



ADCA Thermodynamic steam trap Type 1054E series DT46 steel internal thread ASME B1.20.1

The Adca series DT46 is a compact and lightweight thermodynamic steam trap that can easily be installed. The DT46 is excellently qualified for applications in high-pressure systems, for dewatering main steam lines, water separators, and critical steam tracers where condensate needs to be drained directly. The insulation cover ensures a consistent steady operation and makes the steam trap particularly suitable for applications where weather conditions, such as rain and wind, can affect normal operation.

The DT46 series has only one moving part and offers a wide operating range without adjustment.

Characteristics

Series: DT46

Type: 1054E

Construction type: Straight

Connection: Internal thread

Standard connection: ASME B1.20.1

Pressure rating: PN100

Maximum pressure difference: 46 bar

Minimum pressure difference: 1,5 bar

Maximum back pressure: 80% van de inlaatdruk

PMA - maximum allowable pressure: 40 bar

TMA - maximum allowable temperature: 400 °C

PMO - maximum operating pressure: 46 bar

TMO - maximum operating temperature: 400 °C

With built-in filter: Yes

Housing material: Steel

Material quality: 1.0460

Material bonnet: Stainless steel SS 304 [1.4301]

Body seal: Stainless steel/graphite

Seat material: Roestvaststaal RVS, verhard

Material filter: Stainless steel SS 304 [1.4301]

Mounting direction: Horizontal and vertical

Flow direction: through arrow marking on housing

Approvals: PED 2014/68/EU fluid group 2

PED classification: PED-SEP

Application

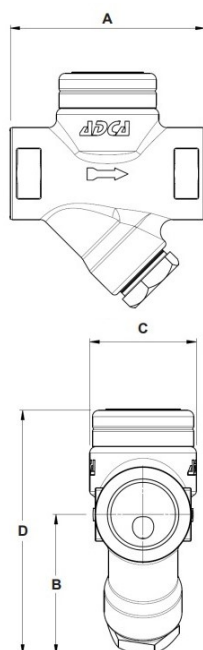
- Saturated steam.
- Superheated steam.

Technical Information

- The recommended installation position is horizontal with the filter element pointing downwards. Vertical installation is possible however increased wear is expected, which will shorten its service lifetime.
- Hardened seat and disc with properly abraded surfaces for longer life.
- Blow-out resistant seals suitable for high pressure conditions.
- 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
- Equipped with air vent as standard.
- Equipped with an insulating cap as standard. Suitable for outdoor installation.
- Intermittent operation, therefore less suitable for heat exchangers.
- Simple construction, low maintenance.
- Functions as a non-return valve.

Options

- Blow-off valve.
- Threaded connection ISO/7 Rp; BSP.
- Flange connection EN 1092-1; PN40, PN 63, PN100.
- Flange connection ASME B16.5; Class #150, #300, #600.



Size table:

Dimension	A	B	C	D	Weight
	mm	mm	mm	mm	kg
1/2"	95	60	50	109	1.2
1"	95	60	50	115	1.5
3/4"	95	60	50	109	1.2

Capacity table in kg/h															
Model	Modus	dP 1,5 bar	dP 3 bar	dP 5 bar	dP 7 bar	dP 9 bar	dP 12 bar	dP 15 bar	dP 18 bar	dP 21 bar	dP 24 bar	dP 30 bar	dP 35 bar	dP 42 bar	dP 46 bar
UDT46	Hot	70	100	130	175	190	200	225	240	250	270	290	300	310	320
UDT46	Cold	170	230	300	335	390	435	485	520	575	600	645	695	740	800

Connection size	Nominal inner diameter	Capacity type	With automatic de-aerator	Article
1/2" NPT	DN15	LC	Yes	13280228
1" NPT	DN25	LC	Yes	13280225
3/4" NPT	DN20	LC	Yes	13280227

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