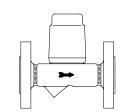


Liquid drainer PN16 / PN40

with flanges (Fig. 665....1)
with screwed sockets (Fig. 665....2)
with socket weld ends (Fig. 665....3)
with butt weld ends (Fig. 665....4)
union with butt weld ends (Fig. 665....5)



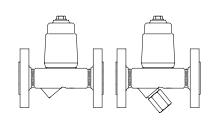
Grey cast iron Forged steel Fig. 665

Page 2



Condensate discharge temperature limiter PN40

with flanges (Fig. 645/647....1)
 with screwed sockets (Fig. 645/647....2)
 with socket weld ends (Fig. 645/647....3)
 with butt weld ends (Fig. 645/647....4)



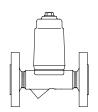
Forged steel Fig. 645/647 (Y)

Page 4



Return temperature limiter PN40

with flanges (Fig. 650....1)
with screwed sockets (Fig. 650....2)
with socket weld ends (Fig. 650....3)
with butt weld ends (Fig. 650....4)



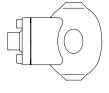
Forged steel Fig. 650

Page 6



Automatic air vent for liquid systems PN16 / PN25 / PN40

with flanges (Fig. 656....1)
with screwed sockets (Fig. 656....2)
with socket weld ends (Fig. 656....3)
with butt weld ends (Fig. 656....4)



Grey cast iron SG iron

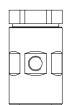
Stainless steel Fig. 656

Page 10



Vacuum breaker PN16 / PN40

- with screwed sockets (Fig. 655....2)



Stainless steel

Fig. 655 Page 12



Fig. 655....2



A member of the ARI group



Liquid drainer (Grey cast iron, Forged steel)

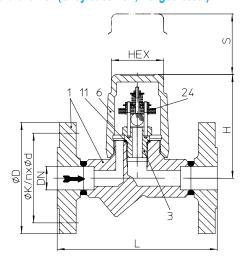


Fig. 665....1 with flanges

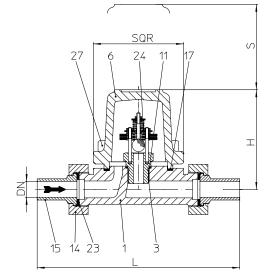


Fig. 665.... Union with butt weld ends (only PN16)

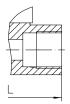


Fig. 665....2 with screwed sockets

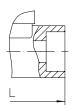


Fig. 665....3 with socket weld ends



Fig. 665....4 with butt weld ends

Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	Allow. differential pressure Δ PMX
DNI16	EN 11 1040	15 - 25 /	12,8 barg	200 °C	
12.665 PN16	EIN-JL 1040	1/2" - 1"	9,6 barg	300 °C	1,5 bar
		45 05 /	32 barg	250 °C	(Closing pressure,
PN40	1.0460		22 barg	385 °C	Factory setting)
		1/2 - 1	14,5 barg	450 °C	
	PN16	PN16 EN-JL1040	PN16 EN-JL1040 15 - 25 / 1/2" - 1"	PN16 EN-JL1040 15 - 25 / 1/2" - 1" 12,8 barg PN40 1.0460 15 - 25 / 1/2" - 1" 32 barg 22 barg 22 barg	PN16 EN-JL1040 15 - 25 / 1/2" - 1" 12,8 barg 200 °C PN40 1.0460 15 - 25 / 1/2" - 1" 9,6 barg 300 °C 32 barg 250 °C 22 barg 385 °C

1.4541 on request.

For ANSI versions refer to data sheet CONA®Components-ANSI

Types of connection	Other types of connection on request.
• Flanges1acc. to DIN EN 1092-2 (PN16) / DIN EN 1092-1 (PN40)	
Screwed sockets2Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1	
Socket weld ends3acc. to DIN EN 12760	
Butt weld ends4Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5 (Note restriction on operating pressure / inlet temperature depending to design!)	
Union with butt weld ends5acc. to data sheet resp. customer request	

Features

- · Automatic condensate-discharge during start-up and shut down
- On unpressurized system the liquid drainer will be opened by a compression spring inside of the controller
- On factory setting the liquid drainer will be closed at a differential pressure of ≥1,5 bar. Other factory settings between 0,5 bar and 2 bar possible.
- Bimetallic elements will achieve that the closing pressure is constant
- Installation in any position (if a frost resistant execution is required please inquire)

Selection criteria		Example for order data
Closing pressure	Material	For the condensate discharge from a steam pipe, ΔP=3 bar, max. flow 700 kg/h,
Nominal diameter / pressure	Place of service	flange connection, PN16, DN25
Type of connection		=> Liquid drainer, Fig. 665, PN16, DN25, EN-JL1040, Face-to-face dimension 160 mm,
1,7,60 0. 00		with flanges



	PN16			PN40								
Types of connection	Flanges		Union with butt weld ends		Flanges		Screwed sockets Socket weld ends			Butt weld ends		
DN	25	15	20	15	20	25	15	20	25	15	20	25
NPS	1"	1/2"	3/4"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"

Fa	ace-to-face acc.	to data sh	ieet resp. ci	ustomer requ	est									
L		(mm)	160	190	190	150	150	160	95	95	95	250	250	250

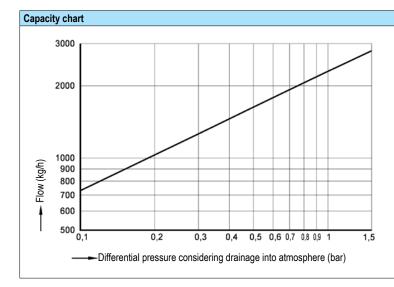
Dimensions	Dimensions Standard-flange dimensions refer to page												to page 14.
Н	(mm)	100	100	100	98	98	98	98	98	103	98	98	98
S	(mm)	70	70	70	70	70	70	70	70	70	70	70	70
HEX	(mm)	50	50	50	50	50	50	50	50	50	50	50	50
SQR	(mm)	85	85	85	85	85	85	85	85	85	85	85	85

Weights												
Fig. 665 (approx.) (kg)	4,5	2,6	2,3	5,4	2,6	2,3	2,2	2,3	2,4	2,9	2,8	2,6

Parts				
Pos.	Sp.p.	Description	Fig. 12.665	Fig. 45.665
1		Body	EN-GJL-250, EN-JL1040	P250GH, 1.0460
6		Cover	EN-GJL-250, EN-JL1040	
6		Сар		P250GH, 1.0460
11	х	Sealing ring	CU	A4
14		Union nut	11SMn30+C, 1.0715+C	
15		Welding end	C15, 1.0401	
17	х	Gasket	Pure graphite (CrNi laminated with graphite)	
23	х	Sealing ring	Novapress MULTI	
24	Х	Controller, cpl.	TB 102 / 85 (corrosion resistant bimetal)	
27		Cheese head screw	A2-70	
	L Spar	e parts		

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

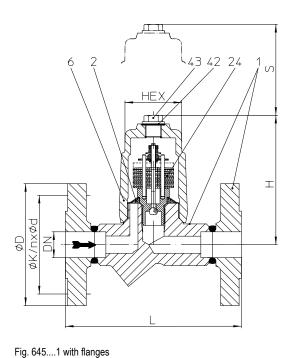
 $Operating \ and \ installation \ instructions \ can \ be \ downloaded \ at \ www.ari-armaturen.com.$

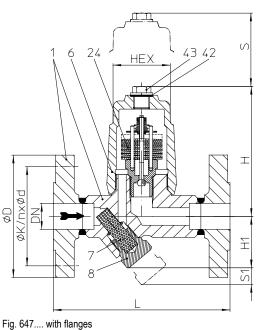


The capacity chart shows the maximum flow quantities of cold condensate at about 20°C.



Condensate discharge temperature limiter (Forged steel)





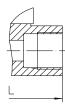


Fig. 645/647....2 with screwed sockets

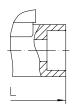


Fig. 645/647....3 with socket weld ends



Fig. 645/647....4 with butt weld ends

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
45.045				32 barg	250 °C		
45.645 45.647 (Y)	PN40	1.0460	15 - 25 / 1/2" - 1"	22 barg	385 °C	32 bar	R32
				14,5 barg	450 °C		

For ANSI versions refer to data sheet CONA®Components-ANSI

Types of connection	Other types of connection on request.
• Flanges1acc. to DIN EN 1092-1 (PN40)	
Screwed sockets2Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1	
Socket weld ends3acc. to DIN EN 12760	
Butt weld ends4Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5 (Note restriction on operating pressure / inlet temperature depending to design!)	

Features

- Steam trap for the discharge of condensate without re-evaporation at adjustable condensate temperatures (temperature range from 60°C) up to 140°C).
- With corrosion- and waterhammer resistant bimetallic controller
- · Automatic air-venting during start-up and operation of the installation
- · Installation in any position, except cap upside down
- Integrated non return protection
- With inside strainer Fig. 645 / with outside strainer Fig. 647 (Y)
- Subcooling of condensate is continuously adjustable (observe the operation instructions)
- The exchange of the controller is possible without disturbing the pipe connections
- For the utilization in warm water and hot water plants

Options (Design refer to page 5)

- with blow down valve, cpl. (Pos. 46)
- with thermometer insert (Pos. 47 and 48) (only with inside strainer)

• with thermometer insert (Pos. 47	and 46) (only with inside strainer)	
Selection criteria		Example for order data
Inlet pressure	 Type of connection 	For the condensate discharge from a steam pipe, Operating pressure P1 = 4 bar(g), max. Flow
Back pressure	 Material 	50 kg/h, Opening temperature 80°C, with flanges, PN40, DN25
Quantity of condensate	 Options 	=> Condensate discharge temperature limiter, Fig. 647, PN40, DN25, 1.0460,
Nominal diameter / pressure		Face-to-face dimension 160 mm, with flanges, with thermometer.



Screwed sockets Butt weld ends	Dimensions				Ту	pes of connect	ion				
			Flanges					Butt weld ends			
NPS 1/2" 3/4" 1" 1/2" 3/4" 1" 1/2" 3/4" 1" 1/2" 3/4" 1"	DN	15	20	25	15	20	25	15	20	25	
	NPS	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	

Face-to-face acc. to data sheet resp. customer request										
L	(mm)	150	150	160	95	95	95	250	250	250

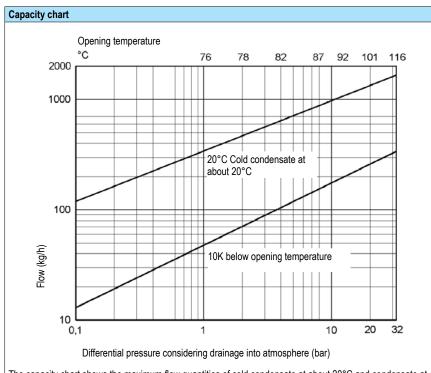
Dimensions	Dimensions Standard-flange dimensions refer to page 14.									
Н	(mm)	112	112	112	112	112	121	112	112	112
H1	(mm)	65	65	65	65	65	58	65	65	65
S	(mm)	80	80	80	80	80	80	80	80	80
S1	(mm)	30	30	30	30	30	30	30	30	30
HEX	(mm)	50	50	50	50	50	50	50	50	50

Weights										
Fig. 645/647 (approx.)	(kg)	3,6	4,3	5,6	2	2,4	2,4	2,2	2	2

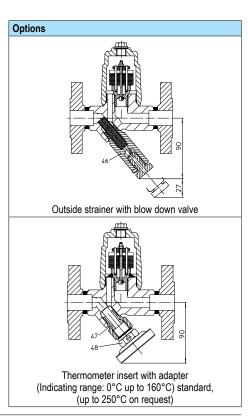
Parts				
Pos.	Sp.p.	Description	Fig. 45.645	Fig. 45.647
1		Body	P250 GH, 1.0460	
2	х	Strainer	X5CrNi18-10, 1.4301	
6		Сар	P250 GH, 1.0460	
7	х	Strainer		X5CrNi18-10, 1.4301
8	х	Strainer plug		X6CrNiTi18-10, 1.4541
24	х	Controller, cpl.	TB 102 / 85 (corrosion resistant bin	netal)
42	х	Sealing ring	A4	
43	х	Screw plug	C35E, 1.1181	
46	х	Blow down valve, cpl.	X6CrNiTi18-10, 1.4541	
47	х	Thermometer adapter	X6CrNiTi18-10, 1.4541	
48	х	Thermometer	X8CrNiS18-9, 1.4305	
	L Spa	re parts	·	

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.

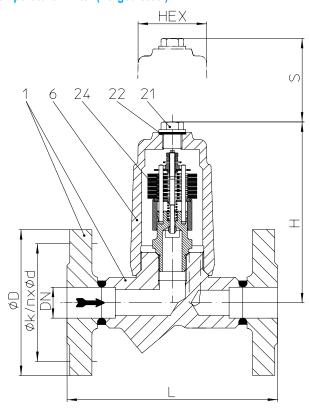


The capacity chart shows the maximum flow quantities of cold condensate at about 20°C and condensate at 10K below the opening temperature based on the factory setting.





Return temperature limiter (Forged steel)





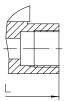


Fig. 650....2 with screwed sockets

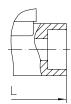


Fig. 650....3 with socket weld ends



Fig. 650....4 with butt weld ends

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	Allow. differential pressure ∆PMX	for controller
45.650	PN40	1.0460	15 - 25 / 1/2" - 1"	22 barg	180 °C	6 bar	R22
For ANSI versions refer to data sheet CONA®Components-ANSI							

Types of connection	Other types of connection on request.
• Flanges1acc. to DIN EN 1092-1 (PN40)	
Screwed sockets2Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1	
Socket weld ends3acc. to DIN EN 12760	
Butt weld ends4Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5 (Note restriction on operating pressure / inlet temperature depending to design!)	

Features

- Liquid return temperature limiter is applied for the return of hot water or other suitable liquids in heating systems.
 Temperature guided but operating from the pressure, it is providing a consumption oriented supply of hot water to heating systems.
 Energy saving by using reduced flow return temperatures.
- With corrosion- and waterhammer resistant bimetallic controller
- The controller has a stroke-limitation at 130 °C thus even in case of an incorrect setting the function is performed
- Scope range of closing temperature from: 60° to 130 °C
- The exchange of the controller is possible without disturbing the pipe connections
- Optimized design for quick installation
- Maintenance simplified due to screwed cap without sealing
- Installation: horizontal installation position is preferred, inclined installation position of the screwed cap is possible

Options		(Design refer to page 7)
with thermometer insert (Pos. 47 and 48)		
• with external adjustment device (pos. 44) and extended setting range, with	factory setting at 180°C	
Selection criteria	Example for order data	

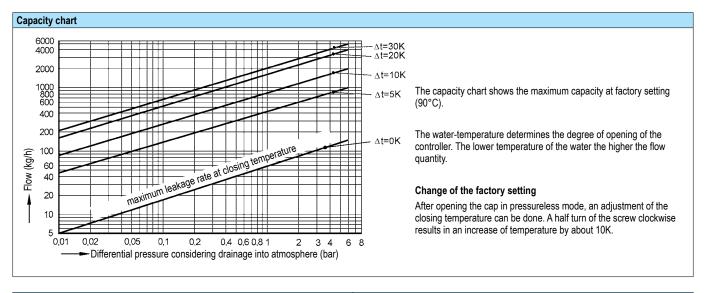
Selection criteria		Example for order data
Closing pressure	 Required closing temperature 	
Operating pressure	Nominal diameter / pressure	Return temperature limitation for a pipe tracing system. Inlet pressure 4 bar (g), closing
Back pressure/Differential pressure	Type of connection	temperature 90 °C, flange connection, PN40, DN15, 1.0460, face-to-face dimension 150 mm. =>Liquid return temperature limiter, Fig. 650, PN40, DN15, 1.0460,
Flow quantity	Material	face-to-face dimension 150 mm, T=90°C, flange connection
Upstream temperature		

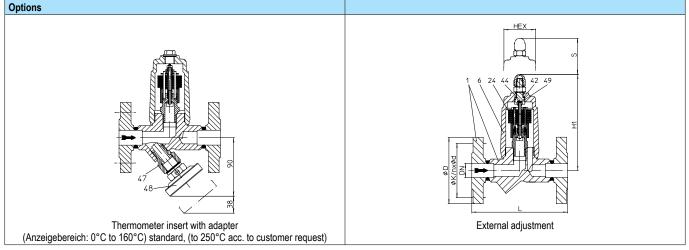


Types of connection		Flanges			Screwed sockets Socket weld ends			Butt weld ends		
DN		15	20	25	15	20	25	15	20	25
NPS		1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
Face-to-face	acc. to data she	et resp. custon	ner request							
L	(mm)	150	150	160	95	95	95	250	250	250
Dimensions					Standard	-flange dimension	ons refer to page	e 14 / Larger nor	ninal diameters	refer to page 8
Н	(mm)	130	130	130	130	130	135	130	130	130
H1	(mm)	152	152	152	152	152	152	152	152	152
S	(mm)	90	90	90	90	90	90	90	90	90
HEX	(mm)	50	50	50	50	50	50	50	50	50
Weights										
Fig 650 (ar	oprox) (kg)	3.4	4	4 4	21	2	2.5	2.6	2.7	2.8

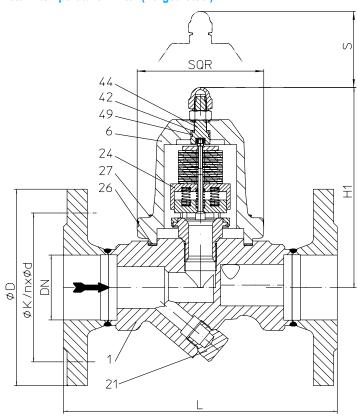
Parts	arts							
Pos.	Sp.p.	Description	Fig. 45.650					
1		Body	P250 GH, 1.0460					
6		Сар	P250 GH, 1.0460					
21	х	Screw plug	C35E, 1.1181					
22	х	Sealing ring	A4					
24	х	Controller, cpl.	TB 102 / 85 (corrosion resistant bimetal)					
44		Cylinder screw HSE (Manual adjustment device)	X8CrNiS18-9, 1.4305					
47	х	Thermometer adapter	X6CrNiTi18-10, 1.4541					
48	х	Thermometer	X6CrMoTi17-12-2, 1.4571					
	L Spare parts							

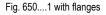
Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list).





Return temperature limiter (Forged steel)





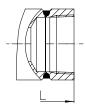


Fig. 650....2 with screwed sockets

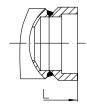


Fig. 650....3 with socket weld ends

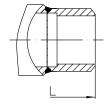


Fig. 650....4 with butt weld ends

Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS	Allow. differential pressure ∆PMX
45.650	PN40	1.0460	40 - 50 / 1 1/2" - 2"	22 barg	180 °C	6 bar

For ANSI versions refer to data sheet CONA®Components-ANSI

Types of connection	Other types of connection on request.
• Flanges1acc. to DIN EN 1092-1 (PN40)	
• Screwed sockets2Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1	
Socket weld ends3acc. to DIN EN 12760	
Butt weld ends4Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5	
(Note restriction on operating pressure / inlet temperature depending to design!)	

Features

- Liquid return temperature limiter is applied for the return of hot water or other suitable liquids in heating systems.
 Temperature guided but operating from the pressure, it is providing a consumption oriented supply of hot water to heating systems.
 Energy saving by using reduced flow return temperatures.
- With corrosion- and waterhammer resistant bimetallic controller
- Scope range of closing temperature from up to 180 $^{\circ}\text{C}$
- With external adjustment device (pos. 44) and extended setting range
- With factory setting 90°C
- The exchange of the controller is possible without disturbing the pipe connections

Options (Design refer to page 9)
• with thermometer insert (Pos. 47 and 48)

Selection criteria		Example for order data
Closing pressure	Required closing temperature	Return temperature limitation for a pipe tracing system Inlet pressure 4bar(ü), closing
Operating pressure	Nominal diameter / pressure	temperature 90°C, flange connection, PN40, DN40, 1.0460,
Back pressure/Differential pressure	 Type of connection 	Face-to-face dimension 230mm.
Flow quantity	Material	=> Return temperature limiter, Fig. 650, PN40, DN40, 1.0460,
Upstream temperature		face-to-face dimension 230mm, T=90°C, flange connection

Butt weld ends



Types of connection

DN		40	50	40	50	40	50	
NPS		1 1/2"	2"	1 1/2"	2"	1 1/2"	2"	
Face-to-fa	Face-to-face acc. to data sheet resp. customer request							
L	(mm)	230	230	130 / 160 ¹⁾	210	250	250	
Dimension	Dimensions Standard-flange dimensions refer to page 14 / Smaller nominal diameters refer to page 6							
H1	(mm)	168	168	168	168	168	168	
S	(mm)	100	100	100	100	100	100	
SQR	(mm)	110	110	110	110	110	110	
Weights								
Fig. 650	(approx.) (kg)	11,3	12,1	8	8	8,9	9,8	

Screwed sockets 1)

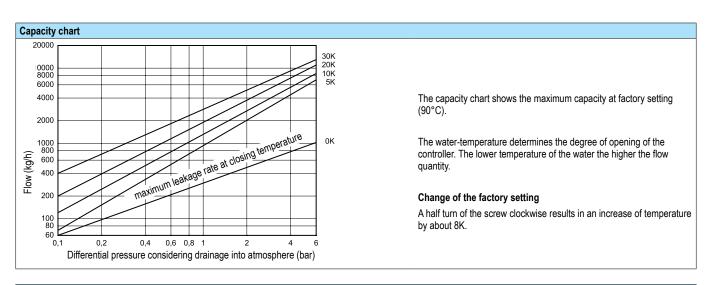
Socket weld ends

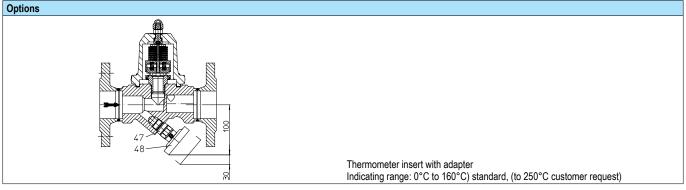
Parts			
Pos.	Sp.p.	Description	Fig. 45.650
1		Body	P250 GH, 1.0460
6		Cover	P250 GH, 1.0460
21		Screw plug	X6CrNiTi18-10, 1.4541
24	Х	Controller, cpl.	TB 102 / 85 (corrosion resistant bimetal)
26	Х	Gasket	Graphite
27		Cheese head screw	21CrMoV 5-7, 1.7709
42	Х	Sealing ring	Cu
44		Cylinder screw HSE (Manual adjustment device)	X8CrNiS18-9, 1.4305
47	Х	Thermometer adapter	X6CrNiTi18-10, 1.4541
48	Х	Thermometer	X6CrMoTi17-12-2, 1.4571
49	х	O-ring	FPM 80
	L Spar	re 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).

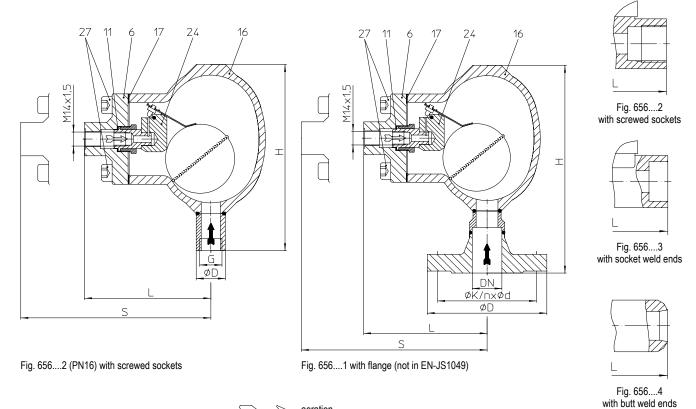
Flanges







Automatic air vent for liquid systems (SG iron, Cast steel, Stainless steel)



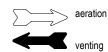


Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
22.656	PN16	EN-JS1049	15 - 25 / 1/2" - 1"	14 barg	300 °C	14 bar	R14
34.656	PN25	1.0619+N	15 - 25 / 1/2" - 1"	21 barg	225 °C	21 bar	R21
35.656	PN40	1.0619+N	15 - 25 / 1/2" - 1"	21 barg	400 °C	21 bar	R21
54.656	PN25	1.4308	15 - 25 / 1/2" - 1"	21 barg	300 °C	21 bar	R21
55.656	PN40	1.4308	15 - 25 / 1/2" - 1"	21 barg	300 °C	21 bar	R21

Types of coni	nection	Other types of connection on request
Inlet:	• Flanges1	acc. to DIN EN 1092-1 (PN25/40)
	Screwed sockets2	Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1
	Socket weld ends3	acc. to DIN EN 12760
	Butt weld ends4	Weld preparation acc. to EN ISO 9692 identification No. 1.3 and 1.5 (Note restriction on operating pressure / inlet temperature depending to design!)
Outlet:	• M14 x 1,5 DIN 13	
Features		

- · Automatic air vents for liquid systems
- · Hood with flanged cover
- The exchange of the controller is possible without disturbing the pipe connections
- Installation: above the point being vented, inlet always at the bottom

(Design refer to page 11)

• Drip pipe (Pos. 54) with Union M14x1,5 for Pipe-ø 8 mm (Pos. 53)

PPP-(/	7 1 ()	
Selection criteria		Example for order data
Operating pressure	Nominal diameter / pressure	Automatic air vents for liquid systems, PS = 21 barg, TS = 400°C, flange connection, PN25,
Back pressure/Differential pressure	Type of connection	DN25, Hood Cast steel / Cover Forged steel
Operating temperature	Material	=> Automatic air vent for liquid systems, Fig. 656, PN25, DN25, 1.0460/1.0619,
Flow quantity		Face-to-face dimension 119 mm, R21, flange connection



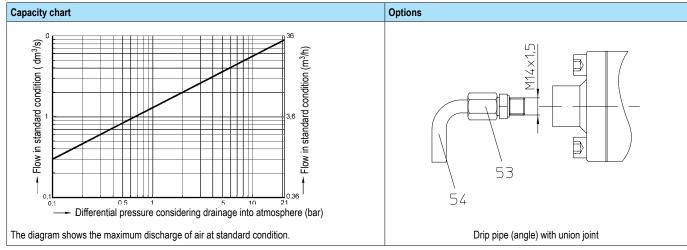
Types of connection	Flanges 1)				Socket weld ends 1)			Butt weld ends 1)		
DN	15	15 20 25			20	25	15	20	25	
NPS	PS 1/2" 3/4" 1"		1/2"	3/4"	1"	1/2"	3/4"	1"		
1) not in EN-JS1049	in EN-JS1049							2) Screwed s	ockets: L = 140	
Face-to-face acc. to data s	heet resp. custor	ner request								
I (mm)	119	119	119	119	119	119	119	119	119	

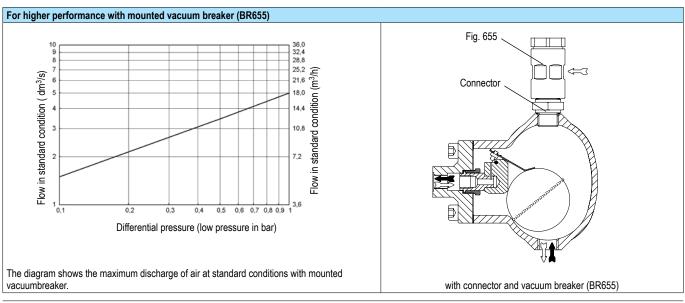
Dimensi	ons							Standard-flang	ge dimensions re	efer to page 14.
Н	(mm)	196	197	200	140 ²⁾ / 175	175	186	175	175	186
S	(mm)	238	238	238	238	238	238	238	238	238

Weights									
Fig. 656 (approx.) (kg)	4,8	5,3	5,6	4,3	4,4	4,4	4,3	4,4	4,4

Parts							
Pos.	Sp.p.	Description	Fig. 22.656	Fig. 34.656	Fig. 35.656	Fig. 54.656	Fig. 55.656
6		Cover	P250GH, 1.0460		·	X6CrNiTi18-10, 1	.4541
11	х	Sealing ring	A4			A4	
16		Hood	EN-JS1049, EN-GJS-400- 18U-LT	GP240GH+N, 1.0	0619+N	GX5CrNi19-10, 1	4308
17	х	Gasket	Pure graphite CrN	i laminated with graph	nite		
24	х	Controller, cpl.	X5CrNi18-10, 1.43	301			
27		Cheese head screw	A2-70		21CrMoV 5-7, 1.7709	A2-70	
53	х	Union for drip pipe	X6CrNiMoTi17-12	-2, 1.4571			
54	х	Drip pipe	X5CrNi18-10, 1.43	301			
	L Spar	re parts					

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







Vacuum breaker (Stainless steel)

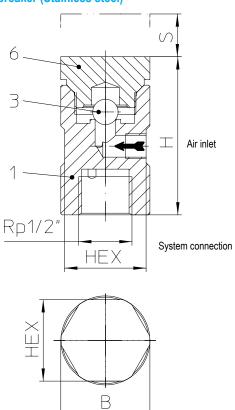


Fig. 655....2 with screwed sockets

Figure	Nominal pressure	Material	NPS	Operating pressure PS	Inlet temperature TS	Set pressure	Kvs-value	
52.655	PN16	1.4301	Rp 1/2	13 barg	400 °C	7 mbar	0,55 m3/h	
55.655	DNAO	1.4301	D= 1/2	13 barg	400 °C	7 mhor	0 EE m2/h	
33.033	PN40	1.4301	Rp 1/2	21 barg	220 °C	7 mbar	0,55 m3/h	

For ANSI versions refer to data sheet CONA®Components-ANSI

Types of connection	Other types of connection on request
System connection2Rp 1/2 (DIN EN10226-1) / NPT 1/2 (ANSI B1.20.1)	A dropping line can be connected.
• Air inletRp 1/8 (DIN EN10226-1) / NPT 1/8 (ANSI B1.20.1)	The line has to be led to an outlet.

Features

- Ventilation valve for pipelines, condensing vapour (steam) or liquid systems, where the system pressure should not fall below the atmospheric pressure.
- Vertical position, cap on top.
- System connection downwards.

- System connection downwards.				
Selection criteria		Example for order data		
Operating pressure	 Nominal diameter / pressure 	Vacuum breaker, System connection Rp. PN 40, NPS 1/2".		
Operating temperature	 Type of connection 	=> Vacuum breaker, Fig. 655, PN 40, DN 1/2", System connection Rp.		
Flow quantity	Material	-> Vacuum breaker, Frg. 055, FN 40, DN 1/2 ; System connection Kp.		

System connection (Rp / NPT)



Types of connection

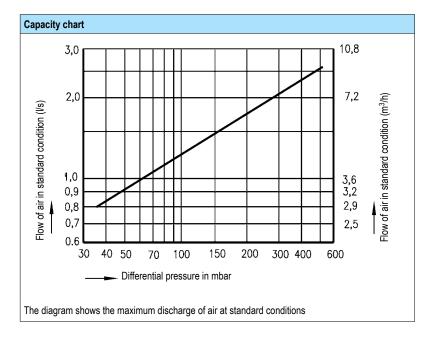
NPS		1/2"		
Dimensions				
Н	(mm)	62		
В	(mm)	35		
S	(mm)	10		
HEX	(mm)	32		

Weights		
Fig. 655 (approx.)	(kg)	0,38

Parts	Parts					
Pos.	Sp.p.	. Description Fig. 52.655 / 55.655				
1	nit)	Body	X5CrNi18-10, 1.4301			
3	× =	Valve ball	X5CrNiMo17-12-2, 1.4401			
6	(cpl.	Сар	X17CrNi16-2, 1.4057			
	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).





Informations about pipe welding / Standard-flange dimensions

Informations about pipe welding

Welding groove acc. to DIN 2559

The material used for ARI valves with butt weld ends are: 1.0619+N GP240GH+N acc. to DIN EN 10213-2
1.0460 P250GH acc. to DIN EN 10222-2

Note: 1.0401 C15 acc. to DIN 10277-2

Note restriction on operating pressure / inlet temperature depending to 1.4408 GX5CrNiMo19-11-2 acc. to DIN EN 10213-4

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!

Standard-flange dimensions acc. to DIN EN 1092-2/ -1								
DN		15	20	25	32	40	50	
NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
PN16	ØD	(mm)	95	105	115	140	150	165
	ØK	(mm)	65	75	85	100	110	125
	n x Ød	(mm)	4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18
PN25	ØD	(mm)	95	105	115	140	150	165
	ØK	(mm)	65	75	85	100	110	125
	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18
PN40	ØD	(mm)	95	105	115	140	150	165
	ØK	(mm)	65	75	85	100	110	125
	n x Ød	(mm)	4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18







