



Liquid drainer (Grey cast iron, Forged steel)

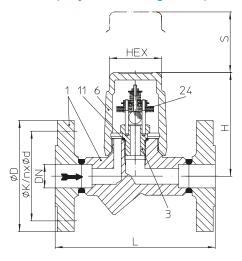


Fig. 665....1 with flanges

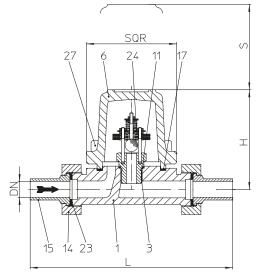




Fig. 665....2 with screwed sockets

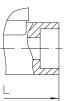


Fig. 665....3 with socket weld ends



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

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

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	Allow. differential pressure		
12.665	PN16	EN-JL1040	15 - 25 /	12,8 barg	200 °C			
12.000	PINIO	EIN-JL1040	1/2" - 1"	9,6 barg	300 °C	1,5 bar		
	PN40	1.0460	45 05 /	32 barg	250 °C	(Closing pressure,		
45.665			15 - 25 / 1/2" - 1"	22 barg	385 °C	Factory setting)		
			172 - 1	14,5 barg	450 °C			
1.4541 on request.								
For ANSI versions refe	er to data shee	et CONA®Compon	ents-ANSI					
Types of connection	l				Oth	ner types of connection on request		
 Flanges1 		acc. to DIN 263	3 or DIN EN 1092-2 (I	PN16) / DIN 2635 or DIN EN 109	2-1 (PN40)			
· Screwed sockets	.2	Rp thread acc.	to DIN EN 10226-1 or	NPT thread acc. to ANSI B1.20.1	l			
· Socket weld ends	3	acc. to DIN EN	12760					
• Butt weld ends4				2 identification No. 1.3 and 1.5 e / inlet temperature depending to	o design!)			
• Union with butt weld	d ends5	acc. to data she	cc. to data sheet resp. customer request					
Features								
Automatic condensation	ate-discharge (during start-up and	shut down					
	Ū	0 1		on spring inside of the controller				
	,		, ,	1 0	a batwaan 0 E bar and 2 bar n	aasihla		
				of ≥1,5 bar. Other factory setting	s between 0,5 bar and 2 bar p	ossible.		
Bimetallic elements		01						
 Installation in any po 	osition (if a fro	st resistant executi	on is required please i	nquire)				
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			e	flange connection, PN16, DN25				
Type of connection				=> Liquid drainer, Fig. 665, PN16, DN25, EN-JL1040, Face-to-face dimension 160 mm, with flanges				

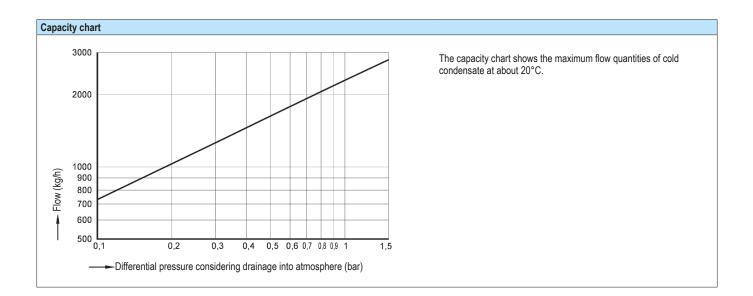
			PN16		PN40								
Types of connect	ion	Flanges Union with butt weld ends			Flanges			rewed sock cket weld e		Butt weld ends			
DN		25	15	20	15	20	25	15	20	25	15	20	25
NPS		1"	1/2"	3/4"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
Face-to-face acc. to data sheet resp. customer request													
L	(mm)	160	190	190	150	150	160	95	95	95	250	250	250
Dimensions						-				Standard-	flange dime	nsions refer	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		

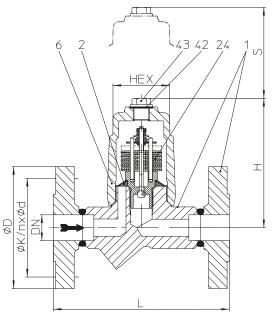
Information / restriction of technical rules need to be observed!

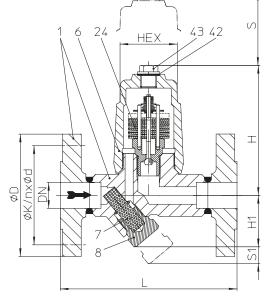
Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list).

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



Condensate discharge temperature limiter (Forged steel)





ΠT

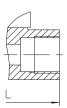


Fig. 645/647....2 with screwed sockets

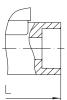


Fig. 645/647....3 with socket weld ends



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

Fig. 645....1 with flanges

Fig. 647 with flanges

Figure	Nominal pressure	Material	Nominal diam. / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller
				32 barg	250 °C		
45.645	PN40	1.0460	15 - 25 / 1/2" - 1"	22 barg	385 °C	32 bar	R32
45.647 (Y)			1/2 - 1	14,5 barg	450 °C		
For ANSI version	s refer to data shee	et CONA®Componer	nts-ANSI				
Types of connec	tion					Other types of o	connection on requ
 Flanges1 		acc. to DIN 2635	or DIN EN 1092-1 (PN40)			
 Screwed socker 	ts2	Rp thread acc. to	DIN EN 10226-1 or	NPT thread acc. to ANS	I B1.20.1		
 Socket weld en 	ds3	acc. to DIN EN 1	2760				
Butt weld ends	4			2 identification No. 1.3 and the second seco			
Features			<u> </u>	<u></u>			
 Steam trap for t 	he discharge of co	ondensate without re	evaporation at adju-	stable condensate tempe	ratures (temperature ra	nge from 60°C up to 140°C	;).
With corrosion-	and waterhammer	r resistant bimetallic	controller				
• Automatic air-ve	enting during start-	up and operation of	the installation				
Installation in a	ny position, except	cap upside down					
 Integrated non 	return protection						
With inside stra	iner - Fig. 645 / wit	th outside strainer - I	Fig. 647 (Y)				
 Subcooling of c 	ondensate is conti	nuously adjustable (observe the operatio	on instructions)			
The exchange of	of the controller is	possible without dist	urbing the pipe conn	ections			
 For the utilization 	on in warm water a	nd hot water plants					
Options])	Design refer to pag
with blow down	valve, cpl. (Pos. 4	6)					
 with thermomet 	er insert (Pos. 47 a	and 48) (only with ins	side strainer)				
Selection criteria	a			Example for order data	a		
Inlet pressure		Type of conne	ction	For the condensate disc	charge from a steam pin	e, Operating pressure P1 =	4 bar(a) max Fl
Deal and a					indige ineni a otoani pip		

- Type of connection For the condensate discharge from a steam pipe, Operating pressure P1 = 4 bar(g), max. Flow Material 50 kg/h, Opening temperature 80°C, with flanges, PN40, DN25 => Condensate discharge temperature limiter, Fig. 647, PN40, DN25, 1.0460, Face-to-face dimension 160 mm, with flanges, with thermometer. · Quantity of condensate • Options
- · Nominal diameter / pressure

· Back pressure

CONA[®] 645 / 647

PN40 - DN15-25

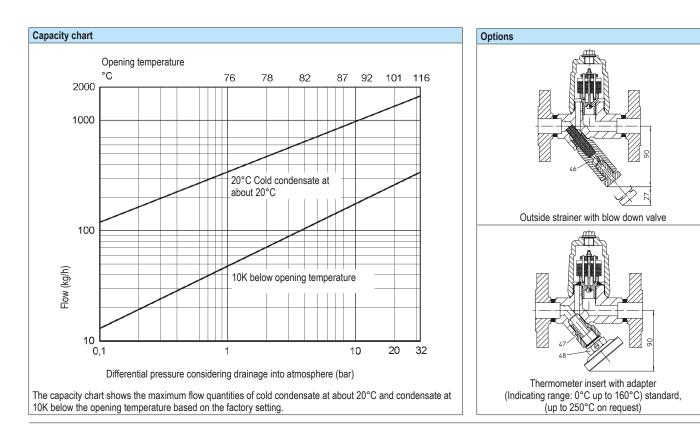
Dimensions and weights					Ту	pes of connect	ion			
		Flanges				Screwed sockets Socket weld ends			Butt weld ends	
DN		15	20	25	15	20	25	15	20	25
NPS		1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
Face-to-face acc. to data sheet resp. customer request										
L	(mm)	150	150	160	95	95	95	250	250	250
Dimensions	Dimensions Standard-flange dimensions refer to page 1								efer 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	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	
,	х	Strainer		X5CrNi18-10, 1.4301
3	х	Strainer plug		X6CrNiTi18-10, 1.4541
24	x	Controller, cpl.	TB 102 / 85 (corrosion resistant bi	metal)
12	х	Sealing ring	A4	
3	х	Screw plug	C35E, 1.1181	
6		Blow down valve, cpl.	X6CrNiTi18-10, 1.4541	
17	x	Thermometer adapter	X6CrNiTi18-10, 1.4541	
8	х	Thermometer	X8CrNiS18-9, 1.4305	
	L Spar	re parts		

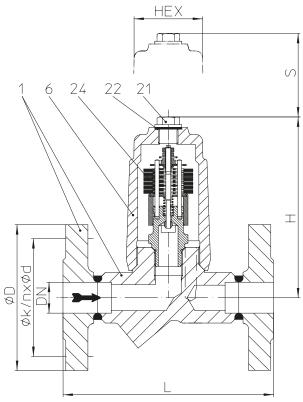
Information / restriction of technical rules need to be observed!

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

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



Return temperature limiter (Forged steel)



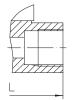


Fig. 650....2 with screwed sockets

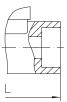


Fig. 650....3 with socket weld ends



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

Fig. 650....1 with flanges

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 re	efer to data sheet	CONA [®] Componer	nts-ANSI			I			
Types of connectio	n					Other types of	f connection on reque		
 Flanges1 		_acc. to DIN 2635	or 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 ends4	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!)								
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- an 									
The controller has	a stroke-limitatior	n at 130 °C thus e	ven in case of an inc	orrect setting the function	n is performed				
 Scope range of clo 	sing temperature	from: 60° to 130 °	°C						
 The exchange of the exchange of t	he controller is po	ssible without dist	urbing the pipe conn	ections					
 Optimized design f 	for quick installation	on							
Maintenance simp	lified due to screw	ved cap without se	aling						
 Installation: horizo 	ntal installation po	osition is preferred	, inclined installation	position of the screwed of	ap is possible				
Options							(Design refer to page		
 with thermometer i 	insert (Pos. 47 an	d 48)							
 with external adjust 	tment device (pos	s. 44) and extende	d setting range, with	factory setting at 180°C					
Selection criteria				Example for order data	a				
Closing pressure		 Required clos 	ing temperature						
Operating pressure	e	 Nominal diam 	eter / pressure	Return temperature limitation for a pipe tracing system. Inlet pressure 4 bar (g), closing temperature 90 °C, flange connection, PN40, DN15, 1.0460, face-to-face dimension 150					
 Back pressure/Diff 	erential pressure	Type of conne	ection		ge connection, PN40, DI rature limiter, Fig. 650,		aimension 150 mm.		
 Flow quantity 		 Material 			ion 150 mm, T=90°C, fl				
 I Instream tempera 									

Upstream temperature

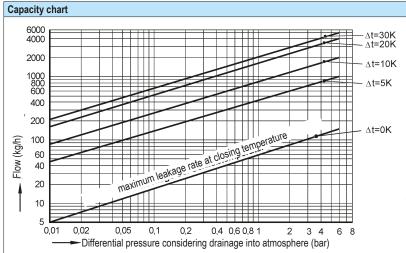
Types of connection Flanges					Screwed sockets Socket weld ends			Butt weld ends		
DN		15	20	25	15	20	25	15	20	25
NPS		1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
Face-to-face acc. to data sheet resp. customer request										
L	(mm)	150	150	160	95	95	95	250	250	250
Dimensions	Dimensions Standard-flange dimensions refer to page 14 / Larger nominal diameters refer to page 8									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 (ap	prox.) (kg)	3,4	4	4,4	2,1	2	2,5	2,6	2,7	2,8

Parts	rts							
Pos.	Sp.p.	Description	Fig. 45.650					
1		Body	P250 GH, 1.0460					
6		Сар	P250 GH, 1.0460					
21		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 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.

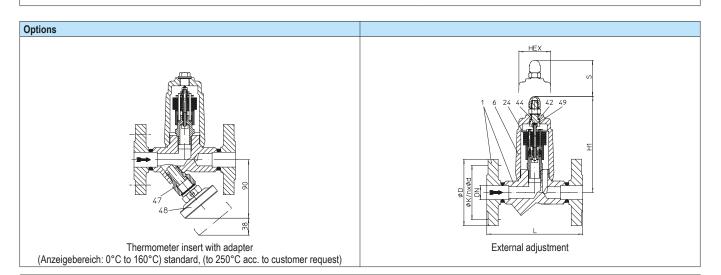


The capacity chart shows the maximum capacity at factory setting (90°C).

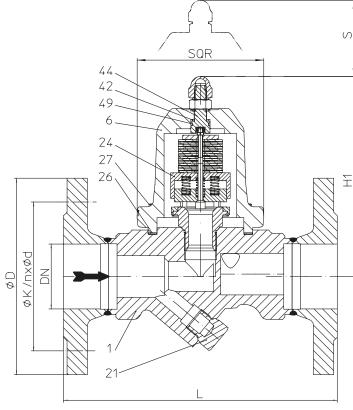
The water-temperature determines the degree of opening of the controller. The lower temperature of the water the higher the flow quantity.

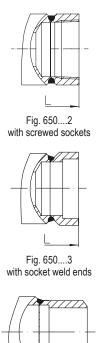
Change of the factory setting

After opening the cap in pressureless mode, an adjustment of the closing temperature can be done. A half turn of the screw clockwise results in an increase of temperature by about 10K.



Return temperature limiter (Forged steel)





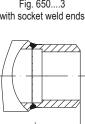


Fig. 650....4 with butt weld ends

Fig. 650....1 with flanges

Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS	Allow. differential pressure				
45.650	PN40	1.0460	40 - 50 / 1 1/2" - 2"	22 barg	180 °C	6 bar				
For ANSI version	s refer to data sheet	CONA [®] Compon	ents-ANSI							
Types of connect	ction			· · · · · · · · · · · · · · · · · · ·	Oth	er types of connection on request.				
Flanges1acc. to DIN 2634 or DIN EN 1092-1 (PN25) / DIN 2635 or DIN EN 1092-1 (PN40)										
Screwed sockets2 Rp thread acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1										
	ıds3	_acc. to DIN EN	12760							
Butt weld ends	4			2 identification No. 1.3 and 1.5 re / inlet temperature depending t	o design!)					
Features										
Energy saving • With corrosion- • Scope range of • With external a • With factory set • The exchange	by using reduced flow and waterhammer re f closing temperature djustment device (po tting 90°C	v return tempera essistant bimetalli from up to 180 ° s. 44) and exten ssible without dis	tures. c controller C	umption oriented supply of hot wa	ater to neating systems.					
Options	gir for quick motaliate					(Design refer to page 9				
with thermomet	ter insert (Pos. 47 an	d 48)								
Selection criteri	а			Example for order data						
 Closing pressure Operating pressure Back pressure 		•	sing temperature meter / pressure nection	Return temperature limitation for a pipe tracing system Inlet pressure 4bar(ü), closing temperature 90°C, flange connection, PN40, DN15, 1.0460, Face-to-face dimension 230mm.						
Flow quantity • Material • Dystream temperature										

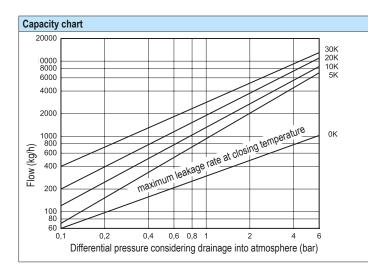
Types of connection		Flanges			sockets ¹⁾ veld ends	Butt weld ends			
DN		40	50	40	50	40	50		
NPS		1 1/2"	2"	1 1/2"	2"	1 1/2"	2"		
Face-to-face acc. to data sheet resp. customer request									
L	(mm)	230	230	130 / 160 ¹⁾	210	250	250		
Dimensions				Standard-flange di	imensions refer to page	14 / Smaller nominal dia	meters 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		

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
22		Sealing ring	A4
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	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.

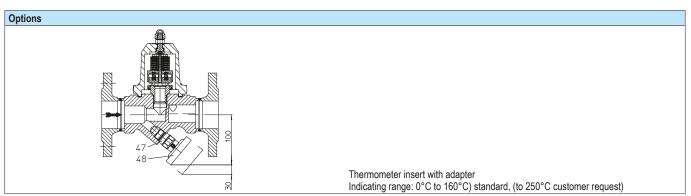


The capacity chart shows the maximum capacity at factory setting (90 $^{\circ}\text{C}$).

The water-temperature determines the degree of opening of the controller. The lower temperature of the water the higher the flow quantity.

Change of the factory setting

A half turn of the screw clockwise results in an increase of temperature by about 8K.



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

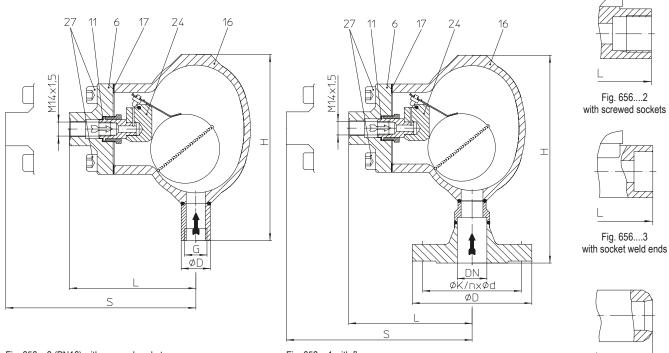


Fig. 656....2 (PN16) with screwed sockets

Fig. 656....1 with flange



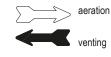


Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS	allowable differential pressure ΔPMX	for controller	
22.656	PN16	EN-JS1049	15 - 25 / 1/2" - 1"	14 barg	300 °C	14 bar	R14	
34.656	PN25	1.0619+N	15 - 25 / 1/2" - 1"	21 barg	225 °C	21 bar	R21	
35.656	PN40	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	
For ANSI versions	refer to data shee	t CONA®Compone	ents-ANSI					

Types of conne	ection	Other types of connection on request.						
Inlet:	Screwed sockets2Rp thread ac Socket weld ends3acc. to DIN E	l 2633 or DIN EN 1092-2 (PN16) / DIN 2635 or DIN EN 1092-1 (PN25/40) acc. to DIN EN 10226-1 or NPT thread acc. to ANSI B1.20.1 I 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!)								
Outlet:	• M14 x 1,5 DIN 13							
Features								
Automatic air	vents for liquid systems							
Hood with flar	nged cover							
The exchange	e of the controller is possible without disturbing the pipe con	nections						
Installation: al	bove the point being vented, inlet always at the bottom							
Options		(Design refer to page 11)						
Drip pipe (Pos	s. 54) with Union M14x1,5 for Pipe-ø 8 mm (Pos. 53)							
Selection crite	ria	Example for order data						
Operating pre	• Nominal diameter / pressure	Automatic air vents for liquid systems, PS = 21 barg, TS = 400°C, flange connection, PN25,						
Back pressure	e/Differential pressure • Type of connection	DN25, Hood Cast steel / Cover Forged steel						
 Operating terr Flow quantity		=> Automatic air vent for liquid systems, Fig. 656, PN25, DN25, 1.0460/1.0619, Face-to-face dimension 119 mm, R21, flange connection						

CONA[®] 656 PN16 / PN25 / PN40 - DN15-25

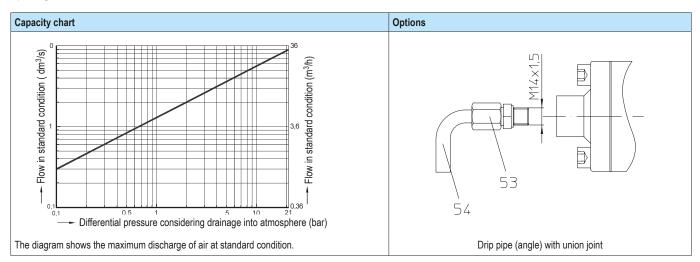
Types of	connection		Flanges Screwed sockets ¹⁾ Socket weld ends (not in EN-JS104)					Butt weld	Butt weld ends (not in EN-JS1049)		
DN		15	20	25	15	20	25	15	20	25	
NPS		1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	
									1) Screwed s	ockets: L = 140	
Face-to-f	face acc. to data she	et resp. custon	ner request								
L	(mm)	119	119	119	119	119	119	119	119	119	
Dimensio	ons							Standard-flan	ge dimensions re	efer to page 14.	
Н	(mm)	196	197	200	140 ¹⁾ / 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					· 						

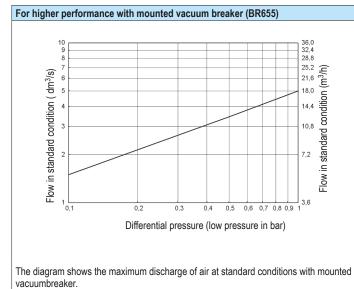
i uito									
Pos.	Sp.p.	Description	Fig. 22.656	Fig. 34.656	Fig. 35.656	Fig. 54.656	Fig. 55.656		
6		Cover	P250GH, 1.0460		X6CrNiTi18-10, 1.4541				
11	х	Sealing ring	A4						
16		Hood	EN-JS1049, EN-GJS-400- 18U-LT	GP240GH+N, 1.0619)+N	GX5CrNi19-10, 1.43	08		
17	х	Gasket	Pure graphite CrNi laminated with graphite						
24	х	Controller, cpl.	X5CrNi18-10, 1.4301						
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	X6CrNiMoTi17-12-2,	1.4571					
	L Spar	e parts							

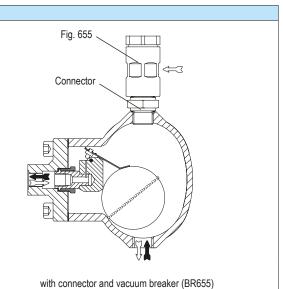
Information / restriction of technical rules need to be observed!

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

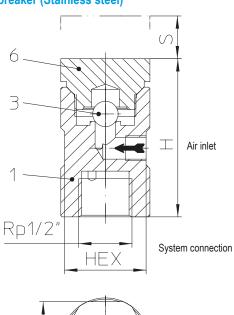
Operating and installation instructions can be downloaded at www.ari-armaturen.com.







Vacuum breaker (Stainless steel)



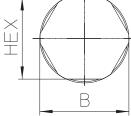


Fig. 655....2 with screwed sockets

Flow quantity

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			
		1.4301	Dr 1/2	13 barg	400 °C	7 mhor	0.55 ~2/h			
55.655	PN40	1.4301	Rp 1/2	21 barg	220 °C	7 mbar	0,55 m3/h			
For ANSI versior	ns refer to data she	et CONA®Compon	ents-ANSI							
Types of connection Other types of connection on request										
System conne	ction2	Rp 1/2 (DIN EN	10226-1) / NPT 1/	2 (ANSI B1.20.1)	A dropping line can be c	onnected.				
Air inlet		Rp 1/8 (DIN EN	10226-1) / NPT 1/	8 (ANSI B1.20.1)	The line has to be led to					
Features										
Ventilation value	ve for pipelines, cor	ndensing vapour (s	team) or liquid syst	ems, where the system p	ressure should not fall bel	ow the atmospheric press	ure.			
 Vertical positio 	n, cap on top.									
System conne	ction downwards.									
Selection criter	ia			Example for order data						
 Operating pres Operating tem 		 Nominal diame Type of connect 	·		n connection Rp, PN 40, N	,				

=> Vacuum breaker, Fig. 655, PN 40, DN 1/2", System connection Rp.

Material

Types	of conne	ction		System connection (Rp / NPT)					
NPS				1/2"					
Dimen	sions								
H (mm)				62					
		(mm)	35						
S (mm)		(mm)	10						
HEX	HEX (mm)		(mm)	32					
Weight	ts								
Fig. 65	5	(approx.)	(kg)	0,38					
Parts									
Pos.	Sp.p.	Description		Fig. 52.655 / 55.655					
1	(j	Body		X5CrNi18-10, 1.4301					
3	x unit)	Valve hall		X5CrNiMo17-12-2 1 4401					

X5CrNiMo17-12-2, 1.4401

X17CrNi16-2, 1.4057

L Spare parts

~ (cpl.

3

6

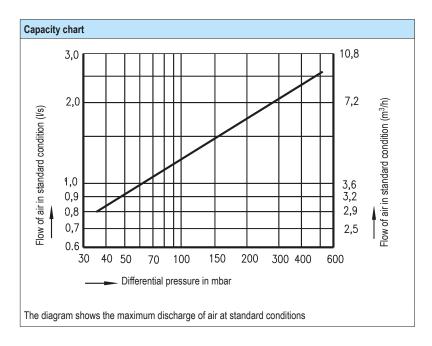
Information / restriction of technical rules need to be observed!

Valve ball

Сар

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® Components / Accessories

Informations about pipe welding / Standard-flange dimensions

informations about pipe weiding		
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 17210
Note restriction on operating pressure / inlet temperature depending to design!	1.4408	GX5CrNiMo19-11-2 acc. to DIN EN 10213-4

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 2533 / DIN 2634 / DIN 2635 or DIN EN 1092-2/ -1															
DN			15	20	25	32	40	50	65	80	100	125	150	200	250
NPS	NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	4 1/2"	6"	8"	10"
	ØD	(mm)	95	105	115	140	150	165	185	200	220	250	285	340	405
PN16	ØK	(mm)	65	75	85	100	110	125	145	160	180	210	240	295	355
	n x Ød	(mm)	4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x 18	8 x 22	12 x 22	12 x 26
	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	360	425
PN25	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	310	370
	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26	12x30
	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	375	450
PN40	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	320	385
	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	8 x 18	8 x 22	12 x 30	12 x 33







Technology for the Future. GERMAN QUALITY VALVES

ARI-Armaturen Albert Richter GmbH & Co. KG, D-33756 Schloß Holte-Stukenbrock, Tel. +49 52 07 / 994-0, Telefax +49 52 07 / 994-158 or 159 Internet: http://www.ari-armaturen.com E-mail: info.vertrieb@ari-armaturen.com