

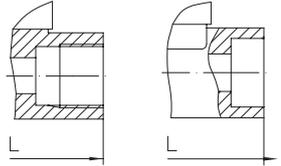
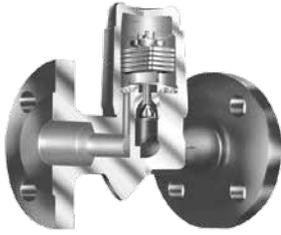
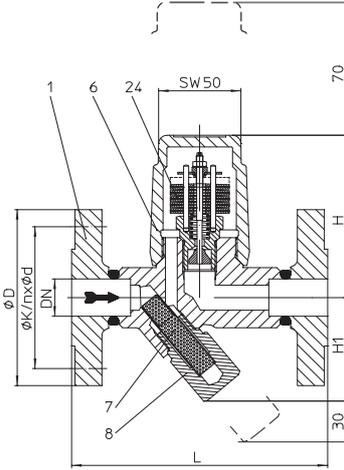
**Bimetallic Steam Trap PN40, ANSI150/300**
**Fig. 600/601**

 Fig. 600/601...2  
threaded ends

 Fig. 600/601...3  
sockets welded ends

**Fig. 600/601...1 with flanges**
**Features**

- For the discharge of condensate sub-cooled up to 30K / 54 °F
- Automatic ventilation during start up and operation of the plant
- Robust and insensitive to water hammer
- Integrated non return protection
- Design with inside strainer (600) and with outside strainer (601Y)
- Optimized design for quick installation (ANSI150/300, size 1/2"-1")
- Gasketless sealing of the screw cap (ANSI150/300, size 1/2"-1")
- Installation in any position (except cover/screw cap downwards)
- Subcooling of condensate in continuously adjustable (observe the operation instructions)
- The exchange of the controller is possible without disturbing the pipe connections

**Types of Connection**

<b>Flanges...1</b>	ANSI150 / 300 RF, DIN PN40
<b>Thread ends...2</b>	R- and NPT- thread
<b>Socket weld ends...3</b>	
<b>Butt weld ends...4</b>	

**Material**

Part	Description	DIN	ASTM/AISI
1	Body	1.0460	SA 105
2	Strainer*	1.4016	AISI 430
6	Screw cap	1.0460	SA 105
7	Strainer screen*	1.4016	AISI 430
8	Strainer plug*	1.4104+QT	AISI 430F
24	Controller*	Corrosion resist. bimetal TB102/85	
42	Sealing ring for plug*	R-Cu99	
43	Plug*	1.1181	1035, 1038 <sup>1)</sup>
46	Blow down valve cpl.	1.4541	SA182F321

**Dimensions Flange DIN PN40**

Type of connection		Flanges			Screwed sockets Socket weld ends		
		mm	15	20	25	15	20
Nominal diameters	L	150	150	160	95	95	95
	H	98	98	98	98	98	103
Dimensions	H1	62	62	62	62	62	55
	Weight approx. (kg)	3.2	3.7	4.2	1.7	1.6	2.1

**Dimensions Flange ANSI 150/300**

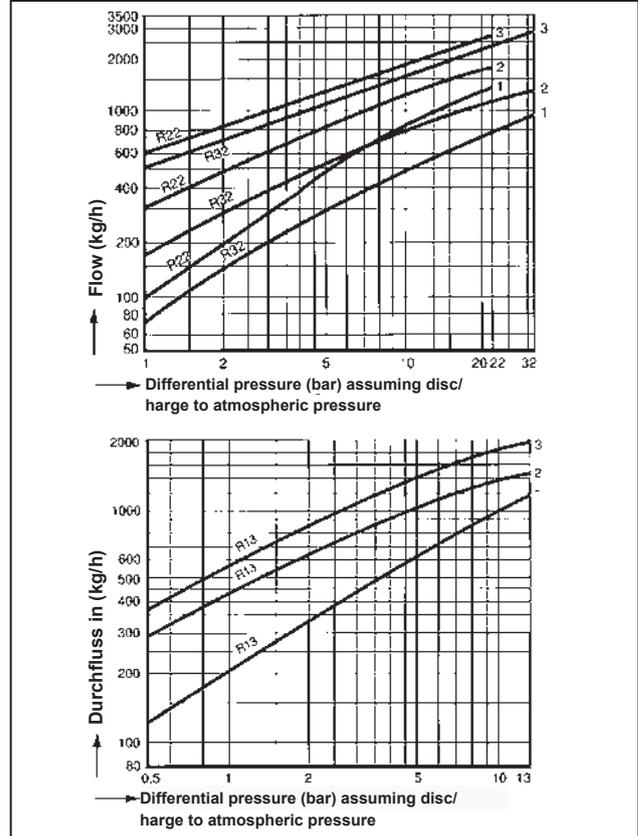
Type of connection		Flanges				
		mm	1/2"	3/4"	1"	1 1/2"
Nominal diameters	L	5.91	5.91	6.30	9.06	9.06
	H	3.86	3.86	3.86	5.67	5.67
Dimensions	H1	2.44	2.44	2.44	2.68	2.68
	Weight approx. (lb)	7.1	8.2	9.3	24.9	26.7

**Fig. 45.600/601**

PN40 - C22.8	Operating Limits		
	Operating Pressure PS (bar-g)	32	22
Operating Temperature TS (°C)	250	385	450
Allowable diff.press. DPMX(bar) for controller	32	22	13
	R32	R22	R13

**ANSI150 Fig. 42.600/601**

ANSI300 Fig. 45.600/601	Operating Limits			
	Max. temperature (°F) ANSI150	n.a.	n.a.	437
Max. temperature (°F) ANSI300	771	800	800	
Controller unit permissible ΔP (psi)	Sizes	R32	R22	R13
	1/2" to 2"	464	319	189

**Graph of Pressure & Temperature Ratings**


The condensate-temperature determines the aperture of the controller.  
The capacity is increasing with the sub-cooling temperature of the condensate.

**Capacity Chart**

The capacity chart shows for controller R13, R22 and R32 The maximum flow at factory setting

**Curve 1**

Maximum flow quantity of hot condensate at approx. 10K / 18 °F below boiling temp.

**Curve 2**

Maximum flow sub-cooled condensate at approx. 30K / 54 °F below boiling temp.(through back up of condensate)

**Curve 3**

Maximum flow quantity of cold condensate at about 20 °C / 68 °F (during start-up of a cold installation)

\*last updated 10/16