

FREE FLOAT AIR TRAP

MODEL JA7.2

FREE FLOAT AIR TRAP WITH LARGE CAPACITY FOR AIR SERVICE

Features

Free float air trap for large capacities to automatically drain condensate and oil from compressed air systems. Recommended installations include large receiver tanks and after coolers.

- Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- Only one moving part, the free float, prevents concentrated wear and provides long maintenancefree service life.
- 3. Built-in screen with large surface area ensures extended trouble-free operation.
- The valve seat is made of PTFE and other major internal parts are made of stainless steel.



Specifications

Model		JA7.2
Connection		Flanged
Size (mm)		40, 50, 80
Orifice No.		2, 5, 10, 16
Maximum Operating Pressure (MPaG)	PMO	0.2, 0.5, 1.0, 1.6
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.2, 0.5, 1.0, 1.6
Maximum Operating Temperature (°C)	TMO	150
Minimum Condensate Load for Tight Seali	ng (kg/h)	10
Applicable Fluid*		Air

^{*} Do not use for toxic, flammable or otherwise hazardous fluids.

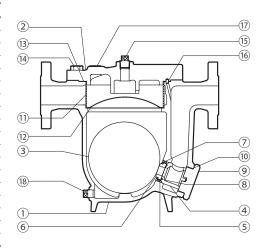
1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.6 Maximum Allowable Temperature (°C) TMA: 220



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	Body	Cast Iron	FCV400	A842 Gr.400	
2	Cover	Cast Iron	FCV400	A842 Gr.400	
3 ^F	Float	Stainless Steel	SUS316L	AISI316L	
4 ^R	Valve Seat Holder	Stainless Steel	SUS420F	AISI420F	
5 ^{MR}	Valve Seat Holder O-Ring	Fluorine Rubber	FPM	D2000HK	
6 ^R	Valve Seat (Orifice)	Fluorine Resin	PTFE	PTFE	
(7)R	Snap Ring	Stainless Steel	SUS304	AISI304	
8 _{MR}	Valve Seat O-Ring	Fluorine Rubber	FPM	D2000HK	
9	Valve Seat Holder Plug	Cast Iron	FCV400	A842 Gr.400	
10 ^{MR}	Holder Plug Gasket	Fluorine Resin	PTFE	PTFE	
11)R	Screen	Carbon Steel	S45C	AISI1045	
12	Screen Holder	Stainless Steel	SUS304	AISI304	
(13)MR	Cover Gasket	Fluorine Resin	PTFE	PTFE	
14	Cover Bolt	Carbon Steel	S45C	AISI1045	
15)	Balancing Line Plug	Carbon Steel	S10C	AISI1010	
16	Alignment Pin	Steel	SUJ2	A485	
17	Nameplate	Stainless Steel	SUS304	AISI304	
(18)	Drain Plug	Carbon Steel	SS400	A6	



Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

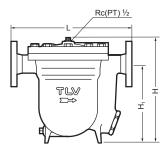
^{*} Equivalent

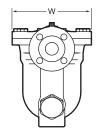


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Dimensions

JA7.2 Flanged





JA7.2	Flanged
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(mm)

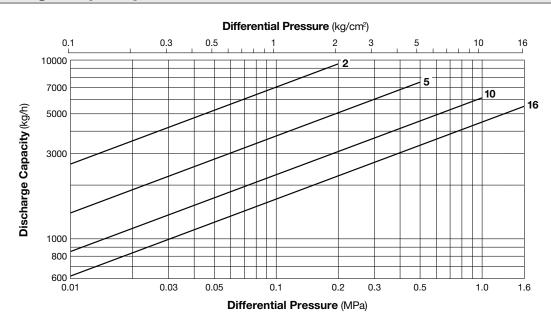
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Size	ASME Class							Weight*
	125FF	(150RF)	250RF	(300RF)				(kg)
40	359	370	372	374	330	245		33
50	362		375	376	340	250	243	36
80	379	388	398	398	370	265		41

() No ASME standard exists for cast iron; machined to fit steel flanges Class 125 FF can connect to 150 RF, 250 RF can connect to 300 RF Other standards available, but length and weight may vary * Weight is for Class 250 RF/300 RF

NOTE:

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 100 °C
- 4. The discharge capacity is for a liquid with specific gravity of 1.
- 5. Recommended safety factor: at least 1.5.



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

Manufacturer

Kakogawa, Japan



ISO 9001