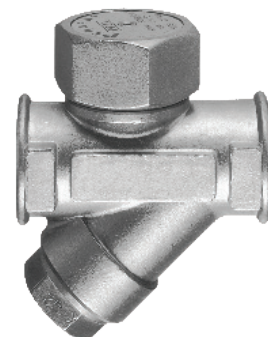


## THE AT-11 STEAM TRAP

with inbuilt strainer, in full stainless steel construction, best suited for header and main line drains and drip legs.



### FEATURES:

1. Complete stainless steel construction ensures better mechanical and corrosion resistance properties. The disc and seat are hardened by a special induction hardening process with seat harder than disc, to withstand continuous, prolonged operation.
2. Condensate entry below the disc, concentric to the disc/seat ensures a clean and parallel lift of the disc with reference to the seat, eliminating localized wear and tear.
3. The inbuilt strainer screen is of adequately large area.
4. Ideal for fluctuating loads and pressures.
5. Perfect shut-off, no steam loss.

**SIZES:** NPS 1/2, 3/4, 1

### CONNECTIONS:

Screwed (NPT/BSPT/BSP), Flanged\*, Socket Weld

\*End connection flanges of ASTM A105 forged carbon steel are welded on.

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	600 psig
TMA: Max. allowable temperature	800 °F
<i>Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.</i>	
Minimum differential pressure for satisfactory operation	3.5 psi
Cold hydro test pressure	900 psig

### INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the disc cap on the top. Full port isolating valves should be installed upstream and downstream of the trap.

### MAINTENANCE:

This trap can be maintained without disturbing the piping connections. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it. **ALLOW THE TRAP TO COOL BEFORE DISMANTLING.**

For trouble-free performance, periodic cleaning of the disc, seat and strainer screen is recommended.

Do not use abrasive/corrosive media for cleaning. Only the disc and seat are subject to wear.

A worn disc can be replaced. Slight seat wear can often be corrected by resurfacing on a lap plate.

### IMPORTANT:

The trap should be installed as close as possible to the line to be drained.

For new pipelines, ensure that the lines are properly flushed, prior to fitting the traps, to avoid strainer choke-up.

### HOW TO SPECIFY - BASIS OF DESIGN:

Steam traps shall be ABFLUIDIX model AT-11, thermodynamic disc type, of all stainless steel construction with hardened stainless steel disc and seat to include an integral strainer. The AT-11 shall be rated for 42 bar (600 psig) AND 425 °C (800 °F), suitable for saturated or superheated steam service, requires no field adjustment, and be installable horizontally or vertically in sizes 1/2 in. through 1 in.

## MATERIAL:

#	Part	Material	QTY
1	Body (Seat Hardened)	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
2	Disc Cap	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
3	Strainer Cap	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
4	Strainer Screen	AISI 304 (Perforated Sheet 0.8)	01
5	Disc (Hardened)	AISI 410	01
6	Cap Shield	Stainless Steel	01

## \*OPTIONAL FITTINGS:

**Cap Shield:** An insulating cover reduces the effect of excessive heat loss resulting from low ambient temperatures, and external elements.

**Blow Down Valve:** When the blow down valve is opened, loose material collected in the strainer is purged.

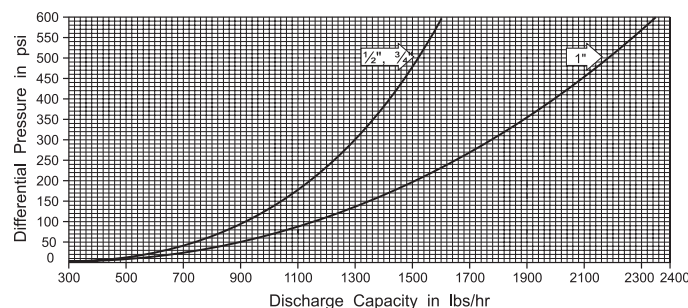
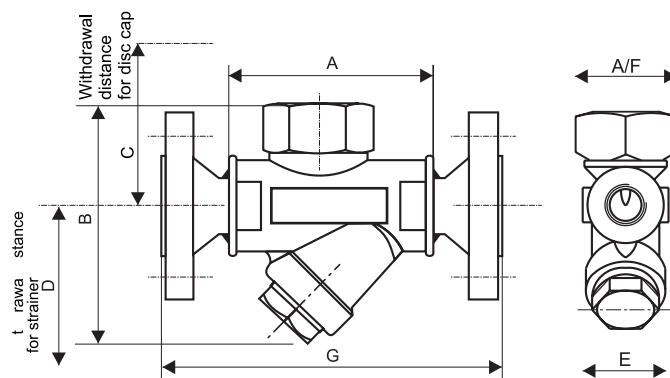
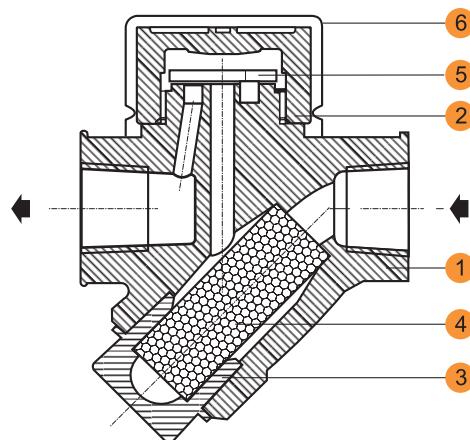
## DIMENSIONS: Nominal in inches

### SCREWED/SOCKET WELD TRAPS

AT-11	A	B	C	D	E	F	Wt.
1/2", 3/4"	3.15	4.00	3.19	3.54	1.60	1.65	2.2 lbs
1"	3.78	4.76	3.58	4.25	2.05	1.97	4.85 lbs

### FLANGED TRAPS

AT-11 Size/ Rating	G	Wt. (approx.)
1/2" / #150	6.18	4.84 lbs
1/2" / #300	6.50	6.16 lbs
1/2" / #600	7.00	6.60 lbs
3/4" / #150	6.30	5.84 lbs
3/4" / #300	6.70	7.72 lbs
3/4" / #600	7.16	8.25 lbs
1" / #150	7.16	9.57 lbs
1" / #300	7.68	12.21 lbs
1" / #600	8.19	12.87 lbs



## AVAILABLE SPARES:

Disc, Strainer Screen (Packet of 5),  
Blow Down Valve, Cap Shield

## ORDERING INFORMATION:

Visit [abfluidix.com](http://abfluidix.com)