

CYCLONE SEPARATOR TRAP

Model: DC3S

Features

Cyclone separator and steam trap incorporated into unit to provide high-quality dry steam.

1. Separator achieves condensate separation efficiency as high as 98%
2. Self-modulating free float steam trap continuously discharges condensate as it is separated.
3. Precision ground spherical float and positive three-point seating provide a steam-tight seal, even under no-load conditions.
4. Built-in screen with large surface area ensures trouble-free operation.
5. Only one moving part, the free float, reduces valve wear and provides long, maintenance free service life



Specifications

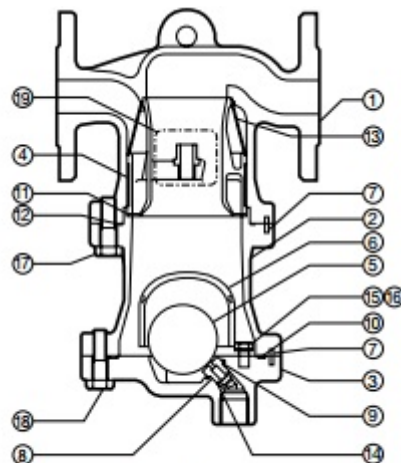
Model	DC3S	
Connection	Screwed	Flanged
Size (mm)	15, 20, 25	15, 20, 25, 40, 50, 65, 80, 100
Trap Orifice No.	10, 16, 21	
Max. Operating Press. (MPaG) PMO	1.0, 1.57, 2.1	
Min. Operating Press. (MPaG)	0.01	
Max. Operating Temp. (°C) TMO	220	

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

Maximum Allowable Pressure (MPaG) PMA: 1.57 (#10, 16), 2.1 (#21)

Maximum Allowable Temperature (°C) TMA: 220

CAUTION : To avoid abnormal operation, accidents of 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.



15 - 50 mm size shown, 65 - 100 mm configuration differs slightly

No.	Description	Materials	JIS	ASTM/AISI*
1	Body	Ductile Cast Iron	FCD450	A536 Gr. 65-45-12
2	Separator Body (#10, 16)	Cast Iron	FC250	A126 Cl.B
	Separator Body (#21)	Ductile Cast Iron	FCD450	A536 Gr. 65-45-12
3	Trap Cover (#10, 16)	Cast Iron	FC250	A126 Cl.B
	Trap Cover (#21)	Ductile Cast Iron	FCD450	A536 Gr. 65-45-12
4	Separator (15-50 mm)	Cast Stainless Steel	SCS13	A351 Gr. CF-8
	Separator (65-100 mm)	Ductile Cast Iron	FCD450	A536 Gr. 65-45-12
5	Float	Stainless Steel	SUS316L	AISI316L
6	Float Cover (15-50 mm)	Cast Iron	FC250	A126 Cl.B
	Float Cover (65-100mm)	Ductile Cast Iron	FCD450	A536 Gr. 65-45-12
7	Guide Pin	Stainless Steel	SUS304	AISI304
8	Trap Valve Seat	Stainless Steel	SUS420F	AISI420F
9	Valve Seat Gasket	Fluorine Resin	PTFE	-
10	Trap Cover Gasket	Fluorine Resin	PTFE	-
11	Wave Spring	Stainless Steel	SUS301	AISI301
12	Body Gasket	Fluorine Resin	PTFE	-
13	Screen	Stainless Steel	SUS304	AISI304
14	Bushing	Stainless Steel	SUS303	AISI303
15	Float Cover Bolt	Stainless Steel	SUS304	AISI304
16	Spring Washer	Stainless Steel	SUS304	AISI304
17	Body Bolt	Carbon Steel	S45C	AISI1045
18	Trap Cover Bolt	Carbon Steel	S45C	AISI1045
19	Nameplate	Stainless Steel	SUS304	AISI304
20	Baffle**	Stainless Steel	SUS304	AISI304
21	Baffle Bolt**	Stainless Steel	SUS304	AISI304
22	Baffle Nut**	Stainless Steel	SUS304	AISI304

*Equivalent **65-100, not shown # refers to the trap orifice number

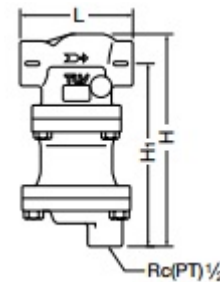
Dimensions

DC3S Screwed*

(mm)

Size	L	H	H1	Weight (kg)
15	150	243	209	5.8
20				
25	170	278	241	9.6

*Rc(PT), other standards available



DC3S Flanged*

(mm)

Size	L (ASME Class)		H	H1	Weight (approx.kg)
	150RF	300RF			
15	-	176	265	209	8.4
20	-	179			9.3
25	-	197	306	241	13
40	-	225	352	269	18
50	-	263	418	320	32
65	375	381	520	430	71
80	374	384			75
100	434	450	645	520	120

*Fits to ASME Class 150RF or 300RF

Other standards available, but length and weight may vary

