→ Series 684



C € ERI

■ 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



eries 684 ■ VALVE VE	ERSION										
m	with diaphragm		Adjustmer gauge con	High-quality heat-resistant elastomere, fabric reinforced diaphragm. Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body. Please take note of the outlet pressure range.							
k	with piston		Adjustmer gauge con	Brass piston with seal and support ring. Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body. Please take note of the outlet pressure ranges.							
■ MEDIUM											
GS	gaseous with sec	condary venting		Compressed air and gases. Non-neutral, poisonous gases only in combination with ducted exhaust.							
GF0	gaseous and liqu without seconda		for water a	for water and non-sticking liquids, compressed air and gases							
■ OUTLET PRESSU	RE RANGES										
SM	Standard version	with diaphragm	Inlet press	ure: up to 60 bar	Out	Outlet pressure: 0,5 to 15 bar					
SK HK	Standard version High-pressure ve			ure: up to 60 bar ure: up to 60 bar		Outlet pressure: 5 to 30 bar Outlet pressure: 10 to 50 bar					
■ AVAILABLE NOMI	NAL 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)	1/4" (8) 3/8" (10) 1/2" (19		3/4" (20)	1" (25)	1 1/2" (40) 2" (50					
■ TYPE OF CONNEC	CTION INLET / OU	ITLET THREADED	CONNECTIONS								
f/f	Standard Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN ISO 22										

Elastomere moulded diaphragm and seals

Elastomere moulded diaphragm and seals



■ SEALS

Fluorocarbon

Ethylene propylene diene

FKM

EPDM

-10°C to +120°C

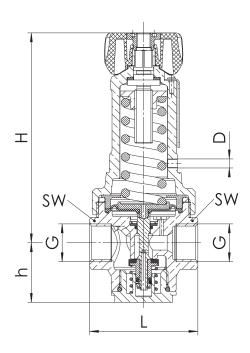
-40°C to +120°C

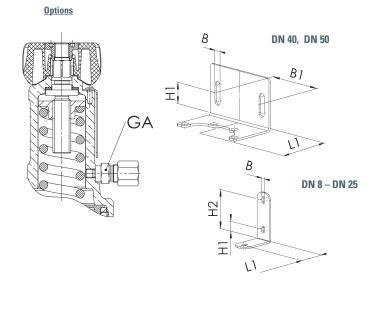
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 684: Connection, installation dimensions, ranges 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			
НК	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 _{vs}	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	Connect	ion type	C	onnect	ion size	Seal	Options	Optional: fixed setting	Quantity	
	VCISION		ргоззите	DN	Inlet	Outlet	Inl	et	Outlet			g		
684	m	GS	SM	20	f	f	20	7	20		FKM	<i>S17</i>	5	
684	k	GF0	SK	40	f	f	40)	40		EPDM		1	
684					f	f								
684					f	f								
■ PROF	PERTIES													
S17	Supply with r	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			n properties										
■ OPTI	ONS													
GOX	Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process						P10	Ducte mediu		ry venting of non-neutral gases in case of				
P01	Oil- and grea	se-free prod			FE	Settin	g and sealin	ing						
P02	Chemically nickel-plated finish						S71		eliminary setup for protection against manipulation of the eset pressure (seal)					
P03	Galvanically	nickel-plated	l finish											
	TIFICATES / /													
C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)						C05	Manu	ng material ufacturer certification (FDA, USP 3, 3-A,), se indicate description of certificate:					
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)						C06	ATEX	evaluation a	n 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	and grease fr	ee productio	n		
C04	TÜV/DEKRA i (TÜV/DEKRA		pection acc.	EN 10204 3.2										
■ ADM	ISSIONS / A	CCREDITA	TIONS											
AA1	EC Type examination acc. to Directive 2014/68/EU						AK1	Det N	orske Verita	tas (DNV) type approval				
	EAC - certificand laser ma			ssport for the v	alve [AK2	Lloyd	's Register (LR) type app	oroval			
							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.

