



PowerDyne® STEAM TRAP

MODEL FP46UN QuickTrap®

UNIVERSAL THERMODYNAMIC DISC TRAPS WITH THERMOSTATIC AIR VENTING

Features

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

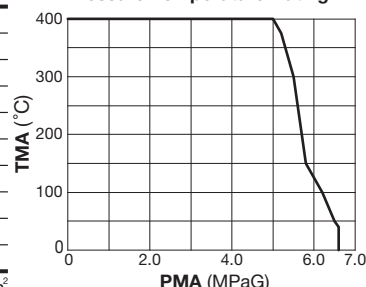
1. Union connection, two-bolt flange connector, replaceable trap unit and module valve seat, permit replacement in minutes without disturbing piping.
2. Universal flange and unions allow trap to be easily positioned in the correct attitude, regardless of pipeline configuration.
3. Screen located in connector 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	FP46UN	FP46UN-P
Connection	Union (Male Thread)	Pipe End
Size (mm)	15	
Maximum Operating Pressure (MPaG) PMO	4.6	
Minimum Operating Pressure (MPaG)	0.03	
Maximum Operating Temperature (°C) TMO	400	
Maximum Allowable Pressure (MPaG) PMA*	6.6 @ 40 °C	
Maximum Allowable Temperature (°C) TMA*	400 @ 5.0 MPaG	
Maximum Back Pressure	80 % of Inlet Pressure	
Connector Unit	F46UN	F46UN-P
Trap Unit	P46UC**	

Pressure-Temperature Rating***



* PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS) 1 MPa = 10.197 kg/cm²

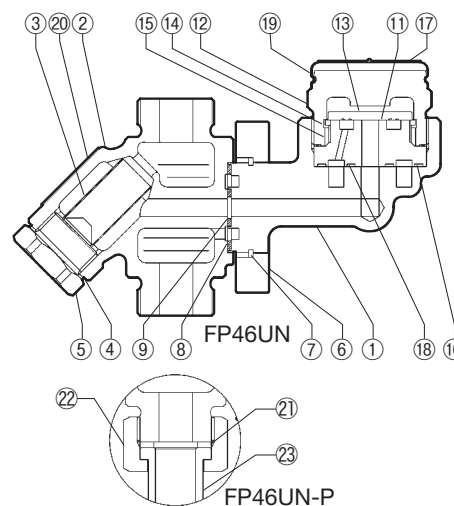
** Designed for use with F46, F46UN, F46UN-P, F32 Connector Units and V1/V2/V1P/V2P Trap Stations. Trap and Connector Units sent as separate units for flexible installation.

*** 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	JIS	ASTM/AISI*
① ^T	Trap Body	Cast Stainless Steel	A351 Gr.CF8	—
②	Connector Body	Cast Stainless Steel	A351 Gr.CF8	—
③ ^R	Screen inside/outside	Stainless Steel	SUS304/430	AISI304/430
④ ^{MR}	Screen Holder Gasket	Stainless Steel	SUS316L	AISI316L
⑤	Screen Holder	Cast Stainless Steel	A351 Gr.CF8	—
⑥ ^T	Connector Flange	Carbon Steel	A105	—
⑦ ^T	Snap Ring	Carbon Steel	SWRH57	AISI1055
⑧ ^{MRT}	Outer Connector Gasket	Graphite/Stainless Steel	SUS304	-/AISI304
⑨ ^{MRT}	Inner Connector Gasket	Graphite/Stainless Steel	SUS304	-/AISI304
⑩ ^T	Connector Bolt**	Carbon Steel	SNB7	A193 Gr.B7
⑪ ^T	Module Valve Seat	Stainless Steel	SUS420F	AISI420F
⑫ ^T	Cover	Stainless Steel	—	A182 F304
⑬ ^T	Disc	Stainless Steel	SUS420J2	AISI420
⑭ ^T	Disc Holder Ring	Stainless Steel	SUS420J2	AISI420
⑮ ^T	Air Vent Ring	Bimetal	—	—
⑯ ^{MRT}	Outer Module Gasket	Graphite/Stainless Steel	SUS316L	-/AISI316L
⑰ ^T	Nameplate	Stainless Steel	SUS304	AISI304
⑱ ^{MRT}	Inner Module Gasket	Graphite/Stainless Steel	SUS316L	-/AISI316L
⑲ ^T	Cap	Stainless Steel	SUS304	AISI304
⑳	Connector Nameplate	Stainless Steel	SUS304	AISI304
㉑	Union Gasket	Graphite/Stainless Steel	SUS304	-/AISI304
㉒	Union Nut	Stainless Steel	SUS304	AISI304
㉓	Union Pipe	Stainless Steel	SUS304	AISI304

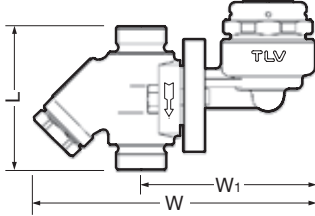


Copyright © TLV

* Equivalent ** Shown on reverse
Replacement kits available: (M) maintenance parts, (R) repair parts, (T) trap unit P46UC
Replacement parts for former connector body F32 differ from those for other connector bodies.

Dimensions

● **FP46UN** Union

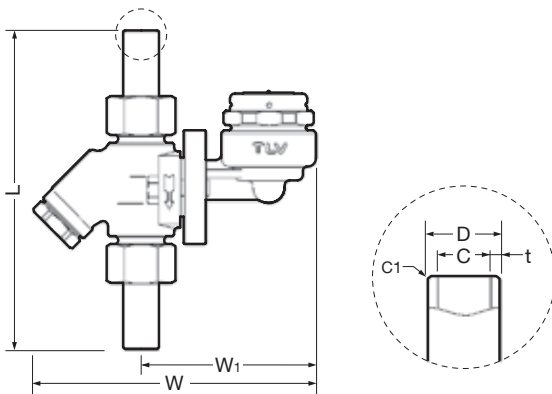


FP46UN Union* (mm)

Size	L	W	W ₁	Weight (kg)
15	85	168	104	1.8

* Male Thread M30 × 1.5

● **FP46UN-P** Pipe End

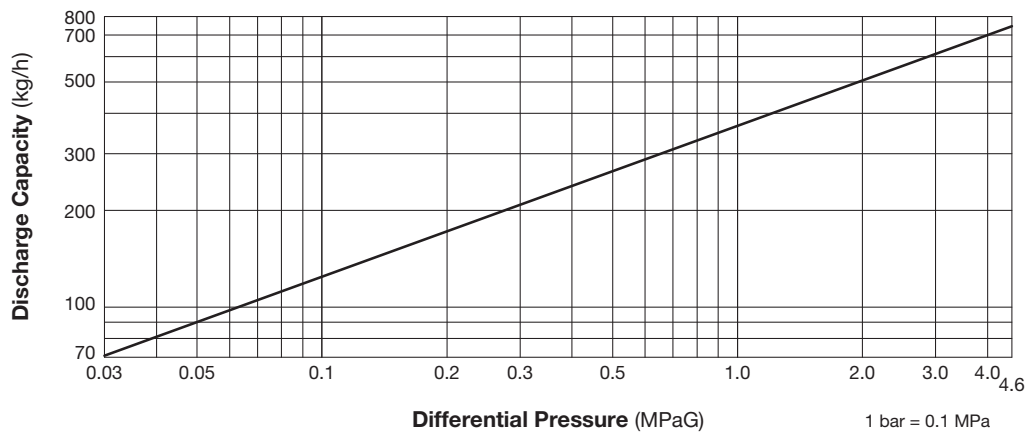


FP46UN-P Pipe End* (mm)

Size	L	W	W ₁	φD	φC	t	Weight (kg)
15	188	168	104	21.3	15.7	2.8	2.2

* ASME BW / Sch 40

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

