



# PowerDyne® STEAM TRAP

MODEL **P46UC-Y QuickTrap®**  
STAINLESS STEEL Trap Unit

**UNIVERSAL THERMODYNAMIC DISC TRAP UNIT WITH THERMOSTATIC AIR VENTING**

## Features

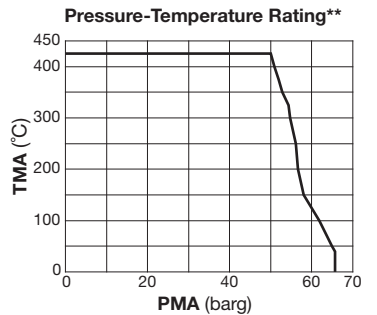
Inline replaceable and cleanable 2-bolt universal flange steam trap unit featuring a built-in screen with a large surface area for use with connector units that don't include a screen. For steam mains, tracers, and coils.

1. Two-bolt flange, and module valve seat permit replacement in minutes without disturbing piping.
2. Universal flange allows trap to be easily positioned in the correct attitude, regardless of pipeline configuration.
3. Integrated screen ensures trouble-free operation.
4. Air jacketing reduces cycling and extends life.
5. Quick thermostatic air venting with bimetal ring for fast start-up.
6. Lapped disc provides steam-tight seal without air binding.
7. Hardened stainless steel working surfaces.



## Specifications

Model	P46UC-Y	
Connection	Two Bolt Universal Flange	
Maximum Operating Pressure (barg) PMO	46	
Minimum Operating Pressure (barg)	0.3	
Maximum Operating Temperature (°C) TMO	425	
Maximum Allowable Pressure (barg) PMA*	66 @ 40 °C	
Maximum Allowable Temperature (°C) TMA*	425 @ 50 barg	
Maximum Back Pressure	80% of Inlet Pressure	
Applicable Connector Units	Spirax Sarco: PC10, Armstrong: Standard Connector (neither includes a screen)	



\* PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS) 1 bar = 0.1 MPa

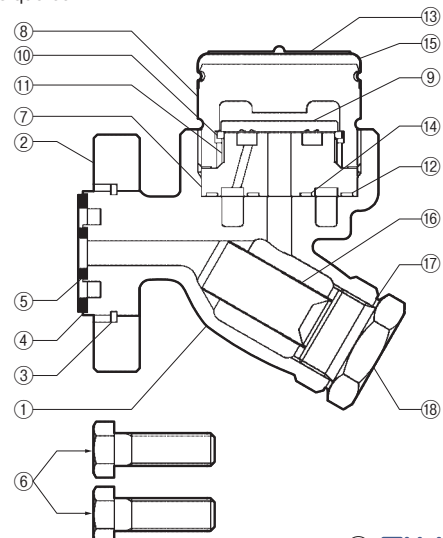
\*\* This Rating Graph is based on Allowable Stress Values of ASTM-Materials at each temperature.

**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*	ASTM/AISI*
①	Trap Body	Cast Stainless Steel A351 Gr.CF8	1.4312	—
②	Connector Flange	Carbon Steel A105	1.0460	—
③	Snap Ring	Carbon Steel SWRH57	1.0535	AISI1055
④ <sup>MR</sup>	Outer Connector Gasket	Graphite/Stainless Steel SUS304	- /1.4301	- /AISI304
⑤ <sup>MR</sup>	Inner Connector Gasket	Graphite/Stainless Steel SUS304	- /1.4301	- /AISI304
⑥	Connector Bolt	Carbon Steel SNB7	1.7225	A193 Gr.B7
⑦ <sup>R</sup>	Module Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑧ <sup>R</sup>	Cover	Stainless Steel SUS420F2	—	AISI420F2
⑨ <sup>R</sup>	Disc	Stainless Steel SUS420J2	1.4031	AISI420
⑩ <sup>R</sup>	Disc Holder Ring	Stainless Steel SUS420J2	1.4031	AISI420
⑪ <sup>R</sup>	Air Vent Ring	Bimetal	—	—
⑫ <sup>MR</sup>	Outer Module Gasket	Graphite/Stainless Steel SUS316L	- /1.4404	- /AISI316L
⑬ <sup>R</sup>	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑭ <sup>MR</sup>	Inner Module Gasket	Graphite/Stainless Steel SUS316L	- /1.4404	- /AISI316L
⑮ <sup>R</sup>	Cap	Stainless Steel SUS304	1.4301	AISI304
⑯ <sup>R</sup>	Screen inside/outside	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430
⑰ <sup>MR</sup>	Screen Holder Gasket	Stainless Steel SUS316L	1.4404	AISI316L
⑱	Screen Holder	Cast Stainless Steel A351 Gr.CF8	1.4312	—

\* Equivalent materials

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



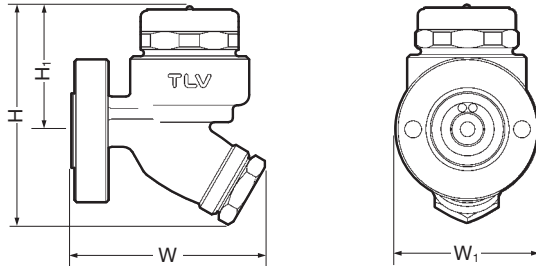
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**Dimensions**

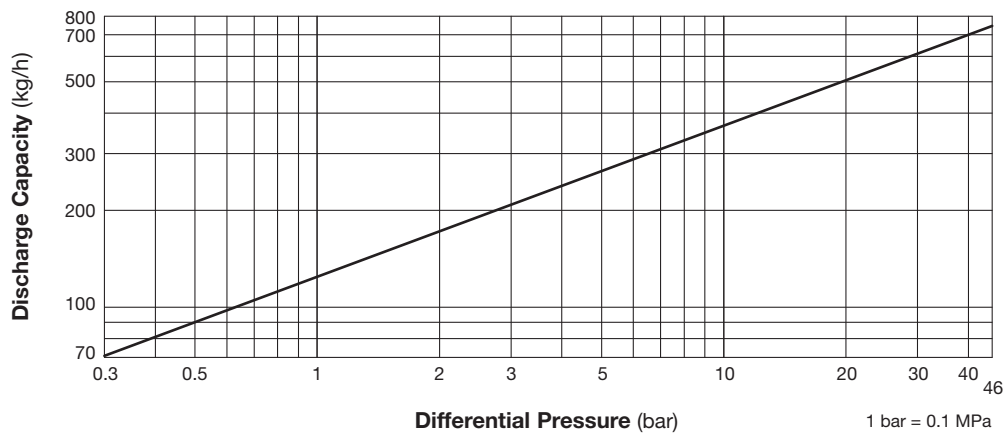
● **P46UC-Y** Universal Flange

**P46UC-Y** Universal Flange (mm)

H	H <sub>1</sub>	W	W <sub>1</sub>	Weight (kg)
105	60	90	67	1.3



**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

