

ThermoDyne STEAM TRAP

MODEL A3N CAST IRON

THERMODYNAMIC DISC TRAP WITH THERMOSTATIC AIR VENTING

Features

Steam jacketed disc trap for long life on mains, tracers, and coils.

- 1. Inline replaceable valve module.
- 2. Steam jacketing reduces no-load cycling.
- 3. Quick thermostatic air venting with bimetal ring for fast start-up.
- 4. Lapped disc provides steam-tight seal without air binding.
- 5. Built-in screen for trouble-free service.
- 6. High grade reusable gaskets.
- 7. Hardened working surfaces for long life.



Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

Size	Category	CE marking
DN 15 to DN 25	<u>_</u> *	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

^{*} Manufactured in accordance with sound engineering practice

Specifications

Model	A3N	AF3N	
Connection	Screwed	Flanged	
Size	½", ¾", 1"	DN 15, 20, 25	
Maximum Operating Pressure (barg) PMO	13		
Minimum Operating Pressure (barg)	0.3		
Maximum Operating Temperature (°C) TMO	200		
Maximum Back Pressure	80% of Inle	et Pressure	

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 13

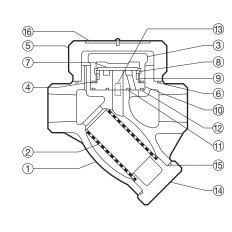
Maximum Allowable Temperature (°C) TMA: 200

1 bar = 0.1 MPa

CAUTION

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description		Material	DIN*	ASTM/AISI*
	Body	A3N	Ductile Cast Iron FCD450	0.7040	A536
1		AF3N	AF3N Cast Iron FC250		A126 CI.B
② ^R	Screen		Stainless Steel SUS430	1.4016	AISI430
(3) ^R	Inner Cover		Stainless Steel SUS410F2	_	AISI410F2
(4) ^R	Inner Cover Gasket		Fluorine Resin PTFE	PTFE	PTFE
(5)	Outer Cover		Ductile Cast Iron FCD450	0.7040	A536
6)MR	Outer Cover Gasket		Fluorine Resin PTFE	PTFE	PTFE
(7) ^R	Disc		Stainless Steel SUS420J2	1.4031	AISI420
8 ^R	Disc Holder Ring		Stainless Steel SUS420J2	1.4031	AISI420
(9) ^R	Air Vent Ring		Bimetal	_	_
10 ^R	Module Valve Seat		Stainless Steel SUS420F	1.4028	AISI420F
11)R	Inner Module Gasket		Fluorine Resin PTFE	PTFE	PTFE
(12) ^R	Outer Module Gasket		Fluorine Resin PTFE	PTFE	PTFE
(13) ^R	Guide Pin		High-Cr Steel SUJ2	1.2067	A485
14)	Screen Holder		Ductile Cast Iron FCD450	0.7040	A536
(15) ^{MR}	Screen Holder Gasket		Fluorine Resin PTFE	PTFE	PTFE
16	Nameplate		Stainless Steel SUS304	1.4301	AISI304



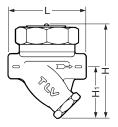
^{*} Equivalent materials



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Dimensions

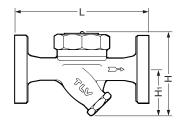
• A3N Screwed



A3N Screwed* (mm)					
	Size	L	Н	H ₁	Weight (kg)
	1/2"	98	122	68	1.5
	3/4″	104	125	69	1.6
	1″	112	133	73	1.8

^{*} BSP DIN 2999, other standards available

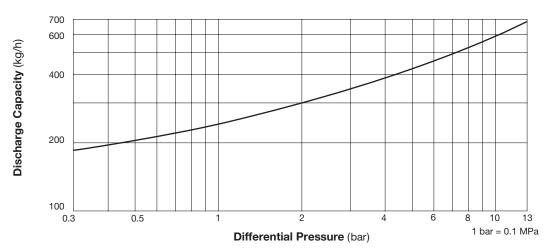
• AF3N Flanged



AF3N Flanged				(mm)	
		L		H ₁	Weight (kg)
	DN	DIN 2501	Н		
_		PN16			
	15	175	120	67	3.4
	20	191	125	71	5.0
	25	211	131	73	6.2

Other standards available, but length and weight may vary

Discharge Capacity



- 1. Differential Pressure is the difference between the inlet and outlet pressure of the trap.
- 2. Recommended safety factor: at least 2.

Manufacturer
TLV. CO., LTD.
Kakogawa, Japan
is approved by LR0A Ltd. to S0 900/14001

