→ Series 684



■ 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

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

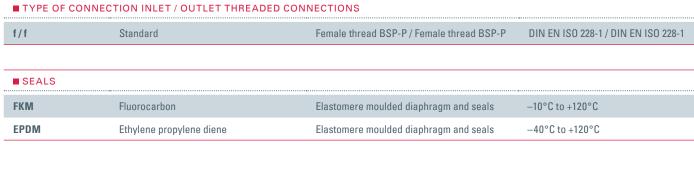
DNV
LR EMEA
BV
RRS
RRS
RRS
RINA

■ 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		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 coi	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	Outl	Outlet pressure: 0,5 to 15 bar					
SK HK	Standard version High-pressure ve			sure: up to 60 bar sure: up to 60 bar		Outlet pressure: 5 to 30 bar Outlet pressure: 10 to 50 bar					
■ AVAILABLE NOM	NAL DIAMETERS	S AND CONNECTION	ON SIZES								
Nominal diameter DN	ninal 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)				
TVPE OF CONNEC	STION INLET / OL	JTI FT THREADED	CONNECTIONS								
		TILLI TIMLADED									
f/f	Standard	rd Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN ISO 2									



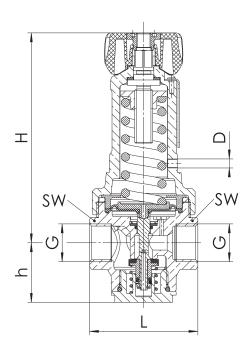


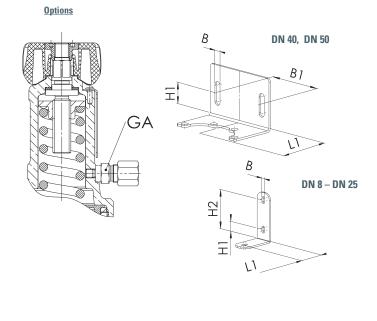
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

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







684 684 684 684	m k	GS	pressure	DN	Inlet	0 11						fixed setting			
684 684		GS		diameter DN	IIIIet	Outlet		Inlet	Outlet						
684	k		SM	20	f	f		20	20		FKM	<i>\$17</i>	5		
		GF0	SK	40	f	f		40	40		EPDM		1		
684					f	f									
					f	f									
■ PROPEF	RTIES														
\$17 St	upply with m	anometers	suitable for th	ne valve finish											
S27 Without hand wheel, plastic cap. To be set by means of hexagon wrench					f										
S68 W	all mount														
Wi	ith strong so	lvents such													
nly valid for	nominal wid	th DN 8, DN 10	0, DN 15 and D	N 25.											
■ OPTION	IS														
GOX of	Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process						P10		ted secondary ium G	venting of n	ion-neutral g	ases in case of			
P01 0i	Oil- and grease-free production						FE	Sett	ing and sealin	g					
P02 Ch	Chemically nickel-plated finish						S71		iminary setup set pressure (s	setup for protection against manipulation of the sure (seal)					
P03 Ga	alvanically n	ickel-plated	finish												
■ CERTIFI	ICATES / A	PPROVALS	\$					··· ·							
C01 Fa	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)						C05	Mar	Sealing material Manufacturer certification (FDA, USP 3, 3-A,), Please indicate description of certificate:						
C02 Te	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)						C06	ATE	X evaluation a	ation acc. to 2014/34/EU					
	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)				.1)		C10	Cert	tificate of oil- a	on					
C04 TÜ	ÜV/DEKRA ir ÜV/DEKRA-	ndividual ins APZ)	pection acc.	EN 10204 3.2											
······		CCREDITAT						<u>.</u>							
				e 2014/68/EU	,		AK1	Det	Norske Verita	as (DNV) typ	e approval				
an an	nd laser mai	king of the	valve	ssport for the v	aive		AK2	Lloy	vd's Register (LR) type ap	proval				
AA11 UI	K Type exan K PESR 2016	nination acc 3 No. 1105	to Directive				AK3	Amo	erican Bureau	ı of Shipping	(ABS) type	approval			
						AK5		sian Maritime e approval	Register of	Shipping (R	MRS)				
						AK6	Reg	istro Italiano	Navale (RIN	A) type appr	roval				
							AL		vidual inspec dy to be indica		ied body insp	oector –			

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