

THERMOSTATIC STEAM TRAPS AND AIR VENTS TH32

DESCRIPTION

The ADCA TH32 series thermostatic steam traps and air vents are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment.

MAIN FEATURES

Modulating discharge.
Discharges condensate close to steam saturation temperature.
Thermostats for different sub coolings (5 to 30 °C).
Excellent air discharge.
Operates with moderate superheated steam.
Built-in strainer.

OPTIONS: LC – low capacity.
Integral check valve.
Blowdown valve.

USE: Saturated steam.

AVAILABLE MODELS: TH32Y – carbon steel.
TH32i – stainless steel.
TH32YLC – carbon steel, low capacity.
TH32iLC – stainless steel, low capacity.
Suffix "CK": with integrated check valve.

SIZES: 1/2" to 1"; DN 15 to DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME B16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Horizontal installation is recommended, but can be installed in any position.
See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – EUROPEAN DIRECTIVE)

PN 40	CATEGORY
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS

TH32Y		TH32i			RELATED TEMPERATURE
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	
ALLOW. PRESSURE	ALLOW. PRESSURE	ALLOW. PRESSURE	ALLOW. PRESSURE	ALLOW. PRESSURE	
40 bar	19,3 bar	40 bar	15,3 bar	39,9 bar	50 °C
35 bar	15,8 bar	34,4 bar	12 bar	31,3 bar	150 °C
30,4 bar	12,1 bar	29,9 bar	10,2 bar	26,6 bar	250 °C
27,6 bar	10,2 bar	27,6 bar	9,7 bar	25,2 bar	300 °C

PMO – Maximum operating pressure: 22 bar.

TMO – Maximum operating temperature: 250 °C.

* According to EN 1092-1:2018; ** According to EN 1759-1:2004.

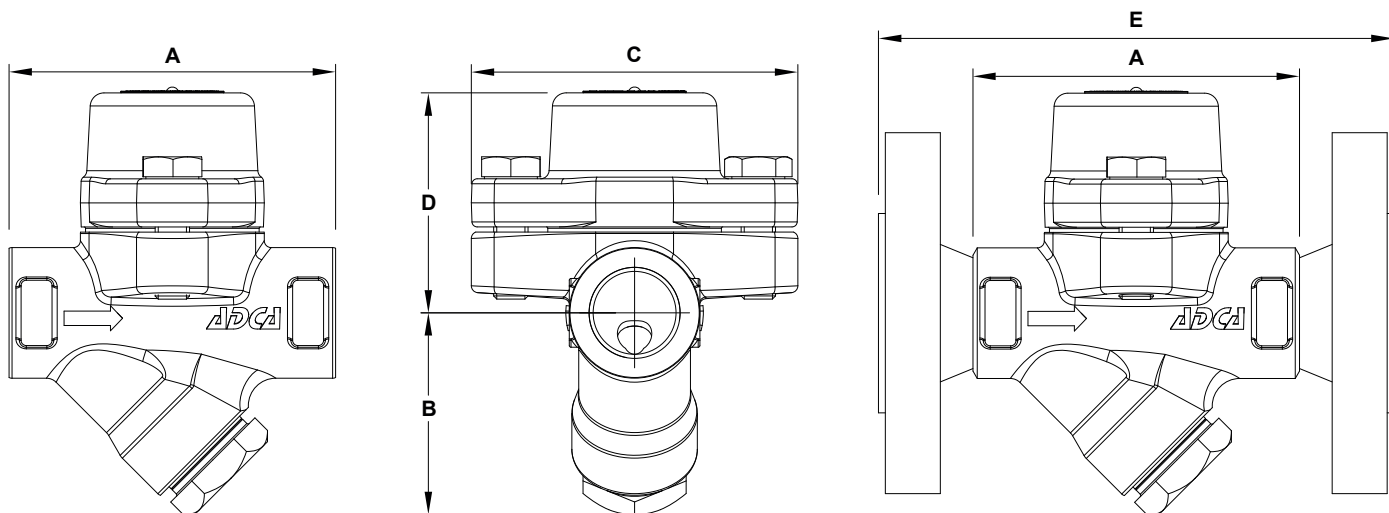
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)														
		0,2	0,3	0,5	1	1,5	2	3	4	6	8	10	13	15	20	22
TH32Y and TH32i	1/2" to 1" DN 15 to 25	70	120	140	255	330	385	455	510	600	670	700	720	750	775	795
TH32YLC and TH32iLC	1/2" to 1" DN 15 to 25	45	55	70	95	125	135	180	200	270	315	330	360	370	405	415

Capacities shown refer to condensate discharge 10 °C below steam saturation temperature (standard type S thermostat).

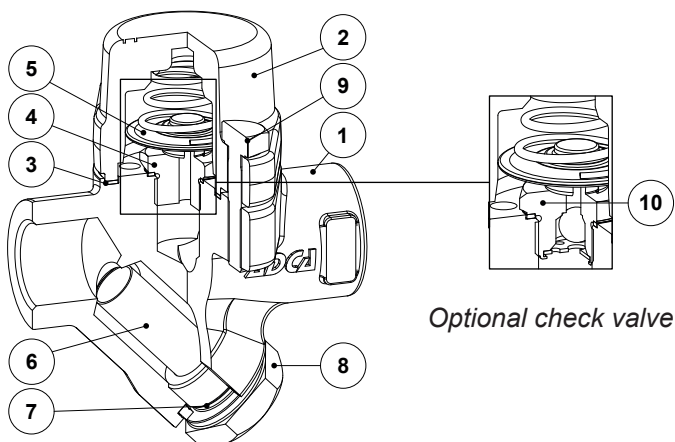
Thermostats for 5 °C (type H) and 30 °C (type L) also available. Capacities for cold condensate discharge at 20 °C are two to three times greater.



DIMENSIONS (mm)

SIZE	THREADED / SW					PN 40		CLASS 150		CLASS 300	
	A	B	C	D	WEIGHT (kg)	E *	WEIGHT (kg)	E *	WEIGHT (kg)	E *	WEIGHT (kg)
1/2" – DN 15	95	59	95	65	1,6	150	3,2	150	2,7	150	3,5
3/4" – DN 20	95	59	95	65	1,6	150	3,9	150	3,1	150	4,7
1" – DN 25	95	65	95	65	1,8	160	4,7	160	4,3	160	5,9

* Other face to face dimensions on request.



MATERIALS

POS. No.	DESIGNATION	MATERIAL
1	Body (TH32Y)	P250GH / 1.0460
	Body (TH32i)	AISI 316L / 1.4404
2	Cover (TH32Y)	P250GH / 1.0460
	Cover (TH32i)	AISI 316L / 1.4404
3	* Gasket	Stainless steel / Graphite
4	* Valve seat	AISI 304 / 1.4301
5	* Thermostatic element	Stainless steel
6	* Strainer screen	AISI 304 / 1.4301
7	* Gasket	Stainless steel / Graphite
8	* Strainer cover (TH32Y)	A 105 / 1.0432
	* Strainer cover (TH32i)	AISI 303 / 1.4305
9	Bolt	Stainless steel A2-70
10	* Seat with check valve	Stainless steel

* Available spare parts.