Ball float steam trap

CONA® SC Ball float steam trap with capsule for rapid system start-up ANSI150 / 300 - with flanges (Fig. 634....1) Forged steel/ - with screwed sockets (Fig. 634....2) SG iron - with socket weld ends (Fig. 634....3) Forged steel/ - with butt weld ends (Fig. 634....4) Cast steel Stainless steel Fig. 634 Fig. 634....2 Page 2

CONA® SC Plus

Ball float steam trap

with capsule for rapid system start-up

ANSI150 / 300

- with flanges - with screwed sockets

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(Fig. 635....1)
(Fig. 635....2)
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Forged steel Fig. 635 Page 4

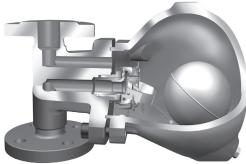


Fig. 635....1

CONA® SC

Ball float steam trap for drainage of water from compressed air and gas systems (acc. to PED 97/23/EC fluid group 2)

ANSI150 / 300

- with flanges
- with screwed sockets
- with socket weld ends
- with butt weld ends

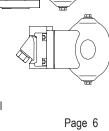
(Fig. 636....2) SG iron (Fig. 636....3) (Fig. 636....4)

(Fig. 636....1)

Forged steel/ Cast steel Stainless steel

Fig. 636

Forged steel/



Features:

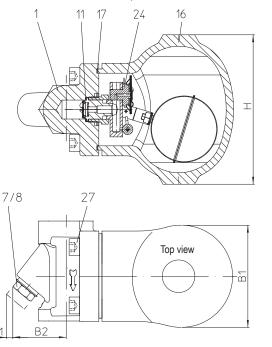
- · Back pressure-free condensate discharge even at extreme pressure- and quantity fluctuations
- · Controller with integrated automatic ventilation (except Fig. 636)
- · Robust and insensitive to waterhammer
- Non return protection (except Fig. 635)
- · Union for pressure compension line and bypass possible
- · On-site change of the installation position is possible according to the operating instructions
- · The controller maybe changed without disturbing the pipe work
- · Pressure test acc. to API 598
- · CRN approved



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Ball float steam trap (Forged steel/SG iron, Forged steel/Cast steel, Stainless steel)



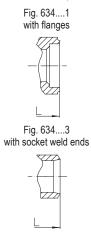


Fig. 634....4 with butt weld ends

Fig. 634....2 (ANSI150) with screwed sockets - vertical installation Fi

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Fig. 6342 (ANSI300) with screwed sockets - horizontal installation	on

Figure	Nominal pressure	Material	NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller		
42.634	ANSI150	Body: SA105 /	15 - 25	5,5 barg	427 °C	4 bar	R4		
42.034	ANSI150	Hood: SA216WCB	15 - 25	14 barg	199 °C	14 bar	R14		
				28 barg	427 °C	4 bar	R4		
45.634 (Y)	ANSI300	Body: SA105 / Hood: SA216WCB	15 - 25	20 baig	427 0	14 bar	R14		
45.054 (1)	ANSISOU		15 - 25	32 barg	411 °C	21 bar	R 21		
				52 bary	411 0	32 bar	R32		
				2,4 barg	510 °C	4 has	D4		
52.634	ANSI150	Body: SA182F321 / Hood:SA351CF8	15 - 25	4 barg	467 °C	- 4 bar - 12,8 bar	R4 R14		
				12,8 barg	218 °C		K14		
				00 0 h ann	510 °C	4 bar	R4		
	ANICI200	Body: SA182F321 /	15 - 25	26,2 barg	510 °C	14 bar	R14		
55.634 (Y)	ANSI300	Hood: SA351CF8	15 - 25	20 h a u	000.80	21 bar	R 21		
				32 barg	32 barg 262 °C	32 bar	R32		
Screwed so	1a ockets2N	cc. to ASME B16.5 PT thread acc. to ANSI B1 cc. to ASME B16.11	.20.1 or Rp thread	acc. to DIN EN 10226-1		Other types of co	onnection on request.		
			tion on operating p	ressure / inlet temperature	e depending to design!)				
Features					o doponanig to doolgin)				
		l control for the condensa	te-discharge	Discharge of great cor	ndensate quantities even	at low differential pressure)		
	ds of steam syster			ANSI150 without strain	ner / ANSI300 with outsi	de strainer - Fig. 634 (Y)			
		thermostatic air venting c	apsule	Body with flanged hood					
	sate with tempera	,		Non return protection					
 Immediate 	discharge of hot b	oiling condensat		The controller maybe of	changed without disturbir	ng the pipe work			
Mounting po	sition								
Standard:	vertical			Please indicate when c	•				
• Optional:	horizontal with i	inlet from right or left		Refer to: Information about the different installation positions (Page 13) On-site change of the installation position is possible according to the operating instructions.					
Options									
Vent plug (,			Manual air vent valve (Pos. 51)					
 Plug (Pos. 	50)			Ball valve for blow down (Pos. 56)					

CONA®SC 634 ANSI

ANSI150/300 - 1/2"-1"

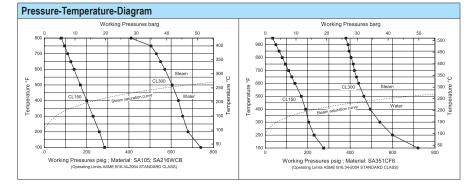
	410		Flanges			Screwed sockets Socket weld ends			Butt weld ends		
	1/2	3/4	1	1/2	3/4	1	1/2	3/4	1		
sheet r	resp. custome	r request									
nm)	150	150	160	95	95	95	200 (250)	200 (250)	200 (250)		
							Standard-flan	ge dimensions ı	refer to page 11		
nm)	140	140	140	140	140	140	140	140	140		
nm)	155	155	155	155	155	155	155	155	155		
nm)	97	97	97	97	97	97	97	97	97		
nm)	53	53	53	53	53	53	53	53	53		
nm)	120	120	120	120	120	120	120	120	120		
nm)	10	10	10	10	10	10	10	10	10		
								-			
g)	6,7	6,9	7,1	4,7	4,9	5,1	5,1	5,4	5,8		
	1m) 1m) 1m) 1m) 1m) 1m)	Im) 150 Im) 140 Im) 155 Im) 97 Im) 53 Im) 120 Im) 10	Imm 140 140 Imm) 155 155 Imm) 97 97 Imm) 53 53 Imm) 120 120 Imm) 10 10	Imm 150 150 160 Imm 140 140 140 Imm 155 155 155 Imm 97 97 97 Imm 53 53 53 Imm 120 120 120 Imm 10 10 10	Imm 150 150 160 95 Imm 140 140 140 140 Imm 155 155 155 155 Imm 97 97 97 97 Imm 53 53 53 53 Imm 120 120 120 120 Imm 10 10 10 10	Imm 150 150 160 95 95 Imm 140 140 140 140 140 Imm 155 155 155 155 155 Imm 97 97 97 97 97 Imm 53 53 53 53 53 Imm 120 120 120 120 120 Imm 10 10 10 10 10	Imm 150 150 160 95 95 95 Imm 140 140 140 140 140 140 Imm 155 155 155 155 155 155 Imm 97 97 97 97 97 Imm 53 53 53 53 53 Imm 120 120 120 120 120 Imm 10 10 10 10 10 10	Imm 150 150 160 95 95 95 200 (250) Standard-flan Imm 140 155 <td>Imm 150 150 160 95 95 95 200 (250) 200 (250) Standard-flange dimensions r nm) 140 155 155 155</td>	Imm 150 150 160 95 95 95 200 (250) 200 (250) Standard-flange dimensions r nm) 140 155 155 155		

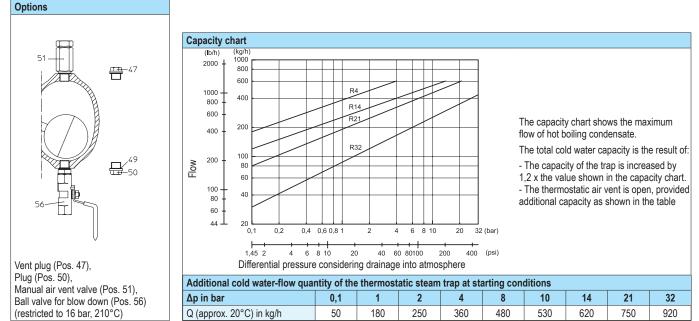
Parts									
Pos.	Sp.p.	Description	Fig. 42.634	Fig. 45.634 (Y)	Fig. 52.634	Fig. 55.634 (Y)			
1		Body	SA105		SA182F321				
7	х	Strainer	SA240Gr.304			SA240Gr.304			
8		Strainer plug		SA182F321		SA182F321			
11	х	Sealing ring	SA182F321						
16		Hood	SA216WCB SA351CF8						
17	х	Gasket	GRAPHIT (CrNi laminated with graphite)						
24	х	Controller / Capsule, cpl.	SA240Gr.304 / Hastelloy						
27		Cheese head screw	SA193Gr.B16 (with metric s	screw-thread)					
47		Vent plug (M14x1,5)	SA182F321 (with metric sc	rew-thread)					
49	х	Sealing ring	SA182F321						
50	х	Plug (M14x1,5)	SA182F321 (with metric sc	rew-thread)					
51	х	Manual air vent valve	SA182F321 (with metric screw-thread)						
56	х	Ball valve for blow down	SA351CF8M (with metric screw-thread)						
	L Spare parts								

Information / restriction of technical rules need to be observed!

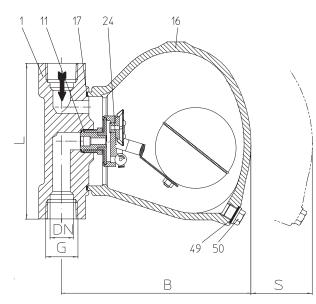
Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list).

Operating and installation instructions can be downloaded at www.ari-armaturen.com.





Ball float steam trap (Forged steel)



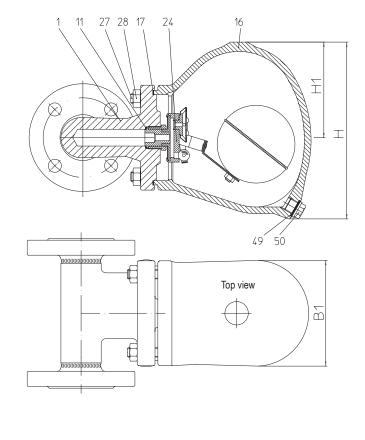


Fig. 635....2 with screwed sockets - vertical installation

Fig. 635....1 with flanges - horizontal installation

Figure	Nominal pressure	Material	NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔΡΜΧ	for controller		
				5,5 barg	427 °C				
42.635	ANSI150	Body: SA105 / Hood: SA216WCB	1"	10 barg	306 °C	5 bar 10 bar	R5		
				14 barg	199 °C		R10		
45.635	ANSI300	Body: SA105 / Hood: SA216WCB	1"	14 barg	427 °C	- 14 bar	R14		
DIN/EN-Construct	ions refer to data sh	eet CONA®SC/SC-Plus							
Types of connect	tion	·				Other types of con	nection on reques		
• Flanges1	acc. to A	SME B16.5							
Screwed socket	s2NPT three	ead acc. to ANSI B1.20.1 or	Rp thread acc. to D	DIN EN 10226-1					
Features									
	•	ol for the condensate-disch	arge from	Discharge of great condensate quantities even at low differential pressure					
all kinds of stear	,			Body with flanged hood					
	art-up due to thermo with temperatures ≥	ostatic air venting capsule ≥ 100°C)		The controller maybe changed without disturbing the pipe work					
Immediate disch	arge of hot boiling o	condensat							
Mounting positio	n								
Standard:	vertical			Please indicate whe	•				
Optional: horizontal with inlet from right or left Optional: horizontal with inlet from right or left									
Options									
Air vent - (Pos.	51) or blow down va	lve (Pos. 46), manual opera	ated						

Air vent - (Pos. 51) or blow down valve (Pos. 46), manual operated

CONA®SC Plus 635 ANSI

ANSI150 / 300 - 1"

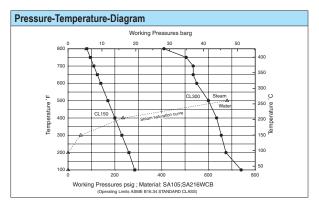
Types of connection		Flanges	Screwed sockets					
NPS		1	1					
Face-to-face acc. to	Face-to-face acc. to data sheet resp. customer request							
L	(mm)	160	160					
Dimensions			Standard-flange dimensions refer to page 11.					
Н	(mm)	190	190					
H1	(mm)	102	102					
В	(mm)	244	196					
B1	(mm)	113	113					
S	(mm)	160	160					
Weights								
(approx.) (kg)		11	8,5					

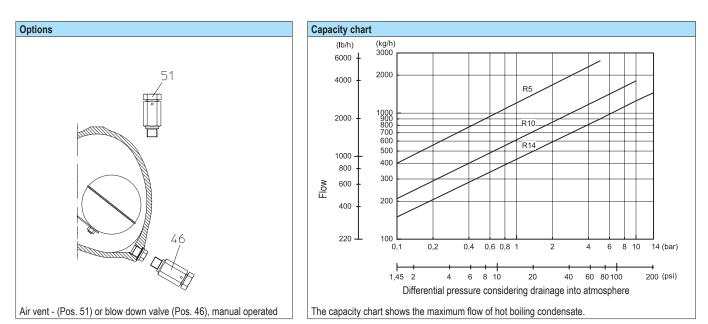
Parts	arts								
Pos.	Sp.p.	Description	Fig. 42.635 Fig. 45.635						
1		Body	SA105						
11	Х	Sealing ring	SA182F321						
16		Hood	SA216WCB						
17	Х	Gasket	GRAPHIT (CrNi laminated with graphite)						
24	Х	Controller / Capsule, cpl.	SA240Gr.304 / Hastelloy						
27		Stud	SA193Gr.B16 (with metric screw-thread)						
28		Hexagonal nut	SA193Gr.B16 (with metric screw-thread)						
46	х	Blow down valve, cpl.	SA182F321 (with metric screw-thread)						
49	х	Sealing ring	SA182F321						
50	х	Plug (M14x1,5)	SA182F321 (with metric screw-thread)						
51	х	Manual air vent valve	SA182F321 (with metric screw-thread)						
	L Spar	e parts	·						

Information / restriction of technical rules need to be observed!

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

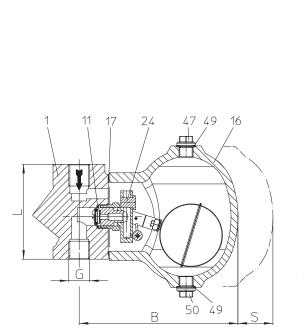
Operating and installation instructions can be downloaded at www.ari-armaturen.com.

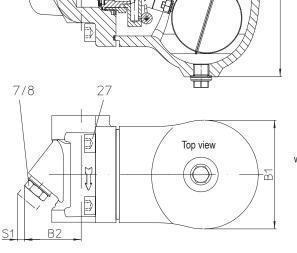




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Ball float steam trap (Forged steel/SG iron, Forged steel/Cast steel, Stainless steel)





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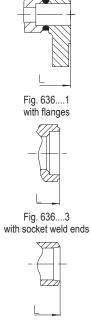


Fig. 636....4 with butt weld ends

Fig. 636....2 (ANSI150) with screwed sockets - vertical installation

Fig. 636....1 (ANSI300) with screwed sockets - horizontal installation

Figure	Nominal pressure	Material	NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
42.636 ANSI150	ANC1150	Body: SA105 /	1/2" - 1"	5,5 barg	427 °C	4 bar	R4
	Hood: SA216WCB	1/2 - 1	14 barg	199 °C	14 bar	R14	
45.636 (Y) ANSI300		1/2" - 1"	28 barg	427 °C	4 bar	R4	
	Body: SA105 / Hood: SA216WCB				14 bar	R14	
			20 have	411 °C	21 bar	R 21	
				32 barg	411 0	32 bar	R32
		50 Body: SA182F321 / Hood:SA351CF8		2,4 barg	510 °C		5.4
52.636	ANSI150		1/2" - 1"	4 barg	467 °C	4 bar	R4
		1000.3A331010		12,8 barg	218 °C	- 12,8 bar	R14
				06.0 hora	E10 °C	4 bar	R4
55.636 (Y) AM	ANSI300	Body: SA182F321 /	1/2" - 1"	26,2 barg	510 °C	14 bar	R14
	ANGIJUU	Hood: SA351CF8	1/2 - 1	32 barg	262 °C	21 bar	R 21
				JZ Dary	202 0	32 bar	R32

DIN/EN-Constructions refer to data sheet CONA®SC/SC-Plus

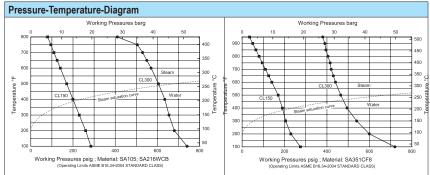
Types of con	nection	Other types of connection on request.					
Flanges1	Flanges1 acc. to ASME B16.5						
Screwed so	ckets2NPT thread acc. to ANSI B1.20.1 or Rp thread	d acc. to DIN EN 10226-1					
Socket weld	ends3acc. to ASME B16.11						
Butt weld en	nds4ASME B16.25 (Note restriction on operating p	pressure / inlet temperature depending to design!)					
Features							
	am trap with level controller for the	ANSI150 without strainer / ANSI300 with outside strainer - Fig. 636 (Y)					
	discharge from compressed air and gas systems	Body with flanged hood					
`	0 97/23/EC fluid group 2, other fluid groups on request)	Non return protection					
 Discharge o low different 	f great condensate quantities even at ial pressure	The controller maybe changed without disturbing the pipe work					
Mounting pos	sition						
Standard:	vertical	Please indicate when ordering!					
	horizontal with inlet from right or left	Refer to: Information about the different installation positions (Page 11)					
Optional:	 horizontal with adapter for recovery pipe (union joint). Example for installation ref. to page 10 	On-site change of the installation position is possible according to the operating instructions.					
Options							
Manual air vent valve (Pos. 51) Manual air vent valve (Pos. 51) Ball valve for blow down (Pos. 56) Seffective key and the set of the set							
		Softsealing ball FKM (Viton), max. 120°C					

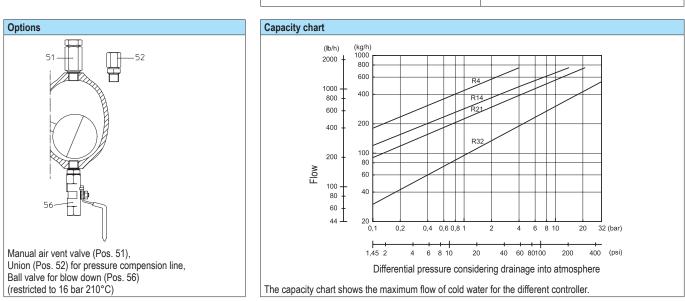
CONA®SC 636 ANSI

ANSI150/300 - 1/2"-1"

Types of connection Flanges				Flanges			Screwed socket Socket weld end	-	Butt weld ends			
NPS			1/2	3/4	1	1/2	3/4	1	1/2	3/4	1	
Face-to	o-face ac	c. to data sheet	resp. custome	er request								
L		(mm)	150	150	160	95	95	95	200 (250)	200 (250)	200 (250)	
Dimen	-!				1				Ctandard flan	ao dimonolono y	ofor to page 11	
	sions	(mm)	156	156	156	156	156	156	5tandard-flan	ge dimensions i 156	156	
Н		(mm)										
B		(mm)	155	155	155	155	155	155	155	155	155	
B1		(mm)	97	97	97	97	97	97	97	97	97	
S		(mm)	120	120	120	120	120	120	120	120	120	
Weight	ts											
(approx		(kg)	6,7	6,9	7,1	4,7	4,9	5,1	5,1	5,4	5,8	
							-					
Parts		1										
Pos.	Sp.p.	Description			Fig. 42.636	F	ig. 45.636 (Y)	Fig. 5		Fig. 55.63	6 (Y)	
1		Body			SA105			SA18	2F321			
7	х	Strainer			SA240Gr.304 -					SA240Gr.	304	
8		Strainer plug				SA182F321			SA182F321			
11	x	Sealing ring			A4			SA18	A182F321			
16		Hood			SA216WCB SA351CF8							
17	x	Gasket			GRAPHIT (CrNi laminated with graphite)							
24	x	Controller, cpl.			SA240Gr.304	/ Hastelloy						
27		Cheese head so	crew		SA193Gr.B16 (with metric screw-thread)							
47		Vent plug (M14)	(1,5)		SA182F321 (with metric screw-thread)							
49	х	Sealing ring			SA182F321							
50	x	Plug (M14x1,5)					SA182F321 (with metric screw-thread)					
51					with metric scre	,						
52				AISI303 (with metric screw-thread)								
56						(with metric sci	,					
	L Spar	e parts					,					

Information / restriction of technical rules need to be observed! Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list). Operating and installation instructions can be downloaded at www.ari-armaturen.com.





CONA[®] SC ANSI / SC Plus ANSI

Informations about pipe welding / Non return protection / Recovery pipe

Informations about pipe welding

Welding groove acc. to ASME B16.25

The material used for ARI valves with butt weld ends are:

SA105 SA182F321

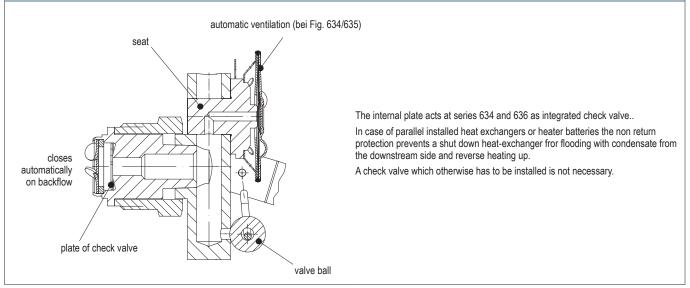
Due to our experience, we recommend to apply an electric welding process.

Because of the different material compositions and wall thickness of the steam traps and the pipe gas welding shall not be applied. Quenching cracks and coarse grain structure may develop.

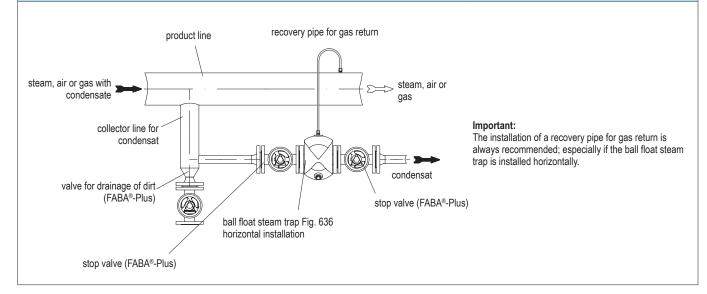
Steam traps with socket-weld ends shall only be welded by arc welding (welding process 111 acc. to DIN EN 24063).

If during the time of warranty others than the manufacturer or by the manufacturer authorized persons are interfering in the product and/or the setting, the right of claim for warranty will lapse!

Integrated non return protection



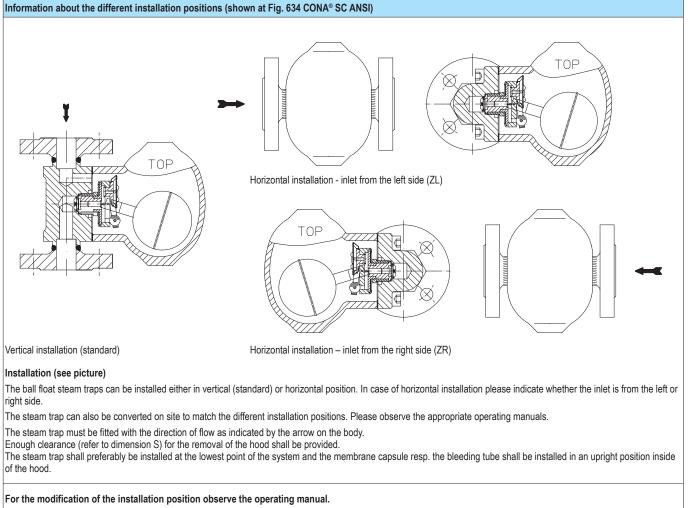
Installation with recovery pipe



Selection criteria:		Example for order data:	Example for order data:			
Steam pressure	Type of connection					
Back pressure	Material	Ball float steam trap CONA [®] SC,				
Quantity of condensate	 Place of service or kind 	Fig. 634, ANSI150, NPS 1", SA105/SA216WCB, R14,				
Flow medium	of steam consumer	with flanges, Face-to-face dimension 160 mm				
Nominal diameter / pressure						
Other installation positions that direction i.e. inlet from left or r		icated together with the information about the flow				

CONA® SC ANSI / SC Plus ANSI Standard-flange dimensions / Information about the different installation positions

Standard-flange dimensions acc. to ASME B16.5							
NPS 1/2 3/4 1							
ANSI150	ØD	(mm)	89	99	108		
	ØK	(mm)	60	70	79		
	n x Ød	(mm)	4 x 16	4 x 16	4 x 16		
	ØD	(mm)	95	117	124		
ANSI300	ØK	(mm)	66,5	82,5	89		
	n x Ød	(mm)	4 x 16	4 x 19	4 x 19		

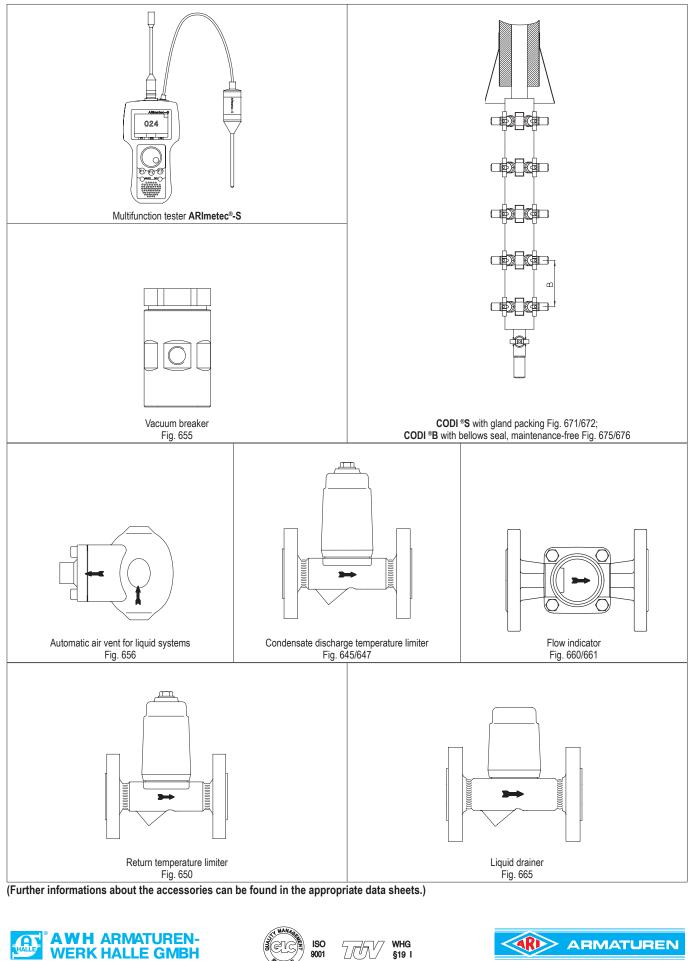


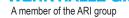
A modification of the installation position during the time of warranty shall be carried out by the AWH-Service or it shall be agreed between the customer and manufacturer.

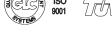


CONA® SC ANSI / SC Plus ANSI

Accessories / further components









Technology for the Future. GERMAN QUALITY VALVES

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