→ Series 684



Air googg and w

■ SUITABLE FOR

neutral and non-neutral

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

CE UK EM

■ MATERIAL



■ SPECIFICATION



1/4" - 2"



40°C to + 120°C depending on version



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

■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU UK PESR 2016 No. 1105

Classification society

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

DNV
LR EMEA
BV
RS
RRS
RRS
RINA

■ 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	RSION										
m	with diaphragm		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 se	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	Ou	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	S AND CONNECTION	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 CONNEC	TION INLET / OL	JTLET THREADED	CONNECTIONS								
f/f	Standard Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN ISO										

Elastomere moulded diaphragm and seals

Elastomere moulded diaphragm and seals



■ SEALS

Fluorocarbon

Ethylene propylene diene

FKM

EPDM

-10°C to +120°C

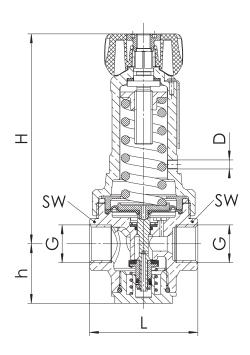
-40°C to +120°C

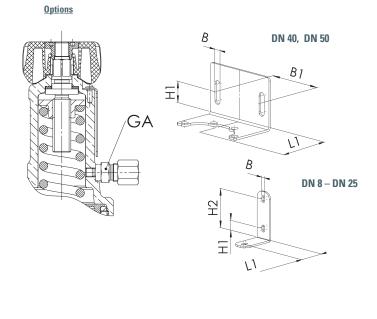
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 684: Connection, ins	stallation (limensions, ranç	jes 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	Medium	Outlet	Nominal	Connecti	Connection type		Connection size		Seal	Options	Optional:	Quantit	
	version		pressure	diameter DN	Inlet	Outlet	li	nlet	Outlet			fixed setting		
684	т	GS	SM	20	f	f	1	20	20		FKM	<i>S17</i>	5	
684	k	GF0	SK	40	f	f		40	40		EPDM		1	
684					f	f								
684					f	f								
■ PROP	PERTIES													
S17	Supply with n	nanometers	suitable for t	he valve finish										
S27	Without hand wheel, plastic cap. To be set by means of hexagon wrench													
S68	Wall mount													
S69	Inside coatin with strong s			n properties										
Only valid	for nominal wic	fth DN 8, DN 1	0, DN 15 and [ON 25.										
■ OPTI	ONS												<u>.</u>	
GOX	Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process						P10		ted secondary venting of non-neutral gases in case of ium \ensuremath{G}					
P01	Oil- and grease-free production						FE	Settir	ting and sealing					
P02	Chemically nickel-plated finish						S71	Preliminary setup for protection against manipulation of the preset pressure (seal)						
P03	Galvanically	nickel-plated	l finish											
■ CERT	IFICATES / A							•					<u>.</u>	
C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)						C05	Manı	Sealing material Manufacturer certification (FDA, USP 3, 3-A,), Please indicate description of certificate:					
C02	Test certifica			C06	ATEX	Cevaluation a	on acc. to 2014/34/EU							
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)						C10	Certi	ficate of oil- a	te of oil- and grease free production				
C04	TÜV/DEKRA i (TÜV/DEKRA-	ndividual ins -APZ)	pection acc.	EN 10204 3.2		_								
■ ADMI	ISSIONS / A	CCREDITAT	TIONS					•••••						
AA1	EC Type exar	mination acc	. to Directiv	e 2014/68/EU			AK1	Det N	Norske Verita	as (DNV) ty	pe approval			
AA4	EAC - certific and laser ma			ssport for the v	alve _	_	AK2	Lloy	d's Register (LR) type ap	proval			
AA11	UK Type examus UK PESR 201	mination acc 6 No. 1105	c. to Directiv	e		ם כ	АК3	Ame	rican Bureau	of Shippin	g (ABS) type	approval		
							AK5		sian Maritime approval	Register o	f Shipping (R	MRS)		
							AK6	Regi	stro Italiano	Navale (RIN	IA) type appr	oval		
											fied body insp	oector –		
							AL	(bod)	y to be indica	ited):			L	

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

