→ Series 684



■ SUITABLE FOR

■ 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

EHC ϵ

■ MATERIAL



■ SPECIFICATION



1/4" - 2"









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

Classification society

DNV DNV Lloyd's Register EMEA LR EMEA Bureau Veritas BV RS Russian Maritime Register of Shipping Registro Italiano Navale 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	ERSION										
m	with diaphragm		Adjustme gauge cor	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		Adjustme gauge cor	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	for water and non-sticking liquids, compressed air and gases							
■ OUTLET PRESSU	RE RANGES										
SM	Standard version	with diaphragm	Inlet press	sure: 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	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	CTION INLET / OL	JTLET THREADED	CONNECTIONS								
f/f	Standard		Female thr	read BSP-P / Female	thread BSP-P	DIN EN ISO 228-1 / D	IN FN ISO 22				

Elastomere moulded diaphragm and seals

Elastomere moulded diaphragm and seals



■ SEALS

Fluorocarbon

Ethylene propylene diene

FKM

EPDM

-10°C to +120°C

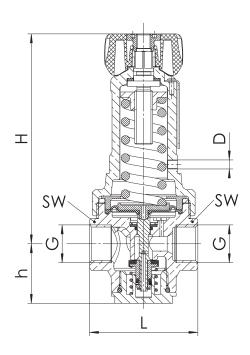
-40°C to +120°C

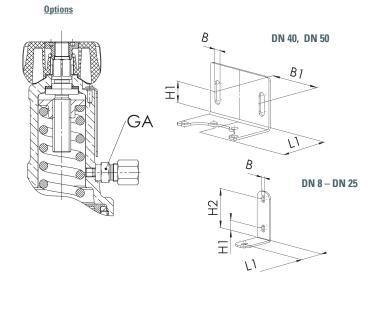
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 684: Connection, in:	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
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	tion type	Conn		tion size	Seal	Options	Optional: fixed setting	Quantit
				DN	Inlet	Outlet	I	nlet	Outlet				
684	m	GS	SM	20	f	f		20	20		FKM	<i>\$17</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 tl	ne valve finish	[
S27	Without hand hexagon wre		tic cap. To be	e set by means o	of [
S68	Wall mount				[
S 69	Inside coatin with strong s			n properties	[
nly valid	for nominal wid	dth DN 8, DN 1	0, DN 15 and E	DN 25.									
■ OPTI	ONS												
GOX	Especially for of specific multiple production public pressure.	nt [P10	Duct medi		venting of r	non-neutral ga	ases in case o	f			
P01	Oil- and grea	[FE	Setting and sealing								
P02	Chemically n	[S71	Preliminary setup for protection against manipulation of the preset pressure (seal)								
P03	Galvanically	nickel-plated	l finish										
■ CERT	TIFICATES / /	APPROVAL	S										
C01	Factory cert	ificate acc. I	DIN EN 1020	4 2.2 (WKZ 2.2)	[C05	Man	ing material ufacturer cert se indicate de),	
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)						C06	ATEX	evaluation a	cc. to 2014/3	34/EU		
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)						C10	Certi	ficate of oil- a	and grease f	ree productio	n	
C04	TÜV/DEKRA i (TÜV/DEKRA		pection acc.	EN 10204 3.2	[
■ ADM	ISSIONS / A	CCREDITA	TIONS										
AA1	EC Type exa	mination acc	. to Directive	e 2014/68/EU		\boxtimes	AK1	Deti	Norske Verita	as (DNV) tvi	e approval		
AA4	EAC - certificand laser ma			AK2		d's Register (
		-					AK3	Ame	rican Bureau	of Shipping	ı (ABS) type	approval	
					[AK5	Russ	sian Maritime approval				
							AK6	Regi	stro Italiano	Navale (RIN	IA) type appr	oval	
							AL	Indiv	vidual inspect y to be indica	tion by notif	ied body ins	oector –	

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