



**NICHOLSON**  
STEAM TRAP

# STEAM TRAPS & STEAM SPECIALTY PRODUCTS



- Thermostatic Steam Traps
- Thermodynamic Steam Traps
- Mechanical Steam Traps
- Clean Steam Products
- Drain Orifice Steam Traps
- Condensate Pumps
- Gasketed Unions
- Strainers & Specialties

# Thermostatic Traps

## N125 SERIES

- Welded stainless steel bellows
- Repairable in-line
- Freezeproof
- For low-to-medium condensate tracing and process
- Pressures to 125 PSIG
- Temperatures to 400°F
- NPT 1/2" or 3/4"

## N450 SERIES

- Welded stainless steel bellows
- Repairable in-line
- Freezeproof
- For process and for tracer and drip leg
- Pressures to 450 PSIG
- Temperatures to 600°F
- NPT or socket weld 1/2" or 3/4"

## LIQUIDATOR 450 SERIES

- Universal two bolt swivel mount for simple installation
- Repairable in-line
- Freezeproof
- Welded stainless steel bellows
- For tracer, drip leg and medium process
- Pressures to 450 PSIG
- Temperatures to 600°F
- Mounting block in NPT or socketweld 1/2", 3/4", 1"

## TA500 SERIES

- Welded stainless steel bellows
- 316L stainless steel body
- Maintenance free
- Freezeproof
- For tracer, drip leg and medium process
- Pressures to 650 PSIG
- Temperatures to 750°F
- NPT or socket weld 3/8", 1/2", 3/4", 1"

## N650 SERIES

- Integral stainless steel strainer and blow down valve
- Welded stainless steel bellows
- Repairable in-line
- Freezeproof
- For tracer, drip leg and process
- Pressures to 650 PSIG
- Temperatures to 750°F
- NPT or socket weld 1/2" or 3/4"

## ACHIEVER A SERIES

- Welded stainless steel bellows
- Repairable in-line
- Freezeproof
- For process equipment
- Pressures to 200 PSIG
- Temperatures to 400°F
- NPT 1/2" to 1"

## BELIEVER B SERIES

- Welded stainless steel bellows
- Repairable in-line
- Freezeproof
- For unit and hot water heaters, coils, steam mains and large heat exchangers
- Pressures to 250 PSIG
- Temperatures to 450°F
- NPT 1/2" to 2"

## CONQUEROR C SERIES

- Welded stainless steel bellows
- Repairable in-line
- Freezeproof
- For unit and hot water heaters, coil, steam mains, dryers and large heat exchangers
- Pressures to 250 PSIG
- Temperatures to 500°F
- NPT or socketweld 1/2" to 2"



N125



N450



Liquidator 450  
Universal Mount



TA500



N650



Achiever A



Conqueror C



Believer B

# Mechanical Traps

## NOVA NFT250 SERIES

- No mechanical linkage
- Modulating continuous discharge
- All stainless steel internals including bellows, float and strainer
- Repairable in-line
- For heavy load process
- Pressures to 250 PSIG
- Temperatures to 450°F
- NPT or flanged 1/2" to 2"

## NOVA NFT650 SERIES

- No mechanical linkage
- Modulating continuous discharge
- All stainless steel internals including bellows, float and strainer
- Repairable in line
- For heavy load process
- Pressures to 650 PSIG
- Temperatures to 750°F
- NPT, socketweld and flanged (#300, #600) 1/2" to 2"

## FTN SERIES

- Conventional F & T
- All stainless steel internals
- Universal four port design available
- Repairable in line
- For process applications
- Pressures to 125 PSIG.
- Temperatures to 450°F
- NPT 3/4" to 2"

## MAX-FLO HC SERIES

- High capacity F & T
- All stainless steel internals
- Two port "C" configuration
- Repairable in line
- For heavy load process
- Pressures to 175 PSIG.
- Temperatures to 377°F
- NPT 1-1/4" to 2-1/2"

## DURA-FLO SERIES

- Conventional inverted bucket trap
- Integral strainer
- All stainless steel internals
- Horizontal and vertical models
- Repairable in-line
- For drip leg and process
- Pressures to 250 PSIG.
- Temperatures to 450°F
- NPT 1/2" to 2" in 13 body configurations



Dura-Flo



Nova NFT 650



FTN



Nova NFT 250



Max-Flo

# Gasketed Unions

## UNIFLEX UNION

- No leak seal equivalent to flange with ease of NPT connection
- No need to spring piping
- Requires only change of spiral wound gasket when disassembled
- For all process and industrial applications
- Pressures to 3000 PSIG
- Temperatures to 850°F
- NPT or socketweld 1/2" to 2"



Uniflex Pipe Coupling



# Thermodynamic Traps

## S610/S650 SERIES

- Steam jacketed
- All stainless steel internals including strainer and blowdown valve
- Repairable in-line with Celtron® cartridge
- For tracer and drip leg
- Pressures to 600 PSIG
- Temperatures to 800/750°F
- NPT or socket weld 3/8" to 3/4"

## NTD 600 SERIES

- Conventional thermodynamic trap
- Optional strainer and/or blowdown valve
- All stainless steel construction
- Repairable in-line
- Freeze resistant
- For tracer and drip leg
- Pressures to 600 PSIG
- Temperatures to 800°F
- NPT or socketweld 3/8" to 1"

## LIQUIDATOR UMT-TD SERIES

- Universal two bolt swivel mount for simple installation
- Repairable in-line with Celtron® cartridge
- Freezeproof
- For tracer, drip leg and light process
- Pressures to 450 PSIG
- Temperatures to 750°F
- Mounting block in NPT or socketweld 1/2", 3/4", 1"



Liquidator UMT-TD Universal Mount



S650



NTD 600B

# Drain Orifice Traps

## DFA

- Maintenance free, no moving parts
- Easy to install
- Freezeproof
- Resists thermal and hydraulic shock
- Spiral wound inlet strainer gasket with 60 mesh domed screen
- For ANSI B16.5 flange applications
- Pressures to 2500 PSIG
- Temperatures to 750°F
- For flanged 1/2" to 2"

## DUA

- Maintenance free, no moving parts
- Easy to install
- Freezeproof
- Resists thermal and hydraulic shock
- Spiral wound inlet strainer gasket with 60 mesh domed screen
- Pressures to 3000 PSIG
- Temperatures to 850°F
- NPT or socketweld 1/2" to 1"



DFA



DUA

# Clean Steam

## CDS SERIES

- Inconel bellows
- Free draining, fail open
- Self centering conical valve
- Sanitary clamp for easy disassembly
- For CIP/SIP and sterilization
- Pressures to 100 PSIG.
- Temperatures to 338°F.
- Sanitary clamp 1/2" to 1-1/2"

## CDH SERIES STEAM TRAP

- Inconel bellows
- Free draining, fail open
- Swivel connections
- Self centering conical valve
- Sanitary clamp for easy disassembly
- For CIP/SIP and sterilization
- Pressures to 100 PSIG.
- Temperatures to 338°F.
- Sanitary clamp 1/2" and 3/4"

## DS100 SERIES STEAM TRAP

- Welded 316L stainless steel bellows
- Free draining, fail open
- Maintenance free
- For CIP/SIP and sterilization
- Pressures to 150 PSIG.
- Temperatures to 366°F.
- Sanitary clamp or tube 1/2" to 1"

## DS200 SERIES STEAM TRAP

- Inconel bellows
- Self centering conical valve
- Free draining, fail open
- Maintenance free
- For drip leg and sterilization
- Pressures to 500 PSIG.
- Temperatures to 500°F.
- NPT 1/2" to 1"

## NTD 230L SERIES STEAM TRAP

- Conventional thermodynamic trap
- All 316L stainless steel construction
- Repairable in-line
- Freeze resistant
- For tracer, drip leg and sterilization
- Pressures to 150 PSIG.
- Temperatures to 850°F.
- 1/2" sanitary clamp

## STEAM SCRUBBER SANITARY FILTER

- All stainless steel construction
- Double O-ring EPDM gasket seals
- High porosity sintered filter media in 1, 5, and 25 micron
- Single clamp closure
- For clean steam filtering
- Pressures to 145 PSIG.
- Temperatures to 353°F.
- NPT, welded, flanged or sanitary clamp 1/2" to 3"



CDH



CDS



DS100



DS200



Steam Scrubber



NTD230L

# Piping Specialties

## ELIMINATOR STEAM SEPARATOR

- Internal baffle extracts nearly all moisture and solids above 10 microns
- No moving parts - maintenance free
- For dry steam, compressed air and gas systems
- Capacities to 35,000 lbs/hr
- Pressures to 600 PSIG; Temperatures to 650°F
- NPT, socketweld or flanged 1/2" to 6"

## TAV THERMOSTATIC AIR VENT

- Removes air from steam systems
- Isopropyl filled stainless steel bellows
- 316L stainless steel body
- Maintenance free and freezeproof
- Pressures to 650 PSIG ; Temperatures to 750°F
- NPT or socket weld 3/8" to 1"

## MINI-DRAIN

- Removes condensate from compressed air systems
- Compact, durable, lightweight
- Muffler reduces noise and diffuses moisture
- Pressures to 600 PSIG
- Temperatures to 220°F
- NPT 1/8" or 3/8"

## PNEUMATIC MUFFLER

- Compact, durable, lightweight, non-corrosive
- Reduces noise levels to OSHA standards
- For exhaust air in pneumatic systems
- Pressures to 600 PSIG
- Temperatures to 220°F
- Male NPT 1/8" to 1/2"

## STV TRAP TEST & BLOCKING VALVE

- Provides for quick visual check of steam trap operation
- Bottom loaded stem and packing nut
- Compact body is easy to install
- Pressures to 250 PSIG
- Temperatures to 406°F
- NPT 1/2" and 3/4"



Eliminator  
Steam  
Separator



TAV



Mini-Drain



STV



Pneumatic  
Muffler

# Strainers

## Y TYPE

- Low pressure drop, streamlined design
- Large strainer screens
- Compact end to end dimension
- Cast Iron, Ductile Iron, Bronze, Carbon Steel, Chrome Moly, Stainless Steel
- Pressures to 3705 psi; Temperatures to 800°F
- Flat Face, Raised Face, RTJ Flanged, Butt weld, Threaded, Socketweld, Sweat 1/4" to 16"

## BASKET

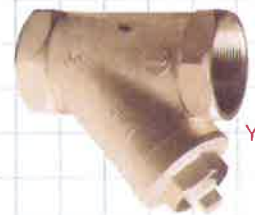
- Filtration down to 40 microns
- Large strainer baskets
- Compact and high capacity units available
- Cast Iron, Bronze, Carbon Steel, Stainless Steel
- Pressures to 740 psi; Temperatures to 800°F
- Flat Face, Raised Face, Butt weld, Threaded, Socketweld 1/2" to 20"

## FABRICATED

- Standard line of Temporary, Tee, Y, Basket and Duplex Strainers
- Custom engineered strainers
- Automated self cleaning strainers/systems
- Carbon Steel, Chrome Moly, Stainless Steel, Monel, Alloy 20, Hastelloy, Titanium
- Pressures to 3600 psi; Temperatures to 800°F
- Flat Face, Raised Face, RTJ Flanged, Butt weld, Threaded, Socketweld 1/4" to 48" and larger



Basket



Y Type



Duplex



# Condensate Pumps

## CONDENSATE COMMANDER PUMP

- Powered by steam or compressed gas
- ASME Code stamped tank
- All stainless steel snap acting mechanism retrofits many manufacturers' units
- For condensate pumping where electricity is impractical
- Pressures to 250 PSIG
- Temperatures to 650°F
- Capacities exceed 48,000 lbs/hr
- Vertical and horizontal models
- NPT or flanged 1" x 1" to 4" x 4"



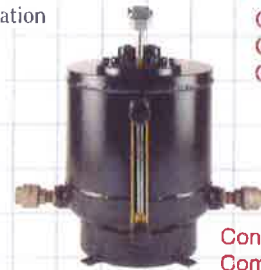
Condensate Commander Horizontal Pump

## CONDENSATE COMMANDER SKID SYSTEM

- Standard system includes one or more pumps, receiver tank and all connections
- Customized systems to meet unique space and/or capacity requirements
- Prefabricated system facilitates quick installation
- Capacities exceed 200,000 lbs/hr



Condensate Commander Skid System



Condensate Commander Little Boy Pump



Condensate Commander Classic Pump

# Butterfly Valves

## 125 BUTTERFLY VALVES

- Wafer or lug body style fits between FF or RF flanges
- Blowout proof one piece shaft and pinned disc provide positive disc-to-seat location and maximum strength
- Non-collapsible phenolic back seat and 360° polished disc assures positive shutoff
- Four bushing ensure maximum shaft support and centralized alignment
- Universal ISO 5211 mounting pad
- Cast or ductile iron body; plated ductile iron, aluminum bronze or 316 stainless steel disc with resilient seat

## BUTTERFLY DAMPER VALVES

- Fits between FF or RF flanges
- Bushing or bearing shaft support provides centralized alignment
- Suitable for bi-directional flow and full vacuum service
- ANSI Class I shutoff standard; up to ANSI Class IV shutoff optional
- Universal ISO 5211 mounting pad available
- Steel or stainless steel body and disc with resilient or metal seat

## BUTTERFLY VALVE ACCESSORIES

- Pneumatic Actuators
- Electric Actuators
- Solenoids
- Limit Switches
- Positioners
- Shaft Extensions
- 2-way and 3-way Tee Linkages
- Chain Wheels



Pneumatic Actuator



125 Butterfly Valve



Butterfly Damper Valve

# NICHOLSON STEAM TRAP

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Nicholson Steam Trap was founded in 1883 and produced a variety of steam specialty products at their facility in Wilkes-Barre, Pennsylvania. Trap manufacturing was begun early in the twentieth century and in the 1930's, Nicholson pioneered a wide range of bellows-activated thermostatic traps. Nicholson, today builds a broad selection of thermostatic, mechanical, thermodynamic and drain orifice traps as well as a number of steam specialty products in their modern facility at Walden, New York.

The Nicholson Steam Trap product line is focused on the industrial marketplace and features traps ranging from highly polished stainless steel sanitary traps and filters to innovative free float F&T traps. Nicholson thermostatic traps are known throughout the industry for their value and durability. Equally respected in naval yards are Nicholson orifice traps, offering long life and easy maintenance. The steam powered Condensate Commander Pump and the Uniflex Gasketed Union continue the Nicholson tradition of providing high performance, value-oriented products to the industrial marketplace.

Nicholson Steam Trap is an ISO 9001 manufacturer of a full line of steam specialties including steam traps, condensate pumps, sanitary steam products, air traps and gasketed unions. Nicholson Steam Trap is part of Spence Engineering Company, Inc., a division of Circor International, a NYSE company.

### **Local Technical Support**

Nicholson Steam Trap has a network of highly trained Representatives around the world who can direct you to local inventory of our products for fast delivery. They have the expertise to assist you in system design and product specification, assuring the best, most cost effective solution for your needs.

### **Technical Training**

We offer a regular schedule of workshops covering various technical issues in our state of the art Valve Technology Training Center. We can also schedule customized on-site training sessions to suit your particular needs.



Find out more about the companies of Circor International at [www.circor.com](http://www.circor.com)