

TSD-42,42F

ULTRA STEAM TRAP
TRAP STAR™

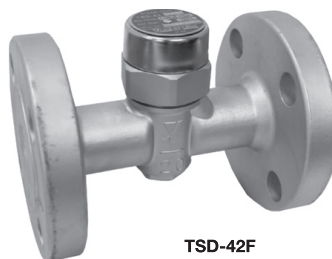
Bucket	Float	Disc	Bellows
Bimetal	Wafer	By-pass	Stainless steel
Connector	Side to side	Down to Up	Up to Down

■Features

1. Stainless steel used for main parts, making a contribution to improve corrosion resistance.
2. Since it can operate under 425°C temperature and 4.2 MPa pressure conditions, it can be applied in various types of industries, such as heavy, light, and general industries.
3. Bimetal solves air-binding problem and ensures a smooth discharge of cold condensate or air at the start of operation, enabling steam equipment to efficiently start to run.
4. "Insulation cover" avoids frequent on-off operation.
5. Plumbing is easy to perform because it can be installed vertically or horizontally as desired.



TSD-42



TSD-42F

■Specifications

Model		TSD-42	TSD-42F			
Nominal Size		10-25A	15-25A			
Application		Steam condensate				
Working pressure		0.035-4.2 MPa	0.035-1.0 MPa*1	0.035-2.0 MPa*1	0.035-3.0 MPa*1	0.035-4.2 MPa*1
Allowable back pressure		50% or less of inlet pressure				
Maximum temperature		425°C	300°C*1	425°C*1		
Material	Body	Stainless steel (SCS2A)				
	Disc, seat	Stainless steel (special heat treatment)				
Connection		JIS Rc, NPT, BSPT screwed	JIS10KRF	JIS20KRF	JIS30KRF	JIS40KRF

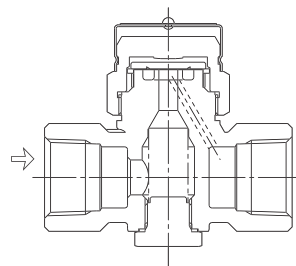
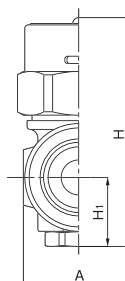
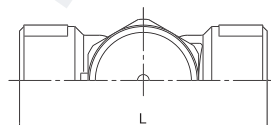
*Available with ASME flanged and EN standard connection.

*1 Relationship between the max. pressure and the max. temperature is according to the JIS B2220 Pressure - temperature rating.

■Dimensions (mm) and Weights (kg)

•TSD-42

Nominal size	L	H	H _i	A	Weight
10A	78	76	23	32	0.65
15A	78	76	23	32	0.6
20A	85	79	24	38	0.7
25A	95	86	27.5	45	0.9



■Dimensions (mm) and Weights (kg)

·TSD-42F (JIS 10・20KRF)

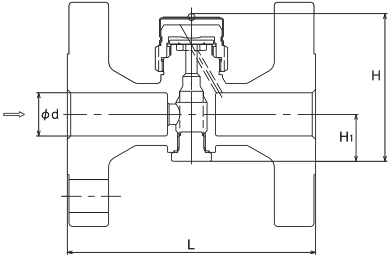
Nominal size	d	L	H	H ₁	Weight
15A	15	127	76	23	2.0
20A	20	131	79	24	2.4
25A	25	131	86	27.5	3.5

·TSD-42F (JIS 30KRF)

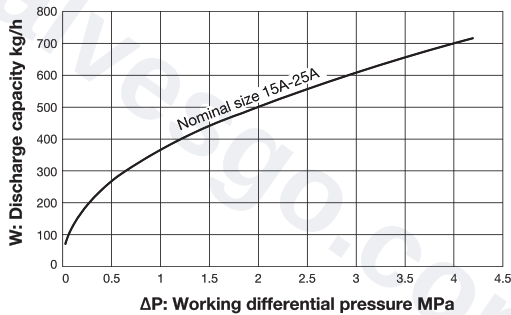
Nominal size	d	L	H	H ₁	Weight
15A	15	135	76	23	3.4
20A	20	135	79	24	3.6
25A	25	139	86	27.5	4.6

·TSD-42F (JIS 40KRF)

Nominal size	d	L	H	H ₁	Weight
15A	15	139	76	23	3.6
20A	20	139	79	24	4.0
25A	25	144	86	27.5	5.0



■Maximum Continuous Discharge Capacity (10A~25A)



- To select the product size, secure the safety factor of 4 to 5. For example, if you need a steam trap with a capacity of 100 kg/h, the trap with a capacity of 400 to 500 kg/h should be selected for maximum efficiency.
- The back pressure (outlet pressure) should be considered in selecting discharge capacity. This is because discharge capacity of a trap depends on the operating differential pressure (the difference between the inlet and the outlet pressure). For example, to find the discharge capacity obtained by the inlet pressure is 1.0 MPa and the outlet pressure is 0.2 MPa, trace up from the point of the operating differential pressure of 0.8 MPa in the above chart.

■Installation Posture

