



UNITED
Engineering Corporation

BALL FLOAT TRAPS



The Ball Float controlled traps are designed for draining condensate from all types of Low, Medium and High pressure steam heating and process systems and equipments. This also includes Air and gas systems.

The United Float controlled trap is Simple, Rugged, Dependable and Versatile and can be adapted to function as:

- Steam Trap.
- Auto Drain Trap
- Air Vent Valve
- Float Valve
- Feed Control Valve
- Drain Control Valves
- Moisture Separator
- Condensate lifting pump.

The Traps are available in high quality CI, Carbon Steel, and Stainless Steels, in Horizontal as well as Vertical / Right angle constructions, with assured trouble free performance for any specific applications..



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Quality Solutions for Flow Control Requirements

20/22, Nagdevi Street, P.B.No. 3450, Mumbai - 400 003 ■ : +91-22-2343 6281 / 2341 5519 / 2341 2537 Fax : +91-22-2340 0211
E-mail : sales@valves-n-actuators.com / flowlineengineers@vsnl.com Visit us at : www.valves-n-actuators.com



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FLOAT CONTROLLED STEAM TRAP & AUTO DRAIN TRAP

Designed for outstanding performance

Simple and sturdy design



Function

*Increasing level opens and
Decreasing level closes the outlet
Proportionately. Independent of
pressure And temp. fluctuations.
Very simple operational check
And air venting possible through
Stainless steel check valve. The
Simple & Sturdy design of rotary
Valves assures you of the reliable
And trouble free operation of trap
Without any steam / air leakage.*

Pressure Range End Connections

*Vacuum to 320 kg / cm²
15 NB to 100 NB
Welded / Flanged / Screwed.*

Media

*Steam, compressed air,
Compressed gases.*

Discharge Capacity

*Up to 48000 kg/hour
United ball float controlled units are
of continuous discharged type and
discharge the condensate
proportionate to the rate of
accumulation.*

*These units can handle high
Starting load and are also
Suitable for very low as well as
Very high loads. These units can
be fitted with light floats for
Media with density less than one.
Horizontal / Right angle.*

Installation

ADVANTAGES

- Only one moving part.
- Simple system, working parts manufactured from high grade corrosion resistant stainless steel.
- Insensitive to contamination.
- Extremely long working life.
- Extremely low maintenance.
- Proportional control action.
- Independent of pressure and temperature fluctuations
- Impact-free and silent condensate discharge in exact quantity.
- No whirlpool effect, consequently no loss of steam.
- Can work even at 95% back pressure.
- Can work at very low differential pressure



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For Liquid Lines



Function	<i>United ball float type vents are designed for automatic venting of air or gas from any liquid. the presence of gas in casing lowers the float and opens the outlet.</i>
Pressure Range	<i>Up to 63 kg/cm²</i>
End Connections	<i>15 NB to 200 NB Flanged / Screwed / Welded.</i>
Air Venting Capacity	<i>Up to 1250 nm³ / h</i>
Installation	<i>At highest point of equipment with vertical inlet from bottom</i>
Application	<i>For venting of Water/ Oil pipe lines, storage tanks and other process equipments</i>

LEVEL CONTROL VALVE AS FEED CONTROL



Pressure Range	<i>Up to 100 kg/cm²</i>
End connections	<i>15 NB to 200 NB Flanged / screwed</i>
Capacity	<i>Up to 48000 Kg/h</i>
Installation	<i>As per example</i>
Application	<i>Security a predetermind max Liquid level. Suitable for various media i.e Water, oil, liquid ammonia and</i>





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MOISTURE SEPERATORS



Function **United** high efficiency moisture Separators are specifically designed for the extraction of liquid particles from air / gas flow.

A rotary motion is imparted to the air / gas flow by means of a guiding device with a high circulatory velocity. The particles, water droplets contained in the air / gas are flung on to the seperator wall by centrifugal force and are collected at the bottom. The cleaned dry air / gas leaves the seperator through a central dip tube.

The collected moisture at the bottom of seperator casing is automatically drained by Auto drain trap.

The collecting chamber is fitted with a cover plate which prevents the seperated moisture being picked up again and carried forward.

***United** moisture seperators cannot become clogged and their performance remains constant with a uniform / low pressure drop.*

*Pressure Range : Up to 63 Kg/Cm²
Sizes : 40NB to 250NB. Flanged
Media : Steam / compressed air /gas*



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