Design Features

Thermax	Competition
Rotary slide valve mechanism	Float - Lever Mechanism
Modulating discharge (Proportional control action)	On-Off discharge
Immersion Tube - Gas tight shutoff & ensures smooth flow of condensate to outlet port	The entire office is suddenly exposed to outlet leads to on-off discharge of condensate
Operate effectively even of smaller differential pressure of 0.01 bar	Limiting differential pressure is 0.1 bar.
They are insensitive to back pressure and their operation is not affected by pressure fluctuations	Operation is affected by pressure fluctuation
Can handle sudden surge loads of condensate due to higher body housing dimensions	Can't handle sudden surge load due to compact design
Relatively suitable to handle water hammer condition	Not suitable for water hammer condition.
Ball float failure rate is rare as float is fusion welded and uses no filler metal during welding process.	More prone to failure of ball float as float is welding by TIG welding due to which there is possibility of float failure due to thermal stresses acting on two dissimilar materials.

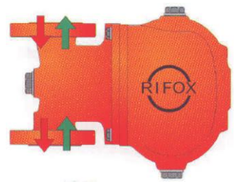
Applications

Float controlled steam trap is an ideal choice for removal of condensate from process heating equipment such as heat exchangers, storage tank coils, drying cyclinders, reactors, jacketed vessels, ovens etc.
Float controlled steam traps find applications in various process industries such as :

- Chemicals & Fertilizers
- Refinery & Petrochemical
- Edible Oil
- Rubber & Tyre
- Dairy
- Paper
- Sugar
- Hotels & Hospitality
- Textile
- Tobacco

Different Directions of Flow

For installation in vertical pipes in both directions, i.e. From top and bottom.



For installation in horizontal pipes in both directions, i.e. From left and right.

THERMAX

www.thermaxglobal.com

Publication No. :

Ver. 0 - Apr 2019

Registered Office

D-13, MIDC Industrial Area,
R D Aga Road, Chinchwad,
Pune 411019, India

enquiry@thermaxglobal.com

Customer Care: 1800-209-0115

www.linkedin.com/company/thermax

Thermax Business Portfolio

- Heating
- Cooling
- Steam Engineering
- Air Pollution Control
- Chemicals
- Water and Wastewater Solutions
- Solar
- Power

RIFOX
A Thermax Group Company

THERMAX

Energy Environment Solutions for Sustainable Growth

Float Steam Traps

STEAM ENGINEERING

Why Steam Traps ?

A Steam trap is an automatic valve which closes to trap steam & opens to discharge condensate, air & non-condensable gases from the steam system. Float controlled steam trap is an ideal choice for removal of condensate from process heating equipment such as heat exchangers, storage tank coils, drying cylinders, jackets, reactors, jacketed vessels, ovens etc.

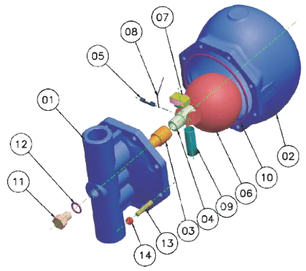
To be the most preferred solution provider in the field of energy management that delivers a delightful experience to its clients with its products and services in the chosen geographies of operation.

Technical Specifications

Models

VARIO 1090

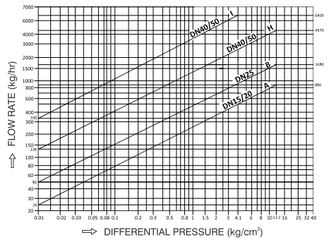
Exploded View



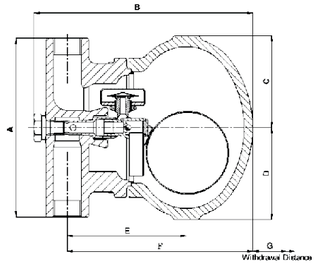
Materials

No.	Component	Material	Specification	
01	Housing screwed	Cast Iron	IS 210 Gr. FG 260	
02	Body housing	Cast Iron	IS 210 Gr. FG 260	
03	Drain support tube	St. Steel	ASTM A276 Type 304	
04	Drain tube	St. Steel	ASTM A276 TYPE 304	
05	Rotary slide valve	St. Steel	ASTM A276 TYPE 440B	
06	Float	St. Steel	ASTM A240 Type 304	Control Unit Assembly
07	Capsule Assembly	St. Steel	SS 304	
08	Ventilation nozzle	St. Steel	SS 304	
09	Immersion tube	St. Steel	ASTM A312 Type 304	
10	Housing gasket (SWG)	St. Steel + Graphite	ASTM A240 Type 304 + Graphite	
11	Supporting screw	St. Steel	ASTM A276 TYPE 304	
12	Supporting screw gasket	St. Steel	ASTM A276 Type 304	
13	Stud	St. Steel	ASTM A193 Grade B7	
14	Hex. Nut	St. Steel	ASTM A194 Grade 2H	

Capacity Chart



Dimension & Weight



Size	A	B	C	D	E	F	G	Wt.
DN 15 (½")	121	210	85	85	120	190	120	7.8
DN 20 (¾")	121	210	85	85	120	190	120	7.8
DN 25 (1")	145	280	110	110	160	235	140	14.0
DN 40 (1.½")	270	330	145	145	190	290	180	27.0
DN 50 (2")	300	330	145	145	190	290	180	28.0

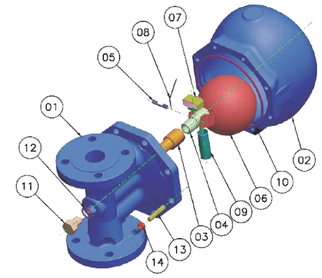
Body Design Conditions

Parameter	Screwed End
Maximum Operating Pressure - PMO (kg/cm²)	13.2
Maximum Operating Temperature - TMO (°C)	220
Hyd. Test (kg/cm²)	26.4

Models

VARIO 1290

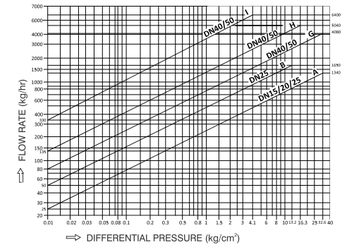
Exploded View



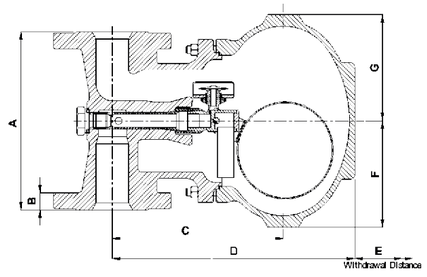
Materials

No.	Component	Material	Specification	
01	Housing Flanged	Cast Steel	ASTM A216 Gr. WCB	
02	Body housing	Cast Steel	ASTM A216 Gr. WCB	
03	Drain support tube	St. Steel	ASTM A276 Type 304	
04	Drain tube	St. Steel	ASTM A276 TYPE 304	
05	Rotary slide valve	St. Steel	ASTM A276 TYPE 440B	
06	Float	St. Steel	ASTM A240 Type 304	Control Unit Assembly
07	Capsule Assembly	St. Steel	SS 304	
08	Ventilation nozzle	St. Steel	SS 304	
09	Immersion tube	St. Steel	ASTM A312 Type 304	
10	Housing gasket (SWG)	St. Steel + Graphite	ASTM A240 Type 304 + Graphite	
11	Supporting screw	St. Steel	ASTM A276 TYPE 304	
12	Supporting screw gasket	St. Steel	ASTM A276 Type 304	
13	Stud	St. Steel	ASTM A193 Grade B7	
14	Hex. Nut	St. Steel	ASTM A194 Grade 2H	

Capacity Chart



Dimension & Weight



Size	A	B	C	D	E	F	G	Wt.
DN 15 (½")	150	18.5	180	240	130	115	115	13.0
DN 20 (¾")	150	18.5	180	240	130	115	115	14.5
DN 25 (1")	160	18.5	185	245	130	115	115	15.0
DN 40 (1.½")	230	22.6	225	320	180	145	145	31.0
DN 50 (2")	230	22.6	225	320	180	145	145	32.0

Body Design Conditions

Parameter	Flanged
Maximum Operating Pressure - PMO (kg/cm²)	32.6
Maximum Operating Temperature - TMO (°C)	425
Hyd. Test (kg/cm²)	65.2