



## THERMODYNAMIC STEAM TRAPS DT42/2

### DESCRIPTION

The thermodynamic DT42/2 disc steam traps are compact and lightweight-easy to install traps, excellent for high pressure systems, including steam tracing applications.

These traps have only one moving part and offer a wide operating range, without adjustment.

### MAIN FEATURES

- Intermittent discharge.
- Operates on superheated steam.
- The seat and disc can be easily replaced in field without removing the trap from the line.
- Unaffected by water hammer and vibrations.
- Built-in easy-to-clean strainer.

**OPTIONS:** Insulation cover.  
Blowdown valve.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** DT42/2 – carbon steel.

**SIZES:** 1/2" to 1" – DN 15 to DN 25.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-1 PN 40 or PN 63.  
Flanged ASME B16.5 Class 150 or 300.  
Socket weld (SW) ASME B16.11.  
Butt weld (BW) ASME B16.25 on request.

**INSTALLATION:** Horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – European Directive)	
PN 63	Category
1/2" to 1" – DN 15 to 25	SEP

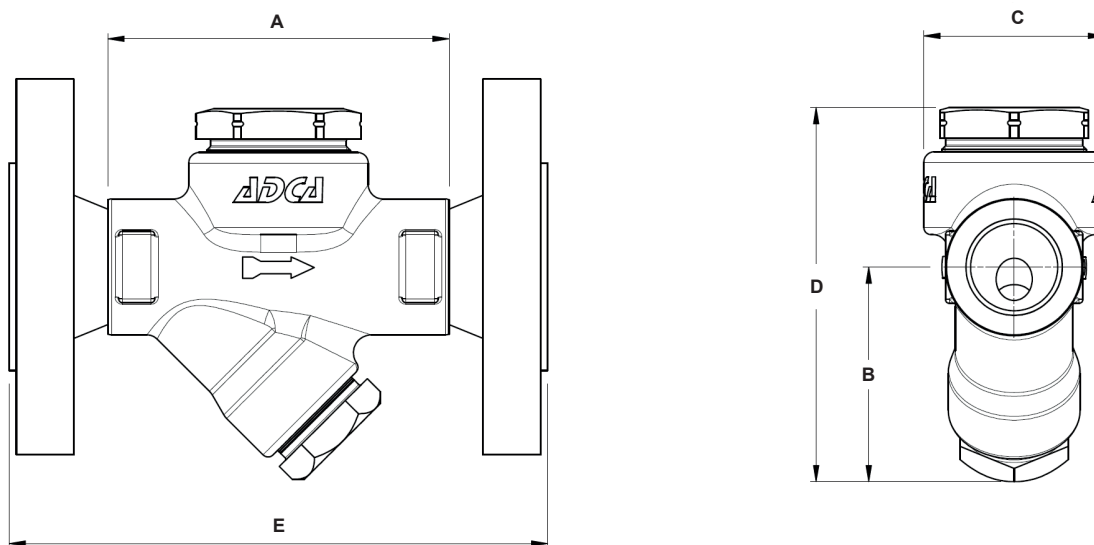
BODY LIMITING CONDITIONS			
FLANGED PN 40 / CLASS 300 *	FLANGED PN 63 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	63 bar	19,3 bar	50 °C
35 bar	55,5 bar	15,8 bar	150 °C
30,4 bar	48 bar	12,1 bar	250 °C
27,4 bar	43,5 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 42 bar;  
TMO – Maximum operating temperature: 300 °C;  
\* According to EN 1092-1:2018; \*\* According to EN 1759-1:2004.  
Body limiting conditions PN 63 or below, depending on the type of connection adopted. Rating PN 63 for threaded, SW and BW versions.



FLOW RATE CAPACITY (kg/h)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		1	3	5	7	9	12	15	18	21	24	30	35	42
DT42/2	1/2" – DN 15	180	250	300	380	430	500	550	590	620	690	730	770	820
DT42/2	3/4" – DN 20	320	450	530	600	690	720	810	850	900	930	950	980	1040
DT42/2	1" – DN 25	320	450	530	600	690	720	810	850	900	930	950	980	1040

Minimum operating pressure: 0,25 bar; Maximum operating backpressure: 80% of upstream pressure.



DIMENSIONS (mm)													
SIZE	THREADED / SW					PN 40		PN 63		CLASS 150		CLASS 300	
	A	B	C	D	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)
1/2" – DN 15	95	60	50	104	1,3	150	2,8	150	3,7	150	2,4	150	2,8
3/4" – DN 20	95	60	50	104	1,2	150	3,3	150	5,2	150	2,8	150	3,6
1" – DN 25	95	60	50	110	1,5	160	4	160	6,5	160	3,6	160	4,5

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	AISI 304 / 1.4301 AISI 303 / 1.4305
3	* Gasket	Stainless steel / Graphite
4	* Seat	Hardened stainless steel
5	* Valve disc	Hardened stainless steel
8	* Tube	AISI 304 / 1.4301
9	* Strainer screen	AISI 304 / 1.4301
10	* Gasket	Stainless steel / Graphite
11	Plug	A105 / 1.0432
12	** Insulation cover	AISI 304 / 1.4301

\* Available spare parts; \*\* Optional.

