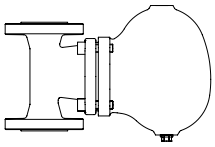
Ball float steam trap for low temperature application

Ball float steam trap
PN16 / PN40

- **with flanges** **(BR 631....1)**
- **with screwed sockets** **(BR 631....2)**
- **with socket weld ends** **(BR 631....3)**
- **with butt weld ends** **(BR 631....4)**



cold toughened steel
BR 631 Page 2

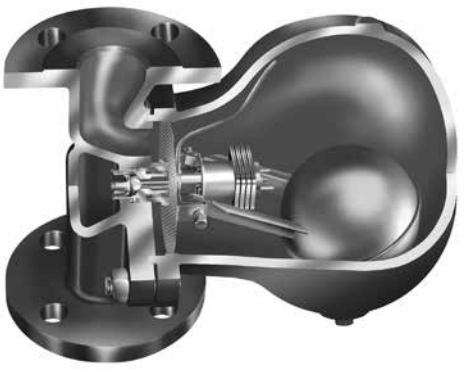
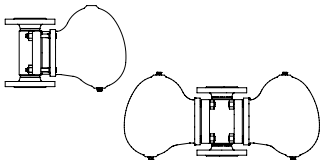


Fig. 631....1
vertical installation

Ball float steam trap
PN16 / PN40

- **with flanges R4-P** **(BR 633....1)**
- **with flanges** **(BR 639....1)**

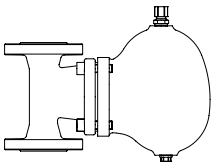


cold toughened steel Page 6
BR 633 / BR 639 Page 8

Fig. 631....1
horizontal installation

Ball float steam trap for drainage of water from compressed air and gas systems
PN40

- **with flanges** **(BR 630....1)**
- **with screwed sockets** **(BR 630....2)**
- **with socket weld ends** **(BR 630....3)**
- **with butt weld ends** **(BR 630....4)**

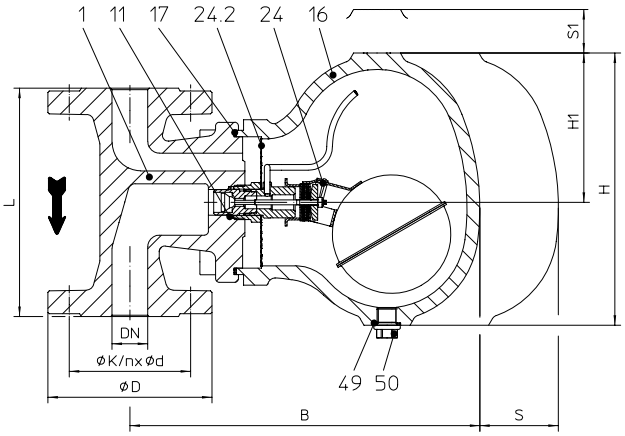


cold toughened steel
BR 630 Page 10

Features:

- Back pressure-free condensate discharge even at extreme pressure- and quantity fluctuations
- Controller with integrated automatic ventilation (except Fig. 630)
- Robust and insensitive to waterhammer
- Non return protection (except Fig. 633)
- Union for pressure compension line and bypass possible
- On-site change of the installation position is possible according to the operating instructions (except Fig. 633)
- The controller maybe changed without disturbing the pipe work

Ball float steam trap for low temperature application (cold toughened steel)



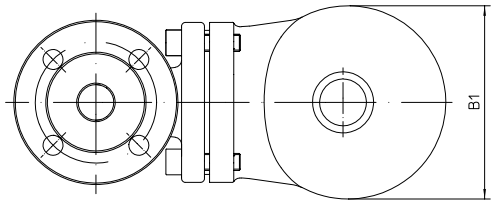
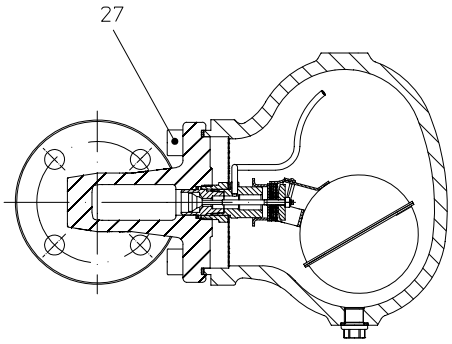


Fig. 631....1 with flanges - vertical installation



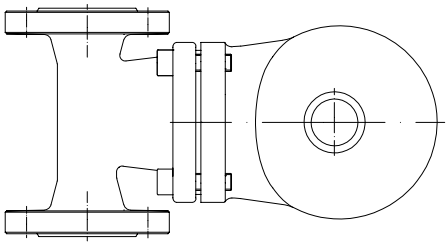


Fig. 631....1 with flanges - horizontal installation

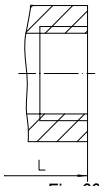


Fig. 631....2
with screwed sockets

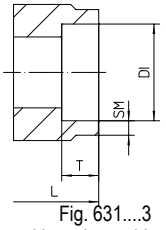


Fig. 631....3
with socket weld ends

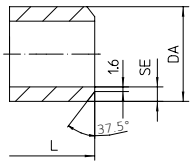


Fig. 631....4
with butt weld ends

Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller	
82.631	PN16	Body: 1.0571 Hood: 1.6220+QT	65/100 / 2 1/2" / 4"	13 barg	300 °C	2 bar 4 bar 8 bar 13 bar	R2 R4 R8 R13	R2-S R4-S R8-S R13-S
85.631	PN40	Body: 1.0571 Hood: 1.6220+QT	15 - 100 / 1/2" - 4"	2 barg 4 barg 8 barg 13 barg 22 barg 32 barg	300 °C	2 bar 4 bar 8 bar 13 bar ≥ PN40: 22 bar 32 barg	R2 R4 R8 R13 PN40: R22 R32	≥ DN40 / ≥ NPS 1 1/2": R2-S R4-S R8-S R13-S
For ANSI versions refer to data sheet CONA®S-ANSI								

Design pressure PMA			
Figure		Temperature (°C)	
		-50[1] to 250	300
82.631	(barg)	16	14,9
85.631	(barg)	40	37,3

[1] Notch impact test below -50°C on request.

Types of connection	Other types of connection on request.
• Flanges ....1 _____ acc. to DIN EN 1092-1	
• Screwed sockets ....2 ___ Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1	
• Socket weld ends ....3 ___ acc. to DIN EN 12760	
• Butt weld ends ....4 _____ Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5 (Note restriction on operating pressure / inlet temperature depending to design!)	

Features	
• Ball float steam trap with level control for the condensate-discharge from all kinds of steam systems • Rapid system start-up due to thermostatic control element • Inside strainer • Body with flanged hood	• Non return protection • The controller maybe changed without disturbing the pipe work • On-site change of the installation position is possible according to the operating instructions

Mounting position		
• Standard:	vertical	**Please indicate when ordering!** Refer to: Information about the different installation positions (Page 15) On-site change of the installation position is possible according to the operating instructions.
• Optional:	horizontal with inlet from right or left	

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

Types of connection		Flanges								Screwed sockets Socket weld ends					Butt weld ends				
DN	(mm)	15	20	25	40	50	65	80	100	15	20	25	40	50	15	20	25	40	50
NPS	(inch)	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	1/2"	3/4"	1"	1 1/2"	2"	1/2"	3/4"	1"	1 1/2"	2"
Face-to-face acc. to data sheet resp. customer request																			
L	(mm)	150	150	160	230	230	290	310	350	150	150	160	210	210	160	160	160	250	250
Dimensions																			
H	(mm)	162	162	193	274	274	274	274	274	162	162	193	274	274	162	162	193	274	274
H1	(mm)	87	87	107	157	157	157	157	157	87	87	107	157	157	87	87	107	157	157
B	(mm)	217	217	249	292	292	292	292	292	170	170	197	292	292	170	170	197	292	292
B1	(mm)	114	114	135	194	194	194	194	194	114	114	135	194	194	114	114	135	194	194
S	(mm)	180	180	200	300	300	300	300	300	180	180	200	300	300	180	180	200	300	300
S1	(mm)	150	150	180	200	200	200	200	200	150	150	180	200	200	150	150	180	200	200
Weights																			
Fig. 631 (approx.)	(kg)	8,1	8,3	12,1	28,5	29,1	31	33	36,5	7,5	7,5	9,7	23,8	24,3	7,1	8,1	10,2	24,8	25,8

Standard-flange dimensions refer to page 15.

Parts

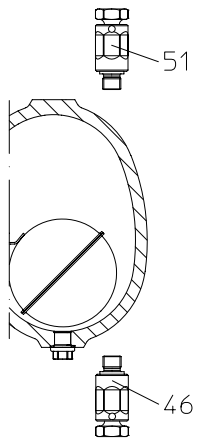
Pos.	Sp.p.	Description	Fig. 82. / 85.631
1		Body	P355QH1, 1.0571
11	x	Sealing ring	A4
16		Hood	G20Mn5+QT, 1.6220+QT
17	x	Gasket	Graphite (CrNi laminated with Graphite)
24	x	Controller, cpl.	X5CrNi18-10, 1.4301 / TB102/85 (corrosion resistant bimetal)
24.2		Strainer	X5CrNi18-10, 1.4301
27		Cheese head screw	25CrMo4, 1.7218
46	x	Blow down valve, cpl.	X6CrNiTi18-10, 1.4541
49	x	Sealing ring	A4
50		Plug (M14x1,5)	X6CrNiTi18-10, 1.4541
51	x	Manual air vent valve	X6CrNiTi18-10, 1.4541
	└ 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.

Options

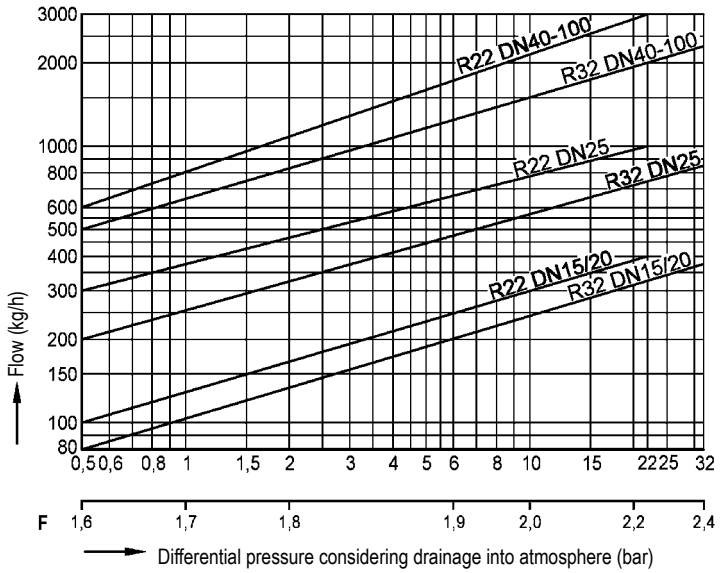


Air vent - (Pos. 51) or blow down valve (Pos. 46), manual operated

Capacity chart

Standard R22 and R32

DN15 - DN100



The capacity chart shows the maximum flow quantities of hot condensate for the different controllers and steam trap sizes

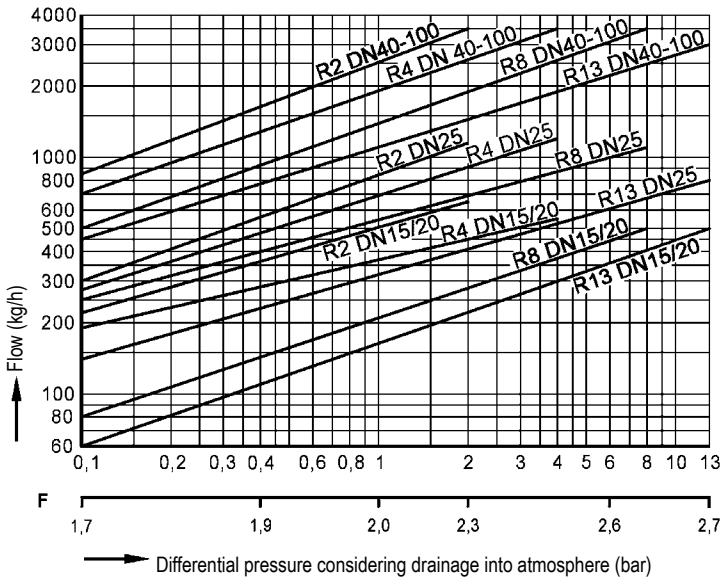
In commen, the steam traps are fitted out with an controller as shown in the flow diagrams of this page acc. to the differential pressures and flow rates.

For very large flow rates with low differential pressures, steam traps at sizes DN40 up to DN100 can be fitted out with a super-controller

The maximum flow quantity of cold condensate at about 20°C can be determined by multiplication of the appropriate factor F (in the scale below the diagrams) with the hot condensate quantity determined by the capacity chart. (Factor F is related to the differential pressure)

Standard R2 to R13

DN15 - DN100



The capacity chart shows the maximum flow quantities of hot condensate for the different controllers and steam trap sizes

In commen, the steam traps are fitted out with an controller as shown in the flow diagrams of this page acc. to the differential pressures and flow rates.

For very large flow rates with low differential pressures, steam traps at sizes DN40 up to DN100 can be fitted out with a super-controller

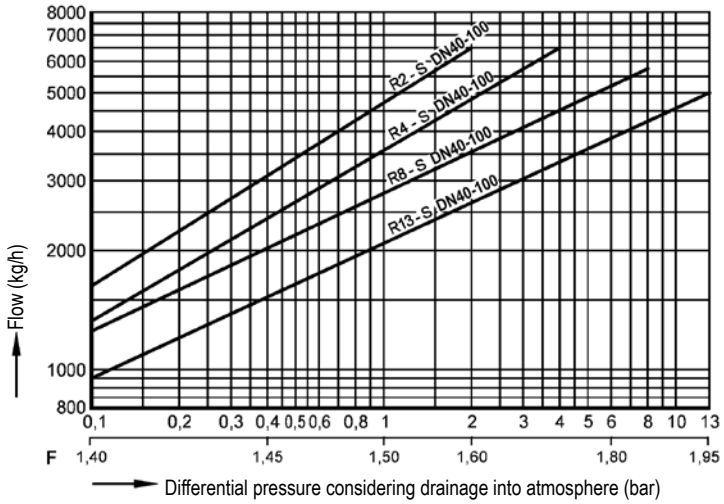
The maximum flow quantity of cold condensate at about 20°C can be determined by multiplication of the appropriate factor F (in the scale below the diagrams) with the hot condensate quantity determined by the capacity chart. (Factor F is related to the differential pressure)

Capacity chart

Special design: Super-controller for very large flow rates with low differential pressures

R2-S to R13-S

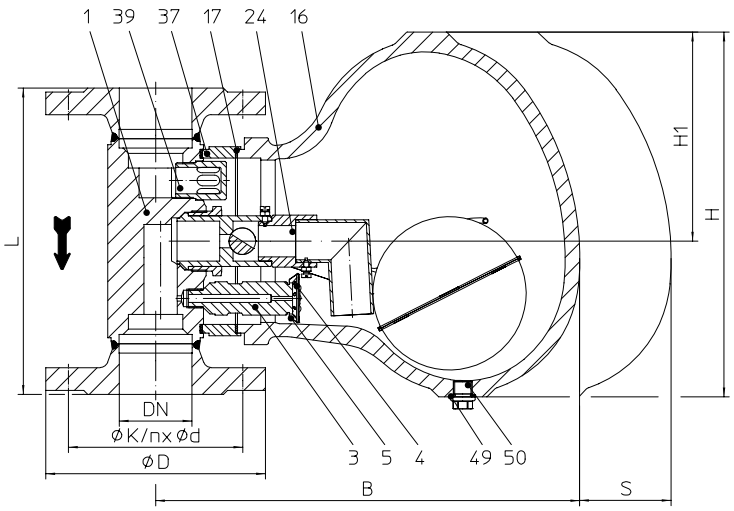
DN 40 - 100



The capacity chart shows the maximum flow quantities of hot condensate for the Super-controller versions.

The maximum flow quantity of cold condensate at about 20°C can be determined by multiplication of the appropriate factor F (in the scale below the diagrams) with the hot condensate quantity determined by the capacity chart. (Factor F is related to the differential pressure)

Ball float steam trap for low temperature application (cold toughened steel)



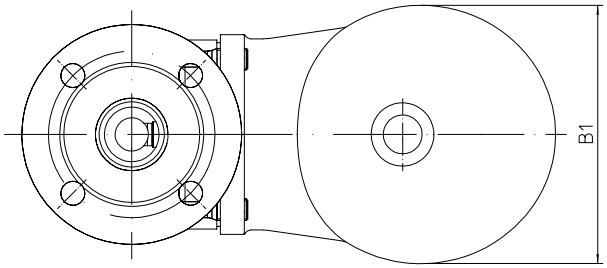


Fig. 633....1 with flanges - vertikale Mounting position

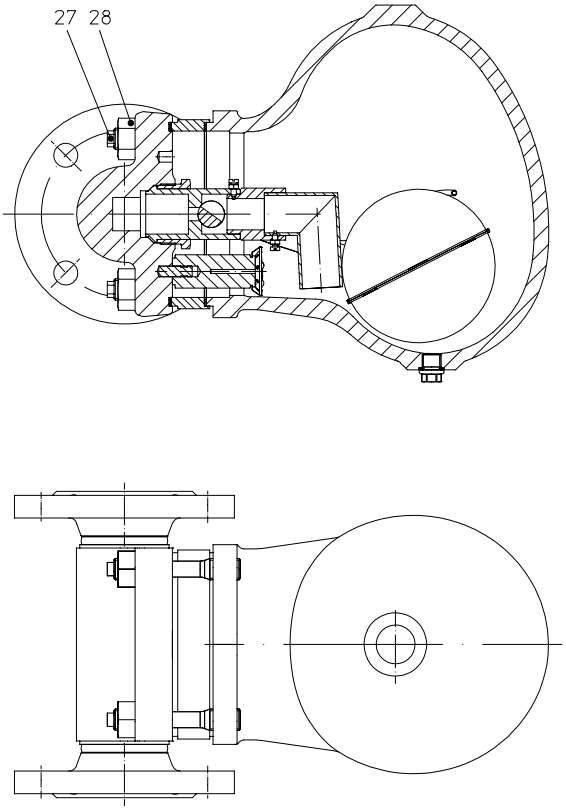


Fig. 633....1 with flanges - horizontal installation

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
82.633	PN16	Body: 1.0571 / Hood: 1.6220+QT	65/100 / 2 1/2" / 4"	0,1 - 4 barg	300 °C	4 bar	R4-P
85.633	PN40	Body: 1.0571 / Hood: 1.6220+QT	40 - 100 1 1/2"/4"	0,1 - 4 barg	300 °C	4 bar	R4-P
For ANSI versions refer to data sheet CONA®S-ANSI							

Design pressure PMA			
Figure		Temperature (°C)	
		-50[1] to 250	300
82.633	(barg)	16	14,9
85.633	(barg)	40	37,3

[1] Notch impact test below -50°C on request.

Types of connection	Other types of connection on request.
• Flanges ....1 _____ nach DIN EN 1092-1	
Features	
• Ball float steam trap with level control for the condensate-discharge from all kinds of steam systems • Rapid system start-up due to thermostatic control element • Immediate discharge of hot boiling condensat	• Body with flanged hood • The controller maybe changed without disturbing the pipe work
Mounting position	
• Standard: vertical	**Please indicate when ordering!**
• Optional: horizontal with inlet from right or left	Refer to: Information about the different installation positions (Page 15) **Installation position can not be changed later on.**
Options	
• Air vent - (Pos. 51) or blow down valve (Pos. 46), manual operated	

Types of connection		Flanges				
DN	(mm)	40	50	65	80	100
Face-to-face acc. to data sheet resp. customer request						
L	(mm)	230	230	290	310	350
Dimensions						Standard-flange dimensions refer to page 15.
H	(mm)	274	274	274	274	274
H1	(mm)	157	157	157	157	157
B	(mm)	319	319	319	319	319
B1	(mm)	194	194	194	194	194
S	(mm)	300	300	300	300	300
Weights						
Fig. 633 (approx.)	(kg)	29,6	30,2	32,6	34	37,6

Parts

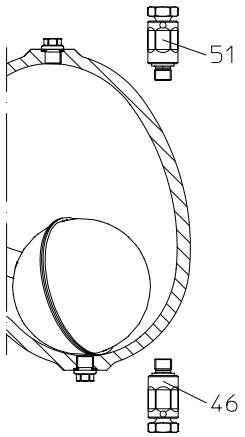
Pos.	Sp.p.	Description	Fig. 82. / 85.633
1		Body	P355QH1, 1.0571
3		Seat	X8CrNiS18-9, 1.4305
4	x	Capsule	Hastelloy / X5CrNi18-10, 1.4301
5	x	Spring actuated clip	X10CrNi18-8, 1.4310
16		Hood	G20Mn5+QT, 1.6220+QT
17	x	Gasket	Graphite (CrNi laminated with Graphite)
24	x	Controller, cpl.	X5CrNi18-10, 1.4301
27		Stud	25CrMo4, 1.7218
28		Hexagonal nut	25CrMo4, 1.7218
37		Intermediate flange	P355QH1, 1.0571
39		Baffle straightener	X8CrNiS18-9, 1.4305
46	x	Blow down valve, cpl.	X6CrNiTi18-10, 1.4541
49	x	Sealing ring	A4
50		Plug (M14x1,5)	X6CrNiTi18-10, 1.4541
51	x	Manual air vent valve	X6CrNiTi18-10, 1.4541
	└ 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).

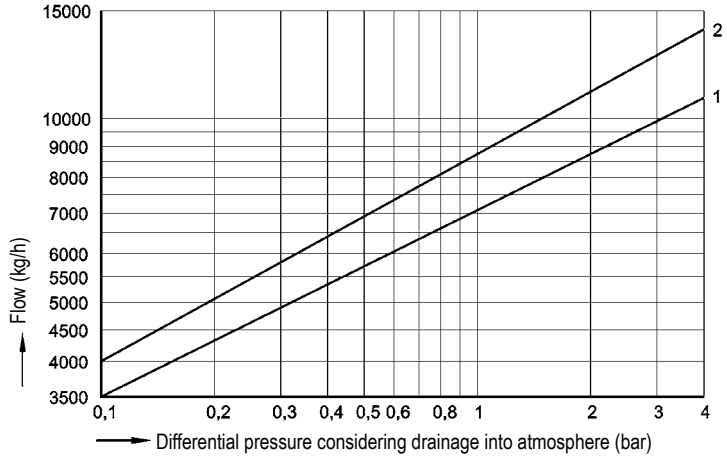
Operating and installation instructions can be downloaded at www.ari-armaturen.com.

Options



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

Capacity chart



The capacity chart shows the maximum flow rates.

Curve 1:
Maximum flow quantities of hot condensate.

Curve 2:
Maximum flow quantities of cold condensate of about 20°C (during system start-up).

Ball float steam trap for low temperature application (cold toughened steel)

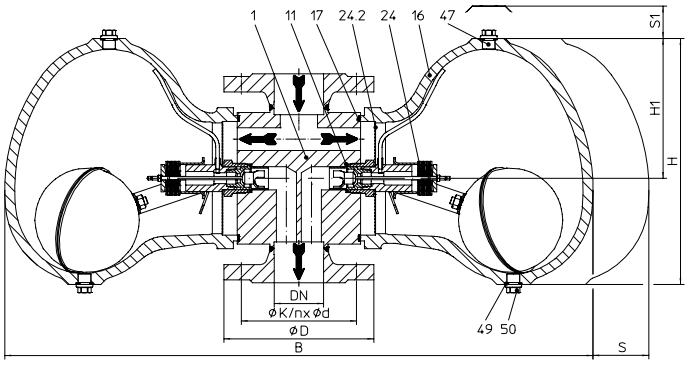


Fig. 639....1 with flanges - vertical installation

The controller R4-P deviates in his contruction from the shown controller on this side. Refer to Fig. 633 (page 6).

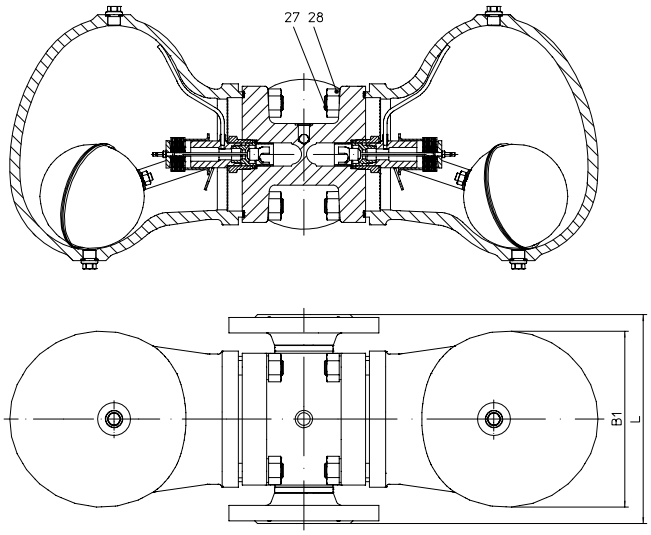


Fig. 639....1 with flanges - horizontal installation

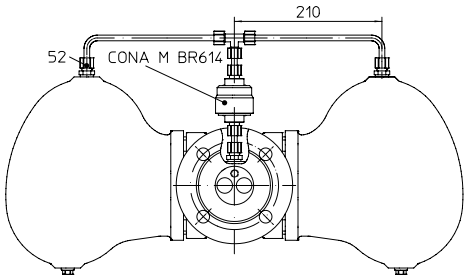


Fig. 639....1 with flanges - horizontal installation and external vent kpl.

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
82.639	PN16	Body: 1.0571 / Hood: 1.6220+QT	65/100 / 2 1/2" / 4"	13 barg	300 °C	2 bar 4 bar 8 bar 13 bar	R2-S R4-S / R4-P R8-S R13-S
85.639	PN40	Body: 1.0571 / Hood: 1.6220+QT	50 - 100 / 2" - 4"	32 barg	300 °C	2 bar 4 bar 8 bar 13 bar 22 bar 32 bar	R2-S R4-S / R4-P R8-S R13-S R22 R32
For ANSI versions refer to data sheet CONA®S-ANSI							

Design pressure PMA			
Figure		Temperature (°C)	
		-50[1] to 250	300
82.639	(barg)	16	14,9
85.639	(barg)	40	37,3

[1] Notch impact test below -50°C on request.

Types of connection		Other types of connection on request.
• Flanges ....1 _____ acc. to DIN EN 1092-1		
Features		
• Ball float steam trap with level control for the condensate-discharge from all kinds of steam systems for large condensate flowrates • Discharge of great condensate quantities even at low differential pressure • Rapid system start-up due to thermostatic control element		• Inside strainer • Body with flanged hood • Non return protection • The controller maybe changed without disturbing the pipe work
Mounting position		
• Standard:	vertical	**Please indicate when ordering!** On-site change of the installation position is possible according to the operating instructions; with an existing external vent there are modifies bypass parts needed due to the required installation position - please inquire.
• Optional:	horizontal	
Options		
• External vent cpl. for venting of high quantities of air during start-up and operation (standard with controller R2-S, R4-S and R4-P)		

Types of connection		Flanges			
DN	(mm)	50	65	80	100

Face-to-face acc. to data sheet resp. customer request					
L	(mm)	230	290	310	350

Dimensions					Standard-flange dimensions refer to page 15.
H	(mm)	271	271	271	271
H1	(mm)	154	154	154	154
B	(mm)	648	648	648	648
B1	(mm)	194	194	194	194
S	(mm)	300	300	300	300
S1	(mm)	200	200	200	200

Weights						
Fig. 639 PN16	(approx.)	(kg)	--	52,9	--	57,2
Fig. 639 PN40	(approx.)	(kg)	52,7	55	57,2	61,7

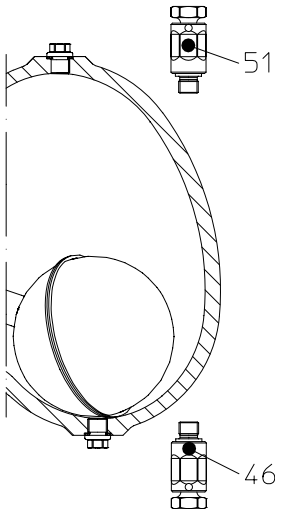
Parts			
Pos.	Sp.p.	Description	Fig. 82. / 85.639
1		Body	P355QH1, 1.0571
11	x	Sealing ring	A4
16		Hood	G20Mn5+QT, 1.6220+QT
17		Gasket	Graphite (CrNi laminated with graphite)
24	x	Controller, cpl.	X5CrNi18-10, 1.4301 / bimetallic TB102/85 (corrosion resistant bimetal)
24.2		Strainer	X5CrNi18-10, 1.4301
27		Stud	25CrMo4, 1.7218
28		Hexagonal nut	25CrMo4, 1.7218
46	x	Blow down valve, cpl.	X6CrNiTi18-10, 1.4541
47		Vent plug (M14x1,5)	X6CrNiTi18-10, 1.4541
49	x	Sealing ring	A4
50		Plug (M14x1,5)	X6CrNiTi18-10, 1.4541
51	x	Manual air vent valve	X6CrNiTi18-10, 1.4541
52	x	Union for recovery pipe	X8CrNiS18-9, 1.4305
	└ 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).

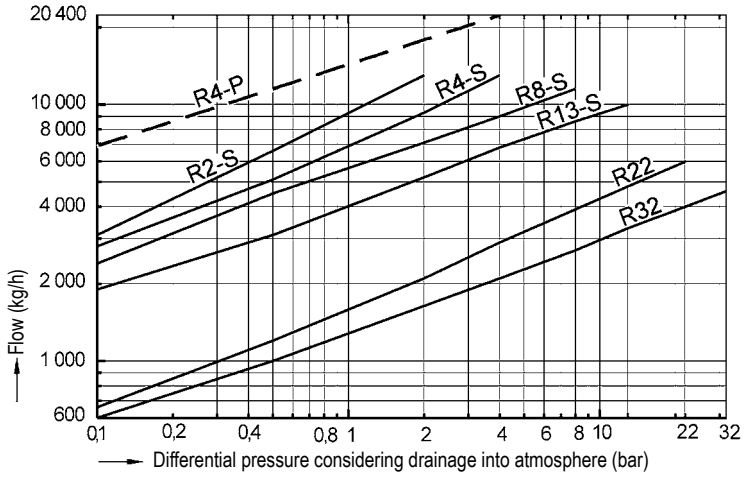
Operating and installation instructions can be downloaded at www.ari-armaturen.com.

Options (R8-S bis R32)



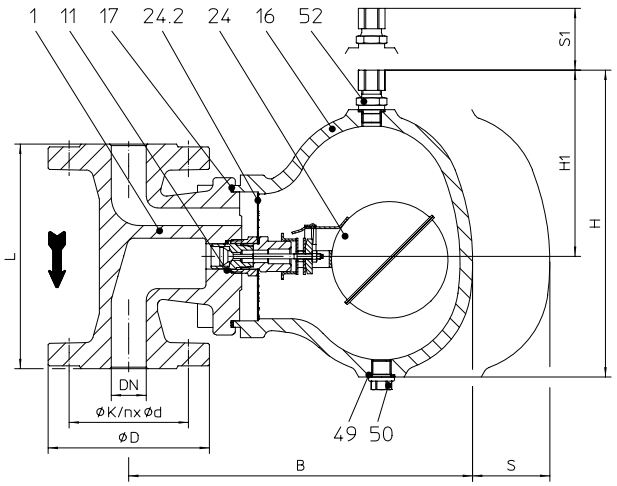
Air vent - (Pos. 51) or blow down valve (Pos. 46), manual operated

Capacity chart



The capacity chart shows the maximum flow quantities of hot condensate for the different controllers and steam trap sizes.

Ball float steam trap for low temperature application (cold toughened steel)



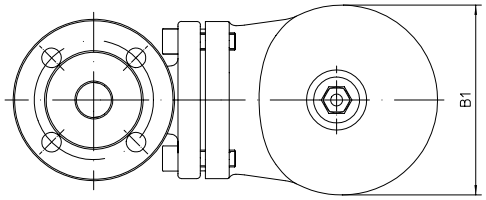
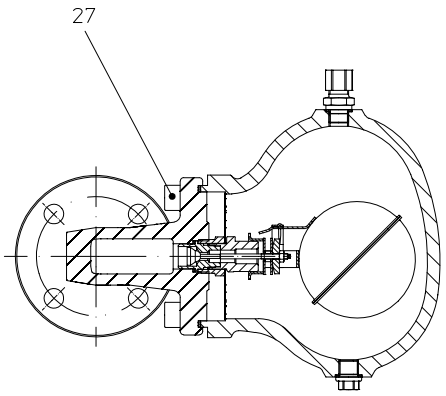


Fig. 630....1 with flanges - vertical installation



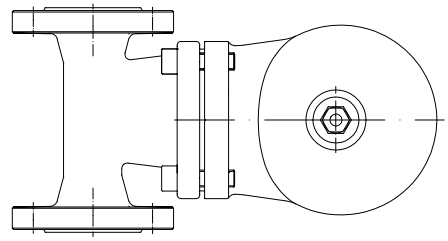


Fig. 630....1 with flanges - horizontal installation

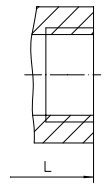


Fig. 630....2
with screwed sockets

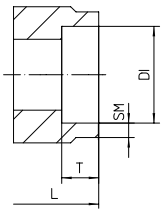


Fig. 630....3
with socket weld ends

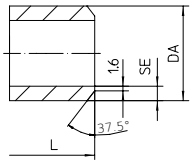


Fig. 630....4
with butt weld ends

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
85.630	PN40	Body: 1.0571 / Hood: 1.6220+QT	15 - 50 / 1/2" - 2"	2 barg	300 °C	2 bar	R2
				4 barg		4 bar	R4
				8 barg		8 bar	R8
				13 barg		13 bar	R13
				22 barg		22 bar	R22
				32 barg		32 bar	R32
For ANSI versions refer to data sheet CONA®S-ANSI							

Design pressure PMA			
Figure		Temperature (°C)	
		-50[1] to 250	300
85.630	(barg)	40	37,3

[1] Notch impact test below -50°C on request.

Types of connection	Other types of connection on request.
• Flanges 1	acc. to DIN EN 1092-1
• Screwed sockets 2	Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1
• Socket weld ends 3	acc. to DIN EN 12760
• Butt weld ends 4	Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5 (Note restriction on operating pressure / inlet temperature depending to design!)

Features	
• Ball float steam trap with level control for the condensate-discharge from compressed air and gas systems (acc. to PED 2014/68/EU fluid group 2, other fluid groups on request)	• Non return protection
• Inside strainer	• Union (Pos. 52) for recovery pipe (for connecting pipes with outside-Ø 8 x 1 mm acc. to EN 10305-4 steel or EN 10216-5 stainless steel, compression type fitting acc. to DIN 2353)
• Body with flanged hood	• The controller maybe changed without disturbing the pipe work

Mounting position		
• Standard:	vertical	**Please indicate when ordering!**
• Optional:	horizontal with inlet from right or left	Refer to: Information about the different installation positions (Page 15) On-site change of the installation position is possible according to the operating instructions.

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

Types of connection		Flanges					Screwed sockets Socket weld ends					Butt weld ends				
DN	(mm)	15	20	25	40	50	15	20	25	40	50	15	20	25	40	50
NPS	(inch)	1/2"	3/4"	1"	1 1/2"	2"	1/2"	3/4"	1"	1 1/2"	2"	1/2"	3/4"	1"	1 1/2"	2"
Face-to-face acc. to data sheet resp. customer request																
L	(mm)	150	150	160	230	230	150	150	160	210	210	160	160	160	250	250
Dimensions																Standard-flange dimensions refer to page 15.
H	(mm)	188	188	219	299	299	188	188	219	299	299	188	188	219	299	299
H1	(mm)	113	113	133	182	182	113	113	133	182	182	113	113	133	182	182
B	(mm)	217	217	249	292	292	170	170	197	292	292	170	170	197	292	292
B1	(mm)	114	114	135	194	194	114	114	135	194	194	114	114	135	194	194
S	(mm)	180	180	200	300	300	180	180	200	300	300	180	180	200	300	300
S1	(mm)	35	35	50	65	65	35	35	50	65	65	35	35	50	65	65
Weights																
Fig. 630 (approx.)	(kg)	8,1	8,3	12,1	29,4	30	7,5	7,5	9,7	24,7	25,2	7,1	8,1	10,2	25,7	26,7

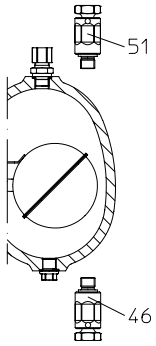
Parts			
Pos.	**Sp.p.**	**Description**	**Fig. 85.630**
1		Body	P355QH1, 1.0571
11	x	Sealing ring	A4
16		Hood	G20Mn5+QT, 1.6220+QT
17	x	Gasket	Graphite (CrNi laminated with graphite)
24	x	Controller, cpl.	X5CrNi18-10, 1.4301
24.2		Strainer	X5CrNi18-10, 1.4301
27		Cheese head screw	25CrMo4, 1.7218
46	x	Blow down valve, cpl.	X6CrNiTi18-10, 1.4541
49	x	Sealing ring	A4
50		Plug (M14x1,5)	X6CrNiTi18-10, 1.4541
51	x	Manual air vent valve	X6CrNiTi18-10, 1.4541
52	x	Union for recovery pipe	X8CrNiS18-9, 1.4305
	└ 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.

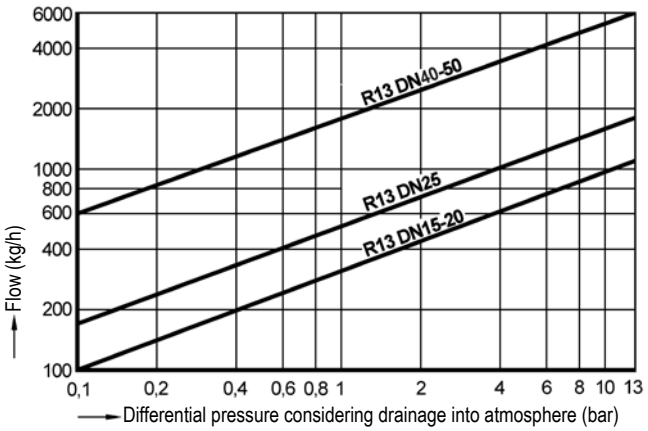
Options



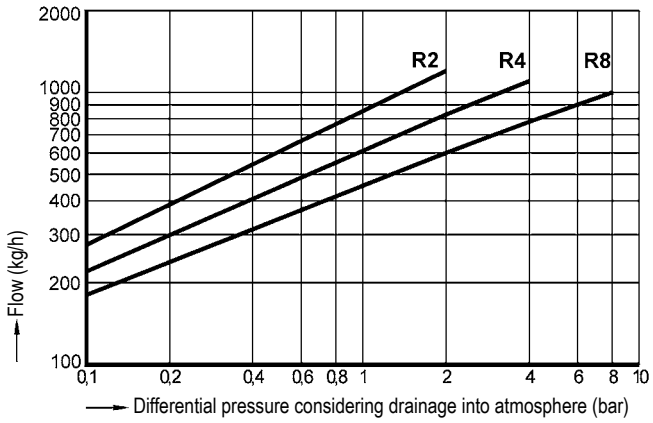
Air vent - (Pos. 51) or blow down valve (Pos. 46), manual operated

Capacity chart

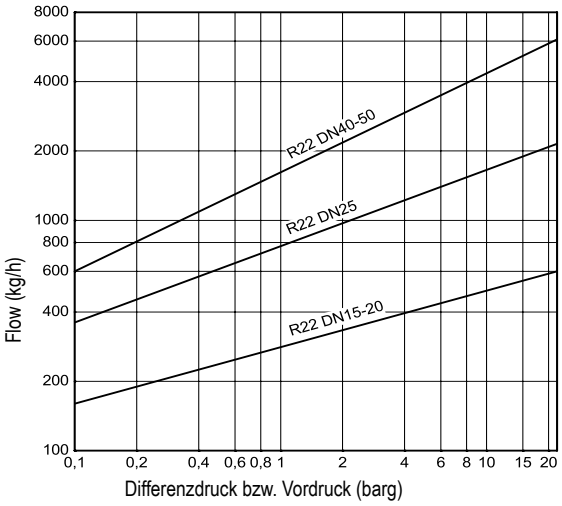
PN40 - Standard R13
DN15 - DN50



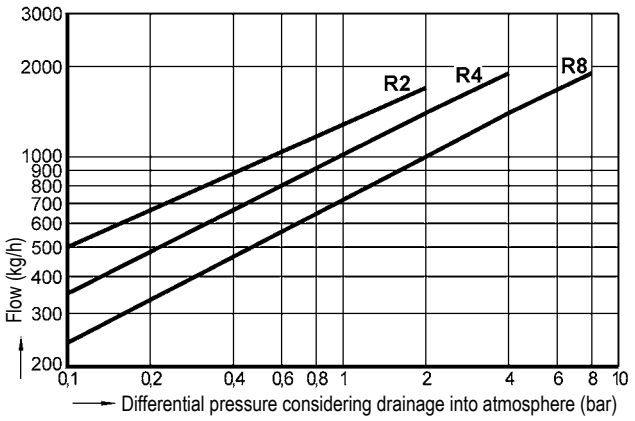
PN40 - Special execut. R2, R4, R8
DN 15 - DN 20



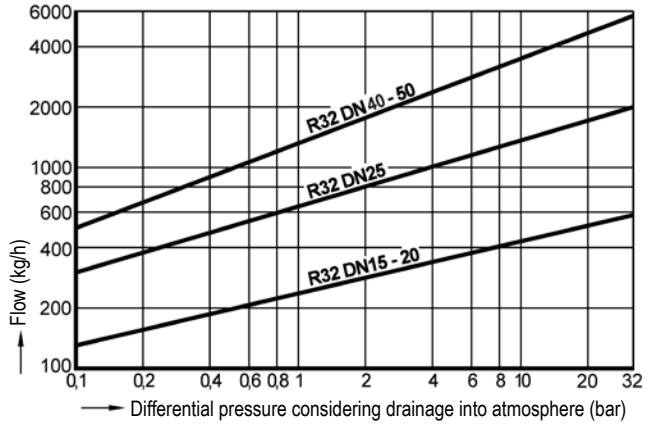
PN40 - Standard R22
DN15 - DN50



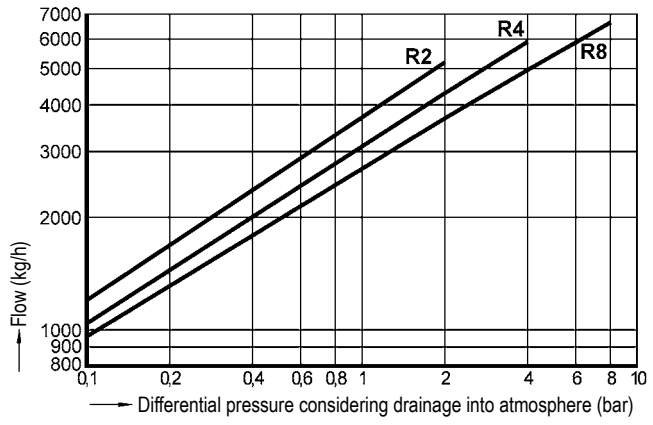
PN40 - Special execut. R2, R4, R8
DN 25



PN40 - Standard R32
DN15 - DN50



PN40 - Special execut. R2, R4, R8
DN 40 - DN 50



To determine the drainage quantity of cold water at about 20°C from compressed air and gas systems.

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.

myValve - VAlve SIzing-Program

Contents:

Module ARI-Steam trap CONA-Calcuation

- Sizing (calculation of steam trap systems with given flow capacity or heat capacity)
- Calculation of nominal diameter acc. to given pressure, condensate quantity, condensate sub-cooling and speed

Media:

- Steam (saturated and superheated)
- Compressed air

Special Features

- Project administration of the calculation and product data incl. spare part drawings concerning to project and tag number
- Direct output or 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 products are integrated in one databank
- Direct access concerning to the product on data sheets, operating instructions, pressure-temperature-diagram and spare part drawings
- 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.

Informations about pipe welding

Welding groove acc. to DIN 2559

The material used for ARI valves with butt weld ends are:	1.0571	P355QH1 acc. to DIN EN 10222-4

Note:
Note restriction on operating pressure / inlet temperature depending to design!

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

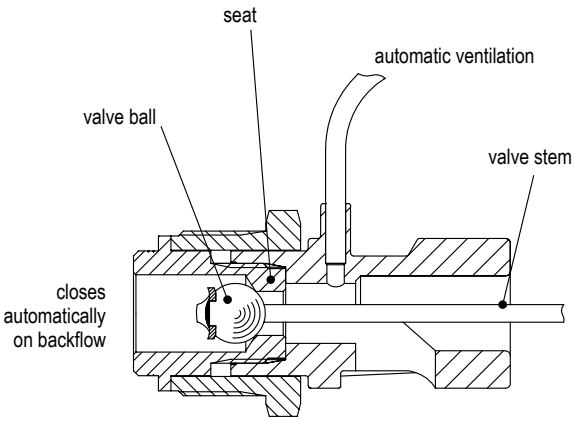
Because of the different material compositions and wall thickness of the steam traps and the pipe gas welding shall not be applied. Quenching cracks and coarse grain structure may develop.

On bimetallic steam traps face-to-face of 95 mm or less, the bimetallic controller has to be disassembled prior to welding. After the traps have cooled down to the ambient temperature the bimetallic controller shall be fitted again into the body.

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

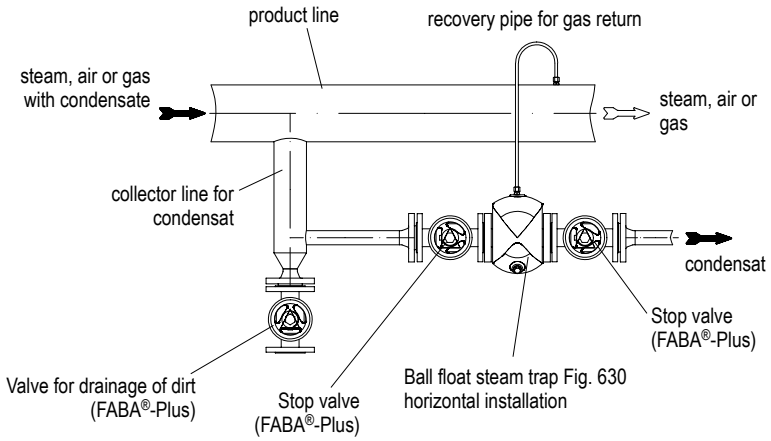


The integrated non return protection acts as a check valve (except BR633 and BR639 R4-P).

In case of parallel installed heat exchangers or heater batteries the non return protection prevents a shut down heat-exchanger fror flooding with condensate from the downstream side and reverse heating up.

A check valve which otherwise has to be installed is not necessary.

Installation with recovery pipe



Important:
The installation of a recovery pipe for gas return is always recommended; especially if the ball float steam trap is installed horizontally.

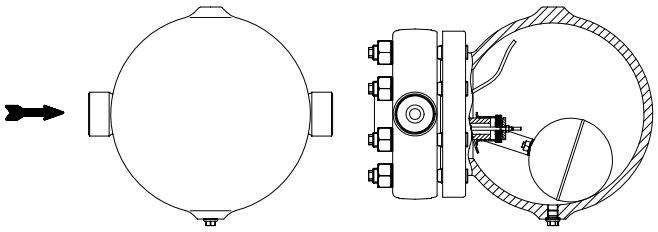
Selection criteria:		Example for order data:
• Steam pressure	• Nominal diameter / pressure	**Ball float steam trap CONA® S,** **BR 630, PN40, DN50, 1.0571/1.6220+QT, Regler R22, with flanges , Face-to-face 230 mm**
• Back pressure	• Type of connection	
• Quantity of condensate	• Material	
• Flow medium	• Place of service or kind of steam consumer	

Other installation positions than standard (vertical) have to be indicated together with the information about the flow direction i.e. inlet from left or right

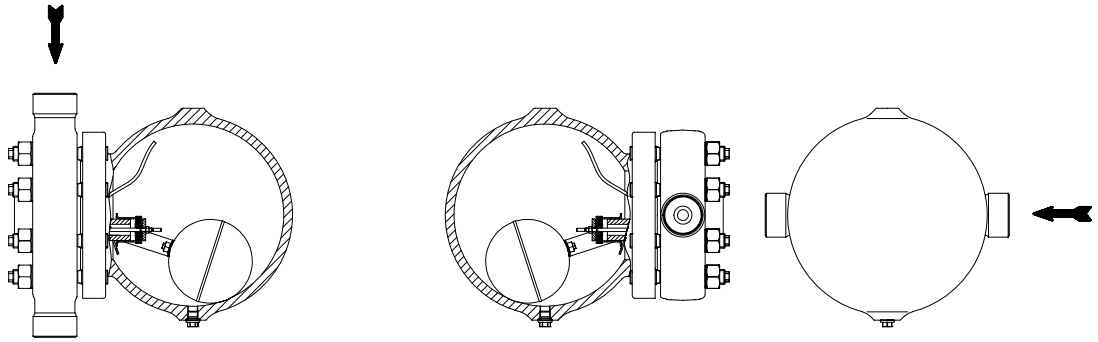
Standard-flange dimensions acc. to DIN EN 1092-1											
DN		(mm)	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**
NPS		(inch)	**1/2"**	**3/4"**	**1"**	**1 1/4"**	**1 1/2"**	**2"**	**2 1/2"**	**3"**	**4"**
PN16	ØD	(mm)	--	--	--	--	--	--	185	--	220
	ØK	(mm)	--	--	--	--	--	--	145	--	180
	n x Ød	(mm)	--	--	--	--	--	--	8 x 18[1)]	--	8 x 18
PN40	ØD	(mm)	95	105	115	140	150	165	185	200	235
	ØK	(mm)	65	75	85	100	110	125	145	160	190
	n x Ød	(mm)	4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x 22

[1)] Steel flanges with 4 holes subject to agreement

Information about the different installation positions (shown at Fig. 631)



Horizontal installation - inlet from the left side (ZL)



Vertical installation (standard)

Horizontal installation – inlet from the right side (ZR)

Installation (see picture)

The ball float steam traps can be installed either in vertical (standard) or horizontal position. In case of horizontal installation please indicate whether the inlet is from the left or right side.

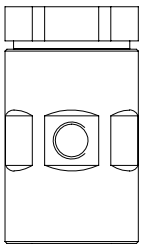
The steam trap can also be converted on site to match the different installation positions. Please observe the appropriate operating manuals (except BR633).

The steam trap must be fitted with the direction of flow as indicated by the arrow on the body.
Enough clearance (refer to dimension S) for the removal of the hood shall be provided.
The steam trap shall preferably be installed at the lowest point of the system and the membrane capsule resp. the bleeding tube shall be installed in an upright position inside of the hood.

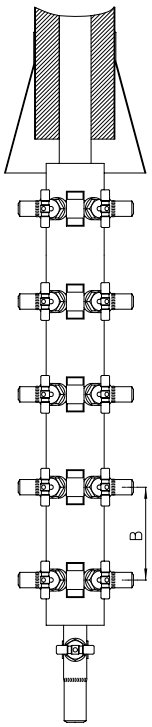
For the modification of the installation position observe the operating manual.

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.

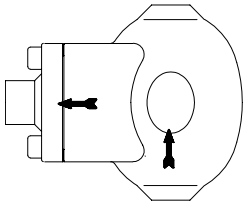
Multifunction tester
Sonaphone



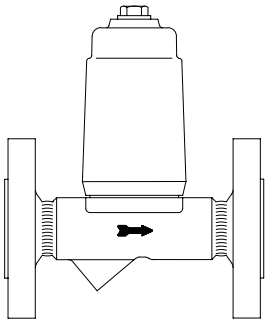
Vacuum breaker
Fig. 655



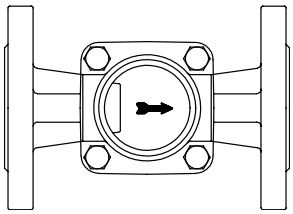
Condensate collection (B = 160), steam distribution (B = 120)
CODI ®S with gland packing Fig. 671/672;
CODI ®B with bellows seal, maintenance-free Fig. 675/676



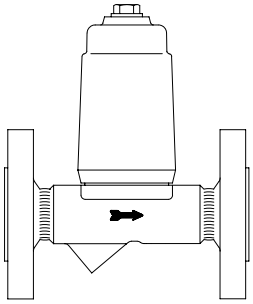
Automatic air vent for liquid systems
Fig. 656



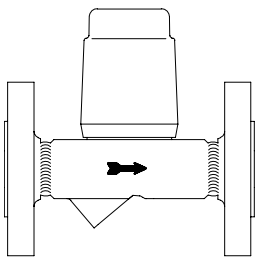
Condensate discharge temperature limiter
Fig. 645/647



Flow indicator
Fig. 660/661



Return temperature limiter
Fig. 650



Liquid drainer
Fig. 665

(Further informations about the accessories can be found in the appropriate data sheets.)

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