

## Full-lift safety valve from red brass component-tested

### Series SF04/SF06

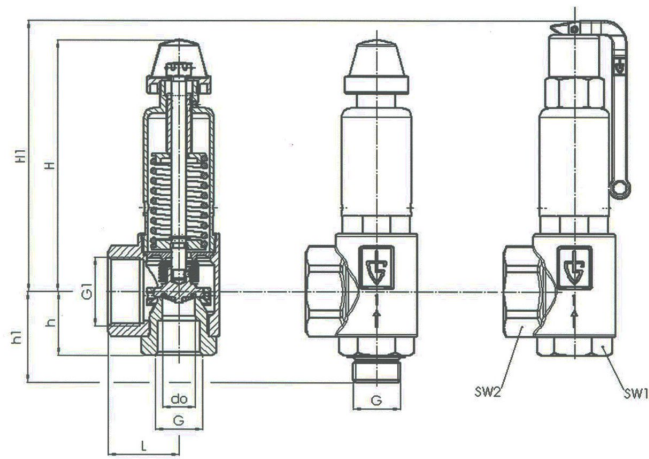


|                    |                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type        | Spring-loaded full-lift safety valves<br>These types are back-pressure compensated, i.e. any back pressure occurring during venting does not affect the set pressure.. Maximum permissible back pressure is 4 bar. The valves can be manually vented by turning the knurled nut. The set pressure is secured against adjustment by the sealing cap. |
| Connection         | Female thread G1/2"...G11/4"                                                                                                                                                                                                                                                                                                                        |
| Materials          | Valve body Red brass, Internal parts Brass, Spring Stainless steel 1.4310                                                                                                                                                                                                                                                                           |
| Medium temperature | see table                                                                                                                                                                                                                                                                                                                                           |
| Adjustment range   | see table                                                                                                                                                                                                                                                                                                                                           |
| Mounting type      | Installation in rigid piping system                                                                                                                                                                                                                                                                                                                 |
| Mounting position  | only upright                                                                                                                                                                                                                                                                                                                                        |
| Application range  | see table                                                                                                                                                                                                                                                                                                                                           |
| Ordering note      | when ordering specify set pressure                                                                                                                                                                                                                                                                                                                  |
| Special versions   | Set pressure 25,1...50bar, with venting lever instead of rotary venting, Inlet with male thread, Valve in ATEX version                                                                                                                                                                                                                              |

Table:

| Adjustment range | Seal | Application range                         | Medium temperature [°C] | Type |
|------------------|------|-------------------------------------------|-------------------------|------|
| 0,5 - 25         | EPDM | Air, flammable and toxic gases and vapors | -40...+170              | SF04 |
| 0,5 - 25         | EPDM | flammable and toxic liquids               | -40...+170              | SF06 |





| G       | G1      | L  | H   | H1  | h  | h1 | SW1 | SW2 | d <sub>0</sub> | Weight [approx. kg] | Type             | Type             |
|---------|---------|----|-----|-----|----|----|-----|-----|----------------|---------------------|------------------|------------------|
| G1/2"   | G1"     | 40 | 77  | 91  | 30 | 45 | 30  | 40  | 15,8           | 0,4                 | SF04-12W-15.8-XX | SF06-12W-15.8-XX |
| G3/4"   | G1 1/4" | 43 | 138 | 158 | 39 | 55 | 36  | 50  | 18             | 1,0                 | SF04-34W-18-XX   | SF06-34W-18-XX   |
| G1"     | G1 1/2" | 50 | 178 | 192 | 45 | 63 | 46  | 58  | 23             | 1,8                 | SF04-10W-23-XX   | SF06-10W-23-XX   |
| G1 1/4" | G2"     | 61 | 241 | 264 | 55 | 75 | 55  | 70  | 30             | 4,0                 | SF04-114W-30-XX  | SF06-114W-30-XX  |

XX - Set pressure

#### Blow-off capacity at 10% overpressure for Typ SF04 Air [Nm<sup>3</sup>/h]

| Size    | Set pressure [bar] |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 0,5                | 1   | 2   | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 25   |
| G1/2"   | 56                 | 87  | 141 | 238  | 335  | 431  | 528  | 625  | 722  | 819  | 916  | 1013 | 1109 | 1206 | 1255 |
| G3/4"   | 127                | 189 | 316 | 561  | 790  | 1018 | 1247 | 1475 | 1704 | 1932 | 2161 | 2390 | 2618 | 2847 | 2961 |
| G1"     | 199                | 291 | 489 | 855  | 1203 | 1552 | 1900 | 2248 | 2596 | 2945 | 3293 | 3641 | 3990 | 4338 | 4512 |
| G1 1/4" | 353                | 515 | 832 | 1484 | 2088 | 2693 | 3297 | 3902 | 4506 | 5111 | 5715 | 6320 | 6924 | 7529 | 7831 |

#### Relief capacity at 10% overpressure for Typ SF04 Steam [kg/h]

| Size    | Set pressure [bar] |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 0,5                | 1   | 2   | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 25   |
| G1/2"   | 42                 | 69  | 111 | 184  | 257  | 329  | 401  | 472  | 544  | 616  | 686  | 757  | 829  | 900  | 936  |
| G3/4"   | 96                 | 151 | 249 | 435  | 608  | 777  | 947  | 1115 | 1284 | 1453 | 1619 | 1787 | 1956 | 2125 | 2209 |
| G1"     | 150                | 232 | 385 | 663  | 926  | 1184 | 1443 | 1699 | 1957 | 2214 | 2467 | 2723 | 2981 | 3238 | 3366 |
| G1 1/4" | 266                | 411 | 656 | 1151 | 1607 | 2056 | 2504 | 2948 | 3396 | 3842 | 4281 | 4726 | 5173 | 5619 | 5842 |

#### Relief capacity at 10% overpressure for Typ SF06 Water [m<sup>3</sup>/h]

| Size    | Set pressure [bar] |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|---------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|         | 0,5                | 1    | 2    | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 22   | 24    | 25    |
| G1/2"   | 1,9                | 2,5  | 3,6  | 5,0  | 6,2  | 7,1  | 7,9  | 8,7  | 9,4  | 10,1 | 10,7 | 11,2 | 11,8 | 12,3  | 12,6  |
| G3/4"   | 5,4                | 7,3  | 10,4 | 14,7 | 18,0 | 20,8 | 23,2 | 25,4 | 27,5 | 29,4 | 31,1 | 32,8 | 34,4 | 35,9  | 36,7  |
| G1"     | 8,8                | 12,0 | 16,9 | 24,0 | 29,3 | 33,9 | 37,9 | 41,5 | 44,8 | 47,9 | 50,8 | 53,6 | 56,2 | 58,7  | 59,9  |
| G1 1/4" | 15,4               | 20,8 | 29,4 | 41,6 | 50,9 | 58,8 | 65,8 | 72,0 | 77,8 | 83,2 | 88,2 | 93,0 | 97,5 | 101,9 | 104,0 |

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Pressure regulators, safety valves and accessories / Safety and relief valves / Safety valve, full stroke Series SF04

Version 10

138192 / Generated 2026/41 EN

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