PowerDyne STEAM TRAP MODEL FP46UC QuickTrap® **STAINLESS STEEL**

UNIVERSAL THERMODYNAMIC DISC TRAP 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. Two-bolt flange connector, replaceable trap unit and module valve seat permit replacement in minutes without disturbing piping.
- 2. Universal flange allows trap to be 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.
- 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

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

Model	FP46UC				
Connection	Screwed	Socket Welded Flanged			
Size	¹ / ₂ ″, ³ / ₄ ″, 1″ DN 15, 20, 25				
Maximum Operating Pressure (barg)	PMO		46		
Minimum Operating Pressure (barg)	0.3				
Maximum Operating Temperature (°C)	4001) / 425				
Maximum Allowable Pressure (barg)	66 @ 40 °C				
Maximum Allowable Temperature (°C)	400 ¹⁾ / 425 @ 50 barg				
Maximum Back Pressure	80% of Inlet Pressure				
Connector Unit	F46				
Trap Unit	P46UC ³⁾				
¹) With DN flange ² DRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS) 1 bor - 0.1 MRs					



= 0.1 MPa With PN flange ⁻² PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS) ⁻¹ If ³ Designed for use with F46, F32 Connector Units and V1/V2 Trap Stations. ⁴ Trap and Connector Units sent as separate units for flexible installation.
⁴ This Rating Graph is based on Allowable Stress Values of ASTM-Materials at each temperature.

product outside of the specification range. s quoted.

lo.	Description	Material	DIN*	ASTM/AIS
D	Trap Body	Cast Stainless Steel A351 Gr.CF8	1.4312	—
2)	Connector Body	Cast Stainless Steel A351 Gr.CF8	1.4312	
3) ^R	Screen inside/outside	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/43
1) ^{mr}	Screen Holder Gasket	Stainless Steel SUS316L	1.4404	AISI316L
5)	Screen Holder	Cast Stainless Steel A351 Gr.CF8	1.4312	—
5)"	Connector Flange	Carbon Steel A105	1.0460	
D	Snap Ring	Carbon Steel SWRH57	1.0535	AISI1055
3) ^{mrt}	Outer Connector Gasket	Graphite/Stainless Steel SUS304	- /1.4301	-/AISI304
	Inner Connector Gasket	Graphite/Stainless Steel SUS304	- /1.4301	-/AISI304
<u>о</u> т	Connector Bolt**	Carbon Steel SNB7	1.7225	A193 Gr.B
1) ^r	Module Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
2) [*]	Cover	Stainless Steel A182 F304	1.4301	—
3) [™]	Disc	Stainless Steel SUS420J2	1.4031	AISI420
4) [™]	Disc Holder Ring	Stainless Steel SUS420J2	1.4031	AISI420
5)™	Air Vent Ring	Bimetal	_	
6 ^{MRT}	Outer Module Gasket	Graphite/Stainless Steel SUS316L	- /1.4404	-/AISI316L
∂ [™]	Nameplate	Stainless Steel SUS304	1.4301	AISI304
8) ^{MRT}	Inner Module Gasket	Graphite/Stainless Steel SUS316L	- /1.4404	-/AISI316L
9 ^т	Сар	Stainless Steel SUS304		AISI304
0	Connector Nameplate	tor Nameplate Stainless Steel SUS304		AISI304
Ð	Flange***	Cast Stainless Steel A351 Gr.CF8/ Stainless Steel SUS304	1.4312/ 1.4301	-/AISI304



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(mm)

Dimensions



FP46UC Screwed*

Size	L	W	W1	Weight (kg)		
1/2″	80	168	104	1.7		
3/4″	00	100	104			
1″	96	172	110	2.0		

* BSP DIN 2999, other standards available

FP46UC Socket Welded* (mm							
DN	L	W	W1	φD	φC	h	Weight (kg)
15	80	168 104	104	04 36	21.8	12	17
20			104		27.2	14	1.7
25	96	172	110	44	33.9	14	2.0

* ASME B16.11-2005, other standards available

FP4	6UC Fla	nged					(mm)
	L						
DN	DIN 2501	ASME Class			w	W1	Weight* (ka)
	PN25/40	150RF	300RF	600RF			. 3/
15	150	150	150	190			3.4
20	150	150 1	150	100	170	105	4.2
25	160	160	160	190			4.7

Other standards available, but length and weight may vary * Weight is for DIN PN 25/40



Differential Pressure (bar)

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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