

FREE FLOAT® AIR TRAP

MODEL JAH8R

HIGH-CAPACITY COMPRESSED AIR TRAP FOR HIGH PRESSURE AIR SERVICE

Benefits

Extremely durable, inline-repairable free float trap with a large capacity for automatic drainage of condensate and oil from compressed-air systems. Recommended installations include high pressure large receiver tanks and after coolers.

- Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary, for maximum performance.
- Unique rotational seating design prevents concentrated wear to provide long maintenance-free service life.
- 3. Rugged float construction with up to 1600 psig hydraulic shock rating ensures excellent performance of the trap.
- Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
- Built-in screen with large surface area ensures extended trouble-free service.
- The valve seat is made of PTFE and other major internal parts are made of stainless steel.



Specifications

Model		JAH8R				
Connection		Socket Weld	Flanged			
Size (in)		2, 3, 4	2, 3, 4			
Orifice No.		2, 5, 10, 20, 30, 40				
Maximum Operating Pressure (psig)	PMO	30, 75, 150, 285, 425, 600				
Maximum Differential Pressure (psi)	ΔΡΜΧ	30, 75, 150, 285, 425, 600				
Minimum Operating Pressure (psig)		Vacuum				
Maximum Operating Temperature (°F)	TMO	302				
Maximum Allowable Pressure (psig)	PMA	600				
Maximum Allowable Temperature (°F)	TMA	800				
Minimum Condensate Load for Tight Seal	ing (lb/h)	44 (Orifice No. 2, 5) 33 (Orifice No. 10, 20, 30, 40)				
Applicable Fluid*		Air				

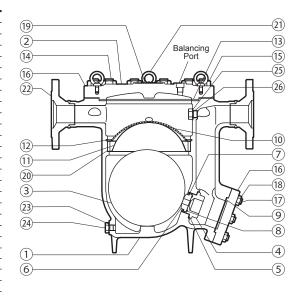
*Do not use for toxic, flammable or otherwise hazardous fluids.

JAH8R is a non-standard product, consult TLV for delivery time required.

CAUTION

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.

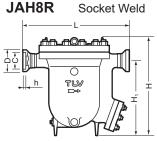
No.	Description	Material	ASTM/AISI*	JIS
1	Body	Cast Steel	A216 Gr.WCB	
2	Cover	Carbon Steel	A105	_
3)F	Float	Stainless Steel	AISI316L	SUS316L
4)R	Valve Seat Holder	Stainless Steel	AISI420F	SUS420F
5 ^{MR}	Valve Seat Holder Gasket	Soft Iron	AISI1010	SUYP
6)R	Valve Seat (Orifice)	Fluorine Resin	PTFE	PTFE
(7)R	Snap Ring	Stainless Steel	AISI304	SUS304
8 _{MR}	Valve Seat O-Ring	Fluorine Rubber	D2000HK	FPM
9 ^{MR}	Outlet Cover Gasket	Graphite/Stainless Steel	-/AISI304	-/SUS304
10 ^R	Screen	Stainless Steel	AISI430	SUS430
11)	Screen Holder	Stainless Steel	AISI304	SUS304
12	Snap Ring	Stainless Steel	AISI304	SUS304
(13)MR	Cover Gasket	Graphite/Stainless Steel	-/AISI304	-/SUS304
14)	Cover Bolt	Alloy Steel	A193 Gr.B16	SNB16
15)	Cover Nut	Carbon Steel	AISI1045	S45C
16	Outlet Cover	Stainless Steel	AISI420	SUS420J2
17)	Outlet Cover Bolt	Alloy Steel	A193 Gr.B16	SNB16
18)	Outlet Cover Nut	Carbon Steel	AISI1045	S45C
19	Nameplate	Stainless Steel	AISI304	SUS304
20	Screen Holder Retainer	Stainless Steel	AISI304	SUS304
21)	Eye Bolt	Carbon Steel	A307 Gr.B	SS400
22	Socket**	Carbon Steel	A105	
	Flange	Cast Steel	A216 Gr.WCB	
23 ^{MR}	Drain Plug Gasket	Soft Iron	AISI1010	SUYP
24)	Drain Plug	Carbon Steel	AISI1025	S25C
25 ^{MR}	Plug Gasket (Interior)	Soft Iron	AISI1010	SUYP
26	Plug (Interior)	Carbon Steel	AISI1025	S25C

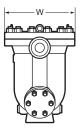


^{*} Equivalent ** Shown on reverse

TLV.

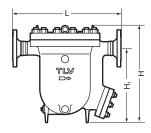
Dimensions



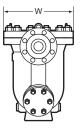


JAH	I8R	Socket Weld (iii						
Size	L	Н	H ₁	φW	φD	φC	h	Weight (lb)
2	22.7/				3 1/16	2.406		244
3	22 1/16	20 %	15 ¾	14 ¾	4 3/8	3.535	5/8	260
4	24				5 ½	4.545		273

JAH8R Flanged



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.



JAH8R Flanged

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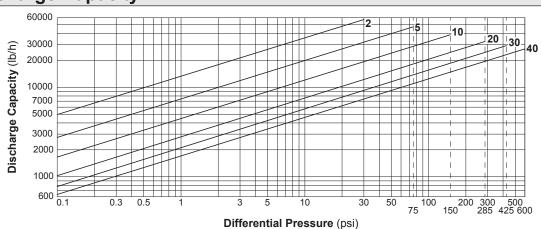
Size		L nects to ASME Class RF 300RF 600RF		Н	H ₁	φW	Weight* (lb)
2	23 1/4	23 ½	24 1/4	20 %		14 ¾	268
3	23 1/8	23 %16	24 5/16		15 ¾		284
4	22 1/16	23 1/16	24 ½				334

Other standards available, but length and weight may vary *Weight is for Class 600 RF.



Balancing Port (Socket	(in)			
Inlet/Outlet Connection	Size	φC	h	
Socket Weld	1/2	0.855	1/2	
Flanged	/2	0.655	1/2	

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

approved by LRQA Ltd. to ISO 9001/14001