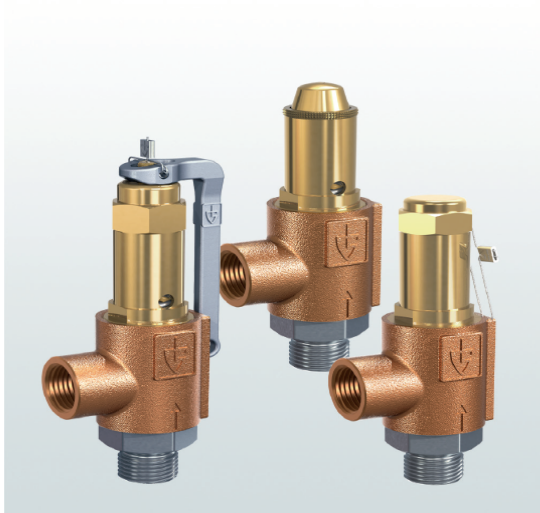


Type test approved safety valves angle-type for industrial applications

→ Series 861

861

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



SUITABLE FOR

Liquids	neutral and non-neutral	
Air, gases and vapours	neutral and non-neutral	
Steam		

EXAMPLES OF USE

For the protection of:

- pressure tanks and -systems for neutral / non-neutral vapours, gases and liquids
 - steam boilers and steam plants
- Please observe plant-specific regulations and use of appropriate valve version and sealing material.
- mechanical engineering
 - pump protection
 - process equipment construction and medical technology (sterilizers, autoclaves)
 - shipbuilding industry and marine equipment
 - pressure booster plants water-/ air-side
 - steam- and industrial boiler plants

Safety valves are set and sealed at the factory.



MATERIAL



SPECIFICATION



1/4" – 1/2"



– 60°C to + 225°C
depending on version



0,5 – 50 bar

APPROVALS

TÜV-Type test approval 2061	D/G, F
EC type examination	S/G, L
TSG ZF001-2006	D/G (S/G), F (L)
TR ZU 032/2013 - TR ZU 010/2011	D/G (S/G), F (L)
Requirements	
AD 2000 Data sheet A2 TRD 421 DIN EN ISO 4126-1	PED 2014/68/EU KGS AA 319

Classification society

DNVGL	DNVGL
Lloyd's Register EMEA	LR EMEA
American Bureau of Shipping	ABS
Bureau Veritas	BV
Russian Maritime Register of Shipping	RS
Registro Italiano Navale	RINA

MATERIALS

Component	Material	DIN EN	ASME
Inlet body	Stainless steel	1.4404	316 L
Outlet body	Gunmetal	CC499K	CC499K
Internal parts	Brass	CW617N	CW617N
Spring	Stainless steel	1.4310	302

Series 861 ■ VALVE VERSION

s	Standard, non-gastight version of the spring housing	for neutral media without counter pressure, not for medium in combination GF
t	gastight version of spring housing	for neutral and non-neutral media, not counter pressure compensated. The environment is protected from being affected by the medium.

■ MEDIUM

G	gaseous	Air, vapours, gases and 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

K	Standard with twist-type lifting mechanism, non-gastight version
L	Lifting lever, non-gastight version
O	without lifting device, standard for gastight version

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	8	10	15
Inlet	1/4" (8)	3/8" (10)	1/2" (15)
Outlet	1/2" (15)	■	■

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

m / f	Standard	Male thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
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■ SEALS

PTFE	Polytetrafluoroethylene	Flat seal up to 25 bar	-60°C to +225°C
PTFE+Kohle	Polytetrafluoroethylene + carbon	Flat seal from 25,1 bar	-60°C to +225°C

■ **NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS**

Series 861: Connection, installation dimensions, ranges of adjustment						
Nominal diameter	DN	8	10	15		
Connection DIN EN ISO 228	G	1/4" (8)	3/8" (10)	1/2" (15)	1/2" (15)	
Outlet DIN EN ISO 228	G1	1/2" (15)	1/2" (15)	1/2" (15)	1/2" (15)	
Installation dimensions in mm	L	34	34	34	34	
	Lmax	78	78	78	78	
	H	79	79	79	133	
	H1	93	93	93	150	
	Hmax	111	111	111	168	
	h	31	31	31	31	
	h1	12	12	15	15	
	SW	30	30	30	30	
	Coefficients of flow ISO 4126-1	$\alpha_w / Kdr (F)$	0,5	0,44	0,47	0,47
	Coefficients of flow ISO 4126-1	$\alpha_w / Kdr (D/G)^1$	0,68	0,64	0,71	0,71
	do	6	8	10	10	
Weight	kg	0,5	0,5	0,6	1	
Range of adjustment	bar	0,5-50	0,5-50	0,5-30	0,5-50	

¹Coefficients of flow for blow-off pressures >3,0 bar. For lower pressures refer to values in the capacity table.

■ **MAIN DIMENSIONS, INSTALLATION DIMENSIONS**

