

CAPACITY TABLE LBS/HR

Trap	MOP		5	10	20	40	50	65	80	100	125	145	180	200	300	400	465
	BAR	PSI	(.345)	(.690)	(1.38)	(2.76)	(3.45)	(4.50)	(5.52)	(6.90)	(8.62)	(10.0)	(12.4)	(13.8)	(20.7)	(27.6)	(32.1)
FTE-10-1/2"	4.5	65	400	520	700	950	1000	1150									
FTE-14-1/2"	10.0	145	275	380	530	720	800	900	1000	1080	1250	1380					
FTE-43-1/2"	14.0	200	200	290	400	570	640	700	800	900	1020	1100	1240	1300			
FTE-44-1/2"	21.0	300	110	145	200	280	315	350	400	430	480	520	580	610	700		
FTE-44F-1/2"	32.0	465	65	90	120	155	170	200	215	250	280	300	325	345	400	425	440
FTE-10-3/4"	4.5	65	400	520	700	950	1000	1150									
FTE-14-3/4"	10.0	145	275	380	530	720	800	900	1000	1080	1250	1380					
FTE-43-3/4"	14.0	200	200	290	400	570	640	700	800	900	1020	1100	1240	1300			
FTE-44-3/4"	21.0	300	110	145	200	280	315	350	400	430	480	520	580	610	700		
FTE-44F-3/4"	32.0	465	65	90	120	155	170	200	215	250	280	300	325	345	400	425	440
FTE-10-1"	4.5	65	1650	2200	3050	4200	5000	5200									
FTE-43-1"	10.0	145	870	1250	1650	2350	2600	3000	3200	3500	3900	4100					
FTE-44-1"	14.0	200	640	800	1250	1600	1800	2000	2200	2550	2780	2900	3020	3100			
FTE-44F-1"	21.0	300	400	520	700	950	1000	1150	1600	1850	2020	2150	2350	2500	2800		
	32.0	465	275	380	530	720	800	900	1000	1080	1250	1380	1440	1500	1800	2000	2050
FTE-10-1.1/2"	4.5	65	4200	6000	8800	12500	13500	15000									
FTE-43-1.1/2"	10.0	145	2800	3900	5600	8000	9000	10000	11500	13000	14200	15000					
FTE-44-1.1/2"	14.0	200	1800	2600	3600	5000	5450	6000	6900	7800	8600	9000	9650	10000			
FTE-44F-1.1/2"	21.0	300	1800	2600	3600	5000	5450	6000	6900	7800	8600	9000	9650	10000	13000		
	32.0	465	1800	2600	3600	5000	5450	6000	6900	7800	8600	9000	9650	10000	13000	14300	15000
FTE-10-2"	4.5	65	13500	19800	28000	40000	45000	50500									
FTE-43-2"	10.0	145	7300	10000	14500	20000	22500	26000	29000	32000	35000	40000					
FTE-44-2"	14.0	200	3500	5000	6800	9600	10500	12000	13500	15000	16500	17500	19000	20000			
FTE-44F-2"	21.0	300	3500	5000	6800	9600	10500	12000	13500	15000	16500	17500	19000	20000	27000		
	32.0	465	3500	5000	6800	9600	10500	12000	13500	15000	16500	17500	19000	20000	27000	29800	31000

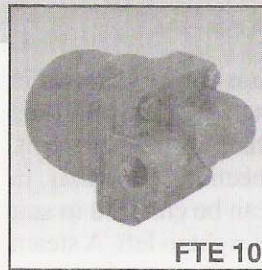
It is solely the responsibility of the system designer and the user to select products and materials suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Assistance shall be afforded with the selection of the materials based on the technical information supplied to Spence Engineering Company, Inc.; however, the system designer and user retain final responsibility. The designer should consider applicable Codes, material compatibility, product ratings and application details in the selection and application. Improper selection, application or use of the products described herein can cause personal injury or property damage. If the designer or user intends to use the product for an application or use other than originally specified, he must reconfirm that the selection is suitable for the new operating conditions.

NICHOLSON
STEAM TRAP
A division of CIRCOR International, Inc.

Spence Eng. Co., Inc.
Nicholson Steam Trap

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SPENCE
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FTE 10



FTE 14



FTE 43



FTE 44



FTE 44F

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**INSTALLATION
AND
MAINTENANCE GUIDE
FOR**

**FLOAT &
THERMOSTATIC
STEAM TRAPS**

PRODUCT DESCRIPTION

NICHOLSON FTE series of ball float & thermostatic traps can be supplied in cast iron, cast steel, stainless steel and S. G. iron body materials. All ball float traps are fitted with an integral balanced pressure type thermostatic air vent. The FTE series is available with horizontal in line connections. However, in case of FTE-14 sizes 1/2" & 3/4", the position of body can be changed to suit different flow directions like left to right, top to bottom or right to left. A steam lock release (SLR) option is available to FTE series Traps.

SAFETY

While working on steam traps consider the risk of getting burned, Therefore remember the following :

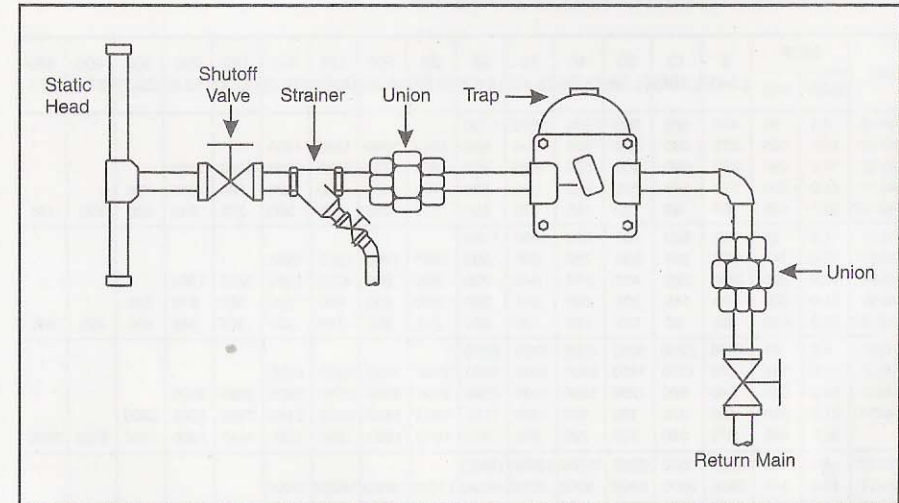
- ◆ The piping parts before and after the steam trap must be atmospheric. Therefore, switch off the steam installation and / or close the necessary valves.
- ◆ Secure the necessary valves and / or switches so that the piping parts stay atmospheric during work.
- ◆ When unscrewing pressurized piping parts hot condensate in the steam trap and steam installation can spontaneously start to boil and be given off as steam. In general the steam trap must be "cold".

INSTALLATION

Traps should be installed in an accessible position and location for easy servicing. The maximum differential pressure (ΔP) stamped on product name plate must be greater than the maximum pressure differential across the trap. Be sure to install trap straight, plumb and in a level position to insure proper operation.

- 1 **Install below and close to equipment being drained, avoid long lengths of horizontal piping ahead of trap.**
- 2 **Pitch all horizontal inlet lines towards the steam trap to help eliminate potential water hammer problems.**
- 3 **A dirt pocket and strainer (with blow down) should always be provided ahead of trap.**
- 4 **Union fittings and shut off valves should be installed on both sides of trap for ease of servicing and trap testing.**
- 5 **Install a test valve in outlet pipe and cap it. This allows trap to be tested. Cap is used as safety precaution when unit is not being tested.**
- 6 **Blowdown piping using full steam pressure for (5) five minutes prior to service. This cleaning process will remove debris from piping.**
- 7 **Perform maintenance and cleaning 2-3 days after startup until system is clean. Then perform maintenance every 6-12 months once in normal operation.**

TYPICAL INSTALLATION



MAINTENANCE

When checked regularly and properly maintained, NICHOLSON FTE series Float & Thermostatic Traps will provide optimum performance and long life. The internals of F & T Trap can be replaced leaving the trap in place. The trap mechanism should be inspected periodically and all dirt removed from working parts. Worn parts must be replaced. The safety measures for replacing a steam trap also apply for opening the cover or body of the steam trap. Always renew the gasket after opening the steam trap.