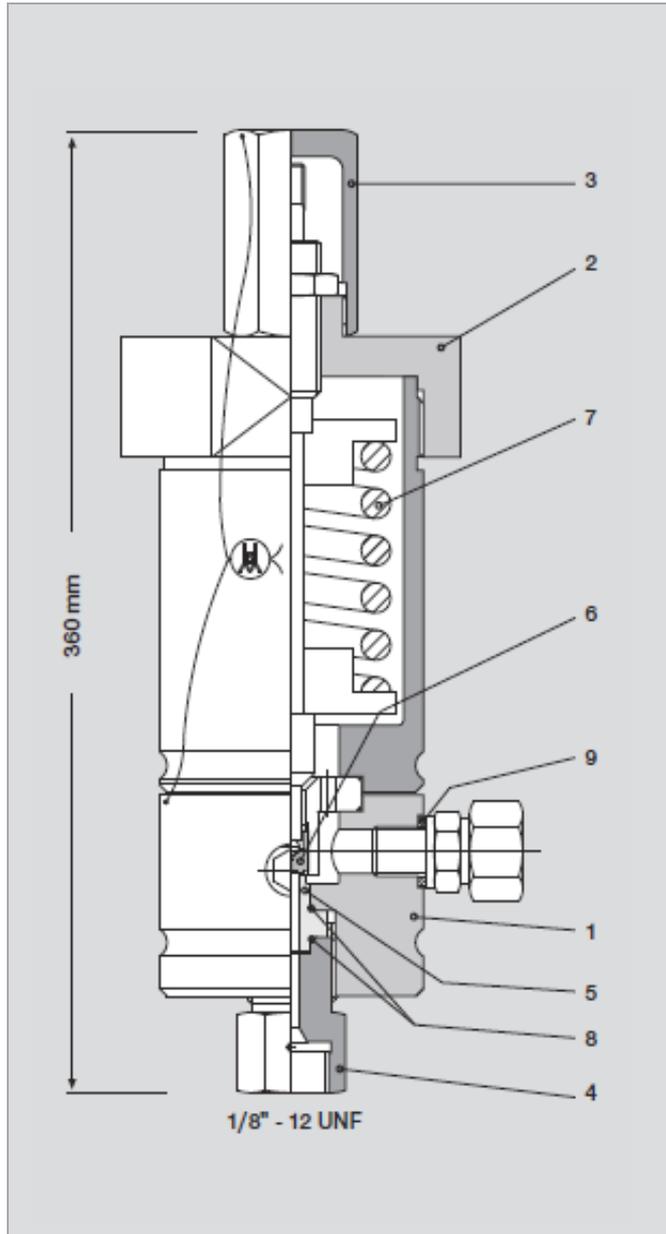


METRIC CONVERSIONS:

1 bar = 14.5 psi
 °F = (°C * 1.8) + 32

General Information

- for vapors and gases
- also applicable for liquids
- exchangeable seat and cone



CE 0044 to 2500 bar

Technical Data

flow coefficient:
 ≤ 2500 bar $\alpha_w = 0,28$
 > 2500 bar $\alpha_w = 0,16$
 1100 to 4000 bar

set pressure range:
 working temperature (product):
 -10° to +50° C
 metal / metal

seat-cone-seal:
 smallest flow diameter:
 ≤ 2500 bar 6 mm
 > 2500 bar 4,5 mm

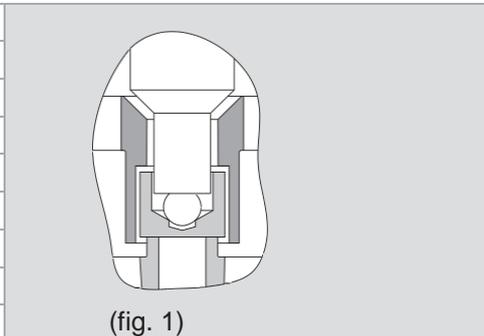
tolerance of set pressure:
 tolerance of reseal pressure:
 ± 2%

leakage:
 ≤ 10% of set pressure
 < 10⁻⁴ mbar l/s

Metal Seat Sealing (figure 1)

This hardened metal to metal seat sealing is used where elastomer or plastic seat sealing are not applicable due to reasons of chemical resistance, temperature load or high set pressure. The flow area is similar to one of our type-test approved safety valves for vapors and gases.

1	body	1.7733
2	bonnet	1.7733
3	cap	1.1181
4	adapter inlet	1.4418/1.4980
5	seat	1.4021
6	cone	1.4057
7	spring	1.1200
8	seal Inlet	FPM
9	seal outlet	1.1003



METRIC CONVERSIONS:

1 bar = 14.5 psi
 °F = (°C * 1.8) + 32

Example

680 . 05 . 541 . 53 . 1 | 0

- Set Pressure Range
- Connection Inlet
- Connection Outlet
- Material Outlet

Connection inlet

HOFER block for tube 9/16 x 1/4	1100 - 2100 bar	540
HOFER block for tube 9/16 x 3/16	2100 - 2500 bar	541
HOFER block for tube 9/16 x 3/16	2500 - 4000 bar	741

Set pressure range

1100 - 1300 bar	01
1300 - 1650 bar	02
1650 - 2050 bar	03
2050 - 2100 bar	04
2100 - 2500 bar	05
2500 - 4000 bar	06

Connection outlet

tube fitting DL 18 DIN 2353	51
DILO weld-fitting	53

Material outlet

carbon steel	1
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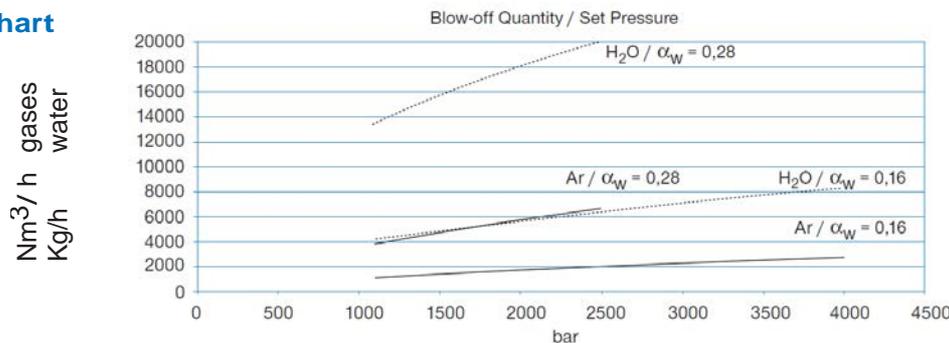
Cone seal

metal	1
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Notes

In addition to the standard versions we also offer various customized solutions for our valves and end connections. Please don't hesitate to ask for further information.

Flow Chart



Technical Information

After responding within a maximum overpressure of 10 %, these safety valves achieve the stroke required for the mass flow to be discharged.

The total system design must be considered to ensure safe performance. Component function, material compatibilities, adequate ratings, proper installation, operation and maintenance are the responsibilities of the system user and designer.