



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)

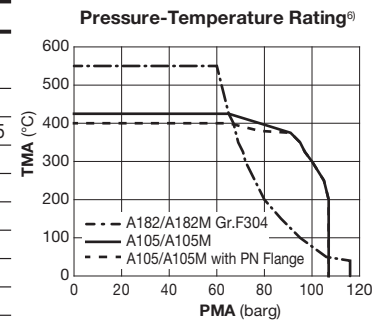
Classification according to PED 2014/68/EU, fluid group 2

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					
	Carbon Steel A105/A105M ¹⁾			Stainless Steel ²⁾ A182/A182M Gr.F304 (equivalent to 1.4301)		
Body Material						
Connection ³⁾	S	SW	F	S	SW	
Size (mm)	1/2", 3/4", 1"		DN15, 20, 25	1/2", 3/4", 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		



¹⁾ With ASME Flange ²⁾ Contact TLV for optional flanged stainless steel model. 1 bar = 0.1 MPa

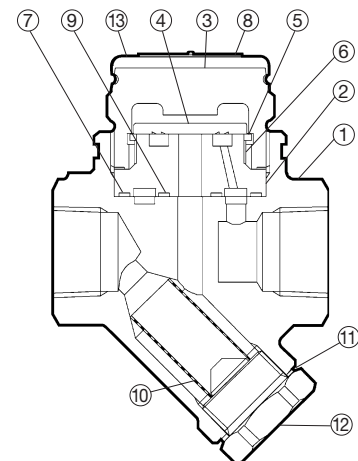
³⁾ S = Screwed, SW = Socket Welded, F = Flanged ⁴⁾ With PN Flange

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		
② ^R	Module Valve Seat	Stainless Steel SUS440C	1.4125	AISI440C
③ ^R	Cover	Stainless Steel A182/A182M Gr.F6a Cl.2	1.4066	—
		Stainless Steel A182/A182M Gr.F304	—	—
④ ^R	Disc	Stainless Steel SUS440C	1.4125	AISI440C
⑤ ^R	Disc Holder Ring	Stainless Steel SUS630	1.4542	AISI630
⑥ ^R	Air Vent Ring	Bimetal	—	—
⑦ ^{MR}	Outer Module Gasket	Graphite/Stainl. Stl. SUS316L	- /1.4404	- /AISI316L
⑧ ^R	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑨ ^{MR}	Inner Module Gasket	Graphite/Stainl. Stl. SUS316L	- /1.4404	- /AISI316L
⑩ ^R	Screen inside/outside	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430
⑪ ^{MR}	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI11010
		Stainless Steel SUS316L ²⁾	1.4404	AISI316L
⑫	Screen Holder	Carbon Steel A105/A105M	1.0460	—
		Cast Stainless Steel A351/A351M Gr.CF8	1.4312	—
⑬ ^R	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	—



Copyright © TLV

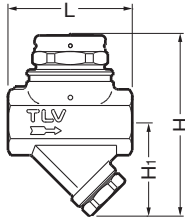
¹⁾ Equivalent materials ²⁾ For models with stainless steel body ³⁾ Shown on reverse

⁴⁾ Shown on reverse, shape and material depend on flange specifications

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

Dimensions

● **P65SRN** Screwed

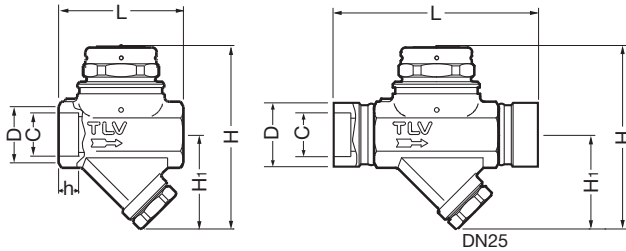


P65SRN Screwed* (mm)

Size	L	H	H ₁	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

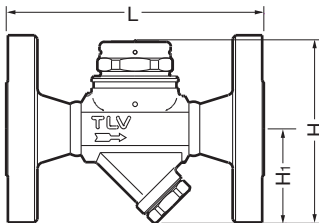


P65SRN Socket Welded (mm)

DN	L	H	H ₁	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

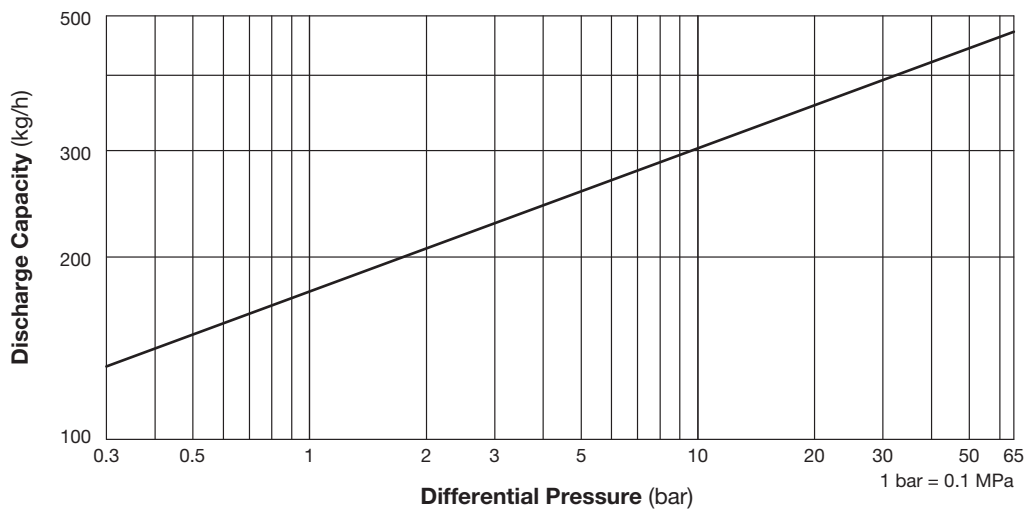


P65SRN Flanged (mm)

DN	L						H	H ₁	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

