



# PowerDyne<sup>®</sup> STEAM TRAP

## MODEL P46UC-Y QuickTrap<sup>®</sup> Trap Unit

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

#### Benefits

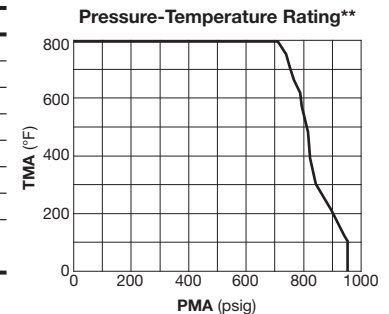
**Inline replaceable and cleanable 2-bolt universal flange steam trap unit featuring a built-in screen with a large surface area for use with connector units that do not include a screen. For steam mains, tracers, and coils.**

1. Two-bolt flange, and module valve seat permit replacement in minutes without disturbing piping.
2. Universal flange allows trap installation in optimum position, regardless of pipeline configuration.
3. Integrated screen provides protection from dirt and debris.
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 for long service life.



#### Specifications

Model	P46UC-Y	
Connection	Two-Bolt Universal Flange	
Maximum Operating Pressure (psig)	PMO	650
Minimum Operating Pressure (psig)		5
Maximum Operating Temperature (°F)	TMO	800
Maximum Allowable Pressure (psig)	PMA*	953 @ 100 °F
Maximum Allowable Temperature (°F)	TMA*	800 @ 710 psig
Maximum Back Pressure		80% of Inlet Pressure
Applicable Connector Units	Spirax Sarco: PC10, Armstrong: Standard Connector (neither include a screen)	



\* PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS)

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

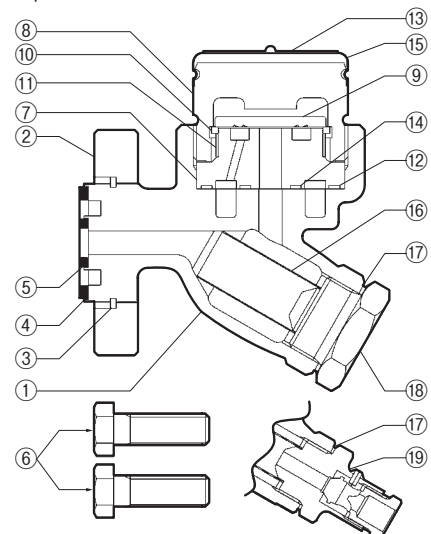


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI*	JIS
①	Trap Body	Cast Stainless Steel	A351 Gr.CF8	—
②	Connector Flange	Carbon Steel	A105	—
③	Snap Ring	Carbon Steel	AISI1055	SWRH57
④ <sup>MR</sup>	Outer Connector Gasket	Graphite/Stainless Steel	-/AISI304	-/SUS304
⑤ <sup>MR</sup>	Inner Connector Gasket	Graphite/Stainless Steel	-/AISI304	-/SUS304
⑥	Connector Bolt	Carbon Steel	A193 Gr.B7	SNB7
⑦ <sup>R</sup>	Module Valve Seat	Stainless Steel	AISI420F	SUS420F
⑧ <sup>R</sup>	Cover	Stainless Steel	A182 F304	—
⑨ <sup>R</sup>	Disc	Stainless Steel	AISI420	SUS420J2
⑩ <sup>R</sup>	Disc Holder Ring	Stainless Steel	AISI420	SUS420J2
⑪ <sup>R</sup>	Air Vent Ring	Bimetal	—	—
⑫ <sup>MR</sup>	Outer Module Gasket	Graphite/Stainless Steel	-/AISI316L	-/SUS316L
⑬ <sup>R</sup>	Nameplate	Stainless Steel	AISI304	SUS304
⑭ <sup>MR</sup>	Inner Module Gasket	Graphite/Stainless Steel	-/AISI316L	-/SUS316L
⑮ <sup>R</sup>	Cap	Stainless Steel	AISI304	SUS304
⑯ <sup>R</sup>	Screen	Stainless Steel	AISI430	SUS430
⑰ <sup>MR</sup>	Screen Holder Gasket	Stainless Steel	AISI316L	SUS316L
⑱	Screen Holder	Cast Stainless Steel	A351 Gr.CF8	—
⑲	BD2 Blowdown Valve**	Cast Stainless Steel	A351 Gr.CF8	—

\* Equivalent \*\* Option

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

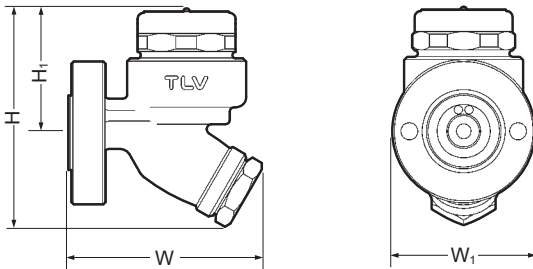


**Dimensions**

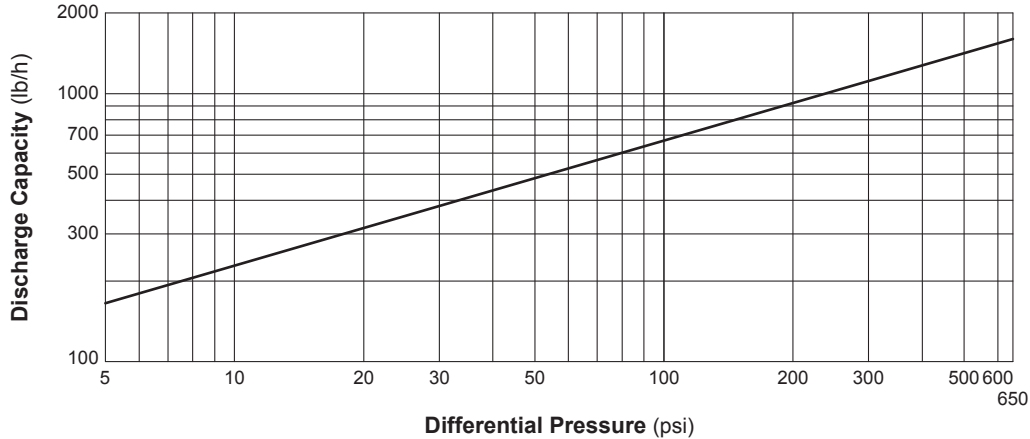
● **P46UC-Y** Universal Flange

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

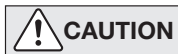
H	H <sub>1</sub>	W	W <sub>1</sub>	Weight (lb)
4 1/8	2 5/8	3 9/16	2 5/8	2.9



**Discharge Capacity**



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



**CAUTION** DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

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

