→ Series 683

683

Pressure reducing valves made of gunmetal with female threaded connections



SUITABLE FOR

Air, gases and vapours	neutral

EXAMPLES OF USE

For the protection of:
- commercial and industrial plants
against too high supply pressure.
Pressure reducers are used, if within a piping system despite of varying pressures on the inlet side a certain pressure must not be exceeded on the outlet side.

- compressed air supply plants
- pneumatic control units
- pressure booster plants air-side
- shipbuilding industry and offshore plants

MATERIAL

SPECIFICATION

3/8“ – 1 1/4“

– 10°C to + 95°C

Inlet pressure:
up to 50 bar
Outlet pressure:
1,5 to 10 bar
depending on version

APPROVALS

European Pressure Equipment Directive

GOST-R

Requirements

PED 97/23/EC

Classification society

Germanischer Lloyd	GL
Lloyd's Register EMEA	LR EMEA
American Bureau of Shipping	ABS
Bureau Veritas	BV

MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Gunmetal	CC499K	CC499K
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass	CW614N	CW614N
Spring	Spring steel	1.1200	ASTM A228

VALVE VERSION

m	with diaphragm	High-quality, heat-resistant moulded elastomere, fabric-reinforced diaphragm. Pressure adjustment by means of spindle. Version completely made of metal. Balanced single seat valve, body with G 1/4“ connection for pressure gauge on both sides.

MEDIUM

G	gaseous	Compressed air and neutral gases

TYPE OF LIFTING MECHANISM

0	without lifting device

OUTLET PRESSURE RANGES

SP	Standard version	Inlet pressure: up to 50 bar (size 1 1/4“ up to 30 bar) **Largest reduction ratio 10:1**	Outlet pressure: from 1,5 to 10 bar

Fixed setting at a required outlet pressure against surcharge.

AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	**10**	**15**	**20**	**25**	**32**
Inlet female connection	3/8“ (10)	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)
Outlet **female connection**	3/8“ (10)	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)

TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

f / f	Standard	Female thread BSP-P /Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1

SEALS

NBR	Nitrile rubber	Elastomere diaphragms and seals	–10°C to +95°C

OPTIONS

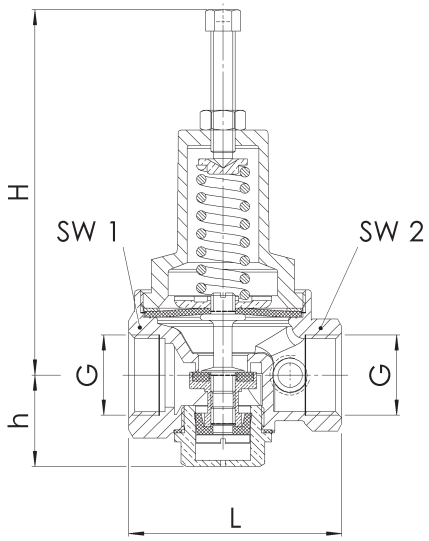
Against surcharge	
Pressure gauges 36 and 40	Chapter Accessories

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 683: Connection, installation dimensions, ranges of adjustment						
Nominal diameter	**DN**	**10**	**15**	**20**	**25**	**32**
Connection DIN EN ISO 228	**G**	3/8" (10)	1/2" (15)	3/4" (20)	1" (25)	1 1/4" (32)
Inlet pressure to	**bar**	50	50	50	50	30
Outlet pressure[1]	**bar**	1,5-10	1,5-10	1,5-10	1,5-10	1,5-10
Installation dimensions in mm	**L**	73	73	70	87	100
	H	100	100	120	165	175
	h	22	22	30	35	43
	SW1	27	27	36	44	54
	SW2	27	27	32	40	49
Weight	**kg**	0,5	0,5	0,8	1,4	2,0

[1]Largest reduction ratio 10:1

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Outlet pressure	Nominal diameter DN	Connection type		Connection size		Seal	Options	Optional: fixed setting	Quantity
						Inlet	Outlet	Inlet	Outlet				
683	**m**	**G**	**0**	**SP**	*20*	**f**	**f**	*20*	*20*	**NBR**	*Pressure Gauge 36*		*5*
683	**m**	**G**	**0**	**SP**	*32*	**f**	**f**	*32*	*32*	**NBR**		*4,0*	*1*
683	**m**	**G**	**0**	**SP**		**f**	**f**			**NBR**			
683	**m**	**G**	**0**	**SP**		**f**	**f**			**NBR**			

In this table you can configure a valve according to your individual requirements (similar to the *example* shown, which sh*ould 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

CAPACITY CHART

Series 683:

Determination of the size and capacity

