

YSF-3 Type Safety Valve (Open Bonnet Type, Full Bore Type) **Steam boiler****Features**

- No instability in high temperatures : The maximum operating temperature of 450°C so that YSF-3 can be used without any changes in spring characteristics commonly occur in high temperatures.
- High impact resistance and good abrasion resistance : The disc and seat are stainless steel welded with satellite.
- Simple structure reduces maintenance costs & offers outstanding performance.
- High-strength stainless steel inner core components.
- Test lever attached : Periodical performance inspections can be conducted.
- Approval from the Korea Occupational Safety and Health Agency (KOSHA).

**Specifications**

| Type                    |            | YSF-3 (Open Bonnet)                   |
|-------------------------|------------|---------------------------------------|
| Test lever              |            | Yes                                   |
| Applicable fluid        |            | Steam                                 |
| Set pressure range      |            | 0.1~3.0 MPa                           |
| Fluid temperature       |            | 350°C                                 |
| End connection          | Inlet      | inlet 10, 20, 30K RF FLANGE           |
|                         | Outlet     | KS B 1511 10K FF FLANGE               |
| Materials               | Body       | SCPH2                                 |
|                         | Disc, seat | SCS13(Stellite welding)               |
| Hydraulic test pressure |            | 1.5 times of applicable flange rating |

► The JIS and ANSI flanges are available by made-to-orders.



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**Dimensions**

(mm)

| Size<br>Inle tX Outlet | Seat<br>diameter | Throat<br>diameter | Throat<br>area(mm²) | Lift | Face to Face |     | Heigh(H) | Blow off<br>rate(kg/h) | Weight(kg) |
|------------------------|------------------|--------------------|---------------------|------|--------------|-----|----------|------------------------|------------|
| di X do                | ds               | dt                 | A                   | L    | L1           | L2  | H        | W                      | YSF—3      |
| 25(1")X40(1½")         | 22               | 19                 | 490.9               | 5.0  | 115          | 100 | 320      | 864                    | 15.2       |
| 40(1½")X65(2½")        | 35               | 30                 | 1256.6              | 7.5  | 130          | 125 | 425      | 2213                   | 28.6       |
| 50(2")X80(3")          | 45               | 38                 | 1963.5              | 9.5  | 141          | 135 | 465      | 3457                   | 42.7       |
| 65(2½")X100(4")        | 58               | 49                 | 3318.3              | 12.5 | 161          | 160 | 560      | 5843                   | 64         |
| 80(3")X125(5")         | 71               | 61                 | 5026.5              | 15.5 | 179          | 180 | 630      | 8851                   | 89         |
| 100(4")X150(6")        | 88               | 76                 | 7854.0              | 19.0 | 209          | 205 | 795      | 13830                  | 143        |
| 125(5")X200(8")        | 111              | 95                 | 12271.8             | 24.0 | 232          | 240 | 1010     | 21609                  | 290        |
| 150(6")X200(8")        | 134              | 115                | 17671.5             | 29.0 | 262          | 250 | 1110     | 31117                  | 342        |
| 200(8")X250(10")       | 176              | 152                | 31415.9             | 38.0 | 355          | 300 | 1415     | 55319                  | 684        |

**Dimensional drawing**