



THERMODYNE STEAM TRAP

MODEL P21S STAINLESS STEEL

COMPACT THERMODYNAMIC DISC TRAP

Features

Stainless steel and compact for tracing, instrumentation, and steam mains.

1. Hardened working surfaces for long life.
2. Lapped disc provides steam-tight seal.
3. Air jacketing reduces cycling and extends life.
4. Built-in screen for extended trouble-free service.
5. Small connections for ease of installation.



Specifications

Model	P21S
Connection	Screwed
Size	1/4", 3/8", 1/2"
Maximum Operating Pressure (barg) PMO	21
Minimum Operating Pressure (barg)	Horizontally installed: 0.25, vertically installed: 0.4
Maximum Back Pressure	80% of Inlet Pressure
Maximum Operating Temperature (°C) TMO	400

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 42 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 400

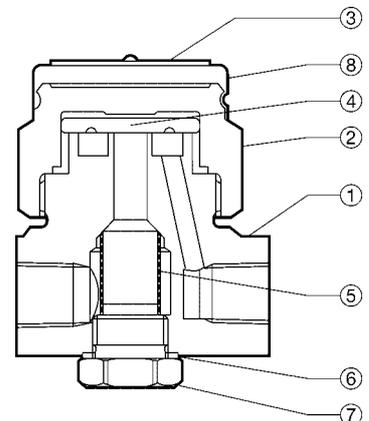


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*	
①	Body	1/4", 3/8"	Stainless Steel SUS420J2	1.4031	AISI420
		1/2"	Cast Stainl. Stl. SCS2A	1.4027	A743 Gr.CA40
② ^R	Cover	Stainless Steel SUS420F2	—	AISI420F2	
③ ^R	Nameplate	Stainless Steel SUS304	1.4301	AISI304	
④ ^R	Disc	Stainless Steel SUS420J2	1.4031	AISI420	
⑤ ^R	Screen	Stainless Steel SUS430	1.4016	AISI430	
⑥ ^{MR}	Holder Gasket	1/4", 3/8"	Stainless Steel SUS316L	1.4404	AISI316L
		1/2"	Soft Iron SUYP	1.1121	AISI1010
⑦	Screen Holder	1/4", 3/8"	Stainless Steel SUS303	1.4305	AISI303
		1/2"	Carbon Steel S25C	1.1158	AISI1025
⑧ ^R	Cap	Stainless Steel SUS304	1.4301	AISI304	

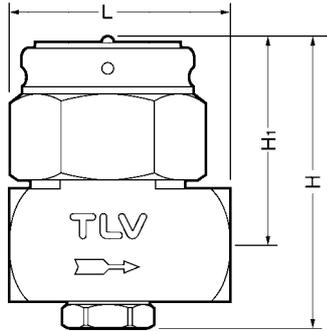
* Equivalent materials

Replacement Kits available: (M) maintenance parts, (R) repair parts



Dimensions

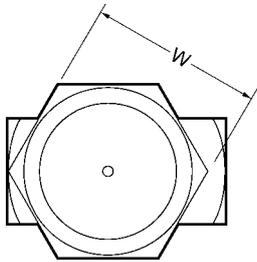
● **P21S**
Screwed



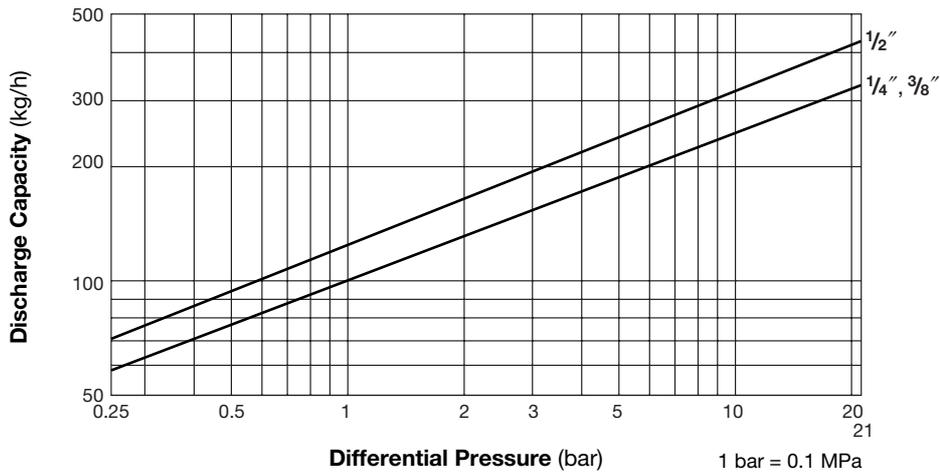
P21S Screwed* (mm)

Size	L	H	H ₁	W	Weight (kg)
1/4"	48	63	46	38	0.33
3/8"					
1/2"	50	65			0.42

* BSP DIN 2999, other standards available



Discharge Capacity



1. Differential pressure is the difference between inlet and outlet pressure of the trap.
2. Recommended safety factor: at least 2.

ISO 9001/ISO 14001

