



PowerDyne® STEAM TRAP

MODEL P46S

COMPACT THERMODYNAMIC DISC TRAP

Features

Stainless steel trap with built-in Y-strainer for reliable performance in tracing, instrumentation, and steam mains.

1. Hardened stainless steel working surfaces for long service life.
2. Air-jacketing reduces no-load cycling and extends service life.
3. Lapped disc provides steam-tight seal for long service life.
4. Built-in screen for extended trouble-free service.



Specifications

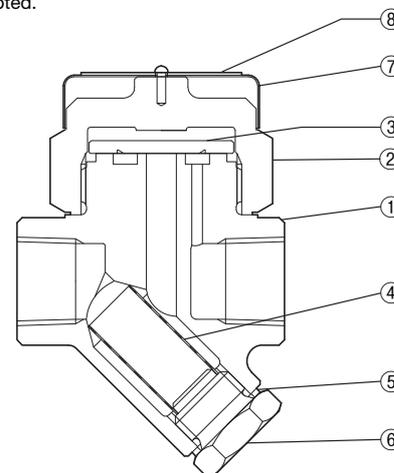
Model	P46S	
Connection	Screwed	
Size (mm)	8, 10, 15	
Maximum Operating Pressure (MPaG) PMO	4.6*	
Minimum Operating Pressure (MPaG)	0.03	
Maximum Operating Temperature (°C) TMO	425	
Maximum Back Pressure	80% of Inlet Pressure	

* For best performance over extended periods, it is recommended that the trap be operated at or below 2.1 MPaG. 1 MPa = 10.197 kg/cm²
 PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.6
 Maximum Allowable Temperature (°C) TMA: 425

CAUTION 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.

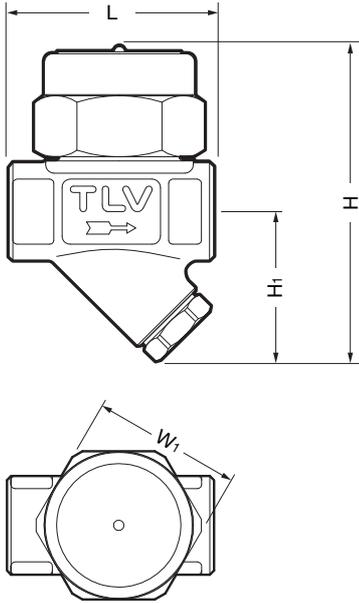
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Stainless Steel	—	A743 Gr.CA40
② ^R	Cover	Stainless Steel	SUS420F2	AISI420F2
③ ^R	Disc	Stainless Steel	SUS420J2	AISI420
④ ^R	Screen	Stainless Steel	SUS430	AISI430
⑤ ^{MR}	Screen Holder Gasket	Stainless Steel	SUS316L	AISI316L
⑥	Screen Holder	Stainless Steel	SUS303	AISI303
⑦ ^R	Cap	Stainless Steel	SUS304	AISI304
⑧ ^R	Nameplate	Stainless Steel	SUS304	AISI304

* Equivalent
 Replacement kits available: (M) maintenance parts, (R) repair parts



Dimensions

● **P46S** Screwed



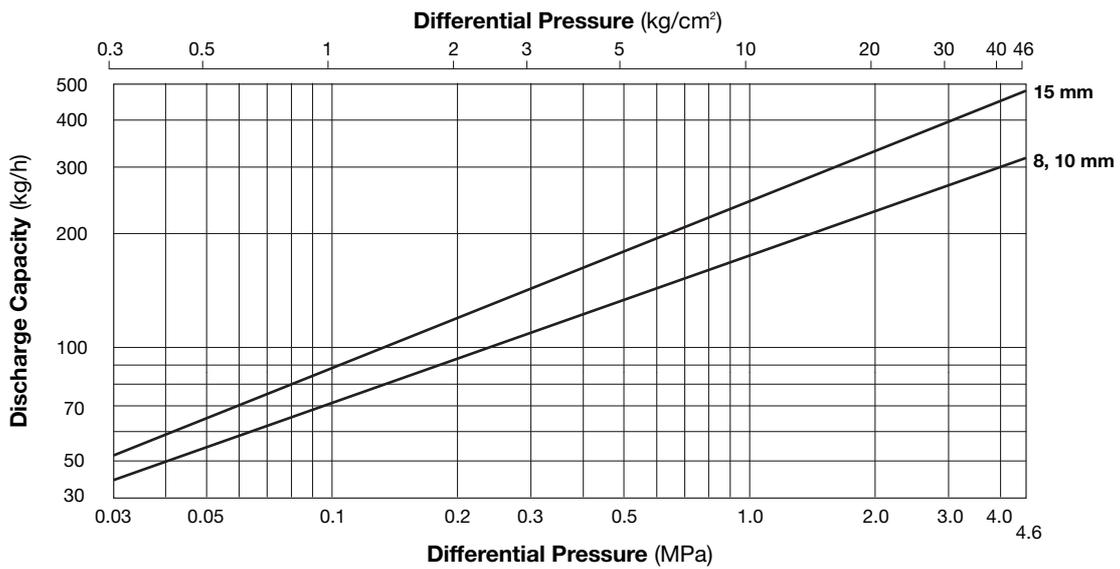
P46S Screwed*

(mm)

Size	L	H	H ₁	W ₁	Weight (kg)
8	50	77	37	36	0.35
10					
15	68	82	39		0.46

* Rc(PT), other standards available

Discharge Capacity



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

Manufacturer

ISO 9001/ISO 14001

TLV® CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

