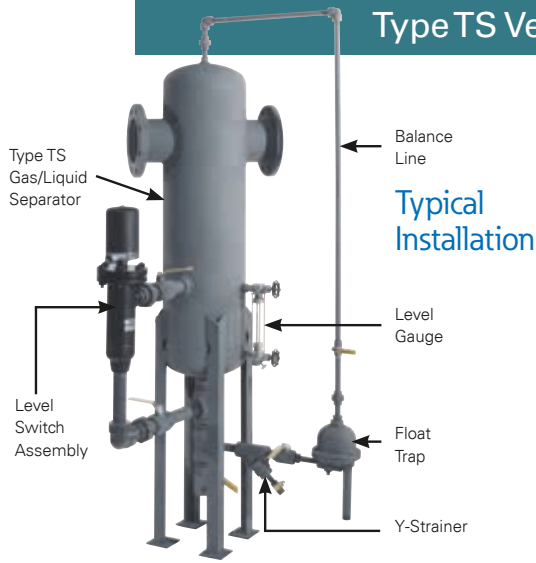
Fabricated Construction

The Type TS Separator is available in fabricated carbon steel, stainless steel, or other alloy construction with socket weld, threaded or 150 lb., 300 lb., or 600 lb. flange connections. Depending on the separator size, liquid holdup capacities range from 0.19 cu. ft. to 32.64 cu. ft., or larger should the application require. The separators can be furnished with an ASME Code Stamp as an option. Optional integral support legs can also be specified.

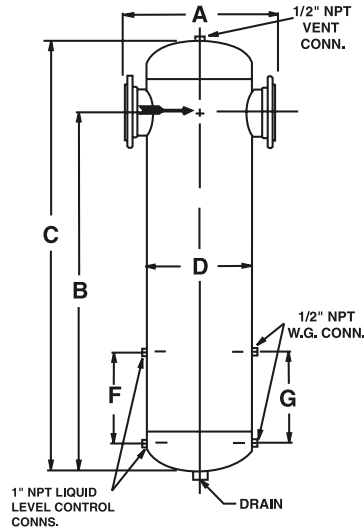


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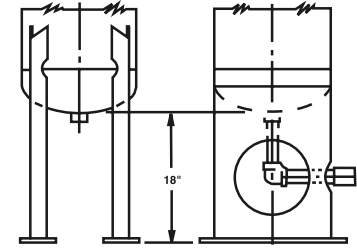
Type TS Vertical Fabricated Gas/Liquid Separators



Typical Installation



Four angle legs with base plates or skirts are optional.



Dimensions: Type TS (Carbon Steel) with ANSI Flanges (in/mm)

| Pipe Size | Threaded & Skt Weld A | Flanged A | B | C | D | F | G | NPT Std | Drain Opt'l | Weight (lb/kg) | | | Liquid Holdup Cap (cu ft/m) |
|-----------|-----------------------|------------|------------|------------|-------------|-------------|-------------|---------|-------------|--|----------------------------------|----------------------------------|-----------------------------|
| | | | | | | | | | | Thd'd & Socket Weld 1000 psig @ 650 °F | 150 lb Flanged 150 psig @ 450 °F | 300 lb Flanged 500 psig @ 650 °F | |
| 1 | 6.87 / 174 | 10.5 / 267 | 22 / 559 | 28 / 711 | 5.56 / 141 | - | 7.87 / 200 | 1 | 1-1/2 | 44 / 20 | 47 / 21 | 49 / 22 | 0.19 / 0.0053 |
| 1-1/4 | 6.87 / 174 | 10.5 / 267 | 22 / 559 | 28 / 711 | 5.56 / 141 | - | 7.87 / 200 | 1 | 1-1/2 | 45 / 20 | 50 / 23 | 52 / 24 | 0.19 / 0.0053 |
| 1-1/2 | 7.87 / 200 | 11.5 / 292 | 24 / 610 | 30 / 762 | 6.62 / 168 | 9.12 / 232 | 9.12 / 232 | 1 | 2 | 83 / 38 | 69 / 31 | 75 / 34 | 0.20 / 0.0056 |
| 2 | 7.87 / 200 | 11.5 / 292 | 24 / 610 | 30 / 762 | 6.62 / 168 | 9.12 / 232 | 9.12 / 232 | 1 | 2 | 85 / 39 | 74 / 34 | 78 / 36 | 0.20 / 0.0056 |
| 2-1/2 | - | 16 / 406 | 27 / 686 | 35 / 889 | 8.62 / 219 | 9.12 / 232 | 9.12 / 232 | 1 | 2 | - | 122 / 55 | 132 / 60 | 0.39 / 0.011 |
| 3 | - | 18 / 457 | 30 / 762 | 38 / 965 | 10.75 / 273 | 9.12 / 232 | 9.12 / 232 | 1-1/2 | 2-1/2 | - | 170 / 77 | 180 / 82 | 0.66 / 0.018 |
| 4 | - | 20 / 508 | 36 / 914 | 45 / 1143 | 12.75 / 324 | 10.25 / 260 | 10.25 / 260 | 1-1/2 | 2-1/2 | - | 225 / 102 | 250 / 114 | 1.07 / 0.03 |
| 5 | - | 22 / 559 | 40 / 1016 | 50 / 1270 | 14 / 356 | 10.25 / 260 | 10.25 / 260 | 1-1/2 | 2-1/2 | - | 265 / 120 | 335 / 152 | 1.35 / 0.04 |
| 6 | - | 24 / 610 | 55 / 1397 | 66 / 1676 | 16 / 406 | 10.25 / 260 | 10.25 / 260 | 1-1/2 | 2-1/2 | - | 400 / 182 | 435 / 198 | 3.03 / 0.084 |
| 8 | - | 28 / 711 | 62 / 1575 | 75 / 1905 | 18 / 457 | 11.87 / 301 | 11.87 / 301 | 2 | 3 | - | 545 / 248 | 700 / 318 | 3.83 / 0.107 |
| 10 | - | 34 / 864 | 76 / 1930 | 91 / 2311 | 24 / 610 | 11.87 / 301 | 11.87 / 301 | 2 | 3 | - | 800 / 364 | 1355 / 616 | 6.94 / 0.194 |
| 12 | - | 38 / 965 | 82 / 2083 | 99 / 2515 | 28 / 711 | 11.87 / 301 | 11.87 / 301 | 2-1/2 | 4* | - | 1090 / 495 | 1735 / 789 | 11.74 / 0.33 |
| 14 | - | 42 / 1067 | 89 / 2261 | 108 / 2743 | 32 / 813 | 12.62 / 321 | 12.62 / 321 | 2-1/2 | 4* | - | 1335 / 607 | 2535 / 1152 | 16.81 / 0.47 |
| 16 | - | 47 / 1194 | 98 / 2489 | 119 / 3023 | 36 / 914 | 12.62 / 321 | 12.62 / 321 | 3 | 5* | - | 1850 / 841 | 3200 / 1455 | 20.22 / 0.57 |
| 18 | - | 54 / 1372 | 108 / 2743 | 132 / 3353 | 42 / 1067 | 12.62 / 321 | 12.62 / 321 | 3 | 5* | - | 2600 / 1182 | 5025 / 2284 | 22.99 / 0.64 |
| 20 | - | 62 / 1575 | 118 / 2997 | 145 / 3683 | 48 / 1219 | 15 / 381 | 15 / 381 | 3 | 5* | - | 3275 / 3275 | 6480 / 2945 | 26.47 / 0.74 |
| 22 | - | 64 / 1626 | 121 / 3073 | 149 / 3785 | 48 / 1219 | 15 / 381 | 15 / 381 | 3 | 5* | - | 3450 / 1568 | 7000 / 3182 | 26.47 / 0.74 |
| 24 | - | 70 / 1778 | 127 / 3226 | 158 / 4013 | 54 / 1372 | 15 / 381 | 15 / 381 | 4* | 6* | - | 4940 / 2245 | 9020 / 4100 | 32.64 / 0.91 |

* Flanged drain

Note: Type TS Separators are of welded steel construction in accordance with ASME code for unfired pressure vessels. Available in stainless steel on request. Inlet and outlet connections can be rotated radially, if specified.

North America
44 Apple Street
Tinton Falls, NJ 07724
Toll Free: 800 656-3344
(North America only)
Tel: +1 732 212-4700

China
No. 3, Lane 280,
Linhong Road
Changning District, 200335
Shanghai, P.R. China
Tel: +86 21 5200-0099

For more information, please email us at filtration@eaton.com or visit www.eaton.com/filtration

US
07-2019

Europe/Africa/Middle East
Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Singapore
100G Pasir Panjang Road #07-08
Singapore 118523
Tel: +65 6825-1668

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Friedensstraße 41
68804 Aitlußheim, Germany
Tel: +49 6205 2094-0
An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

Brazil
Av. Ermano Marchetti, 1435 -
Água Branca, São Paulo - SP,
05038-001, Brésil
Tel: +55 11 3616-8461



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