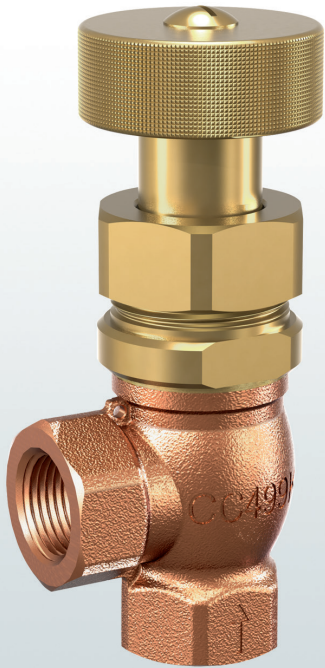


# → Series 608

Overflow and pressure control valves made of gunmetal, angle-type with threaded connections  
-externally adjustable-



## ■ SUITABLE FOR

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

## ■ EXAMPLES OF USE

For the protection of:

- pumps against overloading in closed circuits for neutral / non-neutral, non-sticking liquids

For the control of:

- systems under pressure for neutral / non-neutral gases and vapours and – depending on the sealing material – also for steam

- pressure control valve in test rig construction
- bypass valve as pump protection
- process equipment construction
- mechanical engineering

## ■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

### Requirements

PED 2014/68/EU

UK PESR 2016 No. 1105

### Classification society

Russian Maritime Register of Shipping  
Registro Italiano Navale

RS  
RINA



## ■ MATERIAL



## ■ SPECIFICATION



3/8"



- 60°C to + 225°C  
depending on version



0,2 – 20 bar

## ■ MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass	CW617N	CW617N
Spring	Stainless steel	1.4310	302

Version 2023 / 06

<b>t</b>	gastight version of spring housing	for neutral and non-neutral media, not counter pressure compensated. The environment is protected from being affected by the medium. Adjustable by hand wheel under operating conditions without medium escaping into the atmosphere.
----------	------------------------------------	--

Valves can be delivered unset within a pressure range or set and sealed at the factory.

#### ■ MEDIUM

<b>GF</b>	gaseous and liquid	Air, vapours, gases, liquids and - depending on safety valve version and seal - also for steam
-----------	--------------------	--

#### ■ TYPE OF LIFTING MECHANISM

<b>0</b>	without lifting device
----------	------------------------

#### ■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

<b>Nominal diameter DN</b>	<b>10</b>
<b>Inlet</b>	3/8" (10)
<b>Outlet 3/8" (10)</b>	■

#### ■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

<b>f / f</b>	Standard	Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
--------------	----------	---	-------------------------------------

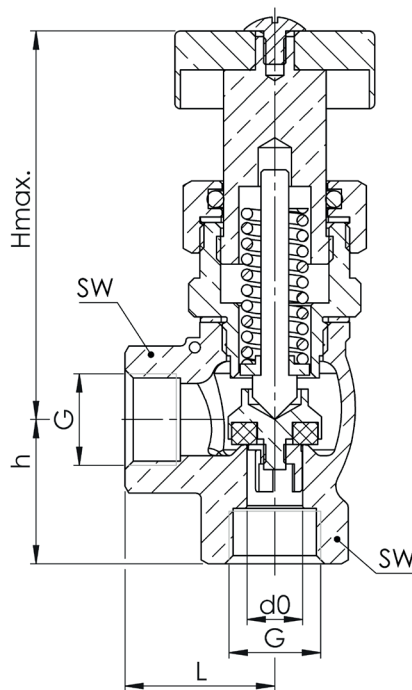
#### ■ SEALS

<b>NBR</b>	Nitrile rubber (standard)	Elastomere flat seal 0,2 – 12 bar	-30°C to +130°C
<b>FKM</b>	Fluorocarbon	Elastomere flat seal 0,5 – 12 bar	-20°C to +200°C
<b>PTFE</b>	Polytetrafluoroethylene	Flat seal 0,2 – 12 bar	-60°C to +225°C
<b>PTFE</b>	Polytetrafluoroethylene	Flat seal 12 – 20 bar	-60°C to +225°C

■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 608: Connection, installation dimensions, ranges of adjustment		
Nominal diameter	DN	10
Connection DIN EN ISO 228	G	3/8" (10)
Outlet DIN EN ISO 228	G	3/8" (10)
Installation dimensions in mm	L	27
	Hmax	93
	h	26
	SW	24
	d0	10
Weight	kg	0,4
Set pressure	bar	0,2-20
Range of adjustment	bar	0,2-0,8
		0,5-2,5
		2-12
		12-20

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



Series 608 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Options	Pressure range / set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet				
608	t	GF	0	10	f	f	10	10	NBR		2 - 12	10
608	t	GF	0	10	f	f	10	10	PTFE		6,5	3
608	t	GF	0	10	f	f	10	10				
608	t	GF	0	10	f	f	10	10				

■ PROPERTIES

<b>GOX</b>	Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process	<input type="checkbox"/>	<b>P03</b>	Galvanically nickel-plated finish	<input type="checkbox"/>
<b>P01</b>	Oil- and grease-free production	<input type="checkbox"/>	<b>P04</b>	Chrome-plated finish	<input type="checkbox"/>
<b>P02</b>	Chemically nickel-plated finish	<input type="checkbox"/>			<input type="checkbox"/>

■ CERTIFICATES / APPROVALS

<b>C01</b>	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	<input type="checkbox"/>	<b>C06</b>	ATEX evaluation acc. to 2014/34/EU	<input type="checkbox"/>
<b>C02-1</b>	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1) for non TÜV-CE valves marking of individual serial number is required	<input type="checkbox"/>	<b>C10</b>	Certificate of oil- and grease free production	<input type="checkbox"/>
<b>C03</b>	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	<input type="checkbox"/>	<b>C11</b>	Certification of the production process especially for gaseous oxygen applications by employment of specific materials	<input type="checkbox"/>
<b>C05</b>	Sealing material Manufacturer certification (FDA, USP 3, 3-A,...), Please indicate description of certificate: .....	<input type="checkbox"/>			<input type="checkbox"/>

■ ADMISSIONS / ACCREDITATIONS

<b>AA1</b>	EC Type examination acc. to Directive 2014/68/EU	<input type="checkbox"/>	<b>AK2</b>	Lloyd's Register (LR) type approval	<input type="checkbox"/>
<b>AA4</b>	EAC - certificate/declaration with passport for the valve and laser marking of the valve	<input type="checkbox"/>	<b>AK4</b>	Bureau Veritas (BV) type approval	<input type="checkbox"/>
		<input type="checkbox"/>	<b>AK5</b>	Russian Maritime Register of Shipping (RMRS) type approval	<input type="checkbox"/>
		<input type="checkbox"/>	<b>AK6</b>	Registro Italiano Navale (RINA) type approval	<input type="checkbox"/>
		<input type="checkbox"/>	<b>AL</b>	Individual inspection by notified body inspector – (body to be indicated): .....	<input type="checkbox"/>

■ ENQUIRY

■ CAPACITY TABLE

Series 608: Kv values at 1 bar overpressure									
Nominal diameter DN	10 Air [Nm³/h]			10 Water [m³/h]			10 Steam [kg/h]		
	0,2 - 0,8	2 - 12	12 - 20	0,2 - 0,8	2 - 12	12 - 20	0,2 - 0,8	2 - 12	12 - 20
Pressure range bar									
Set pressure bar	0,5 - 2,5	2 - 12	12 - 20	0,5 - 2,5	2 - 12	12 - 20	0,5 - 2,5	2 - 12	12 - 20
0,2	49			1,6			38		
0,5	52	461		1,7	0,4		41	351	
0,8	58	471		1,7	0,4		46	361	
1,0		491			0,4			371	
1,5		501			0,4			391	
2,0		541	131		0,5	0,4		411	101
2,5		561	111		0,5	0,4		431	8,51
3,0			81			0,4			6,21
4,0			71			0,4			5,41
5,0			41			0,4			3,11
6,0			31			0,4			2,31
7,0			< 1			0,5			< 1
8,0			< 1			0,4			< 1
9,0			< 1			0,4			< 1
10,0			< 1			0,4			< 1
11,0			< 1			0,3			< 1
12,0			< 1	< 1		0,3	0,2		< 1
13,0				< 1			0,2		< 1
14,0				< 1			0,2		< 1
15,0				< 1			0,1		< 1
16,0				< 1			0,1		< 1
17,0				< 1			0,1		< 1
18,0				< 1			0,1		< 1
19,0				< 1			0,1		< 1
20,0				< 1			0,1		< 1

<sup>1</sup>Capacity at 2 bar overpressure