

→ Series 2580

2580

Overflow valves made of
gunmetal, angle-type with
threaded connections

■ SUITABLE FOR

Liquids	neutral and non-neutral	
Air, gases and vapours	neutral and non-neutral	

■ EXAMPLES OF USE

Overflow valve for the protection of:

- Containers and pipelines for the storage and transport of cryogenic liquified gases such as LIN, LOX, LAr, CO₂, LNG.

- Tunnel freezer plants
- Dry ice blasting plants
- Cryogenic plant construction
- Liquid nitrogen dosing
- Cryogenic milling process
- Cryogenic machining
- Ground freezing plants
- Gases used in medical equipment
- Plants for cryogenic gases which come into contact with foodstuffs

Overflow valves of this type are oil- and grease-free as standard.



■ MATERIAL



■ SPECIFICATION



1/4" – 1/2"



– 200°C to + 200°C



0,2 – 70 bar

■ APPROVALS

TR ZU 010/2011

Requirements

AD 2000 Data sheet A2

DGR 2014/68/EU

■ MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Stainless steel	1.4404	316 L
Outlet body	Gunmetal / Brass	CC499K/CW617N	CC499K/CW617N
Internal parts	Stainless steel	1.4404	316 L
Spring	Stainless steel	1.4310	302
Seal	PTFE	PTFE	PTFE

Series 2580 ■ VALVE VERSION

s	non-gastight version of spring housing	for neutral media. Not suitable for oxygen. Outlet z only available as version s.
t	gastight version of spring housing	for neutral and non-neutral media. The environment is protected from being affected by the medium.

■ MEDIUM

GF	gaseous and liquid	Cryogenic liquified gases, vapours and liquids, for oxygen max. 40bar/ max. 60°C
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■ TYPE OF LIFTING MECHANISM

0	without lifting device
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■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN		8		
Inlet		1/4" (8)	3/8" (10)	1/2" (15)
Outlet	3/8" (10)	■	■	■
	1/2" (15)	■	■	■

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

m / f	Standard	Male thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
f / f		Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
NPT-m / f		Male thread NPT / Female thread BSP-P	ANSI B1.20.1 / DIN EN ISO 228-1
NPT-m / NPT-f		Male thread NPT / Female thread NPT	ANSI B1.20.1 / ANSI B1.20.1
NPT-f / NPT-f		Female thread NPT / Female thread NPT	ANSI B1.20.1 / ANSI B1.20.1
With insect protection:			
m/z		Male thread BSP-P / Insect protection screen	DIN EN ISO 228-1 / –
f/z		Female thread BSP-P / Insect protection screen	DIN EN ISO 228-1 / –
NPT-m/z		Male thread NPT / Insect protection screen	ANSI B1.20.1 / –

■ SEALS

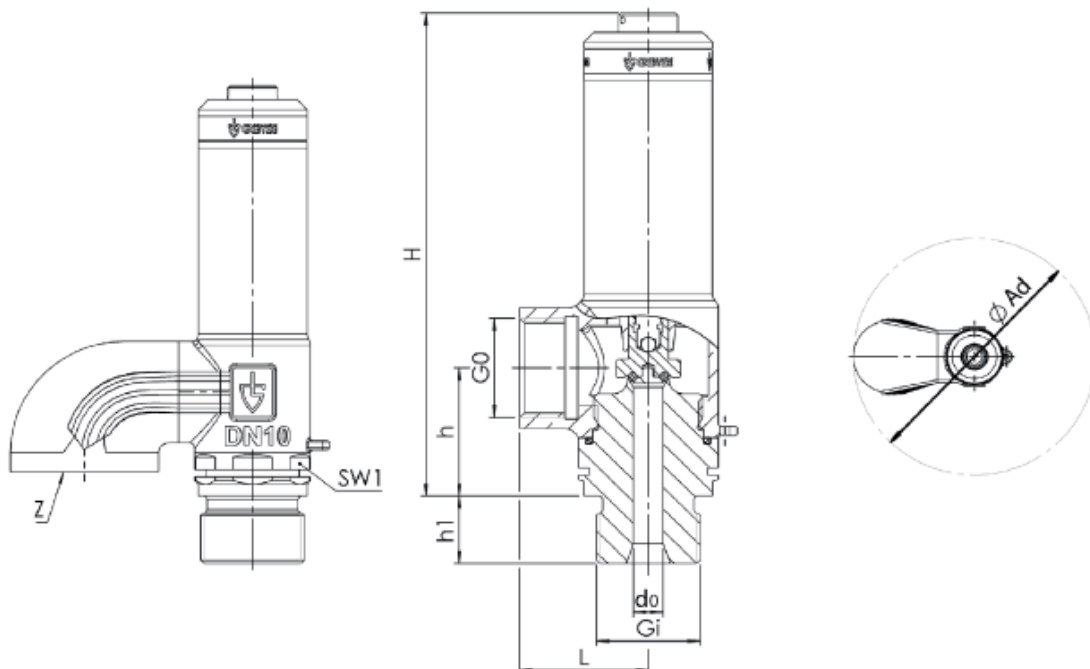
PTFE	Polytetrafluoroethylene	O-ring with FDA Approval	–200°C to +200°C
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■ **NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS**

Series 2580: Connection, installation dimensions, ranges of adjustment							
Nominal diameter	DN	8					
Connection DIN EN ISO 228	Gi	1/4" (8)	3/8" (10)	1/2" (15)	1/4" (8)	3/8" (10)	1/2" (15)
Outlet DIN EN ISO 228	Go	3/8" (10)	3/8" (10)	3/8" (10)	1/2" (15)	1/2" (15)	1/2" (15)
Installation dimensions in mm	h1	12	14	14	12	14	14
	h	22			26		
	L	21			26		
	H	85			99		
	SW1	22			27		
	Ad	47 / 98**)			58		
	d ₀	6,0			6,0		
Weight	kg	0,2			0,3		
Set pressure	bar	0,2 - 70			0,2 - 70		
Range of adjustment	bar	0,2-2,5			0,2-2,5		
		2,5-3,5			2,5-3,5		
		3,5-5,5			3,5-5,5		
		5,5-8			5,5-8		
		8-13			8-13		
		13-23			13-23		
		23-35			23-35		
		35-52			35-52		
		52-70			52-70		
Outlet with insect protection screen	Z	- / Yes			-		

**) Diameter for body with Insect protection screen

■ **MAIN DIMENSIONS, INSTALLATION DIMENSIONS**



Series 2580 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet			
2580	<i>s</i>	GF	<i>0</i>	<i>8</i>	<i>m</i>	<i>z</i>	<i>10</i>	<i>-</i>	<i>PTFE</i>	<i>6,0</i>	<i>2</i>
2580		GF									
2580		GF									
2580		GF									

■ CERTIFICATES / APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	☐	C05	Sealing material Manufacturer certification (FDA, USP 3, 3-A,...), Please indicate description of certificate:	☐
C02-1	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1) for non TÜV-CE valves marking of individual serial number is required	☐	C06	ATEX evaluation acc. to 2014/34/EU	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐	C10	Certificate of oil- and grease free production	☐
C04	TÜV/DEKRA individual inspection acc. EN 10204 3.2 (TÜV/DEKRA-APZ)	☐			☐

■ ADMISSIONS / ACCREDITATIONS

☐	AL	Individual inspection by notified body inspector – (body to be indicated):	☐
☐			☐
☐			☐

■ CAPACITY TABLE ACC. TO ISO 4126-1 / AD2000 A2

Series 2580: Kv values at 1 bar overpressure									
Nominal diameter DN	8								
flow diameter	0,2-2,5	2,5-3,5	3,5-5,5	5,5-8	8-13	13-23	23-35	35-52	52-70
Set pressure bar	Air [Nm³/h]								
0,2	23								
1,0	25								
1,5	27								
2,0	27,5								
2,5	28,5	25,8							
3,0		26,7							
3,5		27,8	24,8						
4,0			26,2						
4,5			27,5						
5,0			28,2						
5,5			28,9	25,8					
6,0				27,4					
7,0				29,0					
8,0				29,6	27,8				
9,0					27,9				
10					28,1				
11					29,5				
12					31,5				
13					33,0	31,0			
14						32,3			
15						33,5			
16						34,0			
17						35,3			
18						36,5			
19						37,3			
20						38,0			
21						38,5			
22						39,3			
23						40,0	33,9		
24							35,5		
25							37,0		
26							38,0		
27							39,5		
28							41,5		
29							43,0		
30							44,5		
32							46,0		
34							47,5		
36							49,0	52,3	
38								55,4	
40								58,3	
42								60,5	
44								63,5	
46								67,2	
48								70,2	
50								73,2	
52								73,9	73,9
54									76,8
56									79,7
58									82,6
60									85,5
62									88,4
64									91,3
66									94,2
68									97,1
70									100,0