

Gas/Liquid Separators

In-Line
T-Type

Coalescers
Two Stage
Internal

Exhaust Heads
Drain Traps

**Solving Your Need
for Cleaner and
Drier Air, Gas
& Steam
With Smarter
Technology**

EATON

Powering Business Worldwide

Monarch Group - Filters, Strainers & Separators

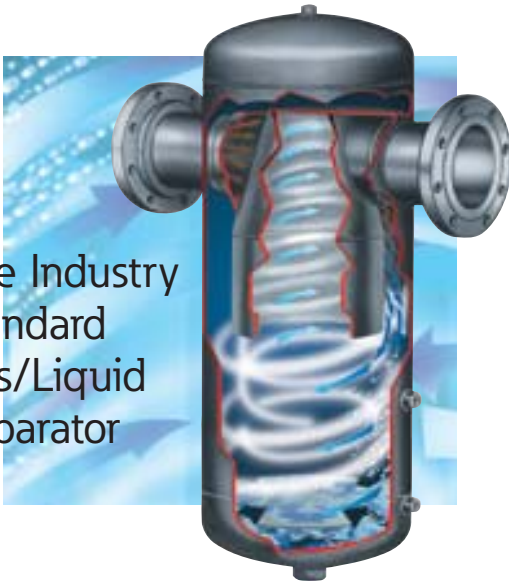
Australia - www.monarchindustrial.com.au

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Type T Gas/Liquid Separators

Sizes 1" to 24" • Carbon Steel and Stainless Steel

The Industry
Standard
Gas/Liquid
Separator



FEATURES

- Fabricated Construction
- High Efficiency Over Wide Flow Range
- No Required Maintenance
- Economical Choice for Most Applications
- Removes 99% of Liquid and Solid Entrainment Particles Larger Than 10 Micron
- Gas, Steam or Air Applications

OPTIONS

- ASME UM or U Code Stamp
- Hundreds of Design Options to Conform to Application Requirements
- Support Legs

High Efficiency – No Maintenance

The Eaton Type T 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 they do it with no moving parts to wear out and with no required maintenance. The Type T, with its cost effective design, is the separator of choice for most applications that require clean, dry air, gas or steam.

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. The clean, dry flow is then directed to the outlet by the Vortex Containment Plate. The VCP eliminates the need for expensive, delicate baffles used in ordinary separators.

Application Flexibility

Fabricated separators, because they are manufactured one at a time, can be made to fit the exact requirements of unusual applications such as unique size or piping connections. They are also lighter in weight than a comparable size cast separator. There are no trade-offs with a fabricated separator. You get the perfect unit for your application. You never have to pay for more separator than you need or settle for a separator that won't quite do the job you want it to.

Choose Cast or Fabricated Construction

Fabricated Type T Gas/Liquid Separators are available in sizes from 1" to 24" in carbon steel or cast stainless steel construction. Fabricated construction separators are built to order and can be easily manufactured to exactly meet the requirements of special application or applications where weight is a concern. For standard applications cast separators are often the best choice. See page 4 for Type T Gas/Liquid Separators in cast iron, carbon steel and stainless steel construction in sizes up to 4" with threaded, flanged or socket weld piping connections. Most standard cast separators are available for shipment from stock. Cast or fabricated Eaton Type T Gas/Liquid Separators let you choose the best one for your application.

We Can Help

Choosing the right gas/liquid separator can present unique problems not encountered in choosing other pipeline components. Why not take advantage of our over 100 years of application experience with gas/liquid separators? Application specialists are available to help you every step of the way. From initial selection, to installation and through start-up... just contact us.

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Fabricated Construction

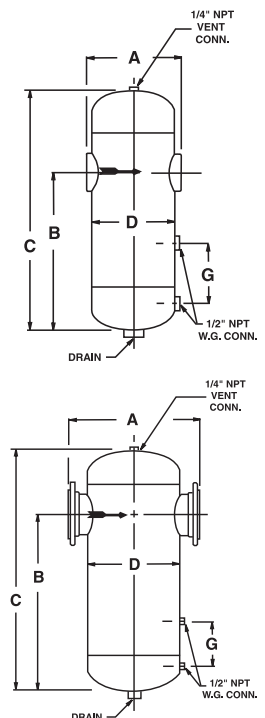
Type (Carbon Steel & Stainless Steel) – Threaded, Socket Weld & Flanged (in / mm)

| Pipe Size | Threaded & Skt Weld A | Flanged 150 lb & 300 lb A | Flanged 600 lb A | B | Cast C | Fab'd C | D | G | NPT Std | Drain Opt'l | ---Weight lb/kg--- | | | |
|-----------|-----------------------|---------------------------|------------------|------------|----------|------------|-------------|-------------|---------|-------------|------------------------------------|--------------------------|--------------------------|--------------------------|
| | | | | | | | | | | | Thd'd & Skt Weld 1000 psig @ 650°F | Flanged 150 psig @ 450°F | Flanged 500 psig @ 650°F | Flanged 750 psig @ 650°F |
| 1 | 6.37 / 162 | 10.5 / 267 | 12 / 305 | 10.5 / 267 | 12 / 305 | 16 / 406 | 5.56 / 141 | 4.75 / 121 | 1 | 1-1/2 | 29 / 13 | 33 / 15 | 35 / 16 | 37 / 17 |
| 1-1/4 | 6.37 / 162 | 10.5 / 291 | 12 / 305 | 10.5 / 267 | 12 / 305 | 16 / 406 | 5.56 / 141 | 4.75 / 121 | 1 | 1-1/2 | 30 / 14 | 35 / 16 | 37 / 17 | 42 / 19 |
| 1-1/2 | 7.62 / 194 | 11.5 / 292 | 14 / 356 | 12.5 / 317 | 14 / 356 | 19 / 483 | 6.62 / 168 | 4.75 / 121 | 1 | 2 | 55 / 25 | 50 / 23 | 56 / 25 | 59 / 27 |
| 2 | 7.87 / 200 | 11.5 / 292 | 14 / 356 | 12.5 / 317 | 14 / 356 | 19 / 483 | 6.62 / 168 | 4.75 / 121 | 1 | 2 | 57 / 26 | 55 / 25 | 59 / 27 | 54 / 25 |
| 2-1/2 | - | 16 / 406 | 18 / 457 | 15 / 381 | - | 22 / 559 | 8.62 / 219 | 5.75 / 146 | 1 | 2 | - | 100 / 45 | 110 / 50 | 125 / 57 |
| 3 | - | 18 / 457 | 20 / 508 | 18 / 457 | - | 26 / 660 | 10.75 / 273 | 5.75 / 146 | 1-1/2 | 2-1/2 | - | 140 / 64 | 150 / 68 | 175 / 80 |
| 4 | - | 20 / 508 | 22 / 559 | 22 / 559 | - | 31 / 787 | 12.75 / 324 | 5.75 / 146 | 1-1/2 | 2-1/2 | - | 195 / 89 | 220 / 100 | 295 / 134 |
| 5 | - | 22 / 559 | 24 / 610 | 26 / 660 | - | 36 / 914 | 14 / 356 | 7.87 / 200 | 1-1/2 | 2-1/2 | - | 230 / 105 | 290 / 132 | 435 / 198 |
| 6 | - | 24 / 610 | 28 / 711 | 30 / 762 | - | 41 / 1041 | 16 / 406 | 7.87 / 200 | 1-1/2 | 2-1/2 | - | 350 / 159 | 380 / 173 | 715 / 325 |
| 8 | - | 28 / 711 | 32 / 813 | 37 / 940 | - | 50 / 1270 | 18 / 457 | 7.87 / 200 | 2 | 3 | - | 475 / 216 | 610 / 277 | 1070 / 486 |
| 10 | - | 34 / 864 | 38 / 965 | 55 / 1397 | - | 70 / 1778 | 24 / 610 | 7.87 / 200 | 2 | 3 | - | 780 / 355 | 1180 / 536 | 2065 / 939 |
| 12 | - | 38 / 965 | 42 / 1067 | 58 / 1473 | - | 75 / 1905 | 28 / 711 | 7.87 / 200 | 1-1/2 | 4* | - | 940 / 427 | 1510 / 686 | 2750 / 1250 |
| 14 | - | 42 / 1067 | 46 / 1169 | 60 / 1524 | - | 79 / 2007 | 32 / 813 | 7.87 / 200 | 2-1/2 | 4* | - | 1155 / 525 | 2205 / 1002 | 3400 / 1545 |
| 16 | - | 47 / 1194 | 51 / 1295 | 68 / 1727 | - | 89 / 2261 | 36 / 914 | 7.87 / 200 | 3 | 5* | - | 1605 / 730 | 2785 / 1266 | 4750 / 2159 |
| 18 | - | 54 / 1372 | 58 / 1473 | 85 / 2159 | - | 109 / 2769 | 42 / 1067 | 9.12 / 232 | 3 | 5* | - | 2260 / 1027 | 4370 / 1986 | 6295 / 2861 |
| 20 | - | 62 / 1575 | 66 / 1676 | 99 / 2515 | - | 126 / 3200 | 48 / 1219 | 9.12 / 232 | 3 | 5* | - | 2845 / 1293 | 5635 / 2561 | 8600 / 3909 |
| 22 | - | 64 / 1626 | 68 / 1727 | 102 / 2591 | - | 130 / 3302 | 48 / 1219 | 10.25 / 260 | 3 | 5* | - | 3000 / 1364 | 6085 / 2766 | 10900 / 4955 |
| 24 | - | 70 / 1778 | 74 / 1880 | 109 / 2769 | - | 140 / 3556 | 54 / 1372 | 10.25 / 260 | 4* | 6* | - | 4295 / 1952 | 7845 / 3566 | 14000 / 6364 |

* Flanged drain

Capacities – Maximum Air Flow Rating in SCFM

| Pipe Size | 25 psig | 50 psig | 100 psig | 150 psig | 200 psig | 250 psig |
|----------------|---------|---------|----------|----------|----------|----------|
| 3/4" | 55 | 75 | 105 | 125 | 150 | 170 |
| 1" | 82 | 110 | 155 | 190 | 220 | 255 |
| 1-1/4" | 130 | 175 | 245 | 300 | 345 | 400 |
| 1-1/2" | 185 | 245 | 345 | 425 | 485 | 560 |
| 2" | 330 | 445 | 620 | 770 | 870 | 1000 |
| 2-1/2" | 500 | 680 | 945 | 1170 | 1350 | 1550 |
| 3" | 750 | 1000 | 1400 | 1750 | 1950 | 2300 |
| 4" | 1325 | 1775 | 2500 | 3075 | 3600 | 4000 |
| 5" | 2050 | 2750 | 3800 | 4750 | 5200 | 6000 |
| Rated ΔP (psi) | 0.88 | 0.99 | 1.19 | 1.40 | 1.60 | 1.85 |



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