

→ Series 608

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

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

Series 608 ■ VALVE VERSION

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

■ MEDIUM

GF	gaseous and liquid	Air, vapours, gases, liquids and - depending on safety valve version and seal - also for steam
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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	10
Inlet	3/8" (10)
Outlet 3/8" (10)	■

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

f/f	Standard	Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
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■ SEALS

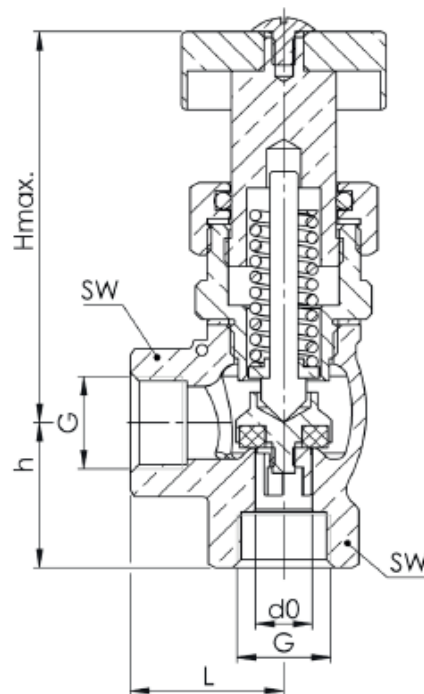
NBR	Nitrile rubber (standard)	Elastomere flat seal 0,2 – 12 bar	–30°C to +130°C
FKM	Fluorocarbon	Elastomere flat seal 0,5 – 12 bar	–20°C to +200°C
PTFE	Polytetrafluoroethylene	Flat seal 0,2 – 12 bar	–60°C to +225°C
PTFE	Polytetrafluoroethylene	Flat seal 12 – 20 bar	–60°C to +225°C

■ **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		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

G0X	Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process	☐	P03	Galvanically nickel-plated finish	☐
P01	Oil- and grease-free production	☐	P04	Chrome-plated finish	☐
P02	Chemically nickel-plated finish	☐			☐

■ CERTIFICATES / APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	☐	C06	ATEX evaluation acc. to 2014/34/EU	☐
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	☐	C10	Certificate of oil- and grease free production	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐	C11	Certification of the production process especially for gaseous oxygen applications by employment of specific materials	☐
C05	Sealing material Manufacturer certification (FDA, USP 3, 3-A,...), Please indicate description of certificate:	☐			☐

■ ADMISSIONS / ACCREDITATIONS

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

■ **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]		
	Pressure range bar			Pressure range bar			Pressure range bar		
Set pressure bar	0,2 - 0,8	2 - 12	12 - 20	0,2 - 0,8	2 - 12	12 - 20	0,2 - 0,8	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			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

*Capacity at 2 bar overpressure