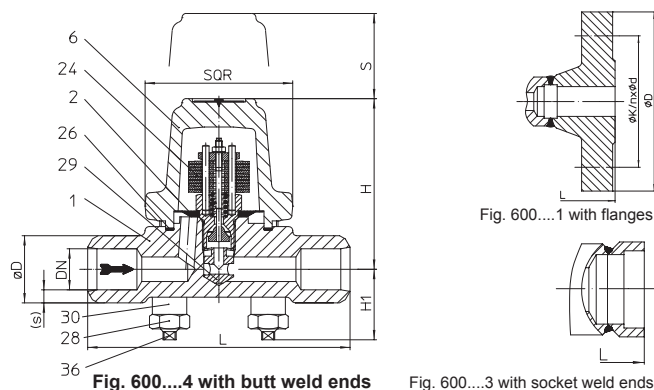




CONA® B

Bimetallic Steam Trap PN63/PN100 , ANSI400/600

Fig. 600



- Thermostatic steam trap with non-corrosive and robust water hammer proof bimetallic controller
- Steam trap specially for high pressures
- Automatic air-venting during start up and operation of the plant
- Non return protection
- With inside strainer
- Installation in any position, except cover downwards
- Subcooling of condensate is continuously adjustable (observe the operation instructions)
- The controller maybe changed without disturbing the pipe work
- - Controller at PN100 available for operating range:
 - Controller R56 - to 56 bar inlet pressure
 - Controller R90 - to 90 bar inlet pressure

Types of Connection

Flanges1	PN63 / PN100 acc. to DIN 2501	ANSI400 / 600 acc. to ASME B16.5
Socket weld ends3	acc. to DIN EN 12760	acc. to ASME B16.11
Butt weld ends4	acc. to DIN EN 12627	acc. to ASME B16.25

Dimensions PN63/PN100

Dimensions and Weights		Types of connection							
		Flanges		Socket weld ends			Butt weld ends		
Nominal diameter	(mm) (inch)	15 1/2	25 1	15 1/2	20 3/4	25 1	15 1/2	20 3/4	25 1
L*	(mm)	210	230	160	160	160	160	160	160
H	(mm)	104	104	104	104	104	104	104	104
H1	(mm)	42	42	42	42	42	42	42	42
S	(mm)	70	70	70	70	70	70	70	70
SQR	(mm)	90	90	90	90	90	90	90	90
Weight approx. (kg)		6.2	9.3	4.6	4.5	4.4	4.6	4.5	4.4

* Face-to-face acc. to data sheet resp. customer request

Material

Pos.	Description	Fig. 86.600 / 87.600 (PN63/PN100)	Fig. 86.600 / 87.600 (ANSI400/600)
1	Body	16Mo3, 1.5415	SA182F12Cl.2
2	Strainer *	X5CrNi18-10, 1.4301	SA240Gr.304
6	Cover	16Mo3, 1.5415	SA182F12Cl.2
24	Controller *	TB 102 / 85 (corrosion resistant bimetal)	
26	Sealing ring *	Graphite (CrNi laminated with graphite)	
28	Hexagonal nut	21CrMoV 5-7, 1.7709	SA193Gr.B16 (with metric screw-thread)
29	Erosion deflector *	X17CrNi16-2, 1.4057	AISI431
30	Extension sleeve	21CrMoV 5-7, 1.7709	SA193Gr.B16
36	Stud	21CrMoV 5-7, 1.7709	SA193Gr.B16 (with metric screw-thread)

* Spare part

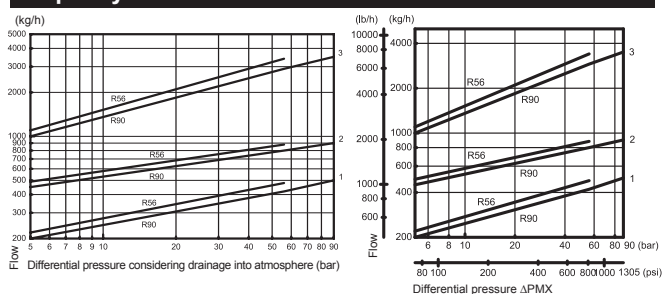
Dimensions ANSI400/600

Dimensions and weights		Types of connection							
		Flanges		Socket weld ends			Butt weld ends		
NPS	(inch)	1/2	3/4	1	1/2	3/4	1	1/2	3/4
L*	(inch)	8.27	8.27	9.06	6.30	6.30	6.30	6.30	6.30
H	(inch)	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
H1	(inch)	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
S	(inch)	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
SQR	(inch)	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54
Weight appr. (lb)		13.67	14.3	20.5	9.48	9.92	9.7	10.14	9.92

* Face-to-face acc. to data sheet resp. customer request

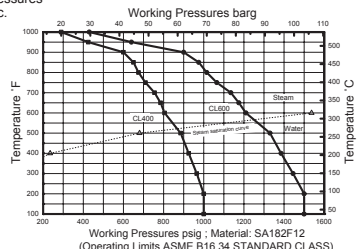
Dimensions and weights		Types of connection							
		Flanges		Socket weld ends			Butt weld ends		
DN	(mm)	15	20	25	15	20	25	15	20
L*	(mm)	210	210	230	160	160	160	160	160
H	(mm)	104	104	104	104	104	104	104	98
H1	(mm)	42	42	42	42	42	42	42	42
S	(mm)	70	70	70	70	70	70	70	70
SQR	(mm)	90	90	90	90	90	90	90	90
Weight appr. (kg)		6.1	6.5	9.3	4.3	4.5	4.4	4.6	4.4

Capacity chart



The capacity chart shows the maximum flow of hot and cold condensate at factory setting. For operating pressures below 5 bar, a correction of the factory-setting acc. to manufacturers information is recommended.)

Curve 1:
Maximum flow quantity of hot condensate at approx. 15 K below boiling temperature.
Curve 2:
Maximum flow of sub-cooled condensate at approx. 30 K below boiling temperature (through back up of condensate).
Curve 3:
Maximum flow quantity of cold condensate at about 20°C (during startup of a cold installation).
The condensate temperature determines the opening of the controller. Capacity is increased with the sub-cooling temperature of the condensate.



Operating limits

Fig. 86.600	PN63 - 16Mo3			ANSI400 - SA182F12Cl.2		
Operating pressure PS (psig)				812	290	
Inlet temperature TS (°F)				591	1000	
Operating pressure PS (bar-g)	56	47	45	56	20	
Operating temperature TS (°C)	300	400	450	311	538	
allow. diff. press. ΔPMX (psi):				812		
allow. diff. press. ΔPMX (bar):		56		56		
for controller:		R56		R56		
Fig. 87.600	PN100 - 16Mo3			ANS600 - SA182F12Cl.2		
Operating pressure PS (psig)				1203	812	430
Inlet temperature TS (°F)				610	917	1000
Operating pressure PS (bar-g)	90	56	27	83	56	30
Operating temperature TS (°C)	450	500	530	321	492	538
allow. diff. press. ΔPMX (psi):				812	1203	
allow. diff. press. ΔPMX (bar):	56	90		56	83	
for controller:	R56	R90		R56	R90	

*last updated 10/16

