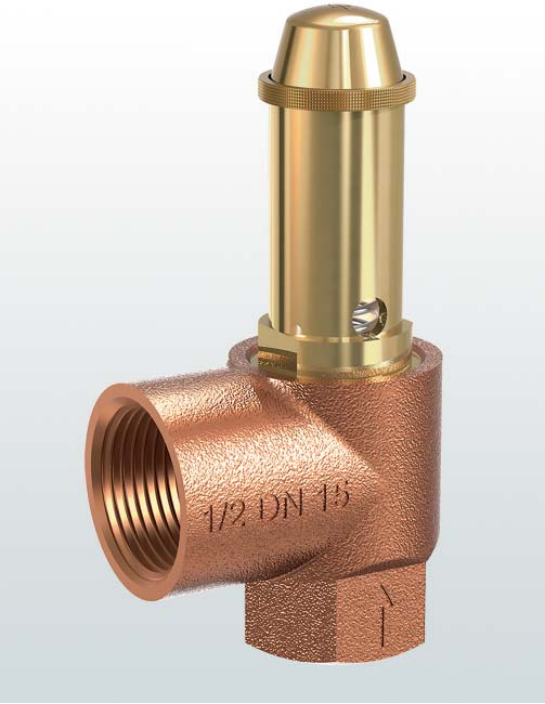
→ Series 651mSK

651mSK

Diaphragm safety valves made of gunmetal, angle-type with threaded connections



SUITABLE FOR

Solar heating systems

EXAMPLES OF USE

For the protection of:
- closed-circuit, intrinsically safe solar heating systems with water or water mixtures as a heat transfer medium, with permissible supply temperatures of up to 120°C.

As these valves are completely made of metal, they can also be installed at high environmental or radiation temperatures. All materials suitable for max. temperatures up to 160°C.

- intrinsically safe, thermal solar plants

For non intrinsically safe plants and temperatures >120°C please use the safety valves 451/851bG series or 452/852bGL series.

Safety valves are set and sealed at the factory.

MATERIAL

SPECIFICATION

1/2“ – 1“	– 10°C to + 120°C	2,0 – 10 bar

APPROVALS

TÜV Type test approval 2013	**SOL**
EC type examination	**SOL**
TSG ZF001-2006	**SOL**
TR ZU 032/2013 - TR ZU 010/2011	**SOL**

Requirements

TRD 721
DIN 4757 Part 1
DIN EN 12976
DIN EN ISO 4126-1
PED 2014/68/EU

Classification society

American Bureau of Shipping	ABS
Det Norske Veritas	DNV
Bureau Veritas	BV
Russian Maritime Register of Shipping	RS
Lloyd's Register EMEA	Lloyd's Register EMEA
Germanischer Lloyd	GL

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	Standard with diaphragm	The diaphragm prevents the medium entering into the spring housing and protects moving parts from being affected by the medium.

MEDIUM

S	Solar hot-water or solar hot-water mixtures	Flow temperature ≤ 120°C in intrinisically safe solar systems

TYPE OF LIFTING MECHANISM

K	Standard with twist-type lifting mechanism

AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN		**15**	**20**	**25**
Inlet		1/2“ (15)	3/4“ (20)	1“ (25)
Outlet	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 10226, ISO 7-1 / DIN EN 10226, ISO 7-1
m / f	On request for DN 15	Male thread BSP-P /Female thread BSP-P	DIN EN 10226, ISO 7-1 / DIN EN 10226, ISO 7-1

SEALS

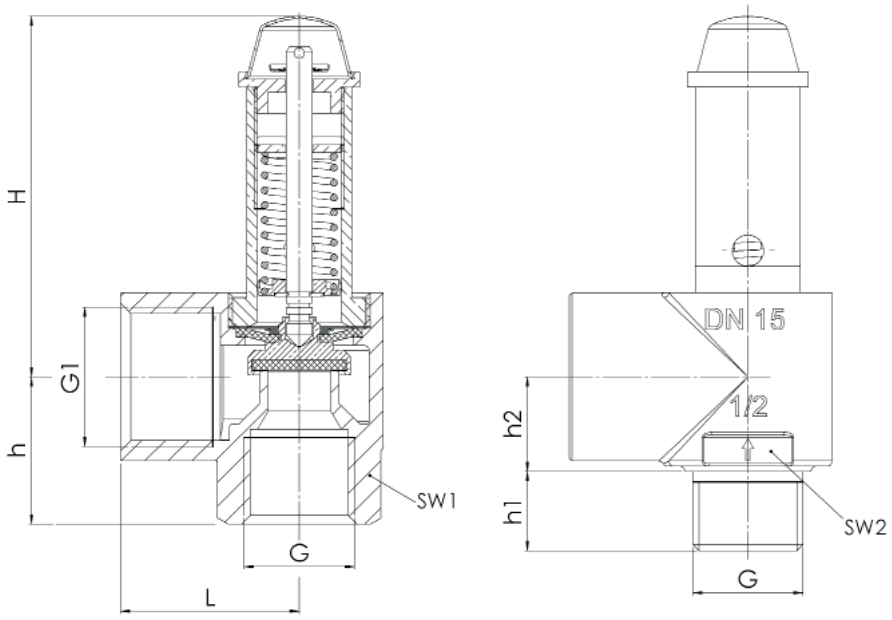
EPDM	Ethylene propylene diene	Elastomere flat seal and diaphragm (up to 100% glycol resistant)	–10°C to +120°C

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 651mSK: Connection, installation dimensions, ranges of adjustment				
Nominal diameter	**DN**	**15**	**20**	**25**
Connection DIN EN 10226-1	**G**	1/2" (15)	3/4" (20)	1" (25)
Outlet DIN EN 10226-1	**G1**	3/4" (20)	1" (25)	1 1/4" (32)
Installation dimensions in mm	**L**	34	40	45
	H	70	65	75
	h	28	34	41
	h1	15	-	-
	h2	18	-	-
	SW1	27	32	40
	SW2	27	-	-
Weight	**kg**	0,30	0,45	0,75
Set pressure[1]	**bar**	3, 4, 6, 8, 10	3, 4, 6, 8, 10	3, 4, 6, 8, 10

[1]Other pressures between 2 bar and 10 bar against surcharge

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Options	Set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet				
651	**m**	**S**	**K**	*25*	*f*	**f**	*25*	*32*	**EPDM**		*3,0*	*10*
651	**m**	**S**	**K**	*15*	*m*	**f**	*15*	*20*	**EPDM**		*6,0*	*2*
651	**m**	**S**	**K**			**f**			**EPDM**			
651	**m**	**S**	**K**			**f**			**EPDM**			

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 _____

CAPACITY TABLE

Series 651mSK: Blowing-off rates at 0,5 bar or 10% above set pressure								
	Nominal diameter	DN	15		20		25	
Solar plants	Capacity		kW	Kcal/h	kW	Kcal/h	kW	Kcal/h
	DIN 4757		50	45.000	100	90.000	200	175.000
	Surface of the collector inlet	m²	50		100		200	

www.goetze-armaturen.de | info@goetze-armaturen.de | Phone: +49(0)7141.48894-60