

Full lift safety valve / Standard safety valve

ARI-SAFE

**Full lift safety valve D/G
Standard safety valve F**

- Type-test approved acc. to DIN EN ISO 4126-1 / AD2000-A2 / TRD421
- TÜV · SV · . . . -663 · D/G **Figure 901/911**
- TÜV · SV · . . . -663 · F **Figure 901/911**
- Further approvals: see inside

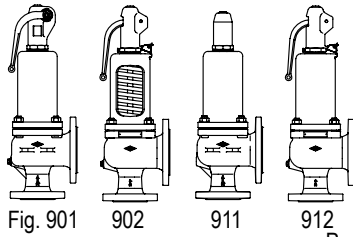


Fig. 901 902 911 912 Page 2

ARI-SAFE

**Standard safety valve
for the heating technology**

- Type-test approved acc. to DIN EN ISO 4126-1 / DIN EN 12828 / TRD 721
- TÜV · SV · . . . -688 · D/G/H **Figure 903**
- TÜV · SV · . . . -688 · D **Figure 904**

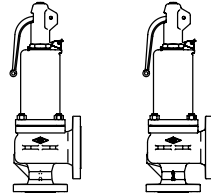


Fig. 903 904 Page 14

ARI-SAFE-P

Standard safety valve D/G/F

- Type-test approved acc. to DIN EN ISO 4126-1 / AD2000-A2
- TÜV · SV · . . . -811 · D/G **Figure 921/923**
- TÜV · SV · . . . -811 · F **Figure 921/923**

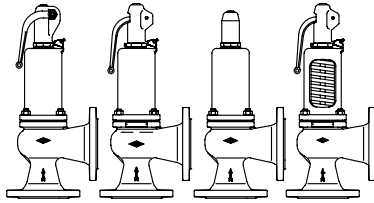


Fig. 921 922 923 924 Page 20

ARI-SAFE-TC

**Full lift safety valve D/G
Standard safety valve F**

- Type-test approved acc. to DIN EN ISO 4126-1 / AD2000-A2 / TRD421
- TÜV · SV · . . . -995 · D/G **Figure 941-943**
- TÜV · SV · . . . -995 · F **Figure 941/943**

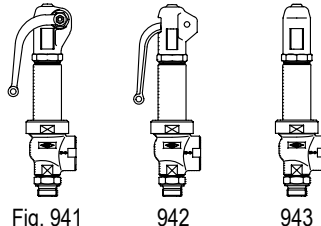


Fig. 941 942 943 Page 26

ARI-SAFE-TC

**Standard safety valve
for the heating technology**

- Type-test approved acc. to DIN EN ISO 4126-1 / DIN EN 12828 / TRD 721
- TÜV · SV · . . . -997 · D/G/H **Figure 945**
- TÜV · SV · . . . -997 · D **Figure 946**

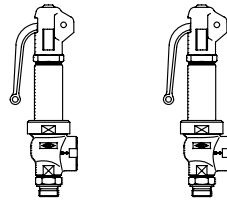


Fig. 945 946 Page 30

ARI-SAFE-TCP

Standard safety valve D/G/F

- Type-test approved acc. to DIN EN ISO 4126-1 / AD2000-A2
- TÜV · SV · . . . -1041 · D/G **Figure 961-963**
- TÜV · SV · . . . -1041 · F **Figure 961/963**

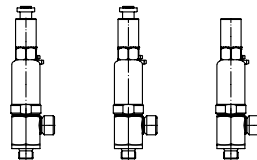


Fig. 961 962 963 Page 34

ARI-SAFE-TCS

Standard safety valve D/G/F

- Type-test approved acc. to DIN EN ISO 4126-1 / AD2000-A2
- TÜV · SV · . . . -1041 · D/G **Figure 951-953**
- TÜV · SV · . . . -1041 · F **Figure 951/953**

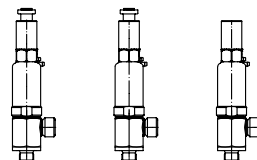


Fig. 951 952 953 Page 38

ALSO FOR HORIZONTAL APPLICATION



Fig. 900



Fig. 940

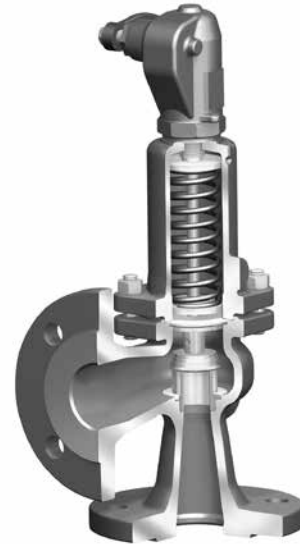


Fig. 920



Fig. 950/960

Features:

- Direct loaded with spring
- Wear resistant seat/disc
- Precision disc alignment and guide
- Possible with soft seal disc
- Possible with EPDM bellows
- Possible with stainless steel bellows
- ARI-SAFE-TC/TCP/TCS:
All common thread types

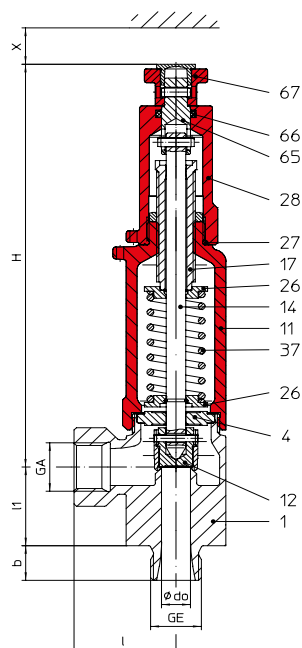
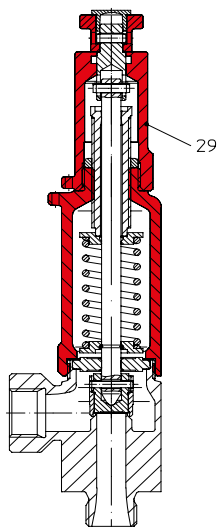
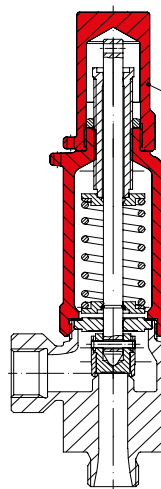
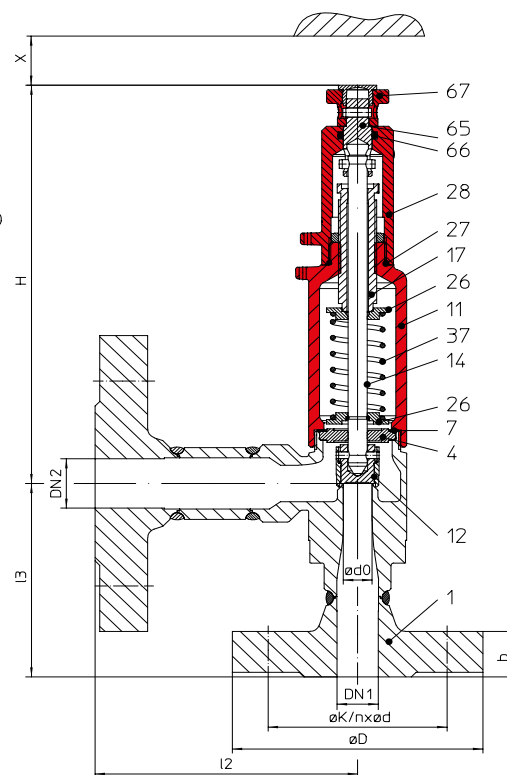
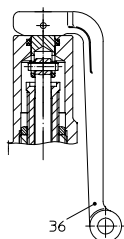
ARI-SAFE-TCP - Standard safety valve D/G/F

Fig.961
 closed lifting device

Fig.962
 open lifting device

Fig.963
 gastight cap

Fig.961 / 962 / 963
 optional with flange

Fig.961 / 962 / 963
 optional with lever

Figure	Nominal pressure	Material	Nominal diameter	Temperature range	Connection
67.961 / 962 / 963	PN100	1.4581/EN-JS1049	DN15 - 25	-10°C to +300°C (up to +400°C on request)	Thread DIN ISO 228 Part 1
57.961 / 963	PN100	1.4581	DN15 - 25	-60°C to +300°C (up to +400°C on request)	Thread DIN ISO 228 Part 1
67.961 / 962 / 963....1	PN100*	1.4581/1.4571/EN-JS1049	DN15- 25	-10°C to +300°C (up to +400°C on request)	Flange DIN EN 1092-1
57.961 / 963....1	PN100*	1.4581/1.4571	DN15- 25	-10°C to +300°C (up to +400°C on request)	Flange DIN EN 1092-1

* optional flange ANSI600 EN 1759-1

Construction

Safety valve, spring loaded, direct loaded

Requirement

Acc. to EN ISO 4126-1, VdTÜV-leaflet 100, AD2000-A2

Type-test approval

Standard safety valve:	Fig. 961/962/963	TÜV · SV ...-1041 · D/G
Standard safety valve:	Fig. 961/963	TÜV · SV ...-1041 · F

Sizing

for steam, air and water refer to capacity tables, calculations acc. to EN ISO 4126-1, TRD 421 and AD2000-A2

Details required

Medium gasform:	Mass flow (kg/h), molar mass (kg/kmol), Isotropic exponent, temperature (°C), set pressure (barg), back pressure (barg)
Medium liquid:	Mass flow (kg/h), density (kg/m ³), viscosity, temperature (°C), set pressure (barg), back pressure (barg)

Order data:

ARI-SAFE-TCP - Safety valve, Figure, DN ... / ..., PN .. / .., Material, Set pressure bar

standard: without metal bellows
Superimposed back pressure

no backpressure allowed

Built up back pressure

max. 10% from set pressure (higher on request)

Parts				
Pos.	Sp.p.	Description	Fig. 67.961/962/963	Fig. 57.961/963
1		Body	GX5CrNiMoN19-11-2, 1.4581	
4		Spindle guide	X6CrNiMoTi17-12-2, 1.4571	
7	x	Gasket	Pure graphite (CrNi laminated with graphite)	
11		Bonnet, closed	EN-GJS-400-18U-LT, EN-JS1049	GX5CrNiMoN19-11-2, 1.4581
12		Disc	X6CrNiMoTi17-12-2, 1.4571	
14	x	Spindle	X6CrNiMoTi17-12-2, 1.4571	
17		Adjusting screw	X2CrNiMo17-12-2, 1.4404	
27	x	O-ring	FPM	
28		Cap, closed	GX5CrNiMoN19-11-2, 1.4581	
29		Cap, open	GX5CrNiMoN19-11-2, 1.4581	
30		Cap, gastight	EN-GJS-400-18U-LT, EN-JS1049	GX5CrNiMoN19-11-2, 1.4581
36		Lever, closed (optional: Fig. ....961 / Fig. ....962)	EN AC-4420 (Al)	
37	x	Spring	FDSiCr	X10CrNi18-8, 1.4310
65		Coupling	X6CrNiMoTi17-12-2, 1.4571	
66		O-ring	FPM	
67		Lift button	X6CrNiMoTi17-12-2, 1.4571	
		L Spare parts		

DN	15	20	25
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Spring ranges: Standard design		
Standard safety valve Fig. 961/962/963	(barg)	0,2 - 0,25
	(barg)	> 0,25 - 0,5
	(barg)	> 0,5 - 1
	(barg)	> 1 - 1,4
	(barg)	> 1,4 - 2,95
	(barg)	> 2,95 - 4,9
	(barg)	> 4,9 - 12
	(barg)	> 12 - 20
	(barg)	> 20 - 27
	(barg)	> 27 - 35
	(barg)	> 35 - 45
	(barg)	> 45 - 59
	(barg)	> 59 - 100

Information / restriction of technical rules need to be observed!

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list).

DN	15			20			25
NPS	1/2 x 1/2	1/2 x 3/4		3/4 x 1/2	3/4 x 3/4	3/4 x 1	1 x 1
DN1 / DN2	DN 15 / 15	DN 15 / 20	DN15 / 25		DN 20 / 20	DN 20 / 25	DN 25 / 25

Dimensions								
d0	(mm)	12	12	12	12	12	12	12
A0	(mm ²)	113	113	113	113	113	113	113
GE	(inch)	1/2	1/2	--	3/4	3/4	3/4	1
GA	(inch)	1/2	3/4	--	1/2	3/4	1	1
b	(mm)	15	15	--	16	16	16	18
l	(mm)	42	47	--	42	47	50	50
l1	(mm)	34	34	--	34	34	34	34
l2	(mm)	110	110	110	--	110	110	110
l3	(mm)	85	85	85	--	85	85	120
H	(mm)	189	189	110	189	189	189	189
X	(mm)	100	100	85	100	100	100	100

Weights								
standard	(kg)	1,2	1,2	--	1,2	1,2	1,2	1,2
optional: flange design	(kg)	3,7	4,5	5,0	--	5,4	5,9	6,6

DN	15		20		25	
Flange acc. to DIN EN 1092-1						
ØD	(mm)	105		130		140
b	(mm)	20		22		24

Standard-Flangeholes						
ØK	(mm)	75		90		100
n x Ød	(mm)	4x14		4x18		4x18

Pressure-temperature-ratings	Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.									
------------------------------	---	--	--	--	--	--	--	--	--	--

acc. to DIN EN 1092-1			-60°C to <-10°C	-10°C to 100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.4581	100	(bar)	50	100	98	93,3	88,5	83,3	80,4	78	--

Certified coefficient of discharge Kdr (Values for D/G variable: < 4 bar)						
DN	15		20		25	
TÜV · SV · . . . - 1041 · D/G			0,30			
TÜV · SV · . . . - 1041 · F			0,23			

Capacity saturated steam / Air / Water (incl. 10% overpressure)

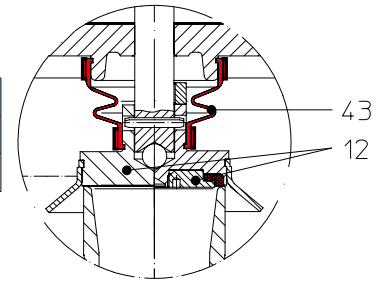
DN			15	20	25	15	20	25	15	20	25
Connections	DIN EN 228-1	(inch)	G1/2 x 1/2	G3/4 x 1/2	G1 x 1	G1/2 x 1/2	G3/4 x 1/2	G1 x 1	G1/2 x 1/2	G3/4 x 1/2	G1 x 1
		(inch)	G1/2 x 3/4	G3/4 x 3/4		G1/2 x 3/4	G3/4 x 3/4		G1/2 x 3/4	G3/4 x 3/4	
		(inch)		G3/4 x 1			G3/4 x 1			G3/4 x 1	
	DIN EN 1092-1	(mm)	DN15/15	DN20/20	DN25/25	DN15/15	DN20/20	DN25/25	DN15/15	DN20/20	DN25/25
		(mm)	DN15/20	DN20/25		DN15/20	DN20/25		DN15/20	DN20/25	
		(mm)	DN15/25			DN15/25			DN15/25		
do	(mm)	12			12			12			
Set pressure			Saturated steam (kg/h)			Air 0°C and 1,013 bara (Nm³/h)			Water 20°C (t/h)		
↓ max. set pressure stainless steel version	0,2	(barg)	14	14	14	16	16	16	0,62	0,62	0,62
	0,5	(barg)	24	24	24	29	29	29	0,98	0,98	0,98
	1	(barg)	35	35	35	44	44	44	1,39	1,39	1,39
	2	(barg)	56	56	56	71	71	71	1,97	1,97	1,97
	3	(barg)	75	75	75	96	96	96	2,41	2,41	2,41
	4	(barg)	96	96	96	125	125	125	2,78	2,78	2,78
	5	(barg)	116	116	116	150	150	150	3,11	3,11	3,11
	6	(barg)	135	135	135	176	176	176	3,41	3,41	3,41
	7	(barg)	153	153	153	201	201	201	3,68	3,68	3,68
	8	(barg)	172	172	172	227	227	227	3,93	3,93	3,93
	9	(barg)	191	191	191	252	252	252	4,17	4,17	4,17
	10	(barg)	210	210	210	277	277	277	4,40	4,40	4,40
	11	(barg)	229	229	229	303	303	303	4,61	4,61	4,61
	12	(barg)	248	248	248	328	328	328	4,82	4,82	4,82
	13	(barg)	267	267	267	354	354	354	5,01	5,01	5,01
	14	(barg)	286	286	286	379	379	379	5,20	5,20	5,20
	15	(barg)	304	304	304	405	405	405	5,39	5,39	5,39
	16	(barg)	323	323	323	430	430	430	5,56	5,56	5,56
	17	(barg)	342	342	342	455	455	455	5,73	5,73	5,73
	18	(barg)	361	361	361	481	481	481	5,90	5,90	5,90
	19	(barg)	380	380	380	506	506	506	6,06	6,06	6,06
20	(barg)	399	399	399	532	532	532	6,22	6,22	6,22	
25	(barg)	494	494	494	659	659	659	6,95	6,95	6,95	
30	(barg)	590	590	590	786	786	786	7,62	7,62	7,62	
35	(barg)	686	686	686	913	913	913	8,23	8,23	8,23	
40	(barg)	784	784	784	1040	1040	1040	8,79	8,79	8,79	
45	(barg)	883	883	883	1165	1165	1165	9,33	9,33	9,33	
50	(barg)	983	983	983	1295	1295	1295	9,83	9,83	9,83	
55	(barg)	1085	1085	1085	1420	1420	1420	10,31	10,31	10,31	
60	(barg)	1185	1185	1185	1550	1550	1550	10,77	10,77	10,77	
65	(barg)	1290	1290	1290	1675	1675	1675	11,21	11,21	11,21	
70	(barg)	1400	1400	1400	1800	1800	1800	11,63	11,63	11,63	
75	(barg)	1500	1500	1500	1930	1930	1930	12,04	12,04	12,04	
80	(barg)				2055	2055	2055	12,44	12,44	12,44	
85	(barg)				2185	2185	2185	12,82	12,82	12,82	
90	(barg)				2310	2310	2310	13,19	13,19	13,19	
95	(barg)				2438	2438	2438	13,5	13,5	13,5	
100	(barg)				2565	2565	2565	13,76	13,76	13,76	

Soft sealing disc						
Body design	Pos.	Description	P min.	Material	Temperature range	Abbreviation
EN-JL1040, EN-JS1049, 1.0619+N	12	Disc	0,5 bar	X20Cr13+QT, 1.4021+QT / EPDM	-40 °C to +150 °C	E
			0,5 bar	X20Cr13+QT, 1.4021+QT / FPM Viton (FKM)	-20 °C to +180 °C	V
			0,5 bar	X20Cr13+QT, 1.4021+QT / CR Neoprene	-30 °C to +100 °C	N
			1,0 bar ¹⁾	X20Cr13+QT, 1.4021+QT / SHR ²⁾	-20 °C to +220 °C	S
1.4408, 1.4581	12	Disc	0,5 bar	X6CrNiMoTi17-12-2, 1.4571 / EPDM	-40 °C to +150 °C	E
			0,5 bar	X6CrNiMoTi17-12-2, 1.4571 / FPM Viton (FKM)	-20 °C to +180 °C	V
			0,5 bar	X6CrNiMoTi17-12-2, 1.4571 / CR Neoprene	-30 °C to +100 °C	N
			1,0 bar ¹⁾	X6CrNiMoTi17-12-2, 1.4571 / SHR ²⁾	-20 °C to +220 °C	S
SA216WCB	12	Disc	0,5 bar	SA276 Gr. 440 / EPDM	-40 °C to +150 °C	E
			0,5 bar	SA276 Gr. 440 / FPM Viton (FKM)	-20 °C to +180 °C	V
			0,5 bar	SA276 Gr. 440 / CR Neoprene	-30 °C to +100 °C	N
			1,0 bar	SA276 Gr. 440 / SHR	-20 °C to +220 °C	S

Fig. 950/960 with soft sealing disc max. 40 bar

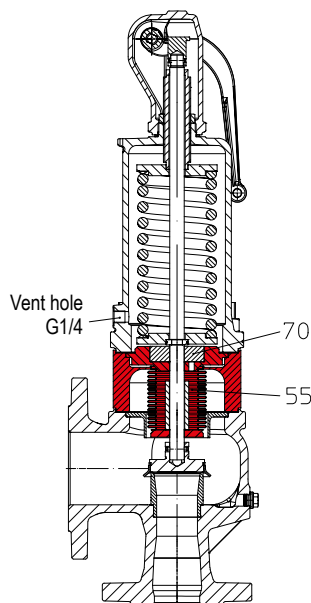
¹⁾ DN20/32 min. 2,0 bar ²⁾ only Fig. 900

EPDM-Bellows seal (DN15 - 150)			
Pos.	Description	Material	Temperature range
43	EPDM-Bellows seal	EPDM 70 Shore A	-10 °C to +120 °C

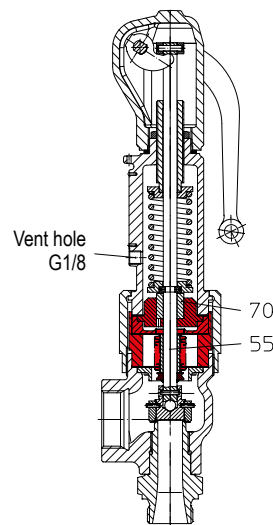


Balanced stainless steel-bellows (Only for closed version!)		
Pos.	Description	Material
55	Bellows unit	X6CrNiMoTi17-12-2, 1.4571; SA240 / SA479 Gr.316 Ti (SAFE-SN ANSI)
70	Balanced piston (DN15-100)	X6CrNiMoTi17-12-2, 1.4571; SA479 Gr.316 Ti (SAFE-SN ANSI)

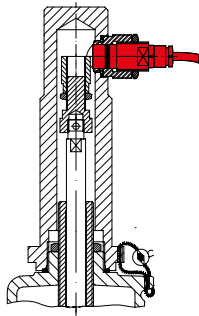
Test: German "TA-Air TÜV-Test-No. 922-960324



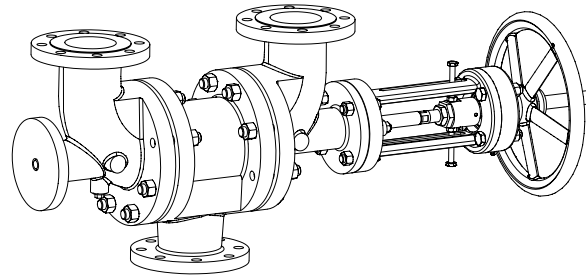
SAFE 900



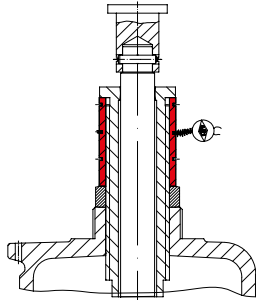
SAFE-TC 940



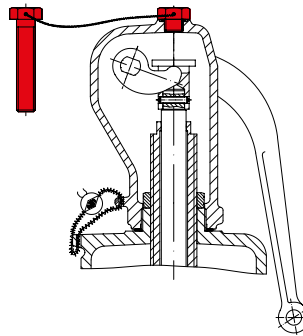
Proximity switch



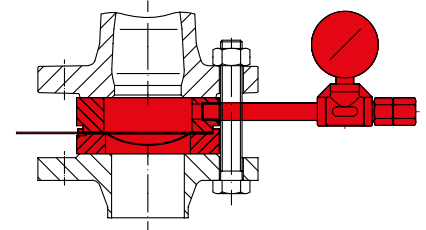
Changeover valve



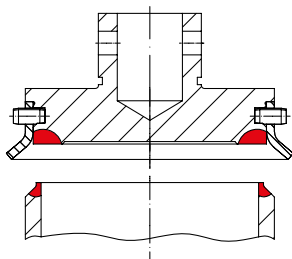
Lock bushing



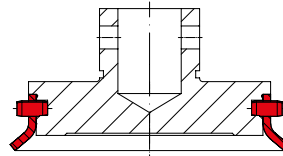
Test gag



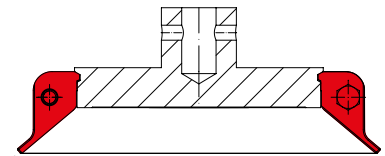
Rupture disc
(Sizing refer to page 40.)



Seat 1.4571 / Stellite No. 21
Disc 1.4571 / Stellite No. 6
Sitz SA479Gr.316Ti / Stellite No. 21 (SAFE-SN ANSI)
Kegel SA479Gr.316Ti / Stellite No. 6 (SAFE-SN ANSI)
removable lifting aid

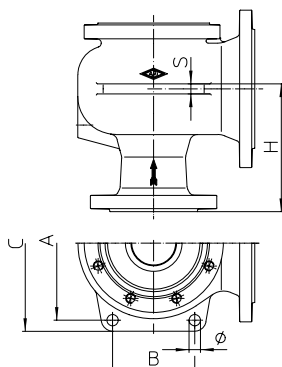


DN15-100



DN125-250

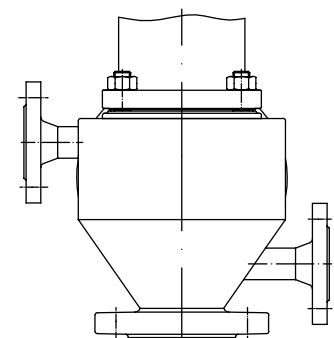
removable lifting aid



Body-Material	DN1 x DN2 (mmxmm)	A (mm)	B (mm)	C (mm)	Ø (mm)	S (mm)	H (mm)
1.0619+N	50 x 80	176	70	204	14	12	155
1.4408	65 x 100	212	90	242			175
EN-JL1040	80 x 125	245	130	280	18	16	205
EN-JS1049	100 x 150	295	165	332			230
1.0619+N	125 x 200	318	183	362	22	20	260
1.4408	150 x 250	360	200	408			295
EN-JL1040	125 x 125	226	110	254	14	10	205
1.0619+N	150 x 150	262	146	298			232
EN-JS1049	200 x 300	465	256	521	26	22	305
1.0619+N	250 x 350	544	300	600			337

Body-Material	NPS (inch)	A (mm)	B (mm)	C (mm)	Ø (mm)	S (mm)	H (mm)
SA216WCB	2" x 3"	176	70	204	14	12	143
	3" x 4"	212	90	242			162
	4" x 6"	295	165	332	18	16	186
	6" x 8"	318	183	362	22	20	248
	6" x 10"	360	200	405	22	22	251

Support tongues, drilled



Heating jacket

	SAFE Fig. 900			SAFE-SN BR 900	SAFE-P Fig. 920	SAFE-TC Fig. 940			SAFE- TCS/ TCP Fig. 950 / 960
	Fig. 901-912	Fig. 903	Fig. 904	Fig. 901-912	Fig. 921-924	Fig. 941-943	Fig. 945	Fig. 946	Fig. 951-953 Fig. 961-963
Pressure equipment directive PED 2014/68/EU Module H1, B+D	X	X	X	X	X	X	X	X	X
BV Bureau Veritas Frankreich / France	X	--	--	X	X	X	--	--	X
DNV Det Norske Veritas Norwegen / Norway	X	--	--	X	X	X	X	X	X
GL Germanischer Lloyd	X	--	--	X	X	X	--	--	X
LROS (LRS) Lloyds Register of Shipping	X	--	--	X	X	X	--	--	--
SELO (SQLO) China / Chine	X	X	X	X	X	X	X	X	X
ASME Code Section VIII-Division 1 (UV-stamp)	--	--	--	X	--	--	--	--	--
Canada Registration (UV-stamp)	X	--	--	X	--	--	--	--	--
EAC Russland / Russia	X	X	X	X	X	X	X	X	X
RMROS (RS) Russian Maritime Register of Shipping	X	X	X	X	X	X	X	X	X
Promatomnadzor White russia (Rep. of Belarus)	X	X	X	X	X	X	X	X	X
Prombezpeka Ukraine	X	X	X	X	X	X	X	X	X
Rostechnadzor (Gosgortechnadzor) Russland / Russia	X	X	X	X	X	X	X	X	X

Single approvals

Arbejdstilsynet Danish emploment protection	X	X	X	X	X	X	X	X	X
ABS American Bureau of Shipping	X	X	X	X	X	X	X	X	X
AIB Vincotte Belgien / Belgium	X	X	X	X	X	X	X	X	X
IBR Indien Boiler Regulations	X	--	--	X	X	X	--	--	--
ISPESL Italien / Italy	X	X	X	X	X	X	X	X	X
RINA Italien / Italy	X	--	--	X	X	X	--	--	--
Stoomwezen Niederlande / Netherlands	X	X	X	X	X	X	X	X	X
NK Japan	X	X	X	X	X	X	X	X	X
UDT Polen / Poland	X	X	X	X	X	X	X	X	X

myValve® - Your Valve Sizing-Program.

myValve® is a powerful software tool that not only helps you size your system components; it also gives you instant access to all other data about the selected product, such as order information, spare parts drawings, operating instructions, data sheets, etc., whenever you need it.

Product data

PROPERTY	INDICATION
Produktkey	15101600110
Article code	35901002SAG1
Type	ARI-SAFE-ANSI
Designation	ANSI-Full W/Standard safety valve with flanges
Material	SA216WC8
Pressure	ANSI300
Connection	Flanged
Nominal diameter	1" x 2"
Feature1	Design: closed bonnet/ closed lifting device Plug
Feature2	Pressure range: 30 - 39 psig/02,05 - 02,70 bar
TAG-No.	
Note	

Figure	NPS	Class	API	ASME	AD	AD	AD-cal.	Kd	Capacity	Design	Version
35.901-ANSI	1" x 2"	ANSI300	F	29.0	22.0	196.0	245.944	0.817	109.828	closed bonnet/...	standard
35.901-ANSI	1 1/2" x 2"	ANSI300	G	29.0	22.0	196.0	245.944	0.817	1511.045	closed bonnet/...	standard
35.901-ANSI	1 1/2" x 3"	ANSI300	H	36.0	22.0	196.0	245.944	0.817	2327.147	closed bonnet/...	standard
35.901-ANSI	2" x 3"	ANSI300	J (H)	45.0	22.0	196.0	245.944	0.817	3634.739	closed bonnet/...	standard

Contents:

Module ARI-Safety valve SAFE-Calculation

- Sizing of valve-size with given capacity, temperature, set pressure and back pressure;
- Sizing acc. to SAFE DIN EN, AD2000, ASME VIII, API520.

Media:

Integrated media-databank (more than 160 media) with conditions:

- Vapours / gases
- Steam (saturated and superheated)
- Liquids

Special features:

- Project administration of the calculation and product data incl. spare part drawings concerning to project and tag number.
- Direct output of calculation and product data in PDF format.
- Product data could be taken for a direct order.
- SI- and ANSI-units with direct conversion to another databank.
- Settings with over pressure or absolute pressure.
- All ARI valves are integrated in a databank.
- Direct access relating to the product on data sheets, operating instructions, pressure-temperature-diagram, controller characteristics, spare part drawings and CAD-symbols on the website.
- Operation in company networks possible (no complex installations on individually PC's necessary).
- Extensive catalogue extending over several product groups.

System requirements:

Windows operating systems, Linux, etc.

To ARI-Armaturen to the att. of Mrs./Mr. Fax No. +49 52 07 / 994 -

If the type of bursting disc is not yet determined, we are offering our assistance for sizing.
Please send us the questionnaire containing the appropriate data.

Customer:
.....
Handled by:
Date:

Telephone:
Fax:
E-mail:

Necessary data

Medium:
 liquid gas

Temperature:°C

Safety valve

Type / Figure:	.....	Set pressure:	..... bar(g)
Nominal diameter: (Input / Output)	DN /	Flow diameter d_0:	..... mm
Nominal pressure: (Input / Output)	PN /	Flow cross-section A_0:	..... mm ²
		Certified coefficient of discharge K_{dr} (α_w):	.....

Rupture disc

Bursting pressure:	..... bar(g)	Material:	<input type="checkbox"/> 1.4401
(Bursting pressure = Set pressure of the safety valve)			<input type="checkbox"/> Nickel
Tolerance:	<input type="checkbox"/> + 10%		<input type="checkbox"/> Inconel
	<input type="checkbox"/>%		<input type="checkbox"/> Monel
Quantity:	..... piece		<input type="checkbox"/> Aluminium
(incl. reserve)	(minimum 3 pieces recommended)		<input type="checkbox"/> Teflon foil medium side
TÜV-approval:	<input type="checkbox"/> yes <input type="checkbox"/> no		<input type="checkbox"/> other

Halter (incl. 1/4"-vent)

Nominal pressure:	PN	Material:	<input type="checkbox"/> 1.4571
Quantity (Holder):	..... piece		<input type="checkbox"/> other

Indication device

(Pressure gauge / excess flow valve)

Quantity: piece

Burst disc alarm

Quantity: piece

Bursting disc selection

Construction

Reverse buckling bursting disc
 other

Manufacturer / Type:

Nominal size selection of the bursting disc

• Acc. to DIN EN ISO 4126-3 and API 520 „90%-determination“

DN

Example:

Remark:

Max. capacity SAFE 900, DN 50, 10 bar without bursting disc = 9610 Nm³/h
Max. capacity SAFE 900, DN 50, 10 bar with bursting disc = 0,9 x 9610 Nm³/h = 8649 Nm³/h

• Acc. to AD2000-A1 (5.4.2.2)

$$A_{geom} \times \alpha > 1,5 \times A_0 \times \alpha_w$$

