

Safety Valves

Type 06395



Safety Valves, angle type, bronze, type tested TÜV-SV.910. D/G

Standard safety valve

open bonnet, with lifting device and enlarged outlet

In- and outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06395.X.0000

metal to metal seated for saturated steam, air and similar gases

Working temperature: -10°C / +14°F (263K) up to +225°C / +437°F (498K)

Part No. 06395.X.0500

with PTFE/carbon filled valve seal for saturated steam, air and similar gases

Working temperature: -10°C / +14°F (263K) up to +185°C / +365°F (458K)

Part No. 06395.X.0600

with EPDM valve seal for saturated steam, air and similar gases

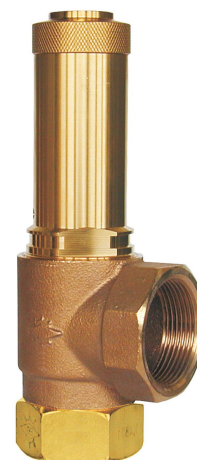
Working temperature: -10°C / +14°F (263K) up to +135°C / +275°F (408K)

Available options - on request only:

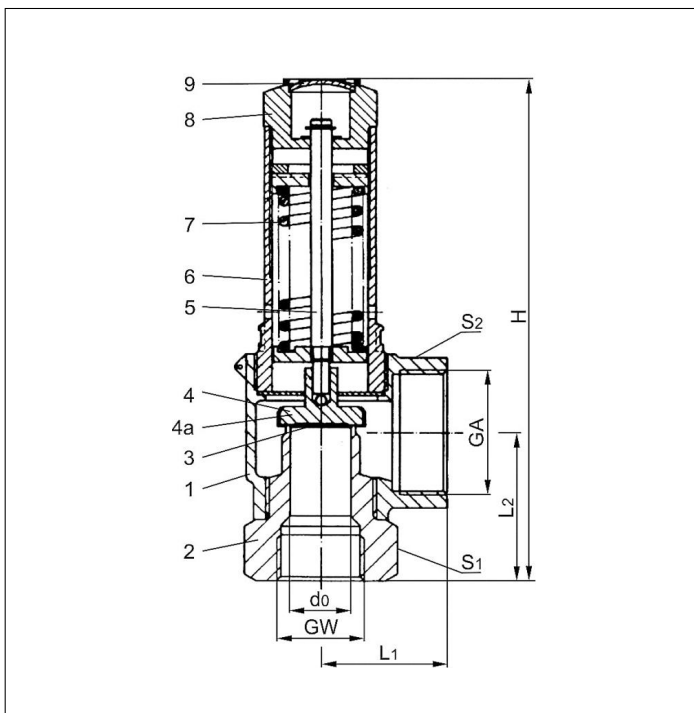
- stainless steel inlet body - material 1.4571
- external parts nickel plated

Applications:

Provided as safety device for protection against excessive pressure in pressure vessels and steam boilers.



Materials	DIN EN	ASTM
1 Body	CC491K	B 62 UNS C83600
2 Inlet body	CW614N	B 111 UNS C28000
3 Valve seal	PTFE/Carbon filled or EPDM	
4 Disc metal seated	1.4541	A 276 Grade 321
4a Disc soft seated	CW614N	B 283 UNS C38500
5 Stem	CW614N	B 283 UNS C38500
6 Bonnet	CW614N	B 283 UNS C38500
7 Spring	1.4571	A 276 Grade 316Ti
8 Lifting device	CW614N	B 283 UNS C38500
9 Closing cap	CW507L	B 30 UNS C26800



Essential: Valves are delivered at a set pressure, therefore when ordering please confirm set pressure, medium and temperature.

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 06395	Technical data				
Nominal size	GW	1/2	3/4	1	1-1/4
Orifice	d ₀	15	18	23	28
Dimension code	.X.	0400	0600	1000	1200
Set pressure range metal seated	bar	0.5-25	0.5-25	0.5-25	0.5-12
Set pressure range PTFE seal	bar	0.5-25	0.5-25	0.5-25	0.5-12
Set pressure range EPDM seal	bar	0.5-3	0.5-3	0.5-3	0.5-3
Outlet	GA	1	1-1/4	1-1/2	2
Height	H	144	166	195	222
Length	L ₁	36	50	48	58
Length	L ₂	41	48	58	68
Wrench size across flats	S ₁	32	41	50	55
Wrench size across flats	S ₂	41	50	58	70
Weight	ca. kg	0.75	1.25	1.85	3.0
Coeff. of discharge from 3.0 bar	α _w	0.64	0.58	0.57	0.66

Dimensions in mm.

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Discharge capacities

Calculation of mass flow acc. to AD2000-Merkblatt A2

Medium:

Air in m³/h at 0°C and 1013.25 mbar

Saturated steam in kg/h

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/2	3/4	1	1-1/4	1/2	3/4	1	1-1/4
	d ₀ (mm)	15.0	18.0	23.0	28.0	15.0	18.0	23.0	28.0
	A ₀ (mm ²)	176.7	254.5	415.5	615.5	176.7	254.5	415.5	615.5
Medium		Air				Saturated steam			
0.5		92	130	204	335	76	108	169	279
1.0		142	197	317	522	113	158	253	415
2.0		235	317	509	862	186	250	402	675
3.0		333	434	697	1196	260	339	544	927
4.0		417	545	875	1501	324	423	679	1155
5.0		503	657	1055	1810	388	507	813	1383
6.0		589	768	1233	2116	452	590	946	1613
7.0		674	879	1411	2422	515	672	1079	1844
8.0		761	993	1594	2736	578	755	1211	2065
9.0		846	1105	1773	3043	641	837	1343	2291
10.0		934	1219	1956	3356	704	919	1475	2517
12.0		1105	1442	2314	3971	830	1083	1738	2972
14.0		1276	1665	2672	-	955	1247	2001	-
16.0		1447	1888	3030	-	1081	1411	2264	-
18.0		1618	2112	3389	-	1206	1573	2525	-
20.0		1806	2357	3783	-	1331	1737	2788	-
22.0		1979	2583	4144	-	1456	1900	3050	-
24.0		2152	2802	4506	-	1583	2065	3314	-
25.0		2238	2921	4687	-	1643	2145	3442	-