

December 09

Nicholson NFT Series Free Float Steam Trap ASME Leak Rate

Nicholson Steam Trap, of Walden, New York, announces our NFT Series Free Float Steam Traps for use on process equipment such as heat exchanger, steam coils and reboilers, as well as steam lines, steam cookers, steam heated vats and a host of petrochemical applications.

Available in sizes ½" through 2", with flanged, screwed or socketweld end connections, for pressures to 650 PSIG and temperatures to 750 degrees Fahrenheit, NFT Series Free Float Steam Traps are ideal for both low and super high capacity applications. They perform equally well at both low (less than 20 PSIG) and high pressures and come with a 6 year warranty against defects in material and workmanship.

With our NFT Free Float Steam Trap technology there are no mechanical components to repair or replace, as with mechanical trap technologies such as Inverted bucket or conventional F&T traps. This allows for reduced maintenance, elimination of spikes in equipment performance, and smooth/even flow without high velocity discharge or steam loss. Our stainless steel internal components protect against erosion and corrosion.

A unique feature of the free float trap is the orifice is well below the "water level" and/or 3-point seating eliminates steam leakage on trap discharge. The stainless steel, precision-ground float provides an infinite number of contact surfaces with the valve seat, ensuring little wear and long reliable life.

This trap due to the Free Float ball allows for a variable orifice, which will modulate with the condensate load compared to a conventional F&T with a fixed valve and linkage both having continuous discharge. Nicholson has recently performed the ASME PTC 39.1-2005 leak rate tests on the conventional F&T, Free float and inverted bucket design on a load application to show performance and leak rates. Please see the test results.

PRESS RELEASES

Test Results Per ASME PTC 39.1-2005 ISO 7841

Steam Loss (#/Hr) NO LOAD- Per Code

Free Float Orifice Size: 0.404

F&T Orifice Size: 0.375

Inverted Bucket Size: 0.343

MNFG	TYPE	MODEL	35 PSI	90 PSI
Nicholson	Free Float	NFT252	0.71	3.2
Spirax	F&T	FTB	4.2	7.4
Armstrong	Bucket	815	5.5	7.9

Testing Performed at Spence/Nicholson Laboratory in Walden, NY.

Test per ASME PTC 39.1-2005

Nicholson Steam Trap is an ISO 9001 and ASME certified manufacturer of steam specialty and fluid Control devices including: thermostatic, thermodynamic, mechanical, orifice and sanitary steam traps, air traps, condensate pumps, steam filters, steam separators, gasketed pipe union, fabricate and cast strainers, butterfly, check and triple duty valves

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