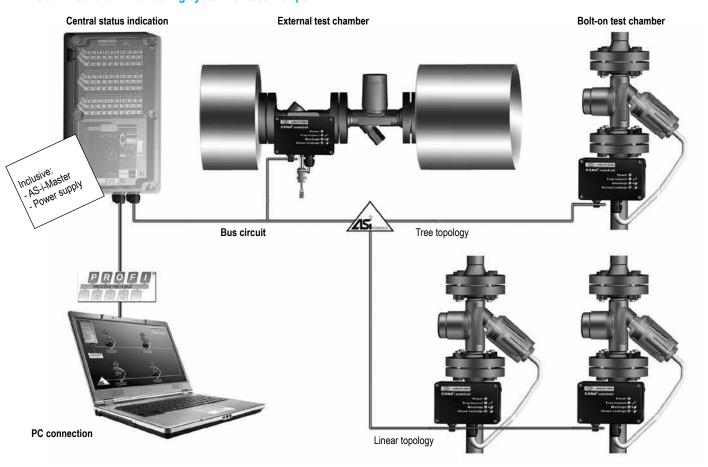


CONA®-control - Monitoring system for steam traps

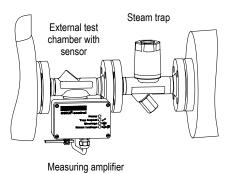


External test chamber

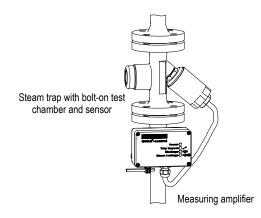
- with flanges (Fig. 685....1) - with screwed sockets (Fig. 685....2)

- with socket weld ends (Fig. 685....3)

- with butt weld ends (Fig. 685....4)



Bolt-on test chamber (as option for ARI-CONA®)



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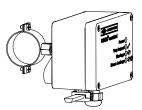
Features:

- · Identification of failes steam traps
- Leaking steam trap (energy wastage)
- Blocked steam traps (poor plant performance)
- Patent applied, safe temperature sensor
- · Local indication of maintenance requirement
- Continous monitoring of trap performance for instant indication of failure
- External chamber and sensor may be used on all types and makes of steam trap
- Network compatible by AS-i-Bus linking of chambers and sensors (ontional)
- Single operation with relay outputs (optional)
- AS-i-Bus gives the opportunity for visual display (optional)



Measuring amplifier

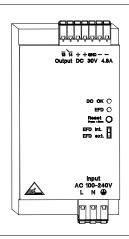




- Indication of operating status for the supervising steam traps by LED's
- Adjustable category temperature for "Blockage" indication
- AS-i-bus system option (necessary for connection to the central status indication)
- Optionally single operation with relay outputs (evaluation e.g. over SPS possible)
- · Measuring amplifier required for each test chamber
- · Maybe wall or panel mounted
- Maximum distance to the sensor approx. 1m

Technical data	
Ambient temperature:	0 up to +70°C
Supply voltage:	18-36VDC or by AS-i-Bus
Dimensions of body (HxWxD):	75 x 125 x 60mm
Body material:	Aluminum
Enclosure:	IP65
Current consumption:	<100 mA

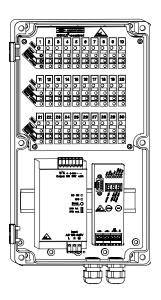
Power supply



- · AS-i-Bus compatible
- Built-in appliance for mounting on a profile in the control cabinet

Technical data	
Supply voltage:	100 V AC - 240V AC 45-65Hz
Output voltage:	30V DC
Ambient temperature:	-25 up to +70°C
Input fuse:	5 A slow fuse
Output current:	4,8 A
Enclosure:	IP20
Current consumption:	approx. 2,1 A (120 V AC) / 1A (230 V AC)
Weight:	0,9 kg

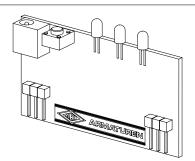
Central status indication



- Central status indication of up to 30 steam traps
- Connection of measuring amplifier by AS-i-Bus
- Integrated AS-i-Master/Gateway
- Integrated power supply for AS-i-Bus system
- One indication card necessary for each measuring amplifier

Technical data	
Internal Bus-system for steam traps:	AS-i-Bus
Interface for superior systems:	Profibus DP other Bus systems on request
Ambient temperature:	0 to +50°C
Supply voltage:	100-240 V ~ optional: 24 V ~
Dimensions of body (HxWxD):	360 x 200 x 160mm
Body material:	PC/ABS
Enclosure:	IP65

Indication card



- Indication card for the central status indication
- Indication of operation standards "Blockage" and "Steam Leakage" of the connected steam traps by AS-i-Bus
- Reset button for one or all error messages



External test chamber (Forged steel, Stainless steel)

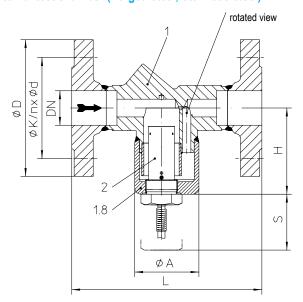




Fig. 685....2 with screwed sockets



Fig. 685....3 with socket weld ends



Fig. 685....4 with butt weld ends

Fig. 685....1 with flanges

Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS		
45.685	PN40	1.0460	DN15-25 / 1/2" - 1"	32 barg	250 °C		
55.685	PN40	1.4541	DN15-25 / 1/2" - 1"	32 barg	250 °C		
DIN/FN-Constructions refer	DIN/EN-Constructions refer to data sheet CONA® control ANSI						

Types of connection	Other types of connection on request.
• Flanges1acc. to DIN EN 1092-1	
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 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

- Installation directly in front of the steam trap
- Patent applied, integrated temperature sensor

Types of conn	ection		Flanges			Screwed socke Socket weld end		Butt weld ends		
DN		15	20	25	15	20	25	15	20	25 1"
NPS		1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	
Face-to-face a	cc. to data sheet re	sp. customer i	equest							
L	(mm)	150	150	160	95	95	95	250	250	250
Dimensions										
Н	(mm)	73	73	73	73	73	76	73	73	73
S	(mm)	60	60	60	60	60	60	60	60	60
SQR	(mm)	54	54	54	54	54	54	54	54	54
Ø D	(mm)	95	105	115						
ØK	(mm)	65	75	85						
n x Ø d	(n x mm)	4 x 14	4 x 14	4 x 14		-				
Weights										
	prox.) (kg)	3,2	3,2	4,2	1,7	1,6	2,1	2,2	2,3	2,4

Parts				
Pos.	Sp.p.	Description	Fig. 45.685	Fig. 55.685
1		Body	P250GH, 1.0460	X6CrNiTi18-10, 1.4541
1.8		Cap Sensor	X6CrNiTi18-10, 1.4541	
2	х	Sensor, cpl.	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



External test chamber (Forged steel, Stainless steel)

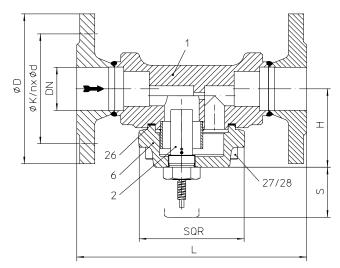




Fig. 685....2 with screwed sockets



Fig. 685....3 with socket weld ends



Fig. 685....4 with butt weld ends

Other types of connection on request.

Fig. 685....1 with flanges

Figure	Nominal pressure	Material	Nominal diameter / NPS	Operating pressure PS	Inlet temperature TS		
45.685	PN40	1.0460	DN40-50 / 1 1/2" - 2"	32 barg	250 °C		
55.685	PN40	1.4541	DN40-50 / 1 1/2" - 2"	32 barg	250 °C		
DIN/EN-Constructions refer	DIN/EN-Constructions refer to data sheet CONA®-control ANSI						

Types of connection

- Flanges1 ______ acc. to DIN EN 1092-1
- 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!)

Features

- Installation directly in front of the steam trap
- Patent applied, integrated temperature sensor
- Installation position: horizontal, cap downwards!
- · Applicable for ball float steam traps CONA S/SC, steam traps of other manufacturers or if a steam trap with screen is necessary

Types of connection	Flar	nges		l sockets veld ends	Butt weld ends	
DN	40	50	40	50	40	50
NDS	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	on request			
Dimensions							
Н	(mm)	78,5	78,5				
S	(mm)	60	60				

Dimensions				
Н	(mm)	78,5	78,5	
S	(mm)	60	60	
SQR	(mm)	105	105	an request
ØD	(mm)	150	165	on request
ØK	(mm)	110	125	
n x Ø d	(n x mm)	4 x 18	4 x 18	

Weights				
Fig. 685	(approx.) (kg)	9,8	11,2	on request

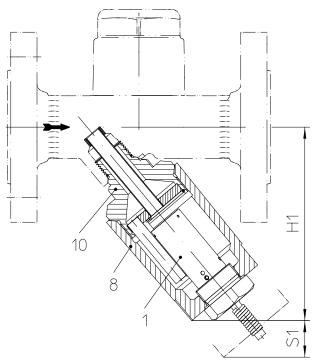
Parts	Parts				
Pos.	Sp.p.	Description	Fig. 45.685	Fig. 55.685	
1		Body	P250GH, 1.0460	X6CrNiTi18-10, 1.4541	
2	х	Sensor, cpl.	X6CrNiMoTi17-12-2, 1.4571		
6		Cover Sensor	P250GH, 1.0460	X6CrNiTi18-10, 1.4541	
26	х	Sealing ring	Graphite (CrNi laminated with graphite)		
27		Cheese head screw	21CrMoV 5-7, 1.7709		
28		Hexagonal nut	21CrMoV 5-7, 1.7709		
	L Spar	L Spare parts			

Information / restriction of technical rules need to be observed!

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

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

Bolt-on test chamber (Forged steel, Stainless steel)



Options Bolt-on test chamber

Figure	Nominal pressure	Material	Thread	Operating pressure PS	Inlet temperature TS
Bolt-on test chamber	PN40	1.0460	M20 x 1,5	32 barg	250 °C
Bolt-on test chamber	PN40	1.4541	M20 x 1,5	32 barg	250 °C
DIN/EN-Constructions refer to data sheet CONA®-control ANSI					

Types of connection

• Thread _____ M20 x 1,5 (for CONA steam traps)

Features

- Suitable for horizontal or vertical installation position of the steam traps; Test chamber diagonally downwards!!
- · Patent applied, integrated temperature sensor
- Applicable for CONA B (Fig. 601) and CONA M (Fig. 612) with Y-body DN15-25 (design of the steam traps see corresponding data sheets)

Types of connection	Thread	
Size	M20 x 1,5	

Dimensions		Dimensions and weights of the CONA®-steam traps see corresponding data sheet	
H1	(mm)	117	
S1	(mm)	25	

Weights	
(approx.) (kg)	1,2

Parts	Parts Control of the				
Pos.	Sp.p.	Description	Options Bolt-on test chamber		
1	х	Sensor, cpl.	X6CrNiMoTi17-12-2, 1.4571		
8		Cap Sensor	P250GH, 1.0460	X6CrNiTi18-10, 1.4541	
10		Socket	X6CrNiMoTi17-12-2, 1.4571		
	L Spare parts				

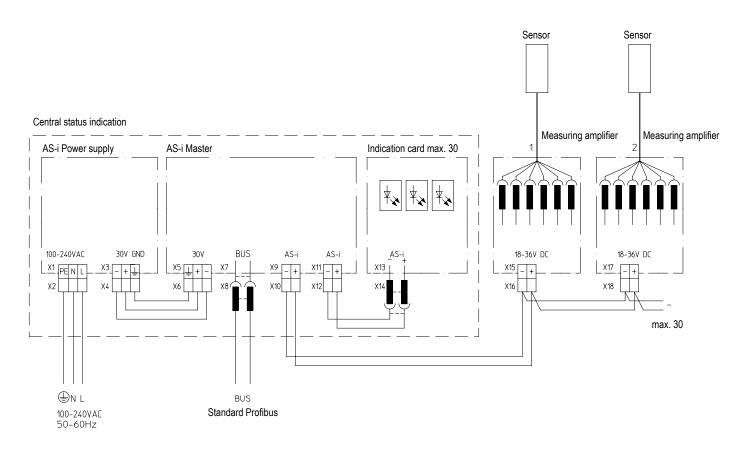
Information / restriction of technical rules need to be observed!

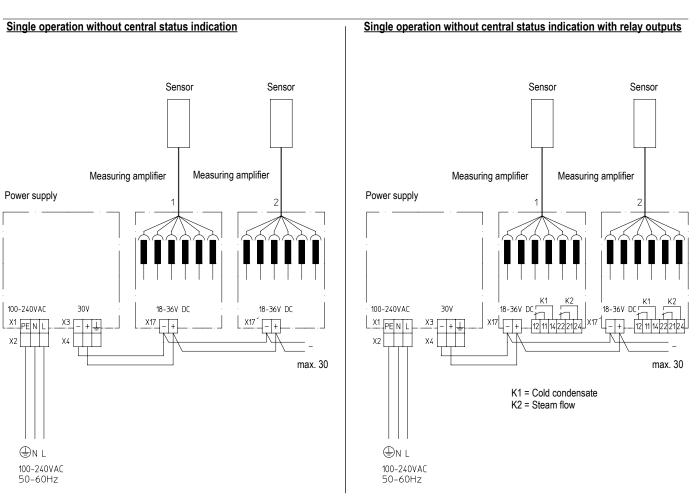
Resistance and fitness must be verified (contact manufacturer for information, refer to Product overview and Resistance list).

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

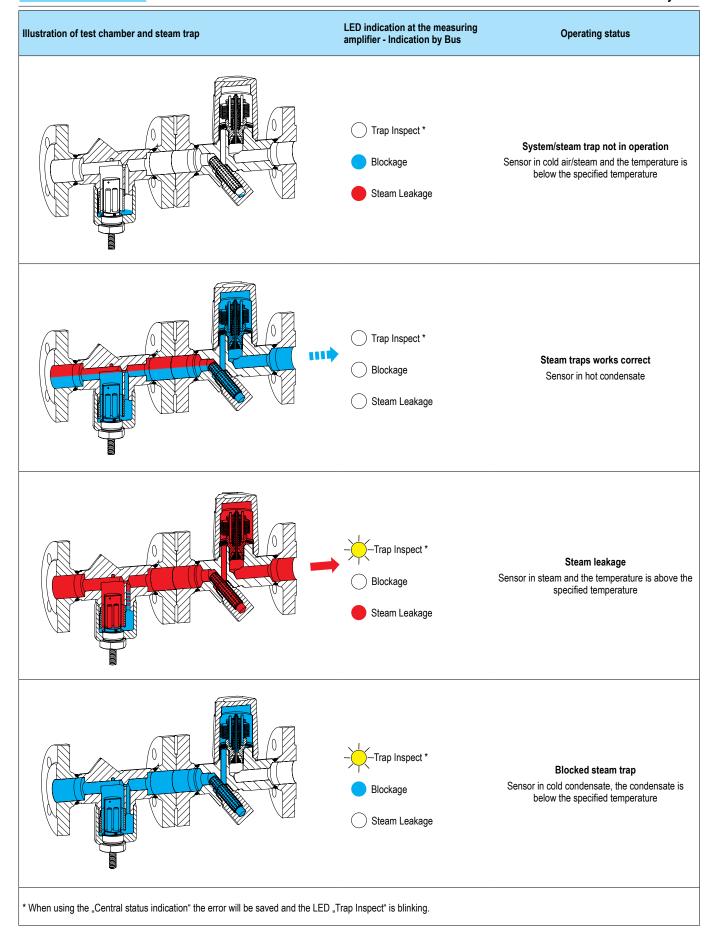


Operation with central status indication









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Informations about pipe welding

Welding groove acc. to DIN 2559

The material used for ARI valves with butt weld ends are:
1.0460 P250GH acc. to DIN EN 10222-2
1.4541 X6CrNiTi18-10 acc. to DIN EN 10222-5

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

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.

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!

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