

Valvola di sicurezza a molla flangiata in bronzo

→ Serie 852



■ MATERIALE: BRONZO



■ SPECIFICHE



DN 40 a DN 50



- 60°C a + 225°C
In dipendenza dalla versione



0,5 – 25 bar

■ SUITABLE FOR

Liquidi	Neutri e non	
Aria, gas e vapori	Neutri e non	
Vapore		

■ ESEMPIO D'USO

Per la protezione di:

- serbatoi a pressione e - sistemi per vapori, gas e liquidi neutri / non neutri
- caldaie a vapore e impianti a vapore
- mezzi di trasporto alla rinfusa per merci liquide, granulari e polverose¹

Rispettare le normative specifiche dell'impianto e l'uso della valvola appropriata e materiale di tenuta.

- impianti di aumento pressione (lato acqua / aria)
- attrezzatura antincendio
- impianti di caldaie industriali e commerciali
- industria navale e attrezzature marittime
- protezione della pompa

Le valvole di sicurezza sono settate e sigillate in fabbrica

■ APPROVAZIONI

TÜV-Typetestapproval2007	D/G, F,F/K/S ¹
EC type examination	S/G, L, F/K/S ¹
KGS	G
TRZU032/2013-TRZU010/2011	D/G (S/G), F (L), F/K/S ¹
Requirements	
AD 2000 Data sheet A2 TRD 421 TRB 801 No. 22 and No. 23 ¹	DIN EN ISO 4126-1 PED 2014/68/EU KGS AA 319
Classification society	
DNVGL Lloyd's Register EMEA American Bureau of Shipping Bureau Veritas Russian Maritime Register of Shipping	DNVGL LR EMEA ABS BV RS

■ MATERIALI

Componenti	Materiale	DIN EN	ASME
Corpo d'ingresso	Bronzo	CC499K	CC499K
Corpo uscita	Bronzo	CC499K	CC499K
Parti interne	Acciaio inox	1.4404	316 L
Molla	Acciaio inox	1.4310	302
Soffietti (opzionale)	Acciaio inox	1.4571	316 Ti

¹solo per version con soffiatti

s	non-gastight version of spring housing	for neutral media without counter pressure.
b	with bellows	for neutral and non-neutral media and/or counter pressure up to 4 bar. Spring, moving parts and the environment are protected from being affected by the medium.
t	gastight version of spring housing	for neutral and non-neutral media without counter pressure. The environment is protected from being affected by the medium.
tb	gastight version with bellows	for neutral and non-neutral an particularly for flammable, toxic and environmentally hazardous media and/or counter pressure up to 4 bar. Spring, moving parts and the environment are protected from being affected by the medium. Double gastight.

■ MEDIUM

G	gaseous	Air, vapours, gases and - depending on safety valve version and seal - also for steam
F	liquid	The temperature of the medium under atmospheric pressure must not reach boiling point
GF	gaseous and liquid	Air, vapours, gases, steam and liquids

■ TYPE OF LIFTING MECHANISM

L	Standard with lifting lever
O	without lifting device

AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

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

CONNECTION TYPE INLET / OUTLET FLANGE CONNECTIONS

FL / FL	Standard	Flangeconnection / flangeconnection	DIN EN 1092 / DIN EN 1092
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SEALS

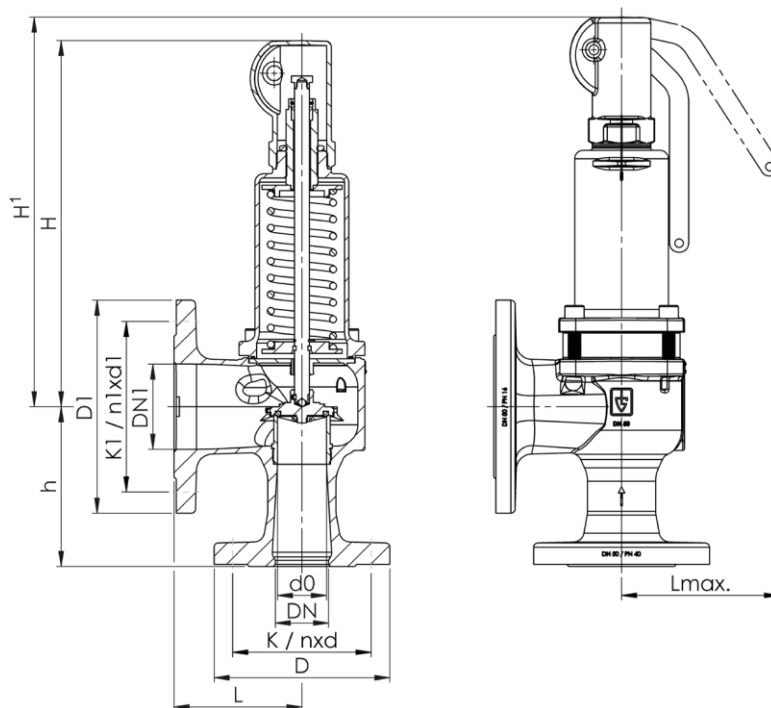
NBR	Nitrile rubber	Elastomere moulded seal with metallic support	-30°C to +130°C
EPDM	Ethylene propylene diene	Elastomere moulded seal with metallic support	-40°C to +170°C
FKM	Fluorocarbon	Elastomere moulded seal with metallic support	-20°C to +200°C
PTFE	Polytetrafluoroethylene	Flat seal	-60°C to +225°C
FFKM	Perfluorinated rubber	Elastomere moulded seal with metallic support	-10°C to +225°C
MD	Metal-to-metal sealing	Flat seal	-60°C to +225°C

■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 852: 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 / H ¹	345 / 362	345 / 362
	h	140	150
	D	150	165
	D1	185	200
	K / nxd	110 / 4x18	125 / 4x18
	K1 / n1xd1	145 / 4x18	160 / 8x18
	d0	37	46
Weight	kg / kg ¹	17 / 18	19 / 20
Range of adjustment	bar	0,5-25	0,5-25

¹Details for the version with bellows

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type		Connection size		Seal	Options	Set pressure	Quantity
					Inlet	Outlet	Inlet	Outlet				
852	s	G	L	50	FL	FL	50	80	PTFE	AKL	7,5	2
852	b	F	L	40	FL	FL	40	65	EPDM		5,0	4
852					FL	FL						
852					FL	FL						

■ TECHNICAL FINISHES, VARIANTS, ACCESSORIES

AKL	Connection for condensate in the outlet body G 1/4"	<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

PROPERTIES

GOX	Especially for gaseous O2 applications by employment of specific materials including oil- and grease free production process		P03	Galvanically nickel-plated finish	
P01	Oil- and grease-free production	<input type="checkbox"/>	P04	Chrome-plated finish	<input type="checkbox"/>
P02	Chemically nickel-plated finish	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

■ CERTIFICATES / APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	<input type="checkbox"/>	C07	SIL evaluation relating to IEC 61508-2	<input type="checkbox"/>
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)	<input type="checkbox"/>	C09	Seat tightness test with helium, leak detection method under vacuum incl. Factory Inspection Certificate 3.1 acc. to DIN EN 10204	
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)		C10	Certificate of oil- and grease free production	
C04	TÜV/DEKRA individual inspection acc. EN 10204 3.2 (TÜV/DEKRA-APZ)	<input checked="" type="checkbox"/>	C11	Certification of the production process especially for gaseous oxygen applications by employment of specific materials	<input checked="" type="checkbox"/>
C06	ATEX evaluation acc. to 2014/34/EU				

■ ADMISSIONS / ACCREDITATIONS

AA1	EC Type examination acc. to Directive 2014/68/EU	<input type="checkbox"/>	AK1	DNV-GL (DNVGL) type approval	<input type="checkbox"/>
AA2	TÜV component test acc. to VdTÜV specification sheet SV 100	<input type="checkbox"/>	AK2	Lloyd's Register (LR) type approval	<input type="checkbox"/>
AA4	EAC - certificate/declaration with passport for the valve and laser marking of the valve	<input checked="" type="checkbox"/>	AK3	American Bureau of Shipping (ABS) type approval	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	AK4	Bureau Veritas (BV) type approval	<input type="checkbox"/>
		<input type="checkbox"/>	AK5	Russian Maritime Register of Shipping (RMRS) type approval	<input type="checkbox"/>
		<input type="checkbox"/>	AK6	Registro Italiano Navale (RINA) type approval	<input type="checkbox"/>
		<input type="checkbox"/>	AL	Individual inspection by notified body inspector – (body to be indicated):	<input type="checkbox"/>

■ ENQUIRY

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Series 852: Blowing-off rates at 10% above set pressure									
Nominal diameter DN		40			50				
Set pressure bar		I	II	III	I	II	III		
Air I	0,5	667	503	23	995	750	36		
	1	983	785	32	1472	1176	49		
	Nm ³ /h	1,5	1299	1032	39	1948	1547	60	
Steam II	2	1615	1273	45	2461	1939	69		
	2,5	1926	1510	50	2926	2294	77		
	kg/h	3	2208	1726	55	3404	2661	85	
Water III	3,5	2491	1937	59	3839	2985	91		
	m ³ /h	4	2773	2151	63	4275	3315	98	
	4,5	3056	2364	67	4710	3643	104		
	5	3338	2575	71	5146	3970	109		
	5,5	3621	2789	74	5581	4299	114		
	6	3903	3003	77	6016	4629	120		
	6,5	4186	3212	81	6452	4951	124		
	7	4468	3420	84	6887	5272	129		
	7,5	4751	3632	86	7323	5598	134		
	8	5033	3843	89	7758	5923	138		
	8,5	5316	4053	92	8194	6247	142		
	9	5598	4263	95	8629	6570	146		
	9,5	5881	4472	97	9064	6893	150		
	10	6163	4681	100	9500	7215	154		
	11	6728	5097	105	10371	7856	162		
	12	7293	5511	109	11241	8494	169		
	13	7858	5928	114	12112	9138	176		
14	8423	6348	118	12983	9784	183			
15	8988	6763	122	13854	10425	189			
16	9553	7181	126	14725	11069	195			
17	10118	7586	130	15595	11693	201			
18	10683	8002	134	16466	12334	207			
19	11248	8416	138	17337	12973	213			
20	11813	8835	141	18208	13617	218			
21	12378	9253	145	19079	14261	224			
22	12943	9670	148	19949	14905	229			
23	13508	10087	151	20820	15547	234			
24	14073	10503	155	21691	16190	239			
25	14638	10920	158	22562	16831	244			