

852bHL

Safety valves made of
gunmetal, angle-type with
flange connections

→ **Series 852bHL**

■ SUITABLE FOR

Hot water



■ EXAMPLES OF USE

For the protection of:

- thermostatically protected closed-circuit water heating systems with flow temperatures of up to 120°C for all static heights or rated output above 350 kW according to TRD 721, DIN 4751 and DIN EN 12828.

Should the thermostatic limiting and control unit fail, the safety valve has to blow-off the total heating output of the boiler as hot water and steam.

As these valves are completely made of metal they can also be installed at high environmental or radiation temperatures.

- heating systems for building technology and industrial applications
- co-generation plants (CHP)
- biogas plants
- district heating transfer stations, building sub-stations

Safety valves are set and sealed at the factory.



■ MATERIAL



■ SPECIFICATION



DN 40 and DN 50 – 10°C to + 120°C 0,5 – 25 bar

■ APPROVALS

TÜV Type test approval 2007 D/G/H

EC type examination D/G/H

TR ZU 032/2013 - TR ZU 010/2011 D/G/H

Requirements

TRD 721	DIN EN 12828
TRD 421	DIN EN ISO 4126-1
DIN 4751 Part 2	PED 2014/68/EU
DIN 4757 Part 1 and Part 2	

Classification society

DNVGL	DNVGL
Lloyd's Register EMEA	LR EMEA
American Bureau of Shipping	ABS
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	Stainless steel	1.4404	316 L
Spring	Stainless steel	1.4310	302
Bellows	Elastomere	EPDM	

b	with bellows	for neutral and non-neutral media. Spring, moving parts and the environment are protected from being affected by the medium.
----------	--------------	---

■ MEDIUM

H	Hot water	Flow temperature ≤ 120°C in water heating systems
----------	-----------	---

■ TYPE OF LIFTING MECHANISM

L	Standard with lifting lever
----------	-----------------------------

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN		40	50
Inlet		40	50
Outlet	65	■	
	80		■

■ TYPE OF CONNECTION INLET / OUTLET FLANGE CONNECTIONS

FL / FL	Standard	Flange connection / flange connection	DIN EN 1092 / DIN EN 1092
----------------	----------	---------------------------------------	---------------------------

■ SEALS

EPDM	Ethylene propylene diene	Elastomere moulded seal with metallic support	−10°C to +120°C
-------------	--------------------------	---	-----------------

■ OPTIONS

Special versions on request.

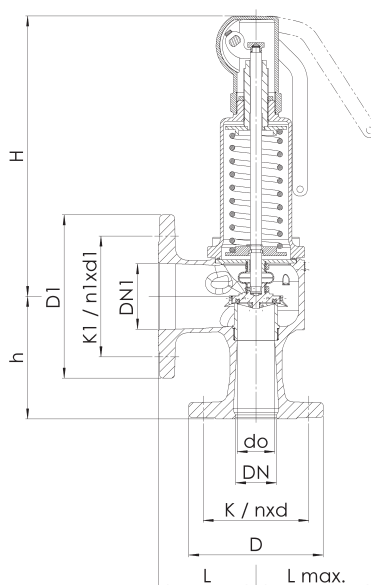
Against surcharge

Connection for condensate pipe G 1/4" with sealing plug	Order description: AKL
---	-------------------------------

■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 852bHL: Connection, installation dimensions, ranges of adjustment			
Nominal diameter	DN	40	50
Connection DIN EN 1092	DN / PN	40 / 40	50 / 40
Outlet DIN EN 1092	DN / PN	65 / 16	80 / 16
Installation dimensions in mm	L	115	120
	Lmax.	150	150
	H	345	345
	h	140	150
	D	150	165
	D1	185	200
	K / nxd	110 / 4x18	125 / 4x18
	K1 / n1xd1	145 / 4x18	160 / 8x18
	do	37	46
Weight	kg	17	19
Range of adjustment	bar	0,5-25	0,5-25

■ 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				
852	b	H	L	40	FL	FL	40	65	EPDM	AKL	6,5	3
852	b	H	L	50	FL	FL	50	80	EPDM		4,0	1
852	b	H	L		FL	FL			EPDM			
852	b	H	L		FL	FL			EPDM			

■ ENQUIRY

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

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

Series 852bHL: Blowing-off rates at 10% above set pressure				
Nominal diameter DN		40		50
Set pressure bar		I	II	I II
Heating I kW	0,5	320	503	480 750
	1	490	785	740 1176
	1,5	640	1032	960 1547
Steam II kg/h	2	780	1273	1190 1939
	2,5	920	1510	1400 2294
	3	1040	1726	1600 2661
	3,5	1160	1937	1790 2985
	4	1280	2151	1980 3315
	4,5	1400	2364	2160 3643
	5	1510	2575	2330 3970
	5,5	1630	2789	2520 4299
	6	1750	3003	2690 4629
	6,5	1860	3212	2860 4951
	7	1970	3420	3040 5272
	7,5	2080	3632	3210 5598
	8	2190	3843	3380 5923
	8,5	2300	4053	3540 6247
	9	2410	4263	3710 6570
	9,5	2520	4472	3880 6893
	10	2620	4681	4040 7215
	11	2840	5097	4380 7856
	12	3050	5511	4700 8494
	13	3260	5928	5030 9138
	14	3470	6348	5340 9784
	15	3670	6763	5660 10425
	16	3880	7181	5980 11069
	17	4080	7586	6280 11693
	18	4280	8002	6590 12334
	19	4470	8416	6880 12973
	20	4660	8835	7190 13617
	21	4860	9253	7490 14261
	22	5040	9670	7770 14905
	23	5240	10087	8070 15547
	24	5430	10503	8370 16190
	25	5620	10920	8660 16831

In order to achieve the highest possible heating output, up to three valves per system can be installed.

To protect indirectly heated heat generators in accordance with DIN 4751 Part 2 the safety valves have to be rated for the flow rate of the expansion water.
For the valid blow-off capacities in m³/h water see capacity chart **852 on datasheet 3.9**