→ 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 RS

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 2018 / 05

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.

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

■ TYPE OF LIFTING MECHANISM

0	without lifting device

■ 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

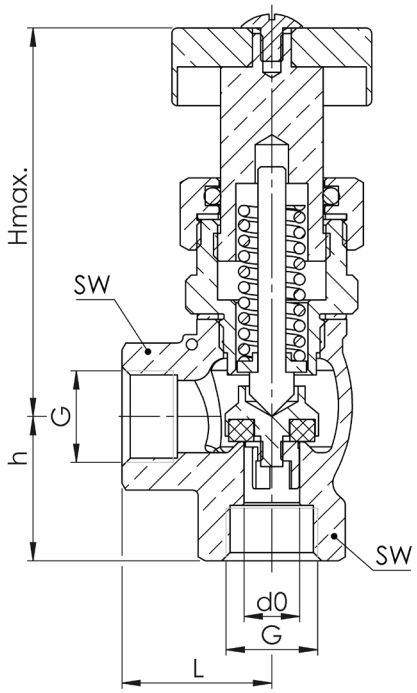
■ SEALS

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
	do	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

GOX	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):	☐

■ ENQUIRY

Copy and send to: order@goetze-armaturen.de.

Order form easily to be found online under the section for each series.

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	0,2 - 0,8	2 - 12			0,2 - 0,8	2 - 12			0,2 - 0,8	2 - 12		
Set pressure bar		0,5 - 2,5		12 - 20		0,5 - 2,5		12 - 20		0,5 - 2,5		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	< 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

[1]Capacity at 2 bar overpressure