TDK

TDK 45 DN15-DN25

THERMODYNAMIC STEAM TRAP TYPE TDK 45

FEATURES

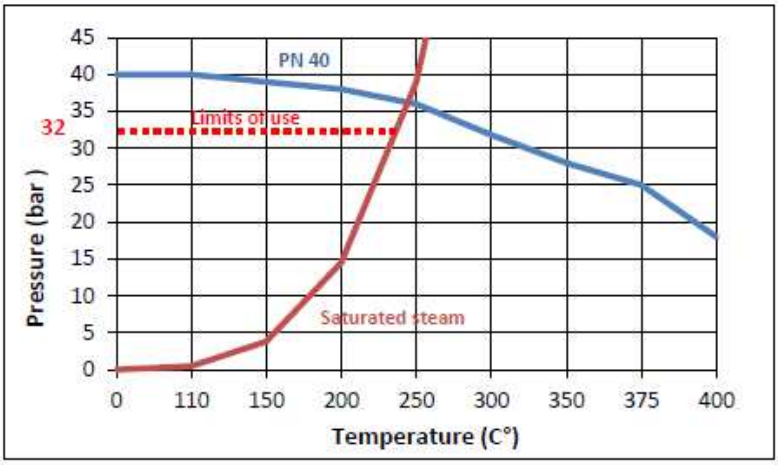
The TDK 45 condensate trap is a thermodynamic trap made of carbon steel. With its robust and compact construction and built-in Y-filter, it is ideal for purging distribution pipes and steam tracing installations. The TDK 45 accepts a downstream backpressure of up to 80% of the upstream pressure and is insensitive to water hammer, possible overheating and frost. This type of trap is easy to maintain.

AVAILABLE MODELS

Threaded connection: G1/2"- G3/4" - G1"
PN40 flange connection: DN15 - DN20 - DN25

LIMITS OF USE

Body pressure calculation	40 bar
Fluid PS:	32 bar
Fluid TS:	+0 °C / +400 °C



DIRECTIVES AND MANUFACTURING STANDARD

OBJECT	Standard
Pressure Directive 2014/68	1/2"- 3/4" - 1" : A4 § 3 not subject
	DN 15 to 25 : A4 § 3 not subject
Carbon steel alloys	EN 1503-1
Threaded connection	ISO 228
Flanges	EN 1092-1
FAF Dimensions	EN 26554

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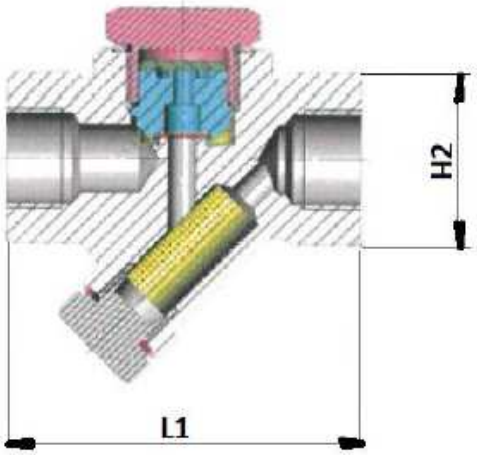
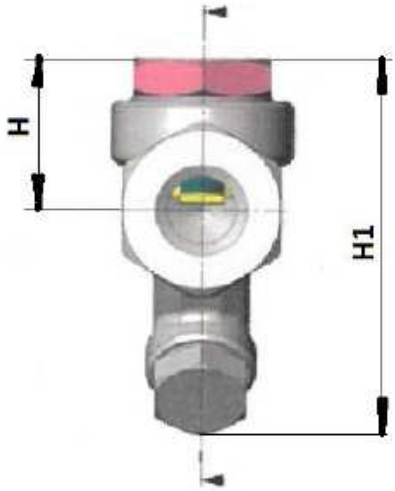
DIMENSIONS (mm) AND WEIGHT (kg)

Threaded connection

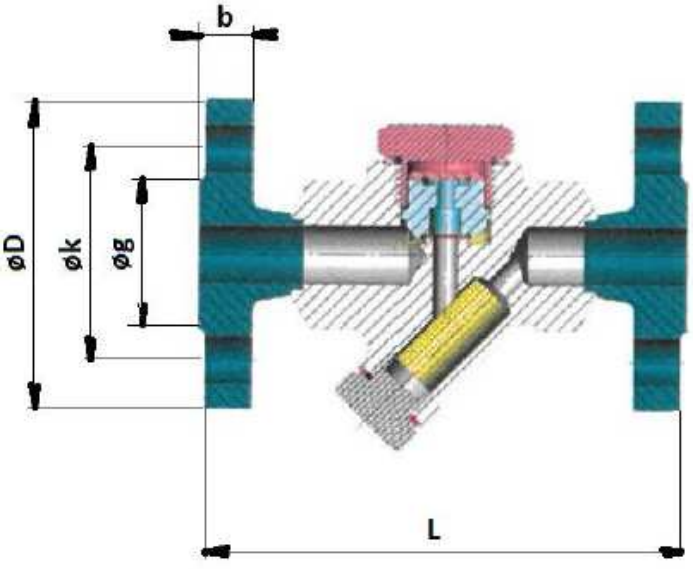
DN	H	H1	H2	L1	Weight (Kg)
1/2"	40	100	42	95	1,110
3/4"	40	100	42	95	1,270
1"	40	100	42	95	1,240

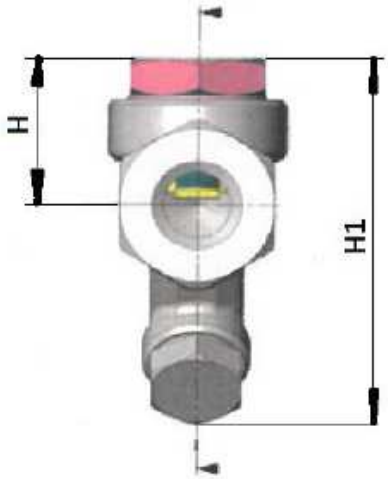




PN40 flange connection

DN	H	H1	L	ØD	Ok	Øg	b	No. of drillings	Weight (Kg)
15	40	100	150	95	65	45	16	4	2,740
20	40	100	150	105	75	58	16	4	3,320
25	40	100	160	115	85	68	16	4	3,740





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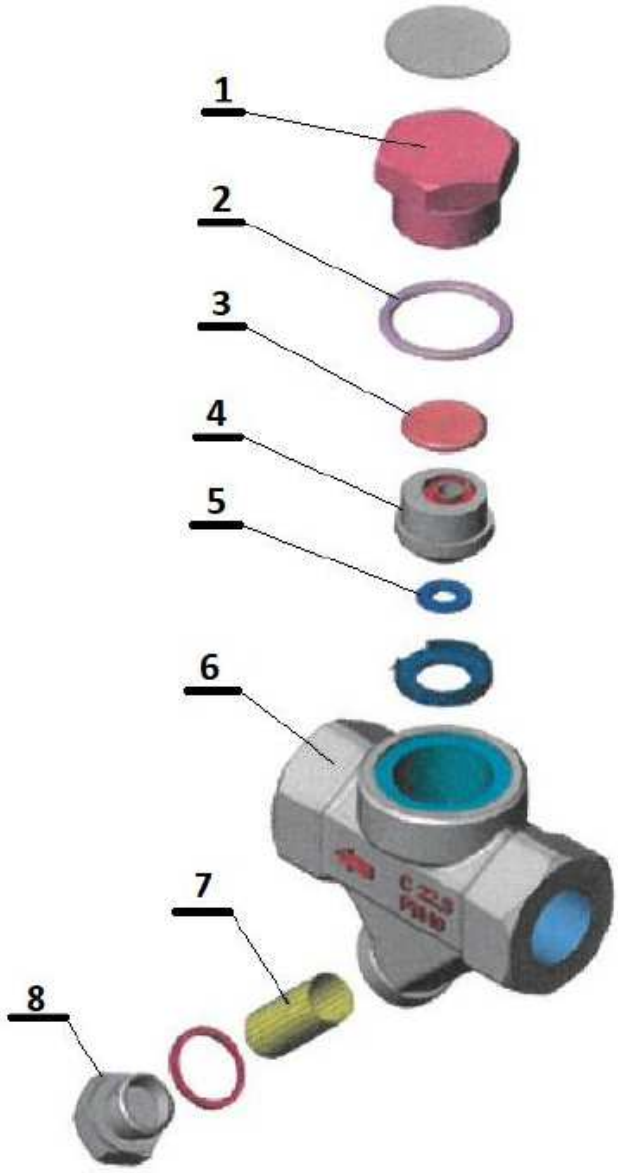
CONSTRUCTION

No.	Name	Material
1	Cap	AISI 304 stainless steel
2	Cap gasket	AISI 304 stainless steel
3	Disk	AISI 420 stainless steel
4	Seat	AISI 420 stainless steel
5	Seat seal	AISI 304 stainless steel
6	Body	Forged steel
7	Strainer	AISI 304 stainless steel
8	Purge nut	AISI 304 stainless steel



OPTION

NPT threaded connection.
SW connection.

SPARE PARTS

DN	1/2"	3/4"	1"
Disk (item3)	981260		
Body gasket	981261		
Strainer (item7)	981262		
Filter gasket	981263		

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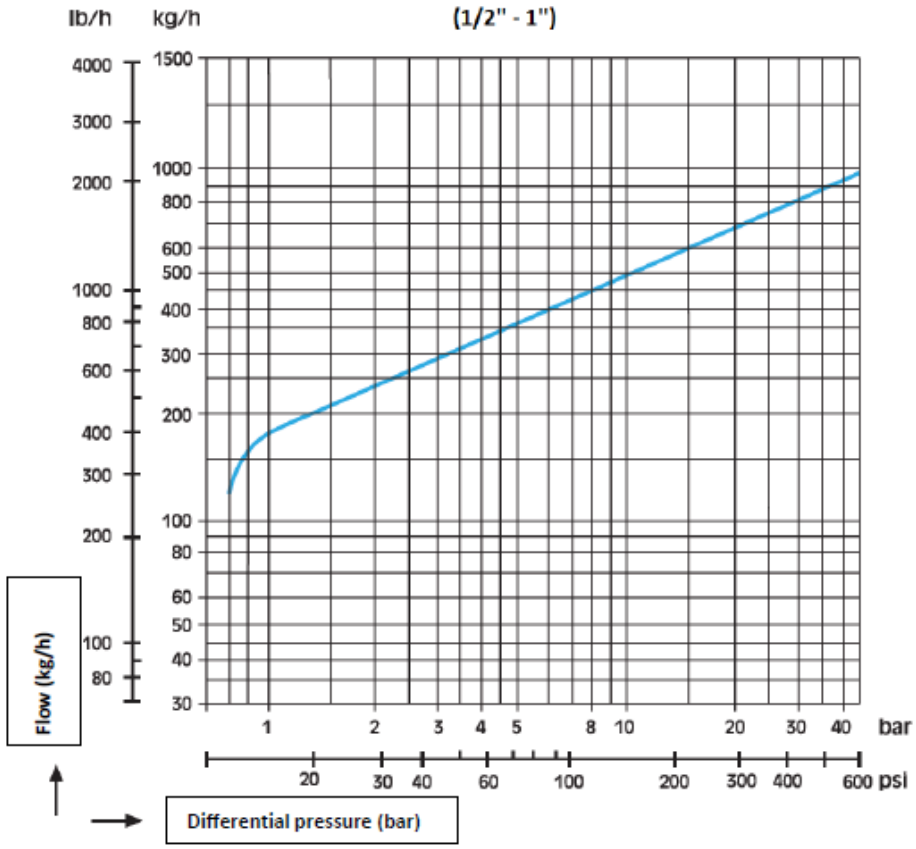
FLOW CURVE (kg/h)



INSTALLATION

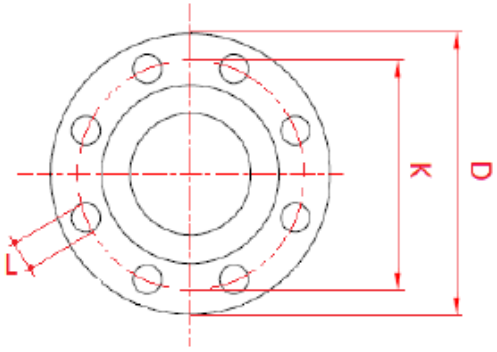
The TDK45 steam trap should preferably be installed horizontally, but will also operate in other positions.

ASSEMBLY

1 - Before any installation, cut the steam supply upstream.
2 - Depressurize and drain the pipe and wait for it to cool to room temperature.
3 - Screw the bleeder onto the pipe using suitable sealing.
4 - Preferably, position the device so that the cover is in the horizontal plane.

Use the following types of bolts:

Dimensions of ISO PN40 flanges					
DN	D	K	L	Qty	ø
15	95	65	14	4	M12
20	105	75	14	4	M12
25	115	85	14	4	M12



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MAINTENANCE

It is not necessary to remove the bleeder to perform maintenance.

1 - Close the isolation valve upstream of the bleeder.
2 - Drain the downstream piping.
3 - Ensure that there is no pressure or temperature.
4 - Unscrew the cap (item 8), remove the strainer (item 7) from the filter, clean it or replace it.
strainer depending on its condition. Replace the strainer (item 7) and screw the cap back on (item 8) while replacing the seal.
5 - Unscrew the cover (item 1) and check the condition of the disc (item 3), particularly the presence of scratches, markings
or deformation. Check the condition of the seat. Replace the disc (item 3) and lap the seat if necessary. Replace the disc (item 3) and screw the cover (item 1) back on, replacing the seal.