

FREE FLOAT® **AIR TRAP**

MODEL JA5

FREE FLOAT COMPRESSED AIR TRAP

Benefits

Extremely durable, inline-repairable free float trap with a large capacity for automatic drainage of condensate and oil from compressed-air systems.

- Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary, for maximum performance.
- 2. Durable valve seat maintains air-tight seal, even under lowload conditions.
- 3. Unique rotational seating design prevents concentrated wear to provide long maintenance-free service life.
- 4. External manual plunger unit alows rapid cleaning of the valve seat during operation, in the event of oil or dirt accumulation.
- 5. Rugged float construction with up to 1740 psig hydraulic shock rating ensures excellent performance of the trap.
- 6. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
- 7. Built-in screen with large surface area ensures extended trouble-free service.



Specifications

Model		JA5	JAF5	
Connection		Screwed	Flanged*	
Size (in)		3/4, 1	³ ⁄ ₄ , 1	
Orifice No		16		
Maximum Operating Pressure (psig)	PMO	230		
Maximum Differential Pressure (psi)	ΔΡΜΧ	230		
Minimum Operating Pressure (psig)		Vacuum		
Maximum Operating Temperature (°F)	TMO	212		
Maximum Allowable Pressure (psig)	PMA	300	250	
Maximum Allowable Temperature (°F)	TMA	428		
Applicable Fluid**		Air		

JA5 and JAF5 are non-standard products, consult TLV for delivery time required.

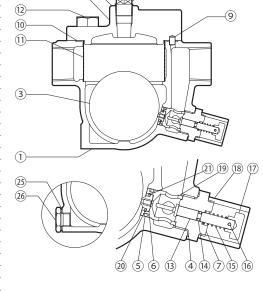
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To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI 1)	JIS
1	Body	Ductile Cast Iron	A536Gr.65-45-12	FCD450
2	Cover	Ductile Cast Iron	A536Gr.65-45-12	FCD450
3)F	Float	Stainless Steel	AISI316L	SUS316L
4 ^{MR}	Holder Nut Gasket	Fluorine Resin	PTFE	PTFE
5 ^{MR}	Valve Seat Holder O-Ring	Nitrile Rubber	D2000BF	NBR
6 ^R	Valve Seat	Nitrile Rubber	D2000BF	NBR
(7)R	Valve Seat Holder Nut	Stainless Steel	AISI420F	SUS420F
8	Balancing Line Plug	Carbon Steel	A6	SS400
9	Alignment Pin	Bearing Steel	A485	SUJ2
10 ^{MR}	Cover Gasket	Fluorine Resin	PTFE	PTFE
(11)R	Screen	Stainless Steel	AISI430	SUS430
12	Cover Bolt	Carbon Steel	AISI1045	S45C
(13)R	Needle	Stainless Steel	AISI420F	SUS420F
14)MR	Needle O-Ring	Nitrile Rubber	D2000BF	NBR
(15)R	Coil Spring	Stainless Steel	AISI304	SUS304
16)R	Split Pin	Stainless Steel	AISI304	SUS304
17)R	Plunger	Stainless Steel	AISI420F	SUS420F
(18)R	Guard Bushing	Carbon Steel	A53 Type F	SGP
(19)R	Valve Seat Holder	Stainless Steel	AISI420F	SUS420F
20 ^R	Snap Ring	Stainless Steel	AISI304	SUS304
(21)R	Washer	Stainless Steel	AISI304	SUS304
22	Flange 2)	Carbon Steel	A6/AISI1025 3)	SS400/S25C 3)
23)	Pipe 2)	Carbon Steel	A53 Type S Gr.A	STPG370
24)	Nameplate	Stainless Steel	AISI304	SUS304
25)	Drain Plug Gasket 4)	Soft Iron	AISI1010	SUYP
26)	Drain Plug 4)	Carbon Steel	AISI1025	S25C



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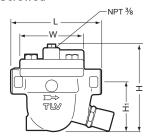
Screwed-in flange * Do not use for toxic, flammable or otherwise hazardous fluids.



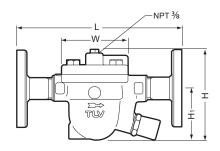
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Dimensions

JA5 Screwed



JAF5 Flanged (Screwed-in flange)



JA5	Screwed*				
Size	L	Н	H ₁	W	Weight (lb)
3/4	6 1/8	E 15/	0.5/	4 1/4	9.7
1		5 15/16	3 5/16		9.5

^{*}NPT, other standards available

JAF5 Flanged

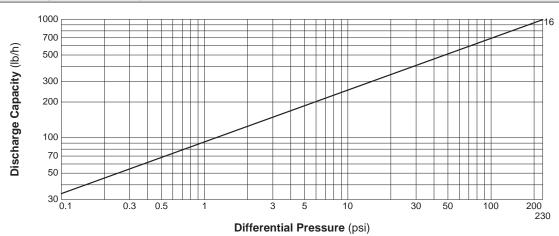
(in)

Size	Connects to ASME Class		Н	H ₁	W	Weight* (Ib)
	150RF	300RF				` ′
3/4	9 13/16	9 ¹³ / ₁₆	5 ¹⁵ ⁄16	3 5/16	4 1/4	15
1		9 -7/16				16

Other standards available, but length and weight may vary * Weight is for Class 300 RF.

A pressure-balancing line must be connected to the air system from the balancing port at the top of the trap to a place above any possible condensate accumulation in the system.

Discharge Capacity



1. Line numbers within the graph refer to orifice numbers.

- 2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
- 3. The chart is applicable to condensate below 212°F.
- 4. The discharge capacity is for a liquid with specific gravity of 1.
- 5. Recommended safety factor: at least 1.5.

CAUTION

DO NOT use this product under conditions that exceed maximum differential pressure, as condensate backup will occur!



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.

Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

TLY: CORPORATION

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Manufacturer Kakogawa, Japan

ISO 9001 ISO 14001

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