



# PowerDyne® STEAM TRAP

## MODEL P46UC-Y QuickTrap® 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 do not include a screen. For steam mains, tracers, and coils.

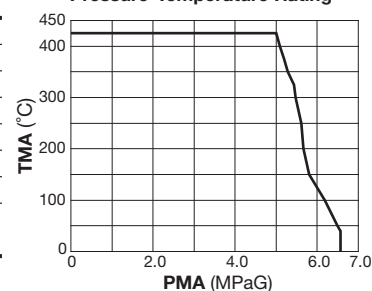
1. Two-bolt flange, and module valve seat permit replacement in minutes without disturbing piping.
2. Universal flange allows trap to be easily positioned in the correct attitude, regardless of pipeline configuration.
3. Integrated screen ensures trouble-free operation.
4. Air jacketing reduces cycling 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 (MPaG) PMO	4.6
Minimum Operating Pressure (MPaG)	0.03
Maximum Operating Temperature (°C) TMO	425
Maximum Allowable Pressure (MPaG) PMA*	6.6 @ 40 °C
Maximum Allowable Temperature (°C) TMA*	425 @ 5.0 MPaG
Maximum Back Pressure	80% of Inlet Pressure
Applicable Connector Units	Spirax Sarco: PC10, Armstrong: Standard Connector (neither include a screen)

Pressure-Temperature Rating\*\*



\* PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS) 1 MPa = 10.197 kg/cm<sup>2</sup>

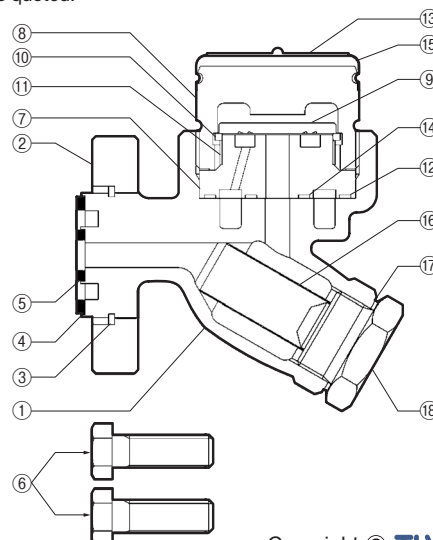
\*\* This Rating Graph is based on Allowable Stress Values of ASTM-Materials at each temperature.

**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	JIS	ASTM/AISI*
①	Trap Body	Cast Stainless Steel	—	A351 Gr.CF8
②	Connector Flange	Carbon Steel	—	A105
③	Snap Ring	Carbon Steel	SWRH57	AISI1055
④ <sup>MR</sup>	Outer Connector Gasket	Graphite/Stainless Steel	SUS304	- /AISI304
⑤ <sup>MR</sup>	Inner Connector Gasket	Graphite/Stainless Steel	SUS304	- /AISI304
⑥	Connector Bolt	Carbon Steel	SNB7	A193 Gr.B7
⑦ <sup>R</sup>	Module Valve Seat	Stainless Steel	SUS420F	AISI420F
⑧ <sup>R</sup>	Cover	Stainless Steel	—	A182 F304
⑨ <sup>R</sup>	Disc	Stainless Steel	SUS420J2	AISI420
⑩ <sup>R</sup>	Disc Holder Ring	Stainless Steel	SUS420J2	AISI420
⑪ <sup>R</sup>	Air Vent Ring	Bimetal	—	—
⑫ <sup>MR</sup>	Outer Module Gasket	Graphite/Stainless Steel	SUS316L	- /AISI316L
⑬ <sup>R</sup>	Nameplate	Stainless Steel	SUS304	AISI304
⑭ <sup>MR</sup>	Inner Module Gasket	Graphite/Stainless Steel	SUS316L	- /AISI316L
⑮ <sup>R</sup>	Cap	Stainless Steel	SUS304	AISI304
⑯ <sup>R</sup>	Screen inside/outside	Stainless Steel	SUS304/430	AISI304/430
⑰ <sup>MR</sup>	Screen Holder Gasket	Stainless Steel	SUS316L	AISI316L
⑱	Screen Holder	Cast Stainless Steel	—	A351 Gr.CF8

\* Equivalent

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

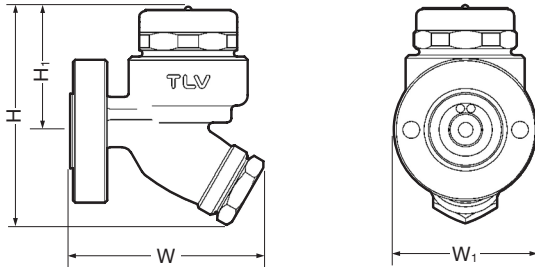


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**Dimensions**

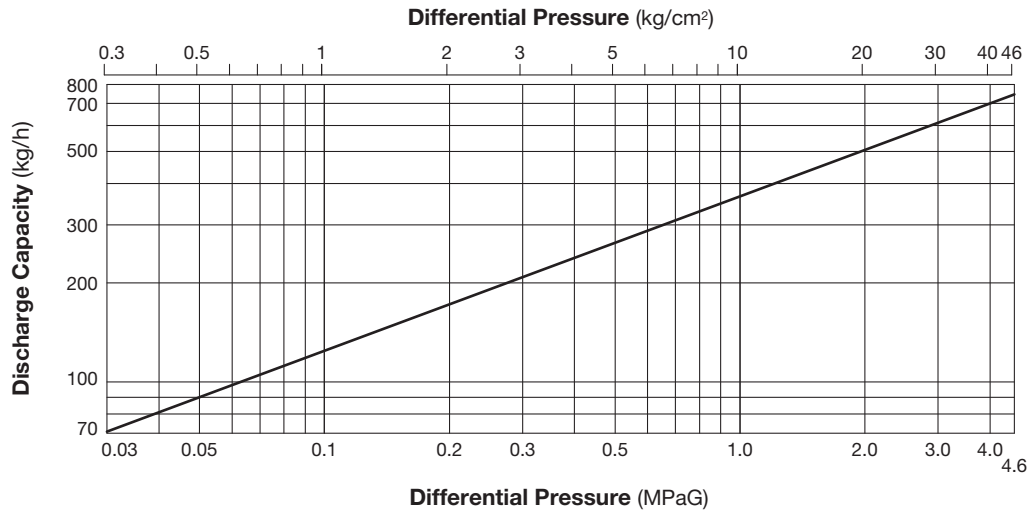
● **P46UC-Y** Universal Flange

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

