

PowerDyne STEAM TRAP

Model : P46SRN / P46SRM / P46SRW (Thermodynamic Disc Trap With Thermostatic air Venting)

Features

Inline repairable trap for steam mains, tracers and coils, with wide capacity range to match various conditions. Available in carbon steel or stainless steel.

1. Inline replaceable valve module.
2. Air jacketing reduces no-load cycling.
3. Lapped disc provides steam-tight seal without air binding.
4. Built-in screen for trouble-free service.
5. Bimetal ring provides quick thermostatic air venting.
6. Hardened stainless steel working surfaces.



Specifications

Model	P46SRN			P46SRM			P46SRW						
Body Material	Carbon Steel (A105)		Stainless Steel* (A182 F304)	Carbon Steel (A105)		Stainless Steel* (A182 F304)	Cast Steel (A216 Gr.WCB)						
Connection	Screwed	S.Welded	Flanged	Screwed	S.Welded	Screwed	Welded	Flanged	Screwed	S.Welded	Screwed	Welded	Flanged
Size (mm)	15, 20, 25			15, 20, 25			25			25,32,40,50			
Max.Operating Press. (MPaG) PMO				4.6									
Min. Operating Press. (MPaG)				0.03									
Max. Operating Temp. (°C) TMO				425									
Maximum Back Pressure	80% of inlet pressure												
Max.Allowable Press.(MPaG) PMA**	8.2 @ 40°C		8.9 @ 40°C	8.2 @ 40°C		8.9 @ 40°C	7.6 @ 40°C						
Max.Allowable Temp.(°C) TMA**	425 @ 5.0MPaG		550 @ 4.6MPaG	425 @ 5.0MPaG		550 @ 4.6MPaG	425 @ 4.6MPaG						

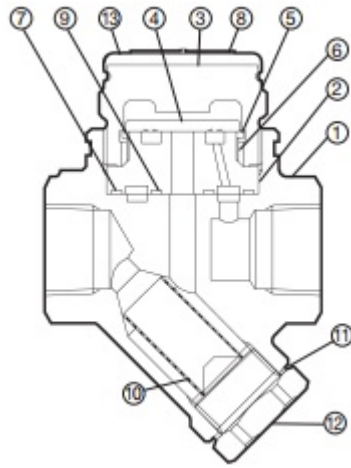
*Contact TLV for optional flanged stainless steel model.

1MPa = 10.197 kg/cm²

Standard TLV coating is applied to stainless steel models as well.

**PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS). Refer to Pressure Temperature Rating section on reverse side for details.

CAUTION : To avoid abnormal operation, accidents of 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	Materials	JIS	ASTM/AISI*
1	Body	See Specifications table for available materials		
2 (R)	Module Valve Seat	Stainless Steel	SUS420F	AISI420F
3 (R)	Cover	Stainless Steel	SUS420F2	AISI420F2
4 (R)	Disc	Stainless Steel	SUS420J2	AISI420
5 (R)	Disc Holder Ring	Stainless Steel	SUS420J2	AISI420
6 (R)	Air Vent Ring	Bimetal	-	-
7 (MR)	Outer Module Gasket	Graphite/Stainless Steel	-/SUS316L	-/AISI316L
8 (R)	Nameplate	Stainless Steel	SUS304	AISI304
9 (MR)	Inner Module Gasket	Graphite/Stainless Steel	-/SUS316L	-/AISI316L
10 (R)	Screen inside/outside	Stainless Steel	SUS304/430	AISI304/430
11 (MR)	Screen Holder Gasket	Soft Iron Stainless Steel**	SUS316L SUS316L	AISI316L AISI316L
12	Screen Holder	Cast Stainless Steel	-	A351 Gr.CF8
13 (R)	Cap	Stainless Steel	SUS304	AISI304
14	Flange***	Carbon Steel	-	A105

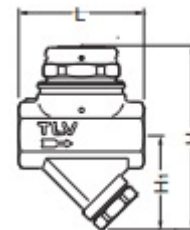
*Equivalent **For models with stainless steel body ***Shown overleaf

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

Dimensions

P46SRN / P46SRM / P46SRW Screwed* (mm)

Size	L	H	H1	Weight (kg)
15	80	120	62	1.2
20				
25	88	125 (129)		1.4 (1.6)

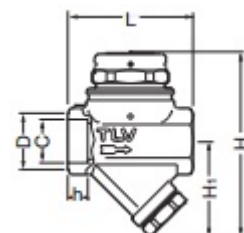


() Model P46SRW

*Rc (PT), other standards available

P46SRN / P46SRM / P46SRW Socket Welded (mm)

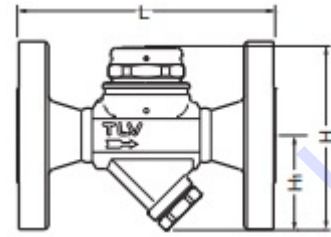
DN	L	H	H1	φD	φC	h	Weight (kg)
15	80	120	62	30	22.2	13	1.2
20				36	27.7		
25	88	125 (129)		44	34.5	13 (14)	1.4 (1.6)



() Model P46SRW

P46SRN / P46SRM / P46SRW Flanged (mm)

DN	L			H	H1	Weight* (kg)
	ASME Class					
	150RF	300RF	600RF			
15	140	140	140	120	62	3.3
20	165	165	165			4.7
25	210	210	210	120 (129)		6.1 (5.7)
32**				74		
40**				129		9.8
50**	220	220	220			12



() Model P46SRW

Other standards available, but length and weight may vary

*Weight is for Class 600 RF **P46SRW only

KRUNG THAI EQUIPMENT CO., LTD.