

# Relief-Valve, springloaded

for steam, gases and liquids in closed completion

# Typ 1

## Standard version:

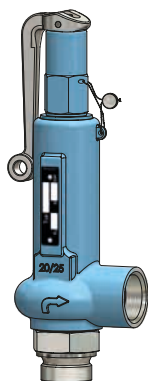
## Temperature ranges

|                  |            |                           |                 |
|------------------|------------|---------------------------|-----------------|
| <b>Material:</b> | Inlet body | / Spring bonnet           | metal seated    |
| <b>Typ 1.1:</b>  | 1.4104     | / 0.7043                  | -10°C to 280°C  |
| <b>Typ 1.2:</b>  | 1.4571     | / 1.4581                  | -60°C to 280°C  |
| <b>Typ 1.7:</b>  | 1.4571     | / 1.4308 only with head C | -200°C to 280°C |

|                                                |                            |
|------------------------------------------------|----------------------------|
| <b>Connections:</b>                            | soft seated                |
| Screwed connection: DIN ISO 228 / ASME B1.20.1 | see techn. appendix: KWD-1 |

## Approvals:

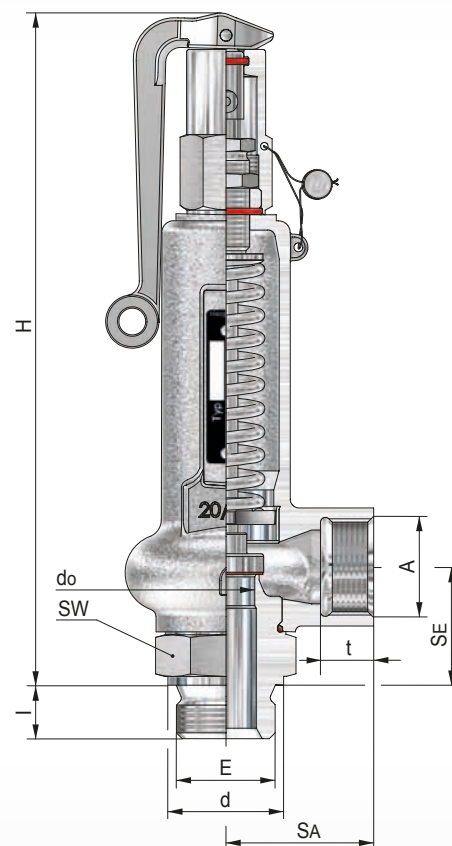
**Pressure Equipment Directive:** 97/23/EG  
Declaration of Conformity



Size II  
head A



Size I  
head C



| Size | Inlet |      |      |       |         | Outlet     |      |       |         | Dimensions |                 | Height 'H' for head |      |  | Coefficient |      | Set pressure |                   | Weight |
|------|-------|------|------|-------|---------|------------|------|-------|---------|------------|-----------------|---------------------|------|--|-------------|------|--------------|-------------------|--------|
|      | E     | SE   | d    | I (G) | I (NPT) | A          | SA   | t (G) | t (NPT) | SW         | do              | A                   | C    |  | D/G         | F    | p min.       | p max.            |        |
|      |       | [mm] | [mm] | [mm]  | [mm]    |            | [mm] | [mm]  | [mm]    | [mm]       | [mm]            | [mm]                | [mm] |  | αw max.     | αw   | [bar(g)]     | [bar(g)]          | ~ [kg] |
| I    | 3/8   | 34   | 22   | 12    | 11      | 1/2<br>3/4 | 40   | 14    | 14      | 32         | 10              | 200                 | 185  |  | 0,08        | 0,05 | 0,15         | 160               | 1,0    |
|      |       |      |      |       |         |            |      | 17    | 15      |            | 8               |                     |      |  | 0,08        | 0,05 | 0,20         | 200               |        |
|      |       |      |      |       |         |            |      |       |         |            | 12,5            |                     |      |  | 0,08        | 0,05 | 0,12         | 155               |        |
|      |       |      |      |       |         |            |      |       |         |            | 10              |                     |      |  | 0,08        | 0,05 | 0,15         | 160               |        |
|      |       |      |      |       |         |            |      |       |         |            | 8               |                     |      |  | 0,08        | 0,05 | 0,20         | 200               |        |
|      |       |      |      |       |         |            |      |       |         |            | 6 <sup>1)</sup> |                     |      |  | -           | -    | 0,40         | 500               |        |
|      | 1/2   |      | 26   | 14    | 14      |            |      | 17    | 15      |            | 16              |                     |      |  | 0,08        | 0,05 | 0,07         | 70                |        |
|      |       |      |      |       |         |            |      |       |         |            | 12,5            |                     |      |  | 0,08        | 0,05 | 0,12         | 155               |        |
|      |       |      |      |       |         |            |      |       |         |            | 10              |                     |      |  | 0,08        | 0,05 | 0,15         | 160               |        |
|      |       |      |      |       |         |            |      |       |         |            | 8               |                     |      |  | 0,08        | 0,05 | 0,20         | 200               |        |
|      | 3/4   |      | 32   | 16    | 14      |            |      | 17    | 15      |            | 6 <sup>1)</sup> |                     |      |  | -           | -    | 0,40         | 500               |        |
|      |       |      |      |       |         |            |      |       |         |            |                 |                     |      |  |             |      |              |                   |        |
| II   | 1/2   | 40   | 26   | 14    | 14      | 1          | 50   | 18    | 17      | 41         | 12,5            | 230                 | 215  |  | 0,08        | 0,05 | 0,18         | 190               | 1,6    |
|      |       |      |      |       |         |            |      |       |         |            | 8               |                     |      |  | 0,08        | 0,05 | 0,30         | 500 <sup>2)</sup> |        |
|      |       |      |      |       |         |            |      |       |         |            | 16              |                     |      |  | 0,08        | 0,05 | 0,10         | 130               |        |
|      |       |      |      |       |         |            |      |       |         |            | 12,5            |                     |      |  | 0,08        | 0,05 | 0,18         | 190               |        |
|      |       |      |      |       |         |            |      |       |         |            | 8               |                     |      |  | 0,08        | 0,05 | 0,30         | 500 <sup>2)</sup> |        |
|      |       |      |      |       |         |            |      |       |         |            | 20              |                     |      |  | 0,08        | 0,05 | 0,10         | 100               |        |
|      | 1     |      | 39   | 18    | 18      |            |      |       |         |            | 16              |                     |      |  | 0,08        | 0,05 | 0,10         | 130               | 1,8    |
|      |       |      |      |       |         |            |      |       |         |            | 12,5            |                     |      |  | 0,08        | 0,05 | 0,18         | 190               |        |
|      |       |      |      |       |         |            |      |       |         |            | 8               |                     |      |  | 0,08        | 0,05 | 0,30         | 500 <sup>2)</sup> |        |
|      |       |      |      |       |         |            |      |       |         |            | 22              |                     |      |  | 0,08        | 0,05 | 0,07         | 75                |        |
|      |       |      |      |       |         |            |      |       |         |            | 20              |                     |      |  | 0,08        | 0,05 | 0,10         | 100               |        |
|      |       |      |      |       |         |            |      |       |         |            | 16              |                     |      |  | 0,08        | 0,10 | 0,10         | 130               |        |
|      | 1 1/4 | 40   | 49   | 20    | 18      |            |      |       |         | 50         | 27              |                     |      |  | 0,08        | 0,05 | 0,05         | 45                | 1,8    |
|      |       |      |      |       |         |            |      |       |         |            | 55              |                     |      |  | 0,08        | 0,05 | 0,05         | 45                |        |
|      |       |      |      |       |         |            |      |       |         |            | 27              |                     |      |  | 0,08        | 0,05 | 0,05         | 45                |        |
|      |       |      |      |       |         |            |      |       |         |            | 60              |                     |      |  | 0,08        | 0,05 | 0,05         | 45                |        |
|      | 1 1/2 |      | 55   | 22    | 19      |            |      |       |         |            |                 |                     |      |  |             |      |              |                   |        |
|      |       |      |      |       |         |            |      |       |         |            |                 |                     |      |  |             |      |              |                   |        |
|      | 2     |      | 60   | 24    | 20      |            |      |       |         |            | 60              |                     |      |  | 0,08        | 0,05 | 0,05         | 45                |        |

other design on request

<sup>1)</sup> not in type 1.1 with outlet 3/4

<sup>2)</sup> type 1.1 to 200 [bar(g)]

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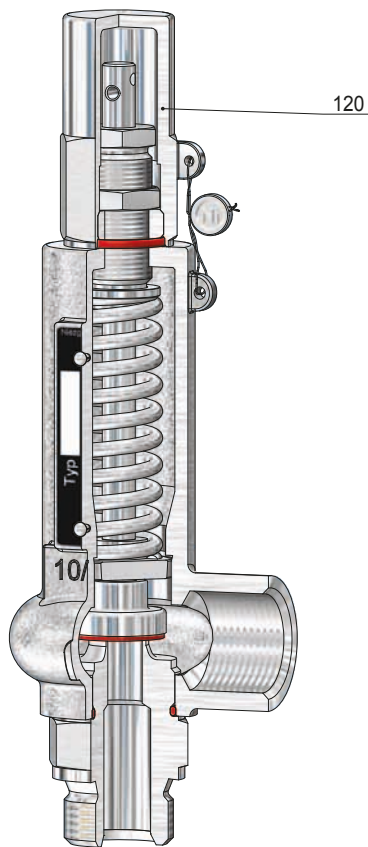
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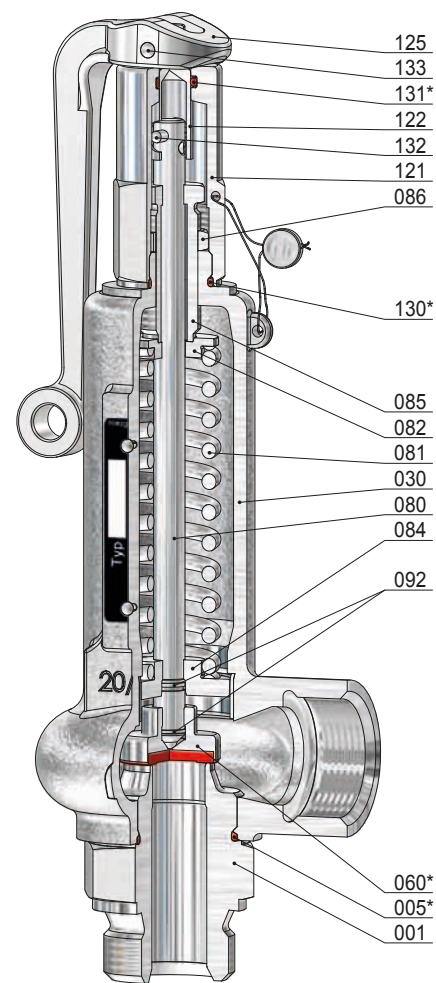
# Relief-Valve, springloaded

for steam, gases and liquids in closed completion

## Typ 1



Size I  
head C



Size II  
head A

| Item  | Piece | Description        | Item  | Piece | Description    |
|-------|-------|--------------------|-------|-------|----------------|
| 001   | 1     | inlet body         | 120   | 1     | cap            |
| 005 * | 1     | o-ring             | 121   | 1     | lifting cap    |
| 030   | 1     | spring bonnet      | 122   | 1     | coupling       |
| 060 * | 1     | disc, complete     | 125   | 1     | lifting button |
| 560   | 1     | disc               | 130 * | 1     | o-ring         |
| 062   | 1     | soft sealing       | 131 * | 1     | o-ring         |
| 080   | 1     | spindle            | 132   | 1     | groove pin     |
| 081   | 1     | spring             | 133   | 1     | groove pin     |
| 082   | 1     | springplate, upper |       |       |                |
| 084   | 1     | springplate, lower |       |       |                |
| 085   | 1     | adjusting screw    |       |       |                |
| 086   | 1     | lock nut           |       |       |                |
| 092   | 2     | lock ring          |       |       |                |

\* expendable parts

Ni



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