

1.3 FLOAT & THERMOSTATIC TRAPS

Traps shall be designed with self-adjusting float-operated mechanism to instantaneously remove condensate as its formed from drip and process applications. The trap is to incorporate a thermostatic element for removal of non-condensable gases and to operate within 15°F of steam saturation temperature.

A. Float & Thermostatic Traps for Drip and Process to 250 Psig (Repairable)



Model	WFT
Sizes	3/4", 1", 1 1/4", 1 1/2", 2"
Connections	NPT
Body Material	Cast Iron
PMO Max. Operating Pressure	250 PSIG
TMO Max. Operating Temperature	Saturated Steam Temperature
PMA Max. Allowable Pressure	250 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 250 PSIG

Steam trap shall be a cast iron body design with parallel pipe inlet and outlet connections threaded NPT mounted on side or cover plate of trap body. All internals shall be stainless steel with hardened seat area. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be located at the high point of the trap body and of a filled thermal element design with stainless steel, welded, encapsulated bellows capable of discharging air and non-condensable gases continuously within 15°F of saturated temperature. All internal trap components shall have the ability to be replaced with the trap cover (body on smaller sizes) remaining in-line. Trap shall be suitable for a maximum saturated steam operating pressure of 250 Psig.

Options include: live orifice air vent for superheated steam, NPT connection for mounting vacuum breaker, NPT drain connection for mounting freeze protection device, steam lock release (SLR).

Watson McDaniel Model: WFT



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B. Float & Thermostatic Traps for Drip and Process to 300 Psig (Repairable)



Model	FIT
Sizes	1/2", 3/4", 1", 1 1/2", 2"
Connections	NPT, 150# FLG (1" - 2")
Body Material	Ductile Iron
PMO Max. Operating Pressure	300 PSIG
TMO Max. Operating Temperature	Saturated Steam Temperature
PMA Max. Allowable Pressure	300 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 300 PSIG

1/2" & 3/4" available in NPT only.

Steam trap shall be a ductile iron body or stainless steel design with NPT or flanged pipe inlet and outlet connections (socket welded option for stainless steel body) on a common centerline. All internals shall be stainless steel with hardened seat area. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be located at the high point of the trap body and of a filled thermal element design with stainless steel, welded, encapsulated bellows capable of discharging air and non-condensable gases continuously within 15°F of saturated temperature. All internal trap components shall have the ability to be replaced with the trap cover (body on smaller sizes) remaining in-line. Trap shall be suitable for a maximum saturated steam operating pressure of 300 Psig.

Options include: live orifice air vent for superheated steam, NPT connection for mounting vacuum breaker, NPT drain connection for mounting freeze protection device, steam lock release (SLR)..

Watson McDaniel Model: FTT, FTTS

C. Float & Thermostatic Traps for High Capacity Process to 200 Psig (Repairable)



Model	FTE	FTES
Sizes	1 1/2", 2", 2 1/2"	2 1/2"
Connections	NPT	NPT, SW, FLG
Body Material	Ductile Iron	Cast Steel
PMO Max. Operating Pressure	200 PSIG	300 PSIG
TMO Max. Operating Temperature	450°F	450°F
PMA Max. Allowable Pressure	300 PSIG up to 450°F	300 PSIG up to 750°F
TMA Max. Allowable Temperature	450°F @ 300 PSIG	750°F @ 300 PSIG

Steam trap shall be a ductile iron body design with parallel pipe inlet and outlet connections threaded NPT mounted on cover plate of trap body. All internals shall be stainless steel with hardened seat area. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be located at the high point of the trap body and of a filled thermal element design with stainless steel, welded, encapsulated bellows capable of discharging air and non-condensable gases continuously within 15°F of saturated temperature. All internal trap components shall have the ability to be replaced with the trap cover (body on smaller sizes) remaining in-line. Trap shall be suitable for a maximum saturated steam operating pressure of 200 Psig@ 450°F.

Options include live orifice air vent for superheated steam, NPT connection for mounting vacuum breaker, NPT drain connection for mounting freeze protection device, steam lock release (SLR).

Watson McDaniel Model: FTE



D. Float & Thermostatic Traps for High Capacity Process to 300 Psig (Repairable)

Steam trap shall be a cast steel body design with parallel pipe inlet and outlet connections threaded NPT, socket weld or flanged, mounted on cover plate of trap body. All internals shall be stainless steel with hardened seat area. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be located at the high point of the trap body and of a filled thermal element design with stainless steel, welded, encapsulated bellows capable of discharging air and non-condensable gases continuously within 15°F of saturated temperature. All internal trap components shall have the ability to be replaced with the trap cover remaining in-line. Trap shall be suitable for a maximum operating pressure of 300 Psig @ 450°F. Options include: live orifice air vent for superheated steam, NPT connection for mounting vacuum breaker, NPT drain connection for mounting freeze protection device, steam lock release (SLR).

Watson McDaniel Model: FTES

E. Float & Thermostatic Traps for Process to 450 Psig (Repairable)



Model	FT600 & FT601*
Sizes	3/4", 1", 1 1/2", 2", 3", 4"
Connections	NPT, SW, FLG
Body Material	Carbon Steel or 316SS
Options	Live Orifice Air Vent
PMO Max. Operating Pressure	450 PSIG
TMO Max. Operating Temperature	750°F
PMA Max. Allowable Pressure	990 PSIG @ 100°F
TMA Max. Allowable Temperature	750°F @ 670 PSIG

* FT601 Body Material is 316 SS
FT600 Body Material is Carbon Steel

Steam trap shall be a carbon or stainless steel body design with NPT, socket welded or flanged pipe inlet and outlet connections on a common centerline. All internals shall be stainless steel with hardened seat area. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be located at the high point of the trap body and of a filled thermal element design with stainless steel, welded, encapsulated bellows capable of discharging air and non-condensable gases continuously within 15°F of saturated temperature. All internal trap components shall have the ability to be replaced with the trap cover remaining in-line. Trap shall be suitable for a maximum operating pressure of 450 Psig @ 750°F. Options include: live orifice air vent for superheated steam, NPT connection for mounting vacuum breaker, NPT drain connection for mounting freeze protection device, steam lock release (SLR).

Watson McDaniel Model: FT600, FT601



F. Float & Thermostatic Traps for Drip and Process to 75 Psig (Repairable)



Model	FT
Sizes	3/4", 1", 1 1/4", 1 1/2", 2"
Connections	NPT
Body Material	Cast Iron
PMO Max. Operating Pressure	75 PSIG
TMO Max. Operating Temperature	Saturated Steam Temperature
PMA Max. Allowable Pressure	75 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 75 PSIG

Steam trap shall be cast iron body with an 'H' Pattern design enabling multiple connection options for installation. Connections shall be threaded NPT. All internals shall be stainless steel with 300 series seat area. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be located at the high point of the trap body and of a filled thermal element design with stainless steel, welded, encapsulated bellows capable of discharging air and non-condensable gases continuously within 15°F of saturated temperature. All internal trap components shall have the ability to be replaced with the trap body remaining in-line. Trap shall be suitable for a maximum saturated steam operating pressure of 75 Psig.

Watson McDaniel Model: FT

