# **PowerDyne** STEAM TRAP TLV MODEL FP46UC QuickTrap®

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

#### **Benefits**

#### Inline replaceable and cleanable 2-bolt universal flange steam trap with high air venting capability. For steam mains, tracers and coils.

- 1. Two-bolt flange connector, replaceable trap unit and module valve seat permit replacement in minutes without disturbing piping.
- 2. Universal flange permits trap installation in optimum position regardless of piping.
- 3. Screen is located in connector to provide protection while keeping replacement costs low.
- 4. Connector gaskets are easily replaced after cleaning to allow for trap unit reuse.
- 5. Air-jacketing reduces no-load cycling and extends service life.
- 6. Quick thermostatic air venting with bimetal ring for fast start-up.
- 7. Lapped disc provides steam-tight seal without air-binding for long service life.
- 8. Hardened stainless steel working surfaces for long service life.





Values of ASTM-Materials at each temperature.

Designed for use with F46, F32 Connector Units and V1/V2/V1P/V2P Trap Stations. Connections and sizes in bold are standard Trap and Connector Units sent as separate units for flexible installation.

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

No.	Description	Material	ASTM/AISI 1)	JIS			
$(1)^{T}$	Trap Body	Cast Stainless Steel	A351 Gr.CF8	—			
2	Connector Body	Cast Stainless Steel	A351 Gr.CF8	_			
3 <sup>R</sup>	Screen	Stainless Steel	AISI430	SUS430			
(4) <sup>MR</sup>	Screen Holder Gasket	Stainless Steel	AISI316L	SUS316L			
(5)	Screen Holder	Cast Stainless Steel	A351 Gr.CF8	—			
6 <sup>°</sup>	Connector Flange	Carbon Steel	A105	—			
$(7)^{T}$	Snap Ring	Carbon Steel	AISI1055	SWRH57			
8 <sup>MRT</sup>	Outer Connector Gasket	Graphite/Stainless Steel	- /AISI304	- /SUS304			
9 <sup>MRT</sup>	Inner Connector Gasket	Graphite/Stainless Steel	- /AISI304	- /SUS304			
(10 <sup>°</sup>	Connector Bolt <sup>2)</sup>	Carbon Steel	A193 Gr.B7	SNB7			
	Module Valve Seat	Stainless Steel	AISI420F	SUS420F			
(12 <sup>°</sup>	Cover	Stainless Steel	A182 F304	—			
(13 <sup>-</sup>	Disc	Stainless Steel	AISI420	SUS420J2			
(14) <sup>T</sup>	Disc Holder Ring	Stainless Steel	AISI420	SUS420J2			
(15 <sup>r</sup>	Air Vent Ring	Bimetal	—	_			
(16 <sup>MRT</sup>	Outer Module Gasket	Graphite/Stainless Steel	- /AISI316L	- /SUS316L			
17 <sup>°</sup>	Nameplate	Stainless Steel	AISI304	SUS304			
18 <sup>MRT</sup>	Inner Module Gasket	Graphite/Stainless Steel	- /AISI316L	- /SUS316L			
( <b>19</b> <sup>T</sup>	Сар	Stainless Steel	AISI304	SUS304			
20	Connector Nameplate	Stainless Steel	AISI304	SUS304			
21)	Elange <sup>3)</sup>	Cast Stainless Steel	A351 Gr.CF8	—			
	Fidilige	Stainless Steel	AISI304	SUS304			
22	BD2 Blowdown Valve <sup>4)</sup>	Cast Stainless Steel	A351 Gr CE8	_			



<sup>2)</sup> Shown on reverse <sup>3)</sup> Shown on reverse, shape and material depend on flange specifications <sup>4)</sup> Option Equivalent Replacement kits available: (M) maintenance parts, (R) repair parts, (T) trap unit P46UC Replacement parts for former connector body F32 differ from those for F46.

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### **Dimensions**

• FP46UC Screwed



#### • FP46UC Socket Weld



FP46UC	Screwed*			(in)
Size	L	W**	<b>W</b> 1	Weight (lb)
1/2	31/2	65/2	4 1/ <sub>8</sub>	3.7
3/4	578	078		
1	33/4	6 3/4	4 <sup>5</sup> / <sub>16</sub>	4.4

\* NPT, other standards available \*\* With optional BD2 add approx.  $^{11}/_{16}$ " to W

#### FP46LIC Socket Weld\*

						(11)		
	Size	L	W**	W1	φD	φC	h	Weight (Ib)
	1/2	3 1/ <sub>8</sub>	6 <sup>5</sup> /8	4 <sup>1</sup> / <sub>8</sub>	<b>1</b> 7/ <sub>16</sub>	0.855	1/2	0.7
	3/4					1.065	٩/	3.7
	1	3 3/4	6 3/4	4 <sup>5</sup> / <sub>16</sub>	<b>1</b> 3/ <sub>4</sub>	1.330	9/16	4.4

\* ASME B16.11-2005, other standards available \*\* With optional BD2 add approx.  $^{11}\!/_{16}''$  to W

FP46UC Flanged

#### • FP46UC Flanged



		L				
Size	Connects to ASME Class			W**	W1	Weight* (Ib)
	150RF	300RF	600RF			()
1/2	5 <sup>7/8</sup>	E 7/	71/	7 <sup>1</sup> / <sub>16</sub> 7 <sup>1</sup> / <sub>2</sub> 6 <sup>1</sup> / <sub>16</sub>		8.4
3/4		J'/8	1 1/16		4 1/ <sub>8</sub>	8.4 11
1	6 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>	7 1/2			13

Other standards available, but length and weight may vary

Weight is for Class 600 RF \*\* With optional BD2 add approx.  $^{11}/_{16}$ " to W

Flange classes in bold are standard

(in)

(in)



FCI

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is approved by LRQA Ltd. to ISO 9001/14001 SDS A2004-03 Rev. 7/2019

Specifications subject to change without notice.

Products for intended use only.

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