# AIR ELIMINATOR STA



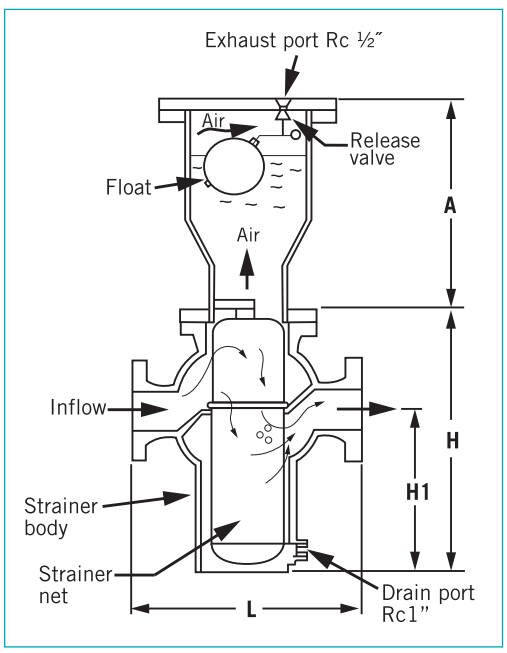
## Principles

**a.** When the float lowers down, the release valve opens. Liquid fulid flows through the Strainer eliminator. Air should be separated from liquid to upper port, and then relieved to outside through the release valve.

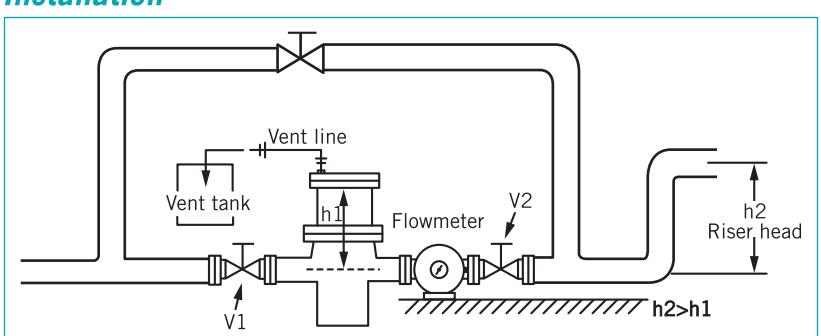
**b.** When float rises, the release valve is closed. When the float is rising as liquid level increases, the release valve closes at the same time.

## Dimensions-mm

| Diameter (mm) | Flange rating | Dimension (mm) | | | |
|---|---|---|---|---|---|
| | | L | H | H1 | A |
| 40 | JIS 10 kgf/cm²FF | 290 | 260 | 160 | 300 |
| | JIS 20 kgf/cm²FF | 310 | 260 | | |
| | ANSI 150# RF | 290 | 260 | | |
| | ANSI 300# RF | 310 | 260 | | |
| 50 | JIS 10 kgf/cm²FF | 325 | 275 | 175 | 300 |
| | JIS 20 kgf/cm²FF | 345 | 275 | | |
| | ANSI 150# RF | 325 | 275 | | |
| | ANSI 300# RF | 345 | 275 | | |
| 80 | JIS 10 kgf/cm²FF | 390 | 360 | 250 | 300 |
| | JIS 20 kgf/cm²FF | 410 | 360 | | |
| | ANSI 150# RF | 390 | 360 | | |
| | ANSI 300# RF | 410 | 360 | | |
| 100 | JIS 10 kgf/cm²FF | 425 | 380 | 250 | 310 |
| | JIS 20 kgf/cm²FF | 450 | 380 | | |
| | ANSI 150# RF | 425 | 380 | | |
| | ANSI 300# RF | 450 | 380 | | |
| 125 | JIS 10 kgf/cm²FF | 475 | 430 | 300 | 310 |
| | JIS 20 kgf/cm²FF | 500 | 430 | | |
| | ANSI 150# RF | 475 | 430 | | |
| | ANSI 300# RF | 500 | 430 | | |
| 150 | JIS 10 kgf/cm²FF | 475 | 500 | 400 | 310 |
| | JIS 20 kgf/cm²FF | 500 | 500 | | |
| | ANSI 150# RF | 475 | 500 | | |
| | ANSI 300# RF | 500 | 500 | | |
| 200 | ANSI 150# RF | 640 | 700 | 510 | 310 |
| | ANSI 300# RF | 660 | 700 | | |
| 250 | ANSI 150# RF | 780 | 900 | 660 | 310 |
| | ANSI 300# RF | | | | |

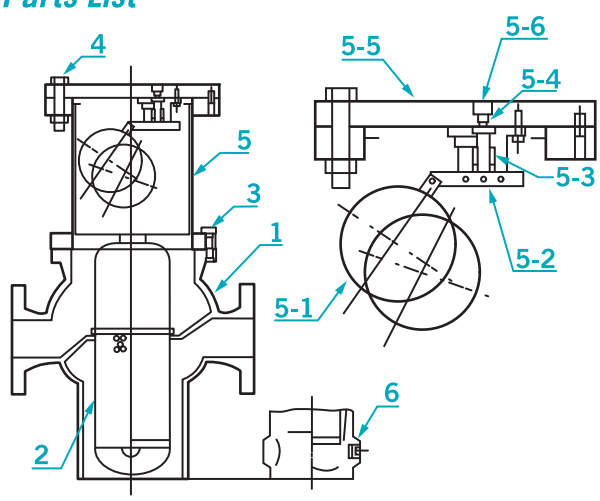



## Installation




V1, V2: Ball valve or gat valve

## Parts List




| | |
|---|---|
| 1 | Strainer Body |
| 2 | Strainer Screen |
| 3 | Hex Bolt for Body & Air Eliminator |
| 4 | Hex Bolt for Cover of Air Eliminator |
| 5 | Air Eliminator Parts |
| 5-1 | Float (SS304) |
| 5-2 | Float Alarm Rod (SS304) |
| 5-3 | Valve Stem (SS304) with Viton Plug |
| 5-4 | Valve Seat (SS304) |
| 5-5 | Air Eliminator Cover |
| 5-6 | Vent Port |
| 6 | Drain Port |

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## Ratio of Free Screen Area to Pipe Area

| Size \ Screen Mesh | 20 mesh | 40 mesh | 60 mesh | 80 mesh | 100 mesh | 120 mesh | 200 mesh |
|---|---|---|---|---|---|---|---|
| 1½" | 6.2 | 6.3 | 5.3 | 4.5 | 4.3 | 4.56 | 4 |
| 2" | 5.5 | 5.6 | 4.7 | 4 | 3.8 | 4.05 | 3.55 |
| 2½" | 4.1 | 4.2 | 3.5 | 3 | 2.8 | 3 | 2.63 |
| 3" | 4.2 | 4.3 | 3.6 | 3.1 | 2.9 | 3.11 | 2.73 |
| 4" | 2.8 | 2.8 | 2.4 | 2 | 1.9 | 2.05 | 1.8 |
| 5" | 3 | 3.1 | 2.6 | 2.2 | 2.1 | 2.21 | 1.94 |
| 6" | 2.8 | 2.9 | 2.4 | 2.1 | 1.95 | 2.08 | 1.83 |
| 8" | 2 | 2.1 | 1.8 | 1.5 | 1.41 | 1.5 | 1.32 |
| 10" | 2.1 | 2.2 | 1.8 | 1.5 | 1.46 | 1.55 | 1.36 |

## Ordering Information

| Code | Model |
|---|---|
| STA | Air Eliminator |

| Code | Connection Size |
|---|---|
| | **(1)** 40 **(2)** 50 **(3)** 80 **(4)** 100 **(5)** 125 **(6)** 150 **(7)** 200 **(8)** 250 |

| Code | Connection Type |
|---|---|
| | **(F)** Flange **(O)** option |

| Code | Flange Rating |
|---|---|
| | **(A)** JIS 10K (only Cast Iron) **(B)** JIS 20K **(C)** ANSI 150# (only Cast Iron) **(D)** ANSI 300# **(O)** option |

| Code | Body material |
|---|---|
| | **(1)** Cast Iton **(2)** Steel **(3)** SS304 **(4)** SS316 **(5)** option |

| Code | Screen Material |
|---|---|
| | **(1)** SS304 **(2)** SS316 |

| Code | Meshes of Screen |
|---|---|
| | **(A)** 20 **(B)** 40 **(C)** 60 **(D)** 80 **(E)** 100 **(F)** 120 **(G)** 150 **(H)** 200 |

| | | | | | | | Complete Ordering Code |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

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