Pressure reducing valves made of gunmetal with female threaded connections

→ 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

((



■ 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

■ APPROVALS

European Pressure Equipment Directive

TR ZU 032/2013 - TR ZU 010/2011

Requirements

PED 2014/68/EU

Classification society

Germanischer Lloyd GL Lloyd's Register EMEA LR EMEA 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



■ VALVE VERSION										
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 seco	ondary venting	Compress Non-neut	ed air and gases. ral, poisonous gases	only in combination	on with ducted exhau	ust.			
GF0	gaseous and liquid without secondary	l y venting	for water	and non-sticking liq	uids, compressed a	air and gases				
OUTLET PRESSU	RE RANGES									
SM	Standard version v	vith diaphragm	Inlet press	sure: up to 60 bar	Outl	et pressure: 0,5 to 15	bar			
SK HK	Standard version v High-pressure vers			sure: up to 60 bar sure: up to 60 bar		Outlet pressure: 5 to 30 bar Outlet pressure: 10 to 50 bar				
Fixed setting at a requ	uired outlet pressure	anainst surcharne								
■ AVAILABLE NOMI Nominal diameter DN nlet female	8 1/4" (8)	10 3/8" (10)	15 1/2" (15)	20 3/4" (20)	25 1" (25)	40 1 1/2" (40)	50 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 / OU	TLET THREADED	CONNECTIONS	<u> </u>						
f/f	Standard		Female th	Female thread BSP-P / Female thread BSP-P DIN EN ISO 228-1 / DIN EN ISO 228						
■ SEALS										
FKM	Fluorocarbon		Elastomer	Elastomere moulded diaphragm and seals -10°C to +120°C						
EPDM	Ethylene propylene	diene	Elastomer	Elastomere moulded diaphragm and seals -40°C to +120°C						
OPTIONS AGAINS	ST SURCHARGE									
Pressure gauge 40, 42	, 44, 45, 46 and 47		Chapter A	ccessories						
GA: ducted exhaust ai GA - SV GA - CK		GS (specific ducting	Cutting ri	_		N ISO 8434-1 for pipo 10 bar.	e diameter 6			
				le: 684 Wall mount -l						
Wall mount			Order cod	le: 684 vvali mount -i	JIN					
Wall mount Service parts:			order cod	e: 004 vvan mount -1	NIV					



Service Pack (seals and disc)

684 piston version **k**; FKM or EPDM Service Pack (seals and disc)

684 diaphragm version **mGS**; FKM or EPDM Service Pack (seals and disc) 684 diaphragm version **mGFO**; FKM or EPDM Order code: 684k-DN... <FKM or EPDM> Service Pack

Order code: 684mGS-DN... < FKM or EPDM> Service Pack

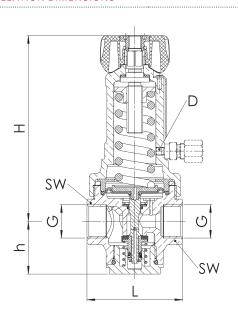
Order code: 684mGFO-DN... < FKM or EPDM> Service Pack

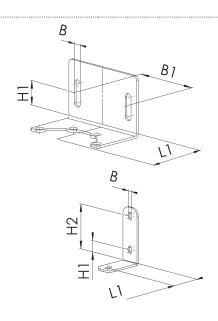
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

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	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





■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series Valve Mediu version		n Outlet pressure	Nominal diameter DN	Connection type		Connection size		Seal	Option	Optional feature	Quantity	
				Inlet	Outlet	Inlet	Outlet			Touturo		
684	m	GS	SM	20	f	f	20	20	FKM	Pressure Gauge 40	GA-SV	5
684	k	GF0	SK	40	f	f	40	40	EPDM			1
684					f	f						
684					f	f						

In this table you can configure a valve according to your individual requirements (similar to the *example* shown, which should be deleted before you enter your own data). Please complete the table by hand using the abbreviations in this datasheet and then fax it to: +49(0)7141.4889488 Please do not forget to add your personal data so that our sales team can contact you.

Name	
First Name	
Company	
Telephone	
E-Mail	

