# Corner safety valves

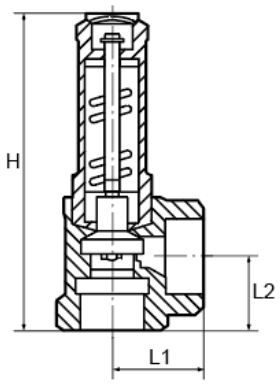
for liquids

Type 221

**P 3-508 e**

For non-toxic, non-flammable liquids. No evaporation allowed when blowing off.
With diaphragm to protect the spring and with lifting device.

Type-tested, TÜV-SV. 749. F




| | |
|---|---|
| Operating temperature | -10 °C to 110 °C |
| Housing | Bronze |
| Spring bonnet | Brass |
| Internal parts | Brass |
| Diaphragms | NBR |
| Spring | C steel |
| Inlet and outlet | Each with female thread type G acc. to DIN EN ISO 228-1 |

**Corner safety valve for liquids**

| Type No. | Thread | a/f mm | L1 mm | L2 mm | H mm |
|---|---|---|---|---|---|
| 221.03 | G 1/2 | 27 | 25.0 | 20.0 | 92.0 |
| 221.04 | G 3/4 | 32 | 30.0 | 25.0 | 111.0 |
| 221.05 | G 1 | 41 | 36.0 | 30.0 | 132.0 |
| 221.06 | G 1 1/4 | 50 | 40.0 | 35.0 | 152.0 |
| 221.07 | G 1 1/2 | 58 | 48.0 | 40.0 | 175.0 |
| 221.08 | G 2 | 70 | 56.0 | 48.0 | 200.0 |



This product must be installed and operated in accordance with the installation and operating instructions, safety information and any relevant regulations and standards!

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Subject to technical changes an errors reserved. The proficiency testing is the responsibility of the user. The specified data do not represent legally guaranteed properties

# Corner safety valves
for liquids
Type 221

RIEGLER

**Discharge capacities**
Calculation of flow rate acc. to AD2000-Merkblatt A2

**Medium:**
Water in kg/h at 20°C

**The capacity indicated below is for a fully opened valve.**

d0 - orifice
A0 - flow area

**Discharge capacities**

| Set pressure in bar (g) | Thread | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|---|---|---|---|---|---|---|---|
| | d0 (mm) | 12.0 | 15.0 | 18.0 | 20.0 | 24.0 | 28,0 |
| | A0 (mm²) | 113.1 | 176.7 | 254.5 | 314.2 | 452.4 | 615,8 |
| | Medium | **Water** | | | | | |
| 1.0 | | 1208 | 2359 | 4212 | 6543 | 10146 | 12495 |
| 2.0 | | 1708 | 3336 | 5957 | 9253 | 14349 | 17670 |
| 3.0 | | 2092 | 4086 | 7296 | 11332 | 17573 | 21641 |
| 4.0 | | 2416 | 4718 | 8425 | 13085 | 20292 | 24989 |
| 5.0 | | 2701 | 5275 | 9419 | 14630 | 22687 | 27939 |
| 6.0 | | 2959 | 5779 | 10318 | 16026 | 24853 | 30606 |
| 7.0 | | 3196 | 6242 | 11145 | 17310 | 26844 | 33058 |
| 8.0 | | 3416 | 6673 | 11915 | 18505 | 28697 | 35340 |
| 9.0 | | 3624 | 7077 | 12637 | 19628 | 30438 | 37484 |
| 10.0 | | 3820 | 7460 | 13321 | 20689 | 32085 | 39512 |
| 12.0 | | 4184 | 8172 | 14592 | 22664 | 35147 | 43283 |
| 14.0 | | 4519 | 8827 | 15761 | 24480 | 37963 | 46751 |
| 16.0 | | 4831 | 9436 | 16850 | 26170 | 40584 | 49979 |

Special versions:

- Stainless steel spring- material 1.4571
- External parts nickel plated

Certificates acc. to DIN EN 10204 (available at an additional cost):

- 2.1 Declaration of compliance with the order
- 2.2 Not available
- 3.1 Inspection certificate - adjustment certificate
- 3.1 Inspection certificate - material certificate
- 3.1 Inspection certificate - material and adjustment certificate
- 3.2 Inspection certificate. Examination by TÜV - set pressure and material without specifying the batch


Subject technical changes.