PowerDyne® STEAM TRAP

MODEL P65SRN CARBON STEEL STAINLESS STEEL

THERMODYNAMIC DISC TRAP WITH THERMOSTATIC AIR VENTING

Features

Inline repairable trap for high-pressure steam mains. 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.

Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

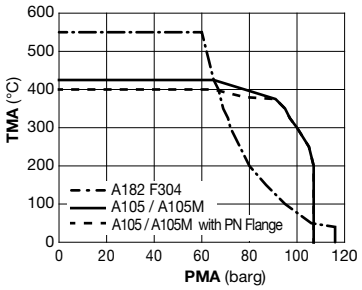
Size	Category	CE marking
DN 15 to 25	—*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

* Manufactured in accordance with sound engineering practice

Specifications

Model		P65SRN				
Body Material		Carbon Steel A105/A105M[1]			Stainless Steel[2] A182/A182M F304 (equivalent to 1.4301)	
Connection[3]		S	SW	F	S	SW
Size (mm)		½″, ¾″, 1″	DN15, 20, 25		½″, ¾″, 1″	DN15, 20, 25
Maximum Operating Pressure (barg)	PMO	65				
Minimum Operating Pressure (barg)		0.3				
Maximum Operating Temperature (°C)	TMO	400[4] / 425				
Maximum Back Pressure		80% of Inlet Pressure				
Maximum Allowable Pressure (barg)	PMA[5]	107 @ 40 °C			116 @ 40 °C	
Maximum Allowable Temperature (°C)	TMA[5]	400[4] / 425 @ 65 barg			550 @ 60 barg	
Minimum Allowable Temperature (°C)		0			-40	

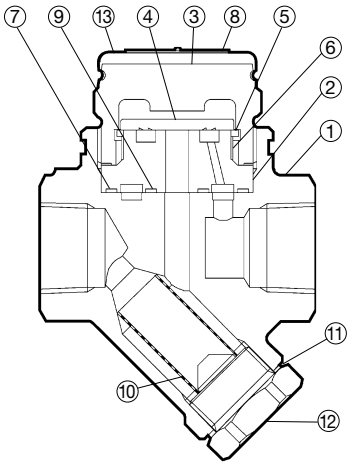
Pressure-Temperature Rating[6]



[1] With ASME Flange [2] Contact TLV for optional flanged stainless steel model. 1 bar = 0.1 MPa
[3] S = Screwed, SW = Socket Welded, F = Flanged [4] With PN Flange
[5] PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS)
[6] This Rating Graph is based on Allowable Stress Values of ASTM-Materials at each temperature.

⚠ 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.

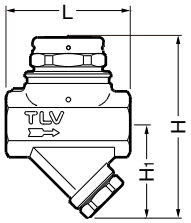
No.	Description	Material	DIN [1]	ASTM/AISI [1]
①	Body	See Specifications table for available materials		
②R	Module Valve Seat	Stainless Steel SUS440C	1.4125	AISI440C
③R	Cover	Stainless Steel A182/A182M F304	1.4301	—
④R	Disc	Stainless Steel SUS440C	1.4125	AISI440C
⑤R	Disc Holder Ring	Stainless Steel SUS630	1.4542	AISI630
⑥R	Air Vent Ring	Bimetal	—	—
⑦MR	Outer Module Gasket	Graphite/Stainl. Stl. SUS316L	- /1.4404	- /AISI316L
⑧R	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑨MR	Inner Module Gasket	Graphite/Stainl. Stl. SUS316L	- /1.4404	- /AISI316L
⑩R	Screen inside/outside	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430
⑪MR	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
		Stainless Steel SUS316L [2]	1.4404	AISI316L
⑫	Screen Holder	Cast Stainl. Steel A351/A351M Gr.CF8	1.4312	—
⑬R	Cap	Stainless Steel SUS304	1.4301	AISI304
⑭	Socket [3] (DN25 Socket Welded)	Carbon Steel A105/A105M	1.0460	—
		Stainless Steel SUS304 [2]	1.4301	AISI304
⑮	Flange [4]	Carbon Steel A105/A105M	1.0460	—



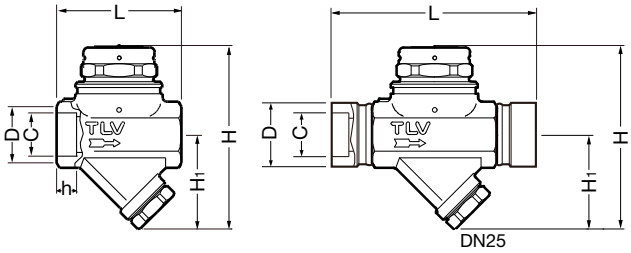
[1] Equivalent materials [2] For models with stainless steel body [3] Shown on reverse
[4] Shown on reverse, shape and material depend on flange specifications
Replacement kits available: (M) maintenance parts, (R) repair parts

Dimensions

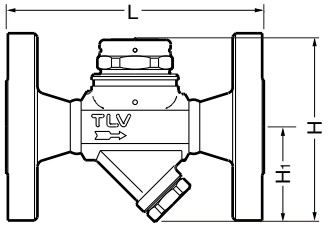
● **P65SRN** Screwed



● **P65SRN** Socket Welded



● **P65SRN** Flanged



P65SRN Screwed* (mm)

Size	L	H	H1	Weight (kg)
1/2″	80	120	62	1.2
3/4″				
1″	88	125		1.4

* BSP DIN 2999, other standards available

P65SRN Socket Welded (mm)

DN	L	H	H1	ϕD	ϕC	h	Weight (kg)
15	80	120	62	30	21.8	13	1.2
20	88	125		44	27.2		1.4
25	150			50	33.9	14	1.7

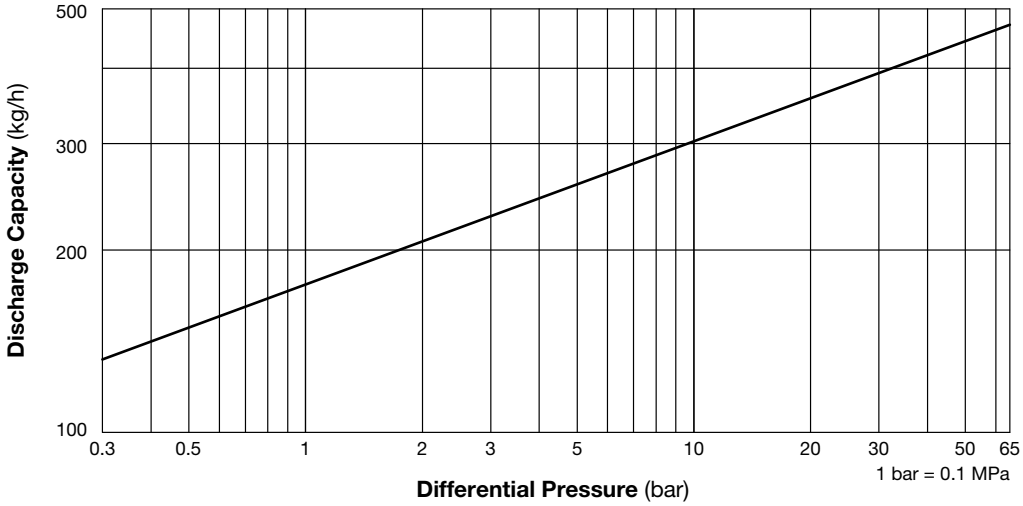
* ASME B16.11-2005, other standards available

P65SRN Flanged (mm)

DN	L						H	H1	Weight** (kg)
	DIN 2501		ASME Class*						
	PN25/40	PN63	150RF	300RF	600RF	900RF			
15	150	150	140	140	140	170	120	62	2.7 (3.6)
20		—	165	165	165	195			3.7
25	160	160	210	210	210	220			5.0 (7.0)

Other standards available, but length and weight may vary
* Length and weight of optional stainless steel model may differ
** Weight is for PN 25/40, ( ) for PN 63

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

ISO 9001
ISO 14001

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