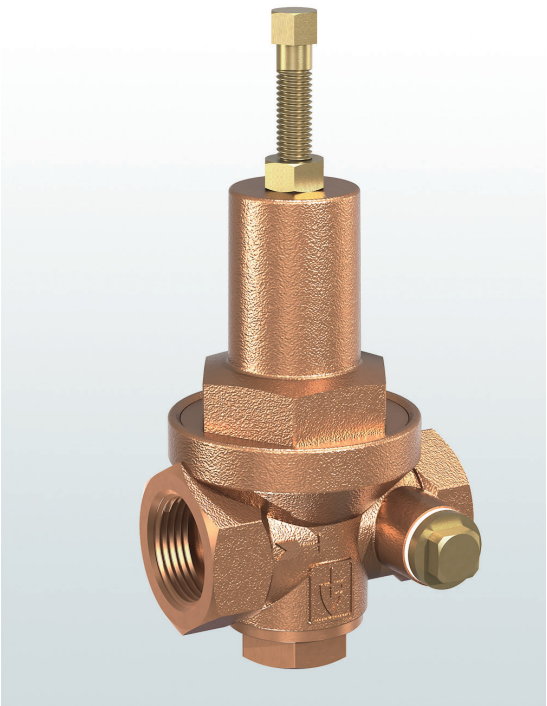
→ Series 683

683

Pressure reducing valves made of gunmetal with female threaded connections



SUITABLE FOR

Air, gases and vapours	neutral	

EXAMPLES OF USE

For the protection of:
- commercial and industrial plants
against too high supply pressure.
Pressure reducers are used, if within a piping system despite of varying pressures on the inlet side a certain pressure must not be exceeded on the outlet side.

- compressed air supply plants
- pneumatic control units
- pressure booster plants air-side
- shipbuilding industry and offshore plants

MATERIAL

SPECIFICATION

3/8“ – 1 1/4“	– 10°C to + 95°C	**Inlet pressure**: up to 50 bar **Outlet pressure**: 1,5 to 10 bar depending on version

APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU

Classification society

DNVGL	DNVGL
Lloyd's Register EMEA	LR EMEA
American Bureau of Shipping	ABS
Bureau Veritas	BV
Russian Maritime Register of Shipping	RS

MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass	CW617N	CW617N
Spring	Spring steel	1.1200	ASTM A228

Series 683 ■ VALVE VERSION

m	with diaphragm	High-quality, heat-resistant moulded elastomere, fabric-reinforced diaphragm. Pressure adjustment by means of spindle. Version completely made of metal. Balanced single seat valve, body with G 1/4“ connection for pressure gauge on both sides.

■ MEDIUM

G	gaseous	Compressed air and neutral gases

■ TYPE OF LIFTING MECHANISM

0	without lifting device

■ OUTLET PRESSURE RANGES

SP	Standard version	Inlet pressure: up to 50 bar (size 1 1/4“ up to 30 bar) **Largest reduction ratio 10:1**	Outlet pressure: from 1,5 to 10 bar

Fixed setting at a required outlet pressure against surcharge.

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	**10**	**15**	**20**	**25**	**32**
Inlet female connection	3/8“ (10)	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)
Outlet female connection	3/8“ (10)	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)

■ 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

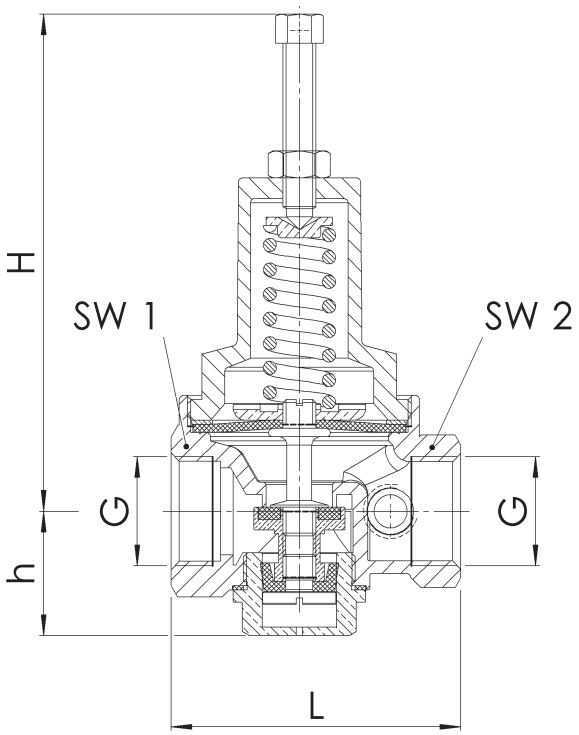
NBR	Nitrile rubber	Elastomere diaphragms and seals	–10°C to +95°C

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 683: Connection, installation dimensions, ranges of adjustment						
Nominal diameter	**DN**	**10**	**15**	**20**	**25**	**32**
Connection DIN EN ISO 228	**G**	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)
Inlet pressure to	**bar**	50	50	50	50	30
Outlet pressure[1]	**bar**	1,5-10	1,5-10	1,5-10	1,5-10	1,5-10
Installation dimensions in mm	**L**	73	73	70	87	100
	H	100	100	120	165	175
	h	22	22	30	35	43
	SW1	27	27	36	44	54
	SW2	27	27	32	40	49
Weight	**kg**	0,5	0,5	0,8	1,4	2,0

[1]Largest reduction ratio 10:1

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



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Series 683 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Outlet pressure	Nominal diameter DN	Connection type		Connection size		Seal	Options	Optional: fixed setting	Quantity
						Inlet	Outlet	Inlet	Outlet				
683	m	G	0	SP	*20*	f	f	*20*	*20*	NBR	*S15*		*5*
683	m	G	0	SP	*32*	f	f	*32*	*32*	NBR		*4,0*	*1*
683	m	G	0	SP		f	f			NBR			
683	m	G	0	SP		f	f			NBR			

■ OPTIONS

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	☐	**FE**	Setting and sealing	☐
P02	Chemically nickel-plated finish	☐			☐

■ 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	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)	☐	**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

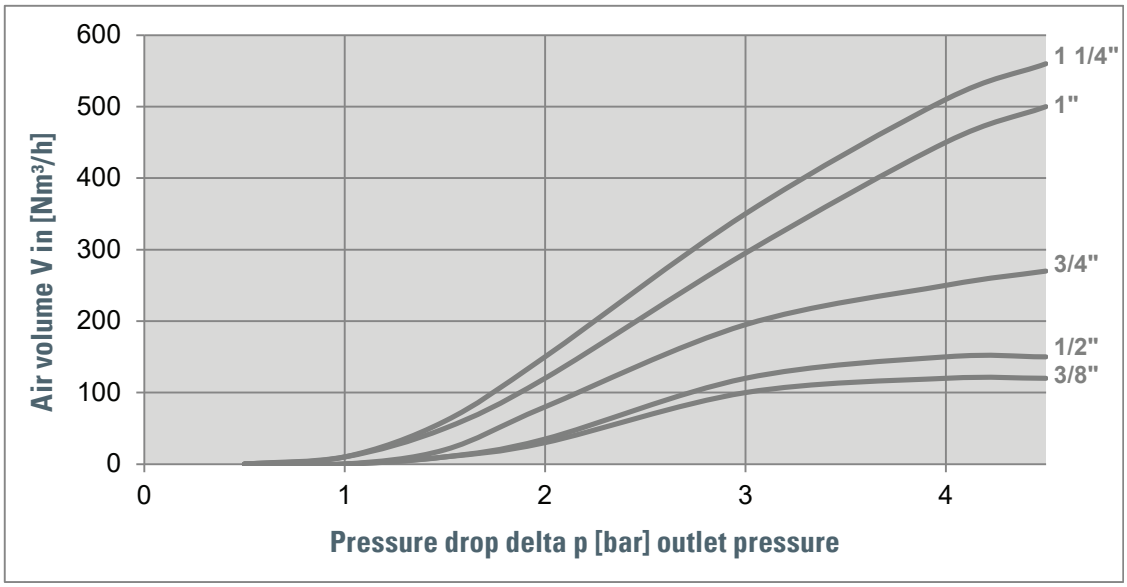
AA1	EC Type examination acc. to Directive 2014/68/EU	☒	**AK1**	DNV-GL (DNVGL) type approval	☐
AA4	EAC - certificate/declaration with passport for the valve and laser marking of the valve	☐	**AK2**	Lloyd's Register (LR) type approval	☐
		☐	**AK3**	American Bureau of Shipping (ABS) type approval	☐
		☐	**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.

Series 683:

Determination of the size and capacity



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