

Steam Traps

NDT-420

Thermodynamic Steam Trap

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NDT-420 is a thermodynamic steam trap designed to remove condensate from steam mains and for those applications where the release of air is a concern. It is manufactured in stainless steel. It is unaffected by water hammer and vibration. Its hardened stainless steel disc ensures intermittent discharge with perfect shut off. It can be supplied with screwed connections BSPT (BS 21) or NPT (ANSI-B1.20.1). Flanges according to ANSI-B16.5 class. Contact factory for other connection options.

FEATURES

Product Family	NDT
Sizes	1/4", 3/8", 1/2", 3/4" and 1"
Connections	Screwed, Flanged
Body Material	AISI 420 SS
Options	Insulated Cover
PMO Max. Oper. Pressure	598 psig
TMO Max. Oper. Temperature	842 °F
Min. Inlet Pressure	3.56 psig
Maximum Backpressure	80% of Operating Pressure

HOW TO ORDER

Specify:

- Model
- Sizes and type of connection
- Optional, if necessary

Example: 1 SF International Thermodynamic Steam Trap model NDT-421 with 1/2" body and BSPT connections.

DIMENSIONS & WEIGHT (INCHES & POUNDS)

DN	A	B	C	Weight
1/4"	1.97	1.30	0.73	0.44
3/8"	2.01	2.01	0.77	0.88
1/2"	2.68	2.05	0.85	1.32
3/4"	2.81	2.44	0.89	1.98
1"	3.27	3.11	0.93	3.30

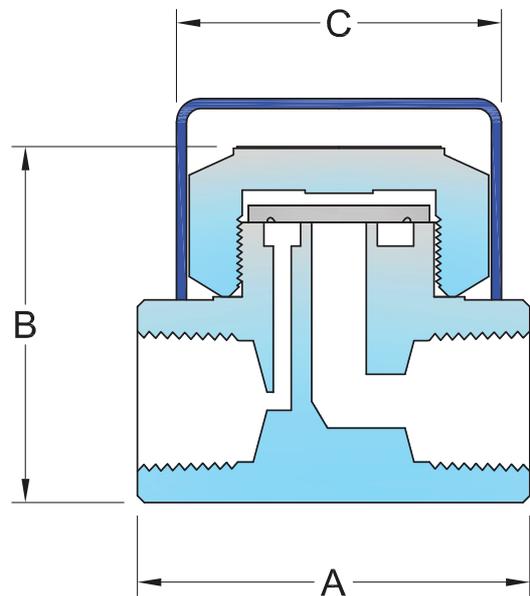
CAPACITY

Model	Sizes	DIFFERENTIAL PRESSURE - ΔP (psig) x Q (lb/h)											
		11	50	100	149	199	249	299	348	398	498	548	597
NDT-420	1/4"	-	243	441	507	683	-	-	-	-	-	-	-
NDT-420	3/8"	-	243	441	507	683	838	882	926	1,058	1,102	1,168	1,213
NDT-420	1/2"	375	617	1,102	1,080	1,279	1,389	1,543	1,587	1,720	1,764	1,786	1,808
NDT-420	3/4"	441	1,102	1,764	1,323	1,565	1,764	1,984	2,205	2,381	2,535	2,756	2,866
NDT-420	1"	661	1,301	1,764	2,205	2,590	2,866	3,153	3,461	3,704	3,968	4,233	4,519



AVAILABLE MODELS

- NDT-421: Saturated Steam *
 - NDT-422: Superheated Steam
 - NDT-423: Compressed Air
- *NDT 1/4", only NPT and for saturated steam





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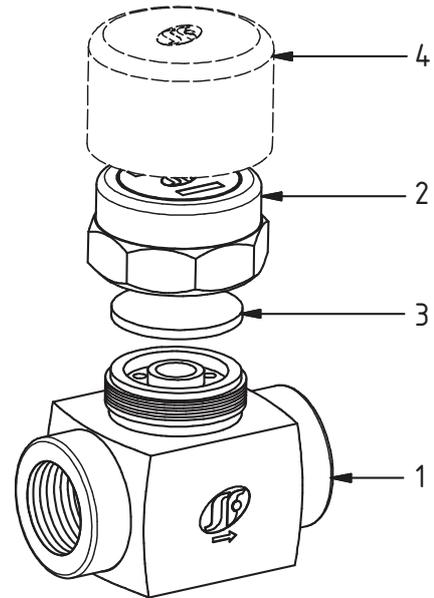
Thermodynamic Steam Trap

COMPONENTS AND MATERIALS

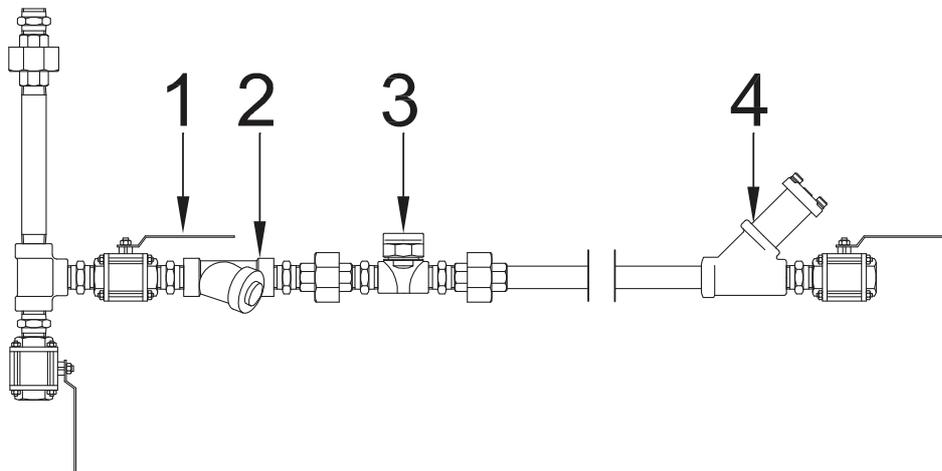
Pos.	Description	Material
1	Body	AISI 420 SS
2	Cover	AISI 420 SS
3	Disc	AISI 420 SS
4	Insulated Cover	Aluminium

HOW TO ORDER SPARE PARTS

Model	Description	Pos.	1/4"	3/8"	1/2"	3/4"	1"
421	Insulated Cover	4	-	16,991	16,991	16,992	16,994
	Disc	3	17,079	17,065	17,068	17,071	17,074
422	Insulated Cover	4	-	16,991	16,991	16,992	16,994
	Disc	3	-	17,066	17,069	17,072	17,075
423	Insulated Cover	4	-	16,991	16,991	16,992	16,994
	Disc	3	-	17,067	17,070	17,073	17,076



TYPICAL INSTALLATION



Title:	
1	Stop Valve
2	Y Strainer
3	Steam Trap
4	Sight Glass

INSTALLATION INSTRUCTIONS

This Steam Trap should be installed in a horizontal pipeline with the direction of flow as indicated by the arrow on the trap body.

PRODUCT DISPOSAL

This product is totally recyclable. No ecological hazard is anticipated with the disposal of this product.

SAFETY, INSTALLATION AND MAINTENANCE

For safety, installation and maintenance information see instructions supplied with the product (MI-0101-37).