TUC PowerDyne STEAM TRAP MODEL FP46UN OuickTrap STAINLESS STEEL

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.
- 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.

Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

	. 0				
Size	Category	CE marking			
DN 15 to 25	*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed			
* Manufactured in accordance with sound engineering practice					

Specifications

	del		FP4	6UN	FP46	JN-P	Press	sure-Temperature Rating
Cor	nnection		Union (Ma	ale Thread)	Pipe	End	400	
Siz	e		1/	2"	DN	15		
Ma	aximum Operating Pressure (barg) PMO			46				
Minimum Operating Pressure (barg)			0	.3		300		
Maximum Operating Temperature (°C) TMO			400			5 –		
Maximum Allowable Pressure (barg) PMA*		66 @ 40 °C				200		
Maximum Allowable Temperature (°C) TMA*		400 @ 50 barg						
Maximum Back Pressure		80 % of Inlet Pressure			H			
Cor	Connector Unit		F46	5UN	F46L	JN-P	100	
Trap Unit			P46	UC**				
RES	SUBE SHELL DESIGN CC	NDITIONS (NOT OPERATIN	IG CONDITIO	NS)	1	bar = 0.1 MPa	0	
Desic	aned for use with F46, F46	UN, F46UN-P, F32 Connect	or Units and \				0	20 40 60
Trap	and Connector units sent	as separate units for flexible	installation.					PMA (barg)
This	0 1	Allowable Stress Values of						
Λ		abnormal operation, accide					de of the sp	ecification range.
$\underline{1}$	Local reg	ulations may restrict the us	se of this pro	duct to below	w the conditio	ns quoted.		
		NA () ()		DINK			(15)(14)(12)	(19) (13) (11) (17
lo.	Description	Material	0.050 4.44		ASTM/AISI*	(3)20(2)		(19) (13) (11) (17
	Trap Body	Cast Stainless Steel A351 G						
	Connector Body	Cast Stainless Steel A351 G		-				
~	Screen inside/outside	Stainless Steel SUS304/430			AISI304/430			
(4) ^{MR}	Screen Holder Gasket	Stainless Steel SUS316L	1.44					
— T					AISI316L		3 J	
~	Screen Holder	Cast Stainless Steel A351 G	Gr.CF8 1.43	312	AISI316L		ل ل	
<u>б</u> т	Connector Flange	Cast Stainless Steel A351 C Carbon Steel A105	Gr.CF8 1.43	312 460	_		<u>} ک</u>	
6 7 7	Connector Flange Snap Ring	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57	Gr.CF8 1.43 1.04 1.05	312 460 535 A	— — AISI1055		ل ل ا	
6 7 7 8 MRT	Connector Flange Snap Ring Outer Connector Gasket	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL	Br.CF8 1.43 1.04 1.05 JS304 - /1	312 460 535 / .4301 -				
6 7 7 8 MRT 9 MRT	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Graphite/Stainless Steel SL	Gr.CF8 1.43 1.04 1.05 JS304 - /1 JS304 - /1	312 460 535 .4301 - .4301	AISI1055 /AISI304 /AISI304			
6 T 7 T 8 MRT 9 MRT 9 MRT 10 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt**	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Graphite/Stainless Steel SL Carbon Steel SNB7	Ar.CF8 1.43 1.04 1.04 1.05 1.05 JS304 - /1 JS304 - /1 JS304 - /1	312 460 535 .4301 - 4301 - 225	AISI1055 /AISI304 /AISI304 /AISI304 A193 Gr.B7			
6 T 7 T 8 MRT 9 MRT 10 T 11 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F	Ar.CF8 1.43 1.04 1.04 1.05 1.05 JS304 - /1 JS304 - /1 1.72 1.40	312 460 535 / .4301 - .4301 - .225 / .028 /	AISI1055 /AISI304 /AISI304			
6 7 7 8 MRT 9 MRT 10 1 11 12 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel A182 F304	Ar.CF8 1.43 1.04 1.05 JS304 - /1 JS304 - /1 1.72 1.40 1.40 1.40	312 460 535 // .4301 - .4301 - 225 / 028 / 301 -				
6 7 7 8 MRT 9 MRT 10 1 1 1 1 1 1 1 1 1 1 1 1 1	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc	Cast Stainless Steel A351 (Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel A182 F304 Stainless Steel SUS420J2	Ar.CF8 1.43 1.04 1.05 JS304 - /1 JS304 - /1 1.72 1.40 1.40 1.40 1.40	312 460 535 / .4301 - .225 / 028 / 301 - 031 /				
6 7 7 8 MRT 9 MRT 10 T 10 T 12 T 13 T 14 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Graphite/Stainless Steel SUS420F Stainless Steel A182 F304 Stainless Steel SUS420J2 Stainless Steel SUS420J2	Ar.CF8 1.43 1.04 1.05 15304 - /1 15304 - /1 1.72 1.40 1.40 1.40 1.40 1.40	312 460 535 // -4301 - 225 / 028 / 301 - 023 /		5 4		
6 7 7 8 MRT 9 MRT 10 1 1 1 1 1 1 1 1 1 1 1 1 1	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel A182 F304 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Bimetal	Sr.CF8 1.43 1.04 1.04 1.03 1.04 JS304 - /1 JS304 - /1 1.72 1.40 1.43 1.44 1.44 1.44 1.44 1.44	312 460 535 // .4301 - .4301 - .225 / .028 / .021 / .031 / .301 .		5 4		P46UN 7 6 1 8
6 7 7 8 MRT 9 MRT 10 T 10 T 10 T 12 T 13 T 14 T 16 MRT 16 MRT	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel A105 Graphite/Stainless Steel SL Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Graphite/Stainless Steel SL	Br.CF8 1.43 1.00 1.00 JS304 - /1 JS304 - /1 1.72 1.42 1.43 1.42 1.44 1.44 JS316L - /1	312 460 535 // ,4301 - 225 // 028 / 031 / 031 / - - .4404 -	AISI1055 /AISI304 /AISI304 /AISI304 A193 Gr.B7 AISI420F AISI420 AISI420 AISI420 			
6 T 7 T 8 MRT 9 MRT 10 T 10 T 10 T 12 T 13 T 14 T 15 T 16 MRT 17 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket Nameplate	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Bimetal Graphite/Stainless Steel SUS304	Sr.CF8 1.43 1.04 1.09 JS304 -/1 JS304 -/1 1.72 1.43 1.43 1.44 1.44 1.44 JS316L -/1 JS316L -/1	312 460 535 /4301 - /4301 - 225 // 028 // 031 / - - - - - - - - - - - - - - <td></td> <td>5 d</td> <td></td> <td></td>		5 d		
6 7 7 8 9 MRT 9 MRT 10 10 10 10 10 10 10 10 10 10	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket Nameplate Inner Module Gasket	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Carbon Steel SWB7 Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Bimetal Graphite/Stainless Steel SU Stainless Steel SUS304 Graphite/Stainless Steel SU	Br.CF8 1.43 1.04 1.04 1.03 1.04 JS304 - /1 JS304 - /1 1.72 1.44 1.44 1.44 JS316L - /1	312 460 535 /4301 - .4301 .4301 - .4301 .031 /031 /- .44004		5 d		P46UN 7 6 1 (8
6 T 7 T 8 MRT 9 MRT 10 T 11 T 12 T 13 T 13 T 16 MRT 17 T 18 MRT 17 T 18 MRT 19 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket Nameplate Inner Module Gasket Cap	Cast Stainless Steel A351 (Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Bimetal Graphite/Stainless Steel SUS304 Graphite/Stainless Steel SUS304	Br.CF8 1.43 1.04 1.04 1.03 1.04 JS304 - /1 JS304 - /1 JS304 - /1 1.72 1.44 1.44 1.44 JS316L - /1 JS316L - /1 1.45 1.45	312 460 535 /4301 - /4301 - 225 // 225 // 225 // 301 031 / 031 / 301 / 301 / 301 / 301		5 d		P46UN 7 6 1 (8
6 T 7 T 8 MRT 9 MRT 10 T 11 T 12 T 13 T 14 T 15 T 16 MRT 17 T 18 MRT 19 T 20	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket Nameplate Inner Module Gasket Cap Connector Nameplate	Cast Stainless Steel A351 (Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SNS420F Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Bimetal Graphite/Stainless Steel SUS304 Graphite/Stainless Steel SUS304	Br.CF8 1.43 1.04 1.04 1.03 1.04 JIS304 - /1 JIS316L - /1 JIS316L - /1 JIS316L - /14 JIS316L - /14	312 460 535 //4301 - 225 //28 //28 //301 - - 301 - - 301 - 301 //404 - 301 //404 301 //301 //301		5 d		
6 T 7 T 9 MAT 9 MAT 10 T 10 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket Nameplate Inner Module Gasket Cap Connector Nameplate Union Gasket	Cast Stainless Steel A351 C Carbon Steel A105 Carbon Steel A105 Graphite/Stainless Steel SL Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Graphite/Stainless Steel SL Stainless Steel SUS304 Graphite/Stainless Steel SUS304 Stainless Steel SUS304 Graphite/Stainless Steel SUS304	Br.CF8 1.43 1.00 1.00 1.03 1.00 JS304 - /1 JS304 - /1 1.72 1.40 1.72 1.40 1.42 1.40 JS316L - /1 JS316L - /1 1.43 1.44 JS316L - /1 JS316L - /1 JS316L - /1 JS316L - /1 JS316L - /1	312 460 535 /4301 - 225 // 028 // 031 // 031 // 031 // 301 // 301 // 301 // 301 // 301 // 4404 - 301 // 301 // 4301	AISI1055 /AISI304 /AISI304 /AISI304 AISI420F 			P46UN 7 6 1 8 FP46UN-P
6 T 7 T 8 MRT 9 MRT 10 T 10 T	Connector Flange Snap Ring Outer Connector Gasket Inner Connector Gasket Connector Bolt** Module Valve Seat Cover Disc Disc Holder Ring Air Vent Ring Outer Module Gasket Nameplate Inner Module Gasket Cap Connector Nameplate	Cast Stainless Steel A351 (Carbon Steel A105 Carbon Steel SWRH57 Graphite/Stainless Steel SL Carbon Steel SNB7 Stainless Steel SNS420F Stainless Steel SUS420F Stainless Steel SUS420J2 Stainless Steel SUS420J2 Stainless Steel SUS420J2 Bimetal Graphite/Stainless Steel SUS304 Graphite/Stainless Steel SUS304	Br.CF8 1.43 1.04 1.04 1.03 1.04 JIS304 - /1 JIS316L - /1 JIS316L - /1 JIS316L - /14 JIS316L - /14	312 460 535 /4301 - 225 // 028 // 031 // 031 // 031 // 301 // 301 // 301 // 301 // 301 // 4404 - 301 // 301 // 4301				

FP46UN

Equivalent materials ** Shown on reverse

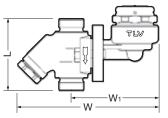
Replacement kits avaliable: (M) maintenance parts, (R) repair parts, (T) trap unit P46UC

TLV.

Consulting & Engineering Service

Dimensions

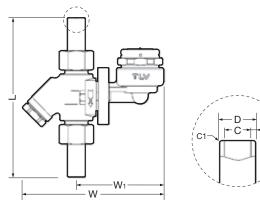
• FP46UN Union



FP46UN	Union*			(mm)		
Size	L	W	W1	Weight (kg)		
1/2 "	85	168	104	1.8		

* Male Thread M30 × 1.5

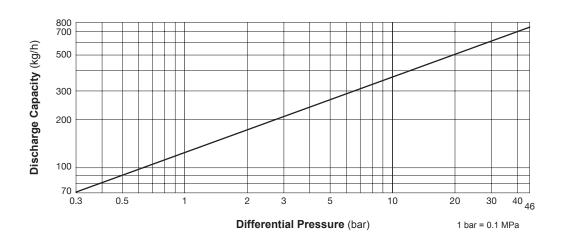
• FP46UN-P Pipe End



FP46	UN-F	P ipe	Pipe End* (mm					
Size	L	W	W1	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.





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