#### 684

Pressure reducing valves made of gunmetal with female threaded connections

## → Series 684



# C € EAL

#### ■ MATERIAL



#### ■ SPECIFICATION







- 40°C to + 120°C depending on version



Inlet pressure: up to 60 bar Outlet pressure: 0,5 to 50 bar depending on version

#### ■ SUITABLE FOR

Liquids neutral and non-neutral

Air, gases and vapours neutral and non-neutral

#### ■ EXAMPLES OF USE

For the protection of:

- commercial and industrial plants against too high supply pressure.

Use of pressure reducing valves, when in a piping system inspite of varying pressures on the inlet side a specific pressure on the outlet side must be kept.

- Compressed air supply plants
- Pneumatic control units
- Pressure booster plants air-side
- Shipbuilding industry and offshore plants
- Industrial gas plant construction
- PET blow moulding machines
- Blasting plants

#### ■ APPROVALS

#### **European Pressure Equipment Directive**

#### TR ZU 032/2013 - TR ZU 010/2011

#### Requirements

PED 2014/68/EU

#### **Classification society**

DNV
Lloyd's Register EMEA
Bureau Veritas
Russian Maritime Register of Shipping

DNV
LR EMEA
BV
RMRS

#### ■ MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass	CW617N	CW617N
Spring	Spring steel with anti-rust protection	1.1200	ASTM A228



k w  ■ MEDIUM  GS gs	vith diaphragm vith piston gaseous with sec		Adjustmer gauge con Please tak Brass pist Adjustmer gauge con	nt by means of non-r nnection G1/4" on bo ke note of the outlet con with seal and sup	rising spindle. Balar oth sides of body. pressure range. pport ring. rising spindle. Balar oth sides of body.	inforced diaphragm. nced single seat valv nced single seat valv	ve, pressure				
■ MEDIUM  GS ga			Adjustmer gauge con	nt by means of non-r nnection G1/4" on bo	rising spindle. Balar oth sides of body.	nced single seat valv	/e, pressure				
GS ga	aseous with sec										
GEO 98	aseous with sec										
		ondary venting		Compressed air and gases. Non-neutral, poisonous gases only in combination with ducted exhaust.							
	jaseous and liqui vithout secondar		for water a	for water and non-sticking liquids, compressed air and gases							
■ OUTLET PRESSURE F	RANGES Standard version v	with diaphragm	Inlet press	sure: up to 60 bar	Outl	et pressure: 0,5 to 15	bar				
	Standard version v High-pressure ver			sure: up to 60 bar sure: up to 60 bar		Outlet pressure: 5 to 30 bar Outlet pressure: 10 to 50 bar					
■ AVAILABLE NOMINA	AL DIAMETERS	AND CONNECTI	ON SIZES								
Nominal diameter DN	8	10	15	20	25	40	50				
Inlet female connection	1/4" (8)	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/2" (40)	2" (50)				
Outlet female connection	1/4" (8)	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/2" (40)	2" (50)				
■ TYPE OF CONNECTION	ON INLET / OLL	TI ET TUREADED	CONNECTIONS								
f/f St	DIN HALL I / GG	TET TIMEADED		read BSP-P / Female	thread BSP-P						



■ SEALS

Fluorocarbon

Ethylene propylene diene

FKM

**EPDM** 

Elastomere moulded diaphragm and seals

Elastomere moulded diaphragm and seals

-10°C to +120°C

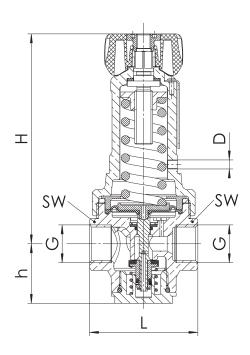
-40°C to +120°C

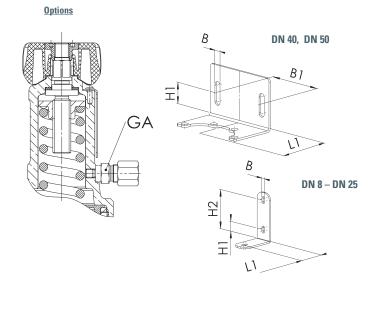
#### ■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 684: Connection, ins	stallation (	dimensions, rang	ges of adjustment					
Nominal diameter	DN	8	10	15	20	25	40	50
Connection DIN EN ISO 228	G	1/4" (8)	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/2" (40)	2" (50)
Inlet pressure up to	bar	60	60	60	60	60	60	60
Outlet pressure: SM	bar	0,5-15	0,5-15	0,5-15	0,5-15	0,5-15	0,5-15	0,5-15
SK	bar	5-30	5-30	5-30	5-30	5-30	5-30	5-30
HK	bar	10-50	10-50	10-50	10-50	10-50	10-50	10-50
Installation dimensions	L	68	68	60	78	102	136	136
in mm	Н	120	120	120	180	215	260	270
	h	33	33	33	40	56	63	70
	SW	26	26	26	32	44	58	70
Ducted exhaust connection	D	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Dimensions of optional	L1	38	38	38	51	61	85	85
wall mount	H1 / H2	18 / 62	18 / 62	18 / 62	18/58	22/80	15	15
	B / B1	5,5	5,5	5,5	6,5	8,5	10,5/90	10,5/90
Weight	kg	1,2	1,2	1,2	2,8	5,3	9,4	10,2
Coefficient of flow K <sub>vs</sub>	m³/h	1,6	1,6	1,6	3,4	5,5	12,7	12,7

 $The \ K_{VS} \ value \ was \ determined \ according \ to \ DIN \ EN \ 60534-2-3. \ Instructions \ on \ how \ to \ determine \ size \ and \ capacity \ are \ to \ be found \ under section \ 2.$ 

#### ■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS







Series	Valve version	Medium	Outlet pressure	Nominal diameter	Connecti	ion type	С	Connection		Seal	Options	Optional: fixed setting	Quantit		
	VEISION		ргоззиго	DN	Inlet	Outlet	Inl	et	Outlet			a cotting			
684	m	GS	SM	20	f	f	20	7	20		FKM	<i>S17</i>	5		
684	k	GF0	SK	40	f	f	40	)	40		<i>EPDM</i>		1		
684					f	f									
684					f	f									
■ PROF	PERTIES														
S17	Supply with n	nanometers	suitable for th	ne valve finish											
S27	Without hand hexagon wre		tic cap. To be	set by means o	of [	_									
S68	Wall mount														
S69	Inside coatin with strong s														
■ OPTI	ONS														
GOX	Especially fo of specific m production p	nt		P10	Ducte mediu		ry venting of non-neutral gases in case of								
P01	Oil- and grea	se-free prod			FE	Settin	g and sealin	aling							
P02	Chemically n			S71		eliminary setup for protection against manipulation of the eset pressure (seal)									
P03	Galvanically	nickel-plated	l finish												
	TIFICATES / A														
C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)						C05	Manu	ling material nufacturer certification (FDA, USP 3, 3-A,), ase indicate description of certificate:						
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)						C06	ATEX	evaluation a	acc. to 2014/34/EU					
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)						C10	Certifi	icate of oil- a	of oil- and grease free production					
C04	TÜV/DEKRA i (TÜV/DEKRA-		pection acc.	EN 10204 3.2											
■ ADM	ISSIONS / A	CCREDITA	ΓIONS												
AA1	EC Type exar	nination acc	:. to Directive	e 2014/68/EU			AK1	DNV-	GL (DNVGL)	type approv	al				
	EAC - certific			ssport for the v	alve [		AK2	Lloyd	's Register (	LR) type app	roval				
							АК3	Amer	ican Bureau	of Shipping	(ABS) type	approval			
							AK5		an Maritime approval	Register of	Shipping (R	MRS)			
							AK6	Regis	tro Italiano	Navale (RIN	A) type appr	oval			
							AL		dual inspect to be indica	tion by notifi ited):	ed body insp	oector –			

### ■ ENQUIRY

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

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

