AWPVALVES.com

SAFETY VALVES FOR HEATING TECHNOLOGIES

SVA, SVU

05.02.2026

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HT: Temperature up to +200°C

SVA: Safety valve - back-pressure dependent

SVA	Connection	Form	Material	Valve type
SVA	Materials			
SVAA PS25 / PS40 / PS63	Flanged ends		St	SVAA FL
			NIRO	SVAA FL NIRO
	Screwed ends		St	SVAA SE
			NIRO	SVAA SE NIRO

SVU: Safety overflow valve - back-pressure independent

SVU	Connection	Form	Material	Valve type
SVU	Materials			
SVUA PS25 / PS40 / PS63	Welding ends		St	SVUA AE
			NIRO	SVUA AE NIRO
	Flanged ends		St	SVUA FL
			NIRO	SVUA FL NIRO
			St	SVUA P FL
			NIRO	SVUA P FL NIRO
	Soldering ends		St	SVUA LE
			NIRO	SVUA LE NIRO
	Screwed ends		St	SVUA SE
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			St	SVUA P SE
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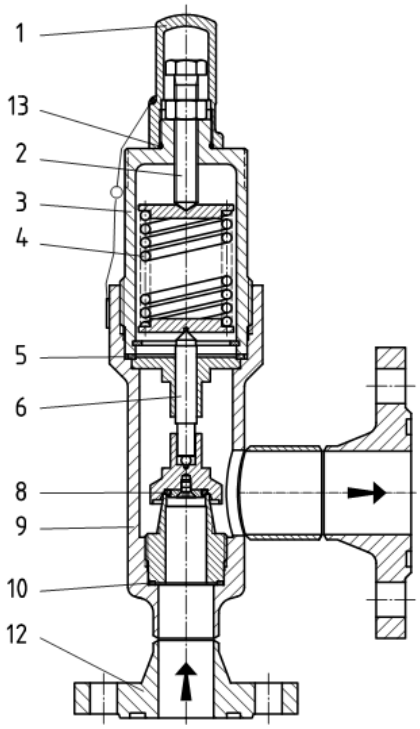
St = steel SS = stainless steel

2 SVA materials

Designation and materials
SVA HT - safety valve

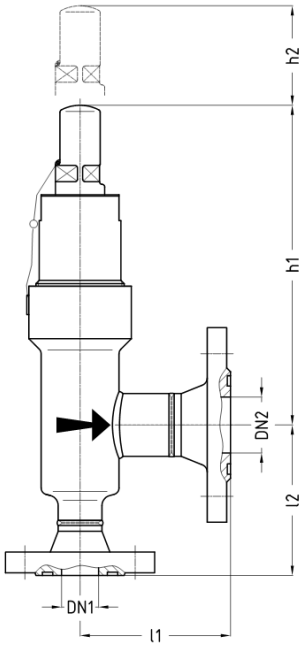


	Part	Material for steel valves	Material for stainless steel valves
1	Cap	Aluminium AlSi10Mg	Aluminium AlSi10Mg
2	Adjustment screw	8.8	8.8
3	Bonnet	S355J2 1.0577	X8CrNiS18-9 1.4305 X5CrNi18-10 1.4301 X2CrNi19-11 1.4306
4	Tongue	SH	SH
5	Flat sealing ring for bonnet	Alu	Alu
6	Stem	X8CrNiS18-9 1.4305	X8CrNiS18-9 1.4305
8	Valve disc O-ring	CR, NBR, HNBR, EPDM, PTFE*	CR, NBR, HNBR, EPDM, PTFE*
9	Body	S355J2 1.0577 P235GH 1.0345	X5CrNi18-10 1.4301
10	Flat sealing ring SS	AFM30	AFM30
12	Flange	P250GH 1.0460 P355NL1 1.0566	X6CrNiTi18-10 1.4541
13	Cap O-ring	CR, NBR, HNBR, EPDM, FPM*	CR, NBR, HNBR, EPDM, FPM*

* depending on the refrigerant used

3 SVAA FL HT

O: PTFE seat seal, **FL:** Flanged ends, **HT:**Temperature up to +200°C
SVA steel safety valve - back-pressure dependent for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVAA	PN	-10	+50	+200	TS [°C]
SVAA DN 15/25...25/40 1/2"-1"...1"-1 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]
SVAA DN 32/50...40/65 1 1/4"-2"...1 1/2-2 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]

Nominal size:				Flanged ends acc. to:													Response pressure range	
DN*		Base valve	Type *	AWP DN10-20 PN25 DN25-80 PN40		PN25 DIN 2634 EN1092-1		PN40 DIN 2635 EN1092-1		PN63 DIN 2636 EN1092-1		ANSI 300 RF						h1*) for
DN1/ DN2	INCH	Base	Type	l1	l2	l1	l2	l1	l2	l1	l2	l1	l2	h1	h1*)	h2	bar	bar
15/25	1/2"-1"	15/25		100	90	96	96	96	96	114	103	118	110	207		50	5-63	

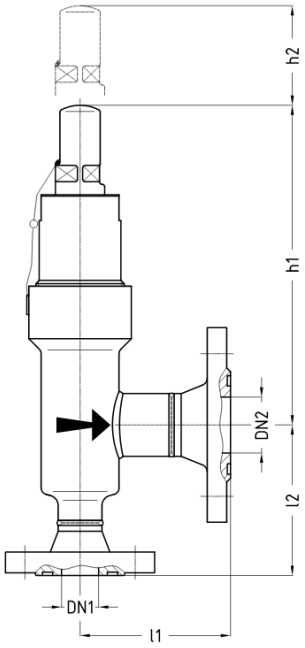
Nominal size:				Flanged ends acc. to:													Response pressure range	
15/25	1/2"-1"	15/25	HB			95	95	95	95					207		50	5-40	
20/25	3/4"-1	15/25	HB			95	95	95	95					207		50	5-40	
25/25	1"-1"	15/25	HBJ			100	100	100	100					207		50	5-40	
20/32	3/4"-1 1/4"	20/32		110	100	108	108	108	108	126	116	131	125	238	258	50	5-63	40-63
25/32	1"-1 1/4"	20/32	HB			100	100	100	100					238		50	5-40	
32/32	1 1/4"-1 1/4"	20/32	HB			105	105	105	105					238		50	5-40	
25/40	1"-1 1/2"	25/40		110	120	116	116	116	116	133	134	139	138	246	266	50	5-63	25-63
32/40	1 1/4"-1 1/2"	25/40	HB			105	105	105	105					246	266	50	5-40	25-40
40/40	1 1/2"-1 1/2"	25/40	HB			115	115	115	115					246	266	50	5-40	25-40
32/50	1 1/4"-2"	32/50		117	130	122	128	122	128			144	151	278		60	5-40	
40/50	1 1/2"-2"	32/50	HB			115	115	115	115					278		60	5-40	
50/50	2"-2"	32/50	HB			125	125	125	125					278		60	5-40	
40/65	1 1/2"-2 1/2"	40/65		149	130	147	136	147	136			171	159	281		60	5-40	
50/65	2"-2 1/2"	40/65	HB			125	125	125	125					281		60	5-40	
65/65	2 1/2"-2 1/2"	40/65	HB			145	145	145	145					281		60	5-40	

Table 1: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
Type*: HB = installation lengths according to EN-standard, h2 = dismantling dimension
DIN/EN flange facings with DIN 2512 groove as standard

4 SVAA FL NIRO HT

O: PTFE seat seal, **FL:** Flanged ends, **HT:**Temperature up to +200°C
SVA stainless steel safety valve - back-pressure dependent for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVAA	PN	-10	+50	+200	TS [°C]
SVAA DN 15/25...25/40 1/2"-1"...1"-1 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]
SVAA DN 32/50...40/65 1 1/4"-2"...1 1/2-2 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]

Nominal size:			Flanged ends acc. to:														Response pressure range	
DN*		Base valve	Type *	AWP DN10-20 PN25 DN25-80 PN40		PN25 DIN 2634 EN1092-1		PN40 DIN 2635 EN1092-1		PN63 DIN 2636 EN1092-1		ANSI 300 RF						h1*) for
DN1/ DN2	INCH	Base	Type	l1	l2	l1	l2	l1	l2	l1	l2	l1	l2	h1	h1*)	h2	bar	bar
15/25	1/2"-1"	15/25		100	90	96	96	96	96	114	103	118	110	207		50	5-63	

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Nominal size:				Flanged ends acc. to:													Response pressure range	
15/25	1/2"-1"	15/25	HB			95	95	95	95					207		50	5-40	
20/25	3/4"-1	15/25	HB			95	95	95	95					207		50	5-40	
25/25	1"-1"	15/25	HBJ			100	100	100	100					207		50	5-40	
20/32	3/4"-1 1/4"	20/32		110	100	108	108	108	108	126	116	131	125	238	258	50	5-63	40-63
25/32	1"-1 1/4"	20/32	HB			100	100	100	100					238		50	5-40	
32/32	1 1/4"-1 1/4"	20/32	HB			105	105	105	105					238		50	5-40	
25/40	1"-1 1/2"	25/40		110	120	116	116	116	116	133	134	139	138	246	266	50	5-63	25-63
32/40	1 1/4"-1 1/2"	25/40	HB			105	105	105	105					246	266	50	5-40	25-40
40/40	1 1/2"-1 1/2"	25/40	HB			115	115	115	115					246	266	50	5-40	25-40
32/50	1 1/4"-2"	32/50		117	130	122	128	122	128			144	151	278		60	5-40	
40/50	1 1/2"-2"	32/50	HB			115	115	115	115					278		60	5-40	
50/50	2"-2"	32/50	HB			125	125	125	125					278		60	5-40	
40/65	1 1/2"-2 1/2"	40/65		149	130	147	136	147	136			171	159	281		60	5-40	
50/65	2"-2 1/2"	40/65	HB			125	125	125	125					281		60	5-40	
65/65	2 1/2"-2 1/2"	40/65	HB			145	145	145	145					281		60	5-40	

Table 2: Dimensions

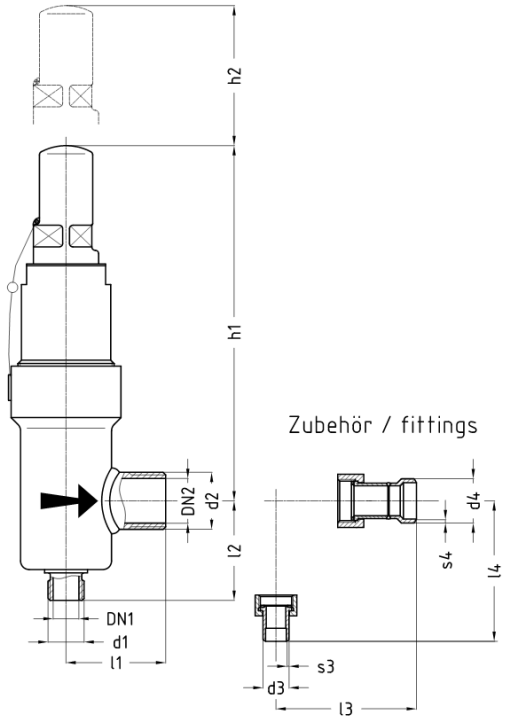
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve. /

Type*: HB = installation lengths according to EN-standard, h1*) PN63 h2 = dismantling dimension

DIN/EN flange facings with DIN 2512 groove as standard

5 SVAA SE HT

O: PTFE seat seal, **SE:** Screwed ends, **HT:**Temperature up to +200°C
SVA steel safety valve - back-pressure dependent for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

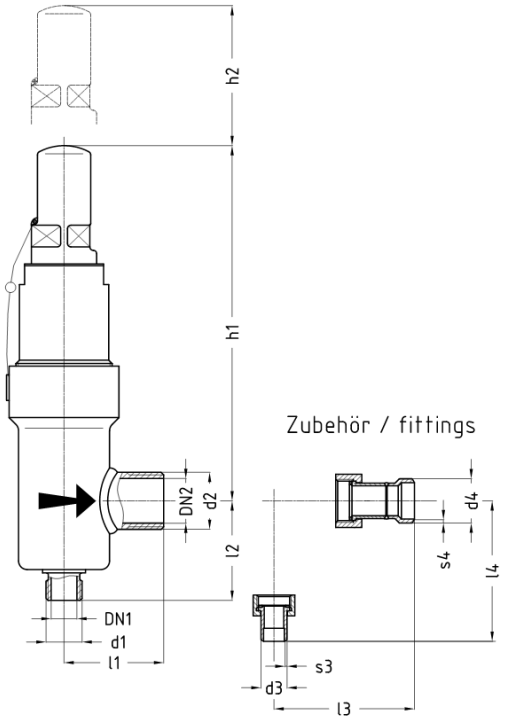
DN / INCH SVAA	PN	-10	+50	+200	TS [°C]
SVAA DN 15/25	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:	Screwed ends acc. to:															Response pressure range
DN1	DN2	Male thread	d1	d2	d3	s3	d4	s4	l1	l2	l3	l4	h1	h1*)	h2	bar
15	25	G1/2"-G1"	G1/2"	G1"	20	2.0	34	3.0	58	58	73	83	148	175	32	5-63

Table 3: Dimensions
h1*) PN63 h2 = dismantling dimension

6 SVAA SE NIRO HT

O: PTFE seat seal, **SE:** Screwed ends, **HT:**Temperature up to +200°C
SVA stainless steel safety valve - back-pressure dependent for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

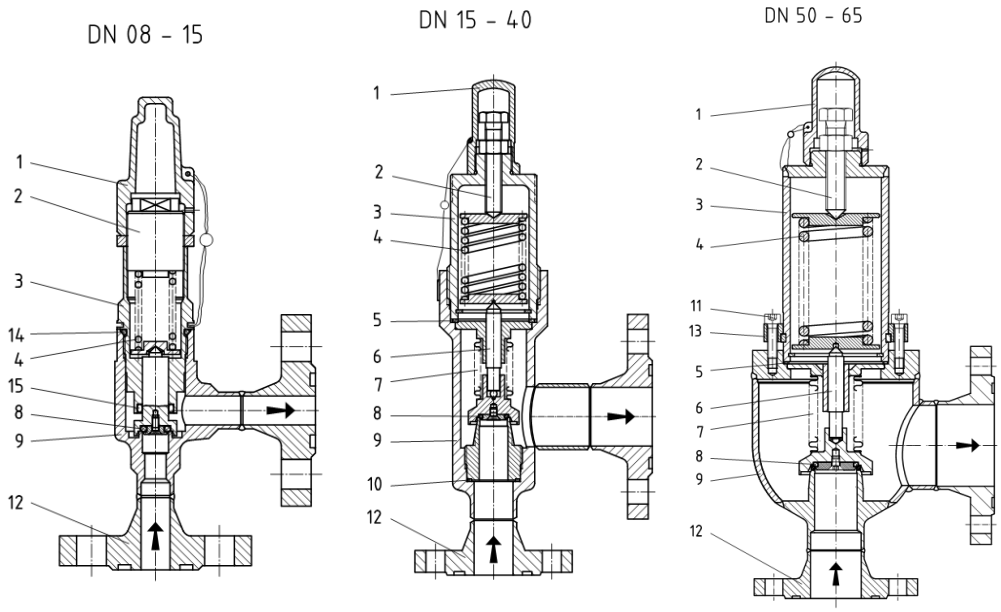
DN / INCH SVAA	PN	-10	+50	+200	TS [°C]
SVAA DN 15/25	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:		Screwed ends acc. to:														Response pressure range
DN1	DN2	Male thread	d1	d2	d3	s3	d4	s4	l1	l2	l3	l4	h1	h1*)	h2	bar
15	25	G1/2"-G1"	G1/2"	G1"	20.0	2.0	34.0	3.0	58	58	73	83	148	175	32	5-63

Table 4: Dimensions
h1*) PN63 h2 = dismantling dimension

7 SVU materials

Designation and materials
SVU HT - safety overflow valve



	Part	Material for steel valves	Material for stainless steel valves
1	Cap	Aluminium AlSi10Mg	Aluminium AlSi10Mg
2	Adjustment screw	8.8 X8CrNiS18-9 1.4305	A2-70 X8CrNiS18-9 1.4305
3	Bonnet	S355J2 1.0577	X8CrNiS18-9 1.4305 X5CrNi18-10 1.4301 X2CrNi19-11 1.4306
4	Tongue	SH	SH
5	Flat sealing ring for bonnet	Alu	Alu
6	Stem	X8CrNiS18-9 1.4305	X8CrNiS18-9 1.4305
7	Metal bellows	X6CrNiMoTi17-12-2 1.4571	X6CrNiMoTi17-12-2 1.4571
8	Valve disc O-ring	CR, NBR, HNBR, EPDM, PTFE*	CR, NBR, HNBR, EPDM, PTFE*
9	Body	P235GH 1.0345 S355J2 1.0577 P355N 1.0562	X5CrNi18-10 1.4301 GX5CrNiMoNb19-11-2 1.4581
10	Flat sealing ring SS	AFM30	AFM30
11	Bonnet screw	8.8	
12	Flange	P250GH 1.0460 P355NL1 1.0566	X6CrNiTi18-10 1.4541
13	Bonnet flange	S355J2 1.0577	

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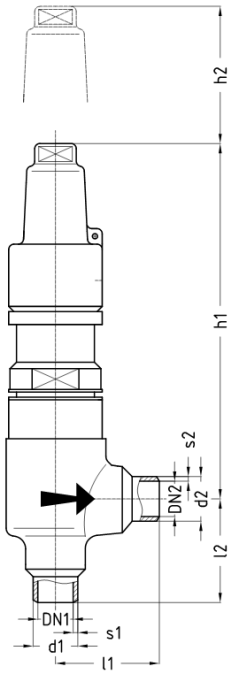
	Part	Material for steel valves	Material for stainless steel valves
14	Bonnet O-ring	CR, NBR, HNBR, EPDM, FPM*	CR, NBR, HNBR, EPDM, FPM*
15	Spring-loaded U-ring	PTFE	PTFE

* depending on the refrigerant used

8 SVUA AE HT

O: PTFE seat seal, **AE:** Welding ends, **HT:**Temperature up to +200°C
SVU steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

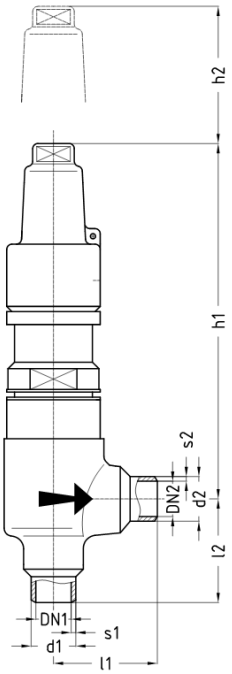
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 8/10...15/15 1/4"-3/8"...1/2"-1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:			Welding ends acc. to:															Response pressure range	
DN*		Base valve	ISO Series 1						ANSI Sched 40										h1*) for
DN1/ DN2	INCH	Base	d1	s11)	s12)	d2	s21)	s22)	d1	s1	d2	s2	l1	l2	h1	h1*)	h2	bar	bar
8/10	1/4"-3/8"	15/15	13.5	1.8	1.8	13.5	1.8	1.8	13.7	2.2	17.1	2.3	40	40	148	175	32	4-63	28-63
10/10	3/8"-3/8"	15/15	17.2	1.8	1.8	17.2	1.8	1.8	17.1	2.3	17.1	2.3	40	40	148	175	32	4-63	28-63
15/15	1/2"-1/2"	15/15	21.3	2.0	2.0	21.3	2.0	2	21.3	2.8	21.3	2.8	40	40	148	175	32	4-63	28-63

Table 5: Dimensions
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
1) PN25 / PN40 2) PN63 h2 = dismantling dimension

9 SVUA AE NIRO HT

O: PTFE seat seal, **AE:** Welding ends, **HT:**Temperature up to +200°C
SVU stainless steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

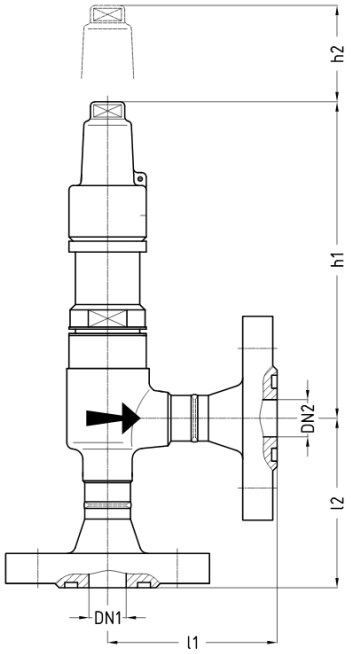
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 8/10...15/15 1/4"-3/8"...1/2"-1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:			Welding ends acc. to:																Response pressure range	
DN*		Base valve	ISO Series 1						ANSI Sched 40											h1*) for
DN1/ DN2	INCH	Base	d1	s11)	s12)	d2	s21)	s22)	d1	s1	d2	s2	l1	l2	h1	h1*)	h2	bar	bar	
8/10	1/4"-3/8"	15/15	13.5	1.8	1.8	13.5	1.8	1.8	13.7	2.2	17.1	2.3	40	40	148	175	32	4-63	28-63	
10/10	3/8"-3/8"	15/15	17.2	1.8	1.8	17.2	1.8	1.8	17.1	2.3	17.1	2.3	40	40	148	175	32	4-63	28-63	
15/15	1/2"-1/2"	15/15	21.3	2.0	2.0	21.3	2.0	2	21.3	2.8	21.3	2.8	40	40	148	175	32	4-63	28-63	

Table 6: Dimensions
DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
1) PN25 / PN40 2) PN63 h2 = dismantling dimension

10 SVUA FL HT

O: PTFE seat seal, **FL:** Flanged ends, **HT:**Temperature up to +200°C
SVU steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 10/10...15/15 3/8"-3/8"...1/2"-1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]
SVUA DN 15/15...25/25 1/2"-1/2"...1"-1"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]

Nominal size:				Flanged ends acc. to:													Response pressure range	
DN*		Base valve	Type *	AWP DN10-20 PN25 DN25-80 PN40		PN25 DIN 2634 EN1092-1		PN40 DIN 2635 EN1092-1		PN63 DIN 2636 EN1092-1		ANSI 300 RF						h1*) for
DN1/ DN2	INCH	Base	Type	l1	l2	l1	l2	l1	l2	l1	l2	l1	l2	h1	h1*)	h2	bar	bar
10/10	3/8"-3/8"	10/10		72	72	76	76	76	76	86	86			148	175	32	4-63	28-63

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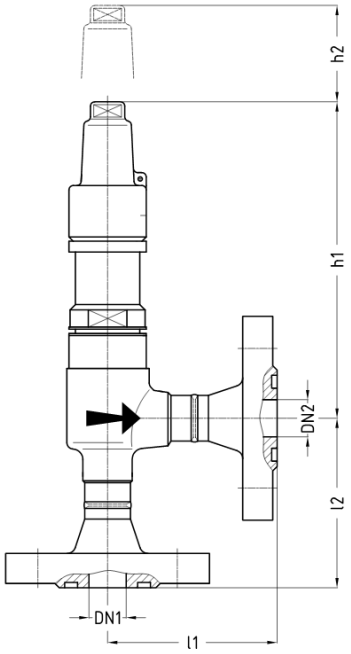
Nominal size:			Flanged ends acc. to:														Response pressure range	
15/15	1/2"-1/2"	15/15		72	72	79	79	79	79	86	86	93	93	148	175	32	4-63	28-63
15/15	1/2"-1/2"	15/15	HB			90	90	90	90					148	175	32	4-40	28-40
15/20	1/2"-3/4"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
15/25	1/2"-1"	15/15	HB			95	95	95	95					148	175	32	4-40	28-40
15/25	1/2"-1"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
15/25	1/2"-1"	15/15	HBJ			100	100	100	100					148	175	32	4-40	28-40
20/20	3/4"-3/4"	15/15	HB			95	95	95	95					148	175	32	4-40	28-40
20/20	3/4"-3/4"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
20/25	3/4"-1"	15/15	HB			95	95	95	95					148	175	32	4-40	28-40
20/25	3/4"-1"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
25/25	1"-1"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
25/25	1"-1"	15/15	HBJ			100	100	100	100					148	175	32	4-40	28-40

Table 7: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
Type*: HB/HBK/HBJ = installation lengths according to EN-standard, h2 = dismantling dimension
DIN/EN flange facings with DIN 2512 groove as standard

11 SVUA FL NIRO HT

O: PTFE seat seal, **FL:** Flanged ends, **HT:**Temperature up to +200°C
SVU stainless steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 10/10...15/15 3/8"-3/8"...1/2"-1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]
SVUA DN 15/15...25/25 1/2"-1/2"...1"-1"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]

Nominal size:				Flanged ends acc. to:													Response pressure range	
DN*		Base valve	Type *	AWP DN10-20 PN25 DN25-80 PN40		PN25 DIN 2634 EN1092-1		PN40 DIN 2635 EN1092-1		PN63 DIN 2636 EN1092-1		ANSI 300 RF						h1*) for
DN1/ DN2*	INCH	Base	Type	l1	l2	l1	l2	l1	l2	l1	l2	l1	l2	h1	h1*)	h2	bar	bar
10/10	3/8"-3/8"	10/10		72	72	76	76	76	76	86	86			148	175	32	4-63	28-63

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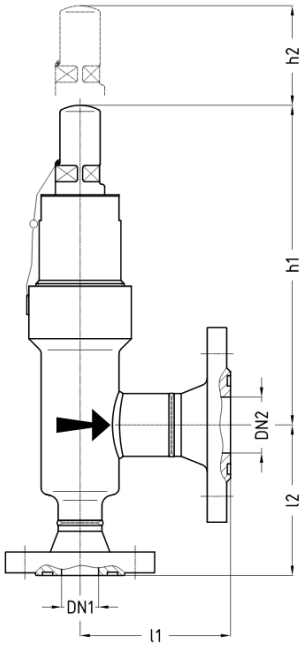
Nominal size:				Flanged ends acc. to:													Response pressure range	
15/15	1/2"-1/2"	15/15		72	72	79	79	79	79	86	86	93	93	148	175	32	4-63	28-63
15/15	1/2"-1/2"	15/15	HB			90	90	90	90					148	175	32	4-40	28-40
15/20	1/2"-3/4"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
15/25	1/2"-1"	15/15	HB			95	95	95	95					148	175	32	4-40	28-40
15/25	1/2"-1"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
15/25	1/2"-1"	15/15	HBJ			100	100	100	100					148	175	32	4-40	28-40
20/20	3/4"-3/4"	15/15	HB			95	95	95	95					148	175	32	4-40	28-40
20/20	3/4"-3/4"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
20/25	3/4"-1"	15/15	HB			95	95	95	95					148	175	32	4-40	28-40
20/25	3/4"-1"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
25/25	1"-1"	15/15	HBK			80	90	80	90					148	175	32	4-40	28-40
25/25	1"-1"	15/15	HBJ			100	100	100	100					148	175	32	4-40	28-40

Table 8: Dimensions

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
Type*: HB/HBK/HBJ = installation lengths according to EN-standard, h2 = dismantling dimension
DIN/EN flange facings with DIN 2512 groove as standard

12 SVUA P FL HT

O: PTFE seat seal, **P:** high-performance, **FL:** flanged ends, **HT:**Temperature up to +200°C
SVU steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/25...40/40 1/2"-1"...1 1/2"-1 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]
SVUA DN 32/50...65/65 1 1/4"-2"...2 1/2"-2 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
SVUA DN 50/80...65/100 2"-3"...2 1/2"-4"	PN25	25	25	25	PS [bar]
	PN28	28	25	25	PS [bar]

Nominal size:				Flanged ends acc. to:							Response pressure range
DN*		Base valve	Type *	AWP DN10-20 PN25 DN25-80 PN40	PN25 DIN 2634 EN1092-1	PN40 DIN 2635 EN1092-1	PN63 DIN 2636 EN1092-1	ANSI 300 RF			h1*) for

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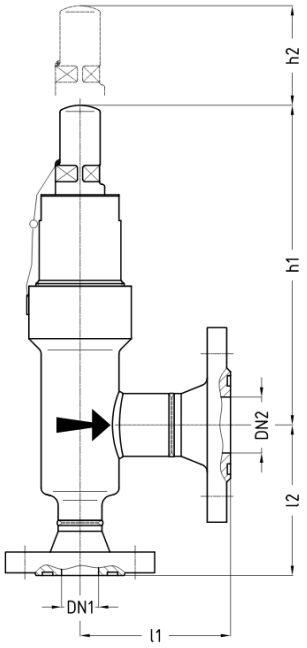
Nominal size:			Flanged ends acc. to:														Response pressure range	
DN1/ DN2	INCH	Base	Type	l1	l2	l1	l2	l1	l2	l1	l2	l1	l2	h1	h1*)	h2	bar	bar
15/25	1/2"-1"	15/25	HB			95	95	95	95					207		50	5-40	
15/25	1/2"-1"	15/25		100	90	96	96	96	96	114	103	118	110	207		50	5-63	
20/25	3/4"-1"	15/25	HB			95	95	95	95					207		50	5-40	
25/25	1"-1"	15/25	HBJ			100	100	100	100					207		50	5-40	
25/25	1"-1"	15/25	HBK			80	90	80	90					207		50	5-40	
20/32	3/4"-1 1/4"	20/32		110	100	108	108	108	108	126	116	131	125	238	258	50	5-63	40-63
25/32	1"-1 1/4"	20/32	HB			100	100	100	100					238		50	5-40	
32/32	1 1/4"-1 1/4"	20/32	HB			105	105	105	105					238		50	5-40	
25/40	1"-1 1/2"	25/40		110	120	116	116	116	116	133	134	139	138	246	266	50	5-63	24-63
32/40	1 1/4"-1 1/2"	25/40	HB			105	105	105	105					246	266	50	5-40	24-40
40/40	1 1/2"-1 1/2"	25/40	HB			115	115	115	115					246	266	50	5-40	24-40
32/50	1 1/4"-2"	32/50		117	130	122	128	122	128			144	151	278		60	5-40	
40/50	1 1/2"-2"	32/50	HB			115	115	115	115					278		60	5-40	
50/50	2"-2"	32/50	HB			125	125	125	125					278		60	5-40	
40/65	1 1/2"-2 1/2"	40/65		149	130	147	136	147	136			171	159	281		60	5-40	
50/65	2"-2 1/2"	40/65	HB			125	125	125	125					281		60	5-40	

Nominal size:				Flanged ends acc. to:													Response pressure range	
65/65	2 1/2"-2 1/2"	40/65	HB			145	145	145	145					281		60	5-40	
50/80	2"-3"	50/80		155	145	160	150	160	150			181	172	402		110	5-28	
65/100	2 1/2"-4"	65/100		202*	190	202	189	202	189			223	213	595		120	5-28	

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
*DIN-flange at the outlet, h2 = dismantling dimension
DIN/EN flange facings with DIN 2512 groove as standard

13 SVUA P FL NIRO HT

O: PTFE seat seal, **P:** high-performance, **FL:** flanged ends, **HT:**Temperature up to +200°C
SVU stainless steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/25...40/40 1/2"-1"...1 1/2"-1 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]
SVUA DN 32/50...65/65 1 1/4"-2"...2 1/2"-2 1/2"	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]

Nominal size:			Flanged ends acc. to:														Response pressure range	
DN*		Base valve	Type *	AWP DN10-20 PN25 DN25-80 PN40		PN25 DIN 2634 EN1092-1		PN40 DIN 2635 EN1092-1		PN63 DIN 2636 EN1092-1		ANSI 300 RF						h1*) for
DN1/ DN2	INCH	Base	Type	l1	l2	l1	l2	l1	l2	l1	l2	l1	l2	h1	h1*)	h2	bar	bar
15/25	1/2"-1"	15/25	HB			95	95	95	95					207		50	5-40	

Nominal size:			Flanged ends acc. to:															Response pressure range
15/25	1/2"-1"	15/25		100	90	96	96	96	96	114	103	118	110	207		50	5-63	
20/25	3/4"-1"	15/25	HB			95	95	95	95					207		50	5-40	
25/25	1"-1"	15/25	HBJ			100	100	100	100					207		50	5-40	
25/25	1"-1"	15/25	HBK			80	90	80	90					207		50	5-40	
20/32	3/4"-1 1/4"	20/32		110	100	108	108	108	108	126	116	131	125	238	258	50	5-63	40-63
25/32	1"-1 1/4"	20/32	HB			100	100	100	100					238		50	5-40	
32/32	1 1/4"-1 1/4"	20/32	HB			105	105	105	105					238		50	5-40	
25/40	1"-1 1/2"	25/40		110	120	116	116	116	116	133	134	139	138	246	266	50	5-63	24-63
32/40	1 1/4"-1 1/2"	25/40	HB			105	105	105	105					246	266	50	5-40	24-40
40/40	1 1/2"-1 1/2"	25/40	HB			115	115	115	115					246	266	50	5-40	24-40
32/50	1 1/4"-2"	32/50		117	130	122	128	122	128			144	151	278		60	5-40	
40/50	1 1/2"-2"	32/50	HB			115	115	115	115					278		60	5-40	
50/50	2"-2"	32/50	HB			125	125	125	125					278		60	5-40	
40/65	1 1/2"-2 1/2"	40/65		149	130	147	136	147	136			171	159	281		60	5-40	
50/65	2"-2 1/2"	40/65	HB			125	125	125	125					281		60	5-40	
65/65	2 1/2"-2 1/2"	40/65	HB			145	145	145	145					281		60	5-40	

DN*: Flange connection variants consisting of base valve. Discharge capacity and component mark as base valve.
Type*: HB = installation lengths according to EN-standard, h2 = dismantling dimension
DIN/EN flange facings with DIN 2512 groove as standard

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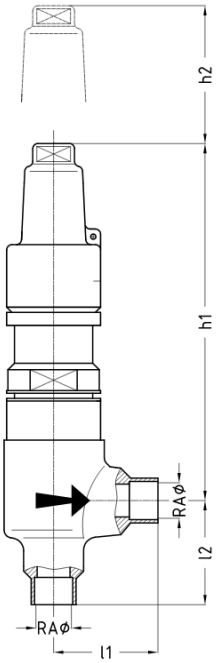
14 SVUA LE HT

O: PTFE seat seal, **LE:** Soldering ends, **HT:**Temperature up to +200°C
SVU steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

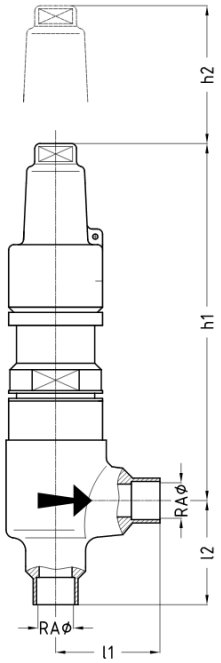
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/15	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:	Soldering ends acc. to:						Response pressure range	
								h1*) for
DN	RAØ	l1	l2	h1	h1*)	h2	bar	bar
15/15	15	40	40	148	175	32	4-63	28-63
15/15	18	40	40	148	175	32	4-63	28-63

h2 = dismantling dimension

15 SVUA LE NIRO HT

O: PTFE seat seal, **LE:** Soldering ends, **HT:**Temperature up to +200°C
SVU stainless steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

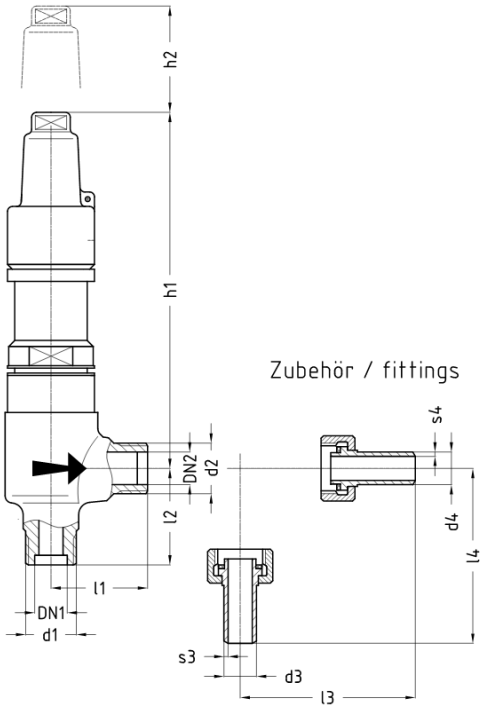
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/15	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:	Soldering ends acc. to:						Response pressure range	
								h1*) for
DN	RAØ	l1	l2	h1	h1*)	h2	bar	bar
15/15	15	40	40	148	175	32	4-63	28-63
15/15	18	40	40	148	175	32	4-63	28-63

Table 9: Dimensions
h2 = dismantling dimension

16 SVUA SE HT

O: PTFE seat seal, **SE:** Screwed ends, **HT:**Temperature up to +200°C
SVU steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

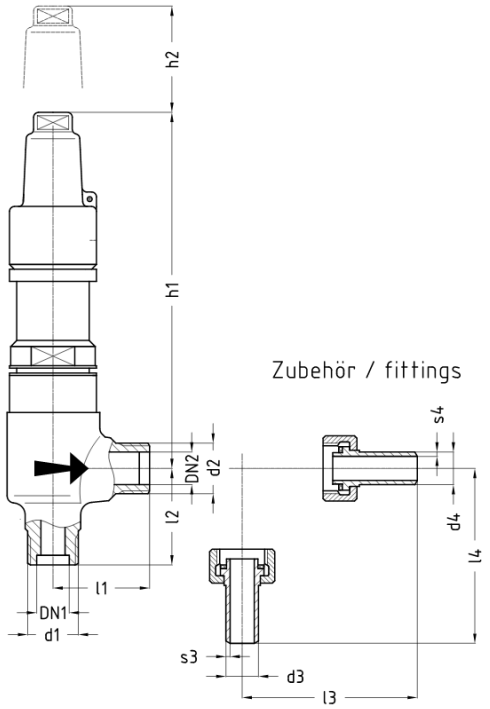
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/15	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:				Screwed ends acc. to:														Response pressure range
Base valve			Type *															h1*) for
DN 1	DN 2	Base	Type	Male thread	d1	d2	d3	s3	d4	s4	l1	l2	l3	l4	h1	h1*)	h2	bar	bar
15	15	15/15		G1/2"-G1/2"	G1/2"	G1/2"	15	1.5	15.0	1.5	40	40	73	73	148	175	32	4-63	28-63
15	15	15/15	HB	G1/2"-G1"	G1/2"	G1"	15	1.5	21.3	2.0	50	40	73	83	148	175	32	4-40	28-40
15	15	15/15		M22x1.5 L RA15	M22x1.5	M22x1.5	15	2.0	15.0	2.0	40	40	73	73	148	175	32	4-63	28-63

Table 10: Dimensions
Type*: HB = installation lengths according to EN-standard, h2 = dismantling dimension

17 SVUA SE NIRO HT

O: PTFE seat seal, **SE:** Screwed ends, **HT:**Temperature up to +200°C
SVU stainless steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

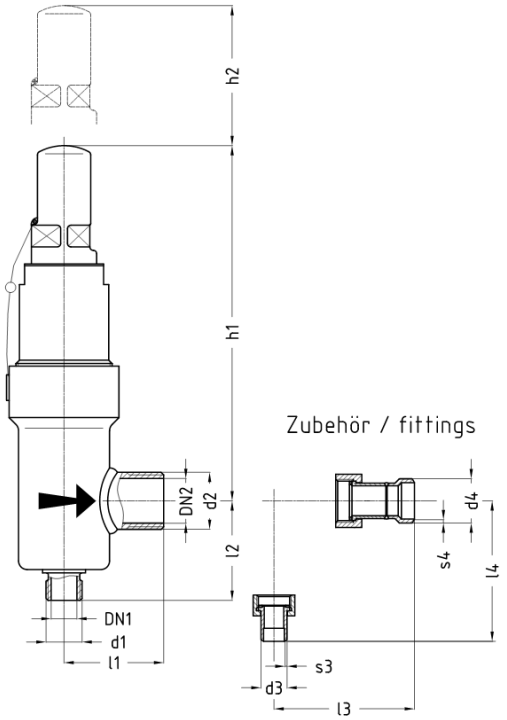
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/15	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:				Screwed ends acc. to:														Response pressure range	
Base valve			Type *																h1*) for
DN 1	DN 2	Base	Type	Male thread	d1	d2	d3	s3	d4	s4	l1	l2	l3	l4	h1	h1*)	h2	bar	bar
15	15	15/15		G1/2"-G1/2"	G1/2"	G1/2"	15.0	1.5	15.0	1.5	40	40	73	73	148	175	32	4-63	28-63
15	15	15/15	HB	G1/2"-G1"	G1/2"	G1"	15.0	1.5	21.3	2.0	50	40	73	83	148	175	32	4-40	28-40
15	15	15/15		M22x1.5 L RA15	M22x1.5	M22x1.5	15.0	2.0	15.0	2.0	40	40	73	73	148	175	32	4-63	28-63

Table 11: Dimensions
Type*: HB = installation lengths according to EN-standard, h2 = dismantling dimension

18 SVUA P SE HT

O: PTFE seat seal, **P:** high-performance, **SE:** Screwed ends, **HT:**Temperature up to +200°C
SVU steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

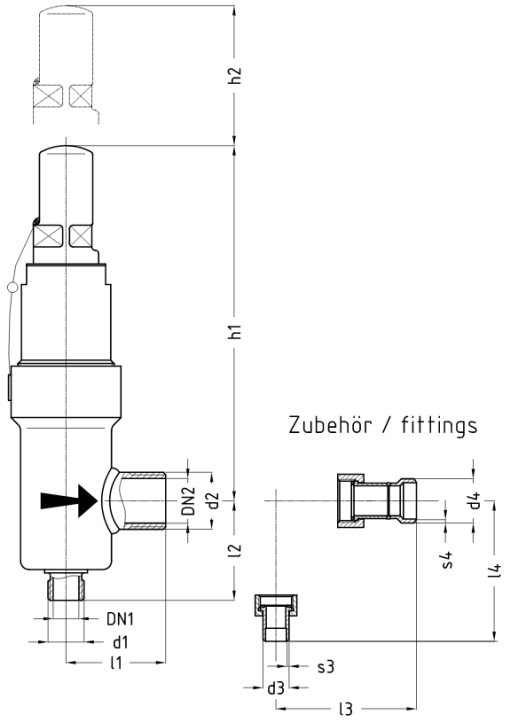
DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/25	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:		Screwed ends acc. to:														Response pressure range
DN1	DN2	Male thread	d1	d2	d3	s3	d4	s4	l1	l2	l3	l4	h1	h1*)	h2	bar
15	25	G1/2"-G1"	G1/2"	G1"	20	2.0	34.0	3.0	58	58	73	83	148	175	32	5-63

h1*) PN63 h2 = dismantling dimension

19 SVUA P SE NIRO HT

O: PTFE seat seal, **P:** high-performance, **SE:** Screwed ends, **HT:**Temperature up to +200°C
SVU stainless steel safety overflow valve - back-pressure independent, for natural gases and liquids (e.g. NH3, CO2) and non-corrosive media according to EN 378-1



Pressure / temperature operating limits:
PS: Max. permissible operating pressure in bar
TS: Permissible operating temperature in °C associated with the permissible operating pressures (PS)
PN: Nominal pressure rating

DN / INCH SVUA	PN	-10	+50	+200	TS [°C]
SVUA DN 15/25	PN25	25	25	25	PS [bar]
	PN40	40	40	40	PS [bar]
	PN63	63	63	63	PS [bar]

Nominal size:		Screwed ends acc. to:														Response pressure range
DN1	DN2	Male thread	d1	d2	d3	s3	d4	s4	l1	l2	l3	l4	h1	h1*)	h2	bar
15	25	G1/2"-G1"	G1/2"	G1"	20.0	2.0	34.0	3.0	58	58	73	83	148	175	32	5-63

Table 12: Dimensions
h1*) PN63 h2 = dismantling dimension

20 Appendix

21 Accessories

SV UM + ST / WVR DM screwed ends

GEA AWP – valves with screwed ends can be ordered with a variety of screw connections to meet the respective requirements. The list below shows accessories / valve combinations that are currently manufactured.

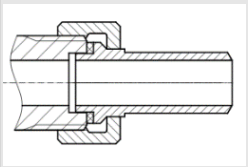
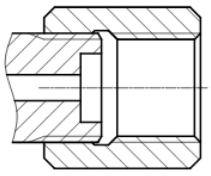
Accessory group	Valve designation	Code fittings	Connections	
UM + ST Union nut with welding nipple				
UM + ST 	SVUA SE G1/2" / G1/2"	44660E10.5/10001	I: O:	G1/2" with UM + ST 15.0x1.5 mm
	SVUA SE G1/2" / G1"	44660E10.5/10001 00060F07A5A0B601	I: O:	G1/2" with UM + ST 15.0x1.5 mm G1" with UM + ST 21.3x2.0 mm
	SVUA P SE G1/2" / G1"	45760E10.5/10001 15760E10.5/01001	I: O:	G1/2" with UM + ST 20.0x2.0 mm G1" with UM + ST 34.0x3.0 mm
	SVAA SE G1/2" / G1"	45760E10.5/10001 15760E10.5/01001	I: O:	G1/2" with UM + ST 20.0x2.0 mm G1" with UM + ST 34.0x3.0 mm
DM accessory combination with double nut right-hand/left-hand				
DM 	WVR SE G1" / G1/2-LH" for SVUA SE	00060F07A5A0B601 00060F07A5A1A203	I: O:	G1" with UM + ST 21.3x2.0 mm G1/2"-LH with DM (short)
	WVR SE G1" / G1/2-LH" for SVUA P SE	00060F07A5A0B601 00060F07A5A1A203	I: O:	G1" with UM + ST 21.3x2.0 mm G1/2"-LH with DN

Table 13: Accessories relief / change-over valves

I: = inlet/ O: = outlet

22 Set pressure ranges of springs for safety valves

	Valve type SVAA				
PS	DN 15/25	DN 20/32	DN 25/40	DN 32/50	DN 40/65
25	5.0-6.9	5.0-6.9	5.0-5.9	5.0-5.9	5.0-6.9
	7.0-8.9	7.0-8.9	6.0-8.9	6.0-6.9	7.0-7.9
	9.0-10.9	9.0-9.9	9.0-10.9	7.0-7.9	8.0-8.9
	11.0-14.9	10.0-12.9	11.0-13.9	8.0-8.9	9.0-9.9
	15.0-19.9	13.0-17.9	14.0-17.9	9.0-10.9	10.0-11.9
	20.0-25.0	18.0-19.9	18.0-19.9	11.0-11.9	12.0-13.9
		20.0-25.0	20.0-21.9	12.0-13.9	14.0-15.9
			22.0-24.9	14.0-15.9	16.0-18.9
			25.0	16.0-18.9	19.0-20.9
				19.0-22.9	21.0-24.9
				23.0-25.0	25.0
40	25.0-31.9	20.0-25.9	25.0-33.9	23.0-27.9	25.0-29.9
	32.0-39.9	26.0-27.9	34.0-39.9	28.0-29.9	30.0-35.9
	40.0	28.0-32.9	40.0	30.0-33.9	36.0-40.0
		33.0-40.0		34.0-40.0	
63	40.0-49.9	40.0-43.9	40.0-47.9		
	50.0-63	44.0-54.9	48.0-63.0		
		55.0-63.0			

Table 14: Response pressure range in bar

	Valve type SVUA	Valve type SVUA P						
PS	all DN	DN 15/25	DN 20/32	DN 25/40	DN 32/50	DN 40/65	DN 50/80	DN 65/100
25	4.0-7.9	5.0-8.9	5.0-8.9	5.0-8.9	5.0-6.9	5.0-8.9	5.0-8.9	5.0-9.9
	8.0-11.9	9.0-10.9	9.0-10.9	9.0-10.9	7.0-7.9	9.0-9.9	9.0-10.9	10.0-11.9
	12.0-19.9	11.0-13.9	11.0-11.9	11.0-13.9	8.0-8.9	10.0-10.9	11.0-12.9	12.0-13.9
	20.0-25.0	14.0-18.9	12.0-15.9	14.0-14.9	9.0-10.9	11.0-11.9	13.0-15.9	14.0-15.9
		19.0-21.9	16.0-19.9	15.0-17.9	11.0-12.9	12.0-12.9	16.0-17.9	16.0-16.9
		22.0-23.9	20.0-23.9	18.0-18.9	13.0-14.9	13.0-14.9	18.0-21.9	17.0-19.9
		24.0-25.0	24.0-25.0	19.0-21.9	15.0-15.9	15.0-16.9	22.0-25.0	20.0-20.9
				22.0-23.9	16.0-18.9	17.0-18.9		21.0-25.0
				24.0-25.0	19.0-22.9	19.0-20.9		
					23.0-25.0	21.0-24.9		
						25.0		
40	20.0-27.9	24.0-31.9	24.0-27.9	24.0-33.9	23.0-26.9	25.0-27.9	22.0-28.0	21.0-28.0
	28.0-35.9	32.0-39.9	28.0-32.9	34.0-40.0	27.0-31.9	28.0-30.9		
	36.0-40.0	40.0	33.0-40.0		32.0-35.9	31.0-40.0		
					36.0-40.0			
63	36.0-44.9	40.0-49.9	40.0-43.9	34.0-41.9				

	Valve type SVUA	Valve type SVUA P						
	45.0-63.0	50.0-63.0	44.0-54.9	42.0-49.9				
			55.0-63.0	50.0-63.0				

Table 15: Response pressure range in bar

23 Comparison of European / American materials

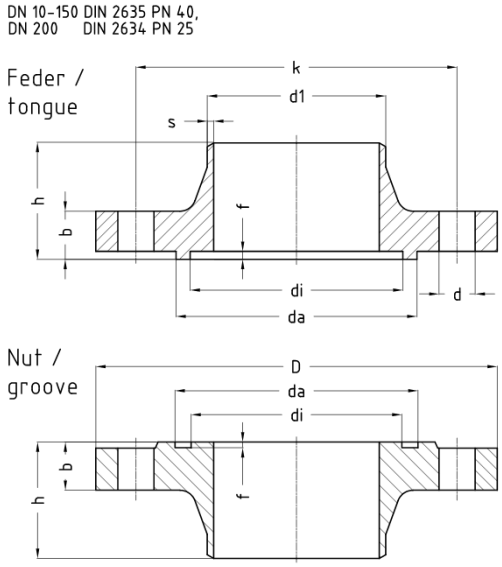
GEA AWP valves contain individual parts in different materials. The following table contains all materials that GEA AWP uses for pressure-retaining parts and lists the equivalent American materials.

European material			American equivalent material	
Material number	Short name	Standard	Material standard	Grade
Valves made of carbon steel				
1.0345	P235GH, TC1 +N	DIN EN 10216-2	ASME SA-106	A + B
1.0038	S235JR +N	DIN EN 10025-2	ASME SA-570	36
1.0425	P265GH	DIN EN 10028-2	ASME SA-516	60
1.0577	S355J2 +N	DIN EN 10025-2	ASME SA-516	65
1.0562	P355N	DIN EN 10028-3		
1.0460	C22.8	VdTÜV 350/3	ASME SA-105	-
Valves made of low-temperature steel				
1.0451	P215NL +N	DIN EN 10216-4	ASME SA-333	6
1.0452	P255QL +QT	DIN EN 10216-4		
1.0566	P355NL1 +N	DIN EN 10028-3 DIN 17103 VdTÜV 354/3	ASME SA-662 ASME SA-420 ASME SA-350	B WPL6 LF2
1.0488	TStE 285	DIN 17103 VdTÜV 352/3	ASME SA-662 ASME SA-350	A LF2
Valves made of stainless steel				
1.4301	X5CrNi18-10	DIN EN 10216-5 DIN EN 10028-7 DIN EN 10222-5 DIN EN 1092-1	ASME SA-312 ASME SA-240 ASME SA-182	TP304 304 F304

Straight-way valves in non-standard design (e.g. deviating materials, third-party inspection) are only available in angle-seat form.

24 Welding neck flanges - DIN 2634/2635

- DIN-FL
- DIN-FL N
- DIN-FL F
- DIN-FL C
- DIN-FL D
- FL - flange
- Form N - groove, DIN 2512
- Form F - tongue, DIN 2512
- Form C - smooth flange facing, (Rz 160) DIN 2526
- Form D - smooth flange facing (Rz 40) DIN 2526



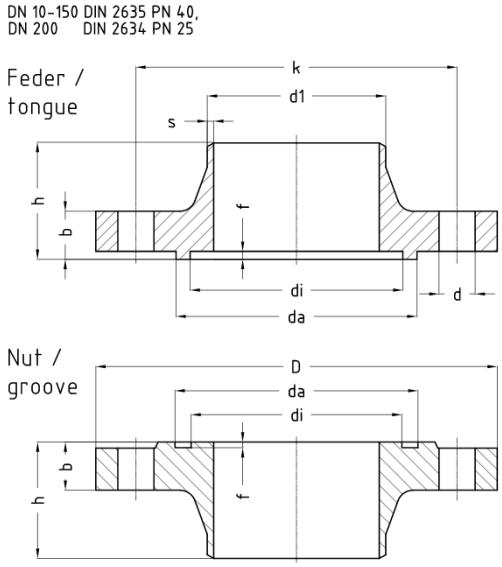
DIN2634 PN25 DN10-150 / DIN 2635 PN40 DN10-400																				
	Welding ends									Flange facing design						Screws DIN 931			Sealing ring DIN 2691	
	Series 1		Series 2							Groove			Tongue							
DN	d1	s	d1	s	b	k	h	d	D	di	da	f	di	da	f	Quant-ity	Thread	Length	di	da
10	17.2	1.8	15.0	2.5	16	60	35	14	90	23	35	2.5	24	34	4.0	4	M 12	45	24	34
15	21.3	2.0	20.0	2.5	16	65	38	14	95	28	40	2.5	29	39	4.0	4	M 12	45	29	39
20	26.9	2.3	25.0	2.5	18	75	40	14	105	35	51	2.5	36	50	4.0	4	M 12	50	36	50
25	33.7	2.6	32.0	3.0	18	85	40	14	115	42	58	2.5	43	57	4.0	4	M 12	50	43	57

DIN2634 PN25 DN10-150 / DIN 2635 PN40 DN10-400																			
32	42.4	2.6	38.0	3.0	18	100	42	18	140	50	66	2.5	51	65	4.0	4	M 16	55	51	65
40	48.3	2.6	45.0	3.0	18	110	45	18	150	60	76	2.5	61	75	4.0	4	M 16	55	61	75
50	60.3	2.9	57.0	3.2	20	125	48	18	165	72	88	2.5	73	87	4.0	4	M 16	60	73	87
65	76.1	2.9	76.1	3.6	22	145	52	18	185	94	110	2.5	95	109	4.0	8	M 16	60	95	109
80	88.9	3.2	88.9	4.0	24	160	58	18	200	105	121	2.5	106	120	4.0	8	M 16	65	106	120
100	114.3	3.6	108.0	4.0	24	190	65	22	235	128	150	3.0	129	149	4.5	8	M 20	70	129	149
125	139.7	4.0	133.0	4.0	26	220	68	26	270	154	176	3.0	155	175	4.5	8	M 24	80	155	175
150	168.3	4.5	159.0	4.5	28	250	75	26	300	182	204	3.0	183	203	4.5	8	M 24	80	183	203
200	219.1	6.3			34	320	88	30	375	238	260	3.0	239	259	4.5	12	M 27	100	239	259
250	273.0	7.1			38	385	105	33	450	291	313	3.0	292	312	4.5	12	M 30	110	292	312
300	323.9	8.0			42	450	115	33	515	342	364	3.0	343	363	4.5	16	M 30	120	343	363
350	355.6	8.8			46	510	125	36	580	394	422	3.5	395	421	5.0	16	M 33	130	395	421
400	406.4	11.0			50	585	135	39	660	446	474	3.5	447	473	5.0	16	M 36	140	447	473

Table 16: Installation lengths

25 Welding neck flanges - DIN 2634/2636/2637

- DIN-FL
- DIN-FL N
- DIN-FL F
- DIN-FL C
- DIN-FL D
- FL - flange
- Form N - groove, DIN 2512
- Form F - tongue, DIN 2512
- Form C - smooth flange facing, (Rz 160) DIN 2526
- Form D - smooth flange facing, (Rz 40) DIN 2526



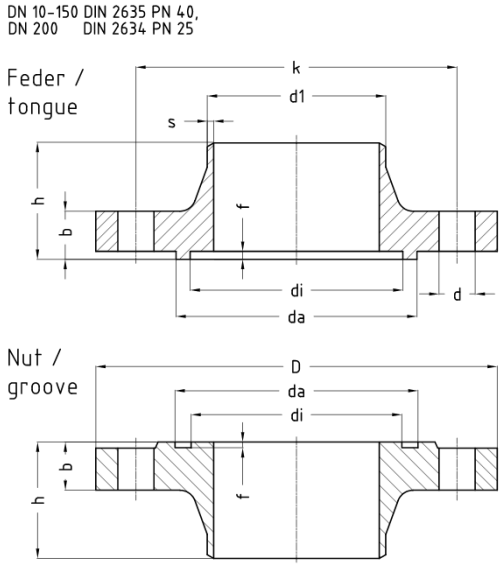
DIN 2634 PN25 DN200-500																		
	Welding ends							Flange facing design						Screws DIN 931			Sealing ring DIN 2691	
	Series 1							Groove			Tongue							
DN	d1	s	b	k	h	d	D	di	da	f	di	da	f	Quant-ity	Thread	Length	di	da
200	219.1	6.3	30	310	80	26	360	238	260	3.0	239	259	4.5	12	M 24	90	239	259
250	273.0	7.1	32	370	88	30	425	291	313	3.0	292	312	4.5	12	M 27	90	292	312
300	323.9	8.0	34	430	92	30	485	342	364	3.0	343	363	4.5	16	M 27	100	343	363
350	355.6	8.0	38	490	100	33	555	394	422	3.5	395	421	5.0	16	M 30	110	395	421

DIN 2634 PN25 DN200-500																	
400	406.4	8.8	40	550	110	36	620	446	474	3.5	447	473	5.0	16	M 33	120	447	473
500	508.0	10.0	44	660	125	36	730	548	576	3.5	549	575	5.0	20	M 33	130	549	575
DIN2636 PN63 DN10-40 / DIN 2637 PN100 DN10-40																		
DN	d1	s	b	k	h	d	D	di	da	f	di	da	f	Quant-ity	Thread	Length	di	Da
10	17.2	2.0	20	70	45	14	100	23	35	2.5	24	34	4.0	4	M 12	55	24	34
15	21.3	2.0	20	75	45	14	105	28	40	2.5	29	39	4.0	4	M 12	55	29	39
20	26.9	2.6	22	90	48	18	130	35	51	2.5	36	50	4.0	4	M 16	60	36	50
25	33.7	2.6	24	100	58	18	140	42	58	2.5	43	57	4.0	4	M 16	65	43	57
32	42.4	2.9	24	110	60	22	155	50	66	2.5	51	65	4.0	4	M 20	70	51	65
40	48.3	2.9	26	125	62	22	170	60	76	2.5	61	75	4.0	4	M 20	70	61	75
DIN 2636 PN63 DN50-125																		
DN	d1	S	b	k	h	d	D	di	da	f	di	da	f	Quant-ity	Thread	Length	di	da
50	60.3	2.9	26	135	62	22	180	72	88	2.5	73	87	4.0	4	M 20	75	73	87
65	76.1	3.2	26	160	68	22	205	94	110	2.5	95	109	4.0	8	M 20	75	95	109
80	88.9	3.6	28	170	72	22	215	105	121	2.5	106	120	4.0	8	M 20	75	106	120
100	114.3	4.0	30	200	78	26	250	128	150	3.0	129	149	4.5	8	M 24	90	129	149
125	139.7	4.5	34	240	88	30	295	154	176	3.0	155	175	4.5	8	M 27	100	155	175

Table 17: Installation lengths

26 Welding neck flanges - DIN EN 1092-1

- DIN EN-FL
- DIN EN-FL D
- DIN EN-FL C
- DIN EN-FL B1
- DIN EN-FL B2
- FL - flange
- Form D - groove, DIN EN 1092-1
- Form C - tongue, DIN EN 1092-1
- Form B1 - raised face (Rz 50) DIN EN 1092-1
- Form B2 - raised face (Rz 12.5) DIN EN 1092-1



DIN EN 1092-1 PN25 DN10-150 / PN40 DN10-400																				
	Welding ends									Flange facing design						Screws DIN 931			Sealing ring DIN 2691	
	Series 1		Series 2							Groove			Tongue							
DN	d1	s	d1	s	b	k	h	d	D	di	da	f	di	da	f	Quant-ity	Thread	Length	di	da
10	17.2	1.8	15.0	2.5	16	60	35	14	90	23	35	4.0	24	34	4.5	4	M 12	45	24	34
15	21.3	2.0	20.0	2.5	16	65	38	14	95	28	40	4.0	29	39	4.5	4	M 12	45	29	39
20	26.9	2.3	25.0	2.5	18	75	40	14	105	35	51	4.0	36	50	4.5	4	M 12	50	36	50
25	33.7	2.6	32.0	3.0	18	85	40	14	115	42	58	4.0	43	57	4.5	4	M 12	50	43	57

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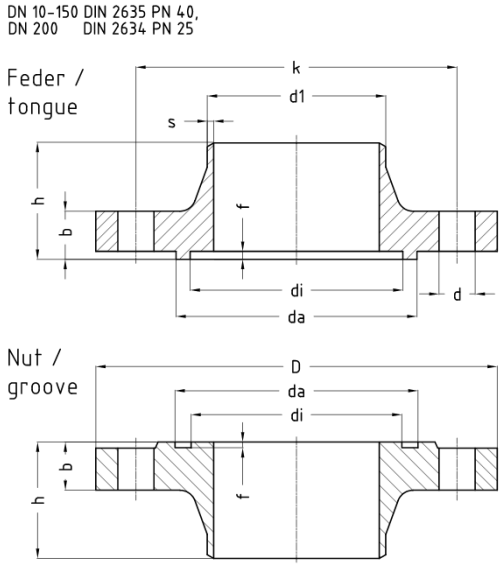
DIN EN 1092-1 PN25 DN10-150 / PN40 DN10-400																			
32	42.4	2.6	38.0	3.0	18	100	42	18	140	50	66	4.0	51	65	4.5	4	M 16	55	51	65
40	48.3	2.6	45.0	3.0	18	110	45	18	150	60	76	4.0	61	75	4.5	4	M 16	55	61	75
50	60.3	2.9	57.0	3.2	20	125	48	18	165	72	88	4.0	73	87	4.5	4	M 16	60	73	87
65	76.1	2.9	76.1	3.6	22	145	52	18	185	94	110	4.0	95	109	4.5	8	M 16	60	95	109
80	88.9	3.2	88.9	4.0	24	160	58	18	200	105	121	4.0	106	120	4.5	8	M 16	65	106	120
100	114.3	3.6	108.0	4.0	24	190	65	22	235	128	150	4.5	129	149	5.0	8	M 20	70	129	149
125	139.7	4.0	133.0	4.0	26	220	68	26	270	154	176	4.5	155	175	5.0	8	M 24	80	155	175
150	168.3	4.5	159.0	4.5	28	250	75	26	300	182	204	4.5	183	203	5.0	8	M 24	80	183	203
200	219.1	6.3			34	320	88	30	375	238	260	4.5	239	259	5.0	12	M 27	100	239	259
250	273.0	7.1			38	385	105	33	450	291	313	4.5	292	312	5.0	12	M 30	110	292	312
300	323.9	8.0			42	450	115	33	515	342	364	4.5	343	363	5.0	16	M 30	120	343	363
350	355.6	8.8			46	510	125	36	580	394	422	5.0	395	421	5.5	16	M 33	130	395	421
400	406.4	11.0			50	585	135	39	660	446	474	5.0	447	473	5.5	16	M 36	140	447	473

Table 18: Installation lengths

27 Welding neck flanges - DIN EN 1092-1

- DIN EN-FL
- DIN EN-FL D
- DIN EN-FL C
- DIN EN-FL B1
- DIN EN-FL B2
- FL - flange
- Form D - groove, DIN EN 1092-1
- Form C - tongue, DIN EN 1092-1
- Form B1 - raised face, (Rz 50) DIN EN 1092-1
- Form B2 - raised face, (Rz 12.5) DIN EN 1092-1



DIN EN 1092-1 PN25 DN200-500																		
	Welding ends							Flange facing design						Screws DIN 931			Sealing ring DIN 2691	
	Series 1							Groove			Tongue							
DN	d1	s	b	k	h	d	D	di	da	f	di	da	f	Quantity	Thread	Length	di	da
200	219.1	6.3	30	310	80	26	360	238	260	4.5	239	259	5.0	12	M 24	90	239	259
250	273.0	7.1	32	370	88	30	425	291	313	4.5	292	312	5.0	12	M 27	90	292	312
300	323.9	8.0	34	430	92	30	485	342	364	4.5	343	363	5.0	16	M 27	100	343	363
350	355.6	8.0	38	490	100	33	555	394	422	5.0	395	421	5.5	16	M 30	110	395	421

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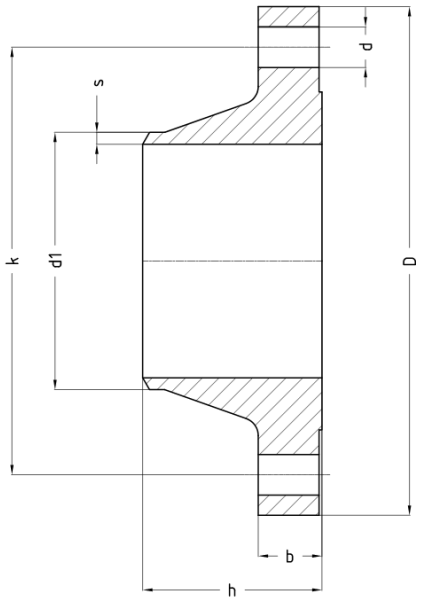
DIN EN 1092-1 PN25 DN200-500																		
400	406.4	8.8	40	550	110	36	620	446	474	5.0	447	473	5.5	16	M 33	120	447	473
500	508.0	10.0	44	660	125	36	730	548	576	5.0	549	575	5.5	20	M 33	130	549	575
DIN EN 1092-1 PN63 DN10-40 / PN100 DN10-40																		
DN	d1	s	b	k	h	d	D	di	da	F	di	da	f	Quantity	Thread	Length	di	Da
10	17.2	2.0	20	70	45	14	100	23	35	4.0	24	34	4.5	4	M 12	55	24	34
15	21.3	2.0	20	75	45	14	105	28	40	4.0	29	39	4.5	4	M 12	55	29	39
20	26.9	2.6	22	90	48	18	130	35	51	4.0	36	50	4.5	4	M 16	60	36	50
25	33.7	2.6	24	100	58	18	140	42	58	4.0	43	57	4.5	4	M 16	65	43	57
32	42.4	2.9	24	110	60	22	155	50	66	4.0	51	65	4.5	4	M 20	70	51	65
40	48.3	2.9	26	125	62	22	170	60	76	4.0	61	75	4.5	4	M 20	70	61	75
DIN EN 1092-1 PN63 DN50-125																		
DN	d1	S	b	k	h	d	D	di	da	f	di	da	F	Quantity	Thread	Length	di	da
50	60.3	2.9	26	135	62	22	180	72	88	4.0	73	87	4.5	4	M 20	75	73	87
65	76.1	3.2	26	160	68	22	205	94	110	4.0	95	109	4.5	8	M 20	75	95	109
80	88.9	3.6	28	170	72	22	215	105	121	4.0	106	120	4.5	8	M 20	75	106	120
100	114.3	4.0	30	200	78	26	250	128	150	4.5	129	149	5.0	8	M 24	90	129	149
125	139.7	4.5	34	240	88	30	295	154	176	4.5	155	175	5.0	8	M 27	100	155	175

Table 19: Installation lengths

28 Welding neck flanges - ANSI B16.5 raised face

- ANSI-FL
- ANSI-FL 150lbs RF
- ANSI-FL 300lbs RF
- FL - flange
- Facing with large and small male / female
- Facing with large and small tongue / groove according to ANSI B16.5



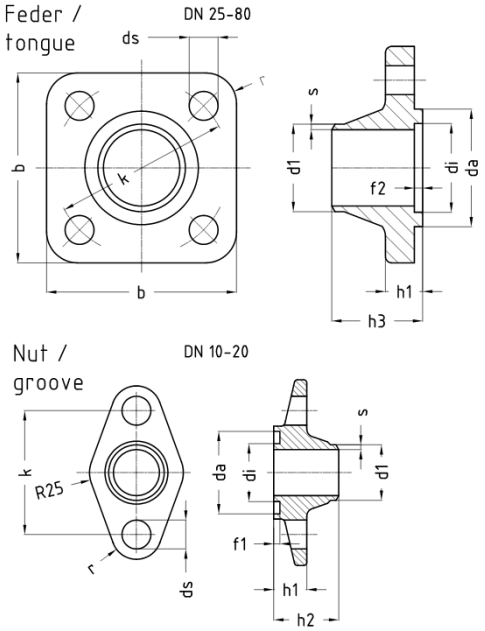
Nominal size		Welding ends acc. to:													
		ANSI		ANSI-FL 150lbs RF / sq. in					Screws DIN 931	ANSI-FL 300lbs RF / sq. in					Screws DIN 931
DN	INCH	d1	s	b	k	h	d	D	Quantity	b	k	h	d	D	Quantity
15	1/2"	21.3	2.8	11.2	60.5	47.8	15.7	88.9	4	14.2	66.5	52.3	15.7	95.2	4
20	3/4"	26.7	2.9	12.7	69.9	52.3	15.7	98.6	4	15.7	82.5	57.1	19.0	117.3	4
25	1"	33.4	3.4	14.2	79.2	55.6	15.7	108.0	4	17.5	88.9	62.0	19.0	123.9	4
32	1 1/4"	42.2	3.6	15.7	88.9	57.2	15.7	117.3	4	19.0	98.5	65.0	19.0	133.3	4
40	1 1/2"	48.3	3.7	17.5	98.6	62.0	15.7	127.0	4	20.6	114.3	68.3	22.3	155.4	4
50	2"	60.3	3.9	19.1	120.7	63.5	19.1	152.4	4	22.3	127.0	69.8	19.0	165.1	6
65	2 1/2"	73.0	5.2	22.4	139.7	69.9	19.1	177.8	4	25.4	149.3	76.2	22.3	190.5	8
80	3"	88.9	5.5	23.9	152.4	69.9	19.1	190.5	4	28.4	168.1	79.2	22.3	209.5	8
100	4"	114.3	6.0	23.9	190.5	76.2	19.1	228.6	8	31.7	200.1	85.8	22.3	254.0	8
125	5"	141.3	6.6	23.9	215.9	88.9	22.4	254.0	8	35.0	234.9	98.5	22.3	279.4	8
150	6"	168.3	7.1	25.4	241.3	88.9	22.4	279.4	8	36.5	269.7	98.5	22.3	317.5	12
200	8"	219.1	8.2	28.4	298.5	101.6	22.4	342.9	8	41.1	330.2	111.2	25.4	381.0	12
250	10"	273.0	9.3	30.2	362.0	101.6	25.4	406.4	12	47.7	387.3	117.3	28.4	444.5	16

Nominal size		Welding ends acc. to:													
300	12“	323.8	10.3	31.8	431.8	114.3	25.4	482.6	12	50.8	450.8	130.0	31.7	520.7	16
350	14“	355.6	11.1	35.1	476.3	127.0	28.4	533.4	12	53.8	514.3	142.7	31.7	584.2	20
400	16“	406.4	12.7	36.6	539.8	127.0	28.4	596.9	16	57.1	571.5	146.0	35.0	647.7	20

Table 20: Installation lengths

29 Welding neck flanges - AWP

- AWP-FL
- AWP-FL N
- AWP-FL F
- FL - flange
- N - groove
- F - tongue



AWP-FL PN25 DN10-20 / PN40 DN25-80																									
	Welding ends											Flange facing design								Screws DIN 931			Sealing ring DIN 2691	
	Series 1		Series 2		ANSI							Groove				Tongue				Quant-ity	Thread	Length		
DN	d1	s	d1	s	d1	s	b	k	r	h1	ds	di	da	f1	h2	di	da	f2	h3				di	da
10	17.2	1.8	15.0	2.5	17.1	2.3	88	60	13	16	14	28	40	3	31.5	29	39	4	32.0	2	M 12	45	29	39
15	21.3	2.0	20.0	2.5	21.3	2.8	88	60	13	16	14	28	40	3	31.5	29	39	4	32.0	2	M 12	45	29	39
20	26.9	2.3	25.0	2.5	26.7	2.9	88	60	13	16	14	28	40	3	31.5	29	39	4	32.0	2	M 12	45	29	39
25	33.7	2.6	32.0	3.0	33.4	3.4	92	85	15	18	14	42	58	3	44.0	43	57	4	44.0	4	M 12	50	43	57
32	42.4	2.6	38.0	3.0	42.2	3.6	92	85	15	18	14	42	58	3	44.0	43	57	4	44.0	4	M 12	50	43	57
40	48.3	2.6	45.0	3.0	48.3	3.7	92	85	15	18	14	42	58	3	38.5	43	57	4	38.5	4	M 12	50	43	57

AWP-FL PN25 DN10-20 / PN40 DN25-80																						
50	60.3	2.9	57.0	3.2	60.3	3.9	132	135	20	28	18	84	96	3	43.0	85	95	4	43.0	4	M 16	75	A85x95*
65	76.1	2.9	76.1	3.6	73.0	5.2	132	135	20	28	18	84	96	3	53.5	85	95	4	53.5	4	M 16	75	A85x95*
80	88.9	3.2	88.9	4.0	88.9	5.5	132	135	20	28	18	84	96	3	53.5	85	95	4	53.5	4	M 16	75	A85x95*

Table 21: Installation lengths
* = acc. to DIN 7603

30 Legal notices

- GEA AWP valves must be handled in accordance with the GEA AWP operating regulations.
- The safety instructions mentioned in the operating regulations must be observed.
- A hazard analysis is available for GEA AWP valves.
- GEA AWP valves must only be handled by authorised persons.
- The instructions for the use of personal protective equipment (PPE) must be observed.
- GEA AWP valves must be used for their intended purpose.
- This catalogue has been carefully created and checked; however, it may still contain errors. The technical specifications given in the catalogue are not contractually guaranteed properties. Technical specifications are only binding if they have been confirmed by us in writing.
- We reserve the right to make technical changes.
- Further information on our declarations of conformity, operating regulations, calculation software and the general terms and conditions can be found on our website **www.awpvalves.com** under the Tools/Downloads tab.
- Our general terms and conditions apply.

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Latest revision: 05.02.2026