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

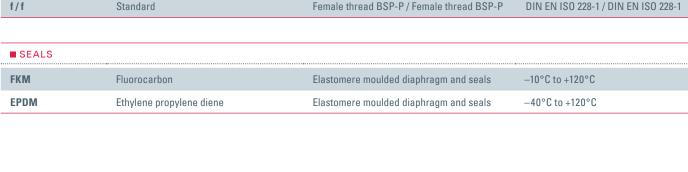
DNVGL DNVGL
Lloyd's Register EMEA LR EMEA
Bureau Veritas BV
Russian Maritime Register of Shipping RS

■ 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 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	with piston ersion with piston		Inlet pressure: up to 60 bar Outlet pressure: 5 to 30 bar Outlet pressure: 10 to 50 bar							
■ AVAILABLE NOM	INAL DIAMETER	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)				
TVPE OF CONNEC		ITI ET TURE ARER	CONNECTIONS								
I THE OF CONNEC	TION INLET / O	LET / OUTLET THREADED CONNECTIONS The state of the state									



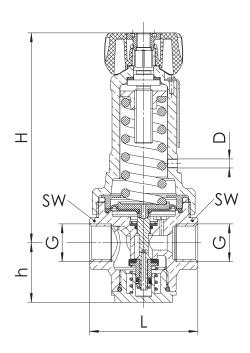


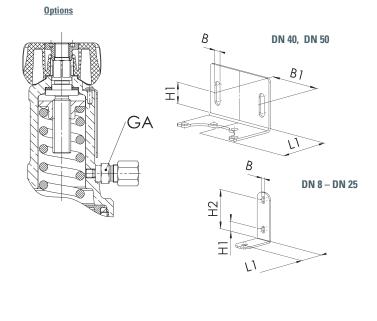
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 684: Connection, ins	stallation (dimensions, rang	jes of adjustment	t				
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	M5	M5	M5	M5	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	Connectio	n type	Co	onnectio	n size	Seal	Options	Optional: fixed setting	Quantity	
	version		pressure	diameter DN	Inlet	Outlet	Inle	et	Outlet			nxed setting		
684	т	GS	SM	20	f	f	20		20		FKM	S17	5	
684	k	GF0	SK	40	f	f	40		40		EPDM		1	
684					f	f								
684					f	f								
■ PROI	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	f)								
S68	Wall mount													
S69	Inside coatin with strong s			n properties)								
■ OPTI	ONS													
GOX	Especially fo of specific m production p	nt]		Ducted medium		ry venting of non-neutral gases in case of							
P01	Oil- and grea	se-free prod]	FE	Setting and sealing								
P02	Chemically n	ickel-plated)		Preliminary setup for protection against manipulation of the preset pressure (seal)								
P03	Galvanically	nickel-plated	l finish]								
■ CERT	TIFICATES / A	APPROVAL	S											
C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2))	C05	Manufa		erial er certification (FDA, USP 3, 3-A,), ate description of certificate:				
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)]	C06	ATEX ev	/aluation a	on acc. to 2014/34/EU				
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part))	C10	Certifica	ate of oil- a	and grease fr	ree productio	on		
C04	TÜV/DEKRA i (TÜV/DEKRA-		pection acc.	EN 10204 3.2]								
■ ADM	ISSIONS / A	CCREDITA	TIONS											
AA1	EC Type exar	mination acc	. to Directive	e 2014/68/EU	\boxtimes]	AK1	DNV-G	L (DNVGL)	type approv	/al			
	EAC - certific and laser ma			ssport for the v	alve _)	AK2	Lloyd's	Register (LR) type app	oroval			
)	АК3	Americ	an Bureau	of Shipping	(ABS) type	approval		
]	AK5	Russiar type ap	n Maritime proval	Register of	Shipping (R	MRS)		
)	AK6	Registr	o Italiano	Navale (RIN	A) type appr	roval		
]			ual inspec		ied body insp	oector –	Г	

■ ENQUIRY

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

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

