TLV. FREE FLOAT. AIR TRAP MODEL JAH8R

FREE FLOAT AIR TRAP WITH LARGE CAPACITY FOR HIGH PRESSURE AIR SERVICE

Features

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

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



Specifications

Model		JAH8R		
Connection		Socket Welded	Flanged	
Size (mm)		50, 80, 100		
Orifice No.		2, 5, 10, 20, 30, 40		
Maximum Operating Pressure (MPaG)	PMO	0.2, 0.5, 1.0,	2.0, 3.0, 4.0	
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.2, 0.5, 1.0,	2.0, 3.0, 4.0	
Maximum Operating Temperature (°C)	TMO	15	50	
Minimum Condensate Load for Tight Sealing (kg/h)		20 (Orifice No. 2, 5) 15 (Orifice No. 10, 20, 30, 40)		
Applicable Fluid*		Air		

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

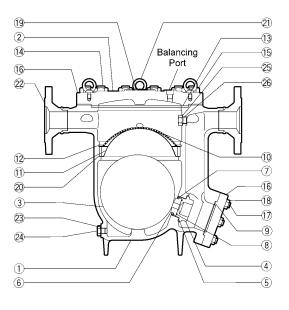
1 MPa = 10.197 kg/cm²

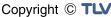
PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.0

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.

Maximum Allowable Temperature (°C) TMA: 425

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





* Equivalent ** Shown on reverse

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

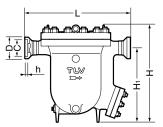
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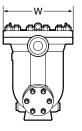
Consulting & Engineering Service

Dimensions

• JAH8R Flanged

• JAH8R Socket Welded





JAH8R Socket Welded (mm								(mm)
Size	L	н	H₁	ΦW	ΦD	φC	h	Weight (kg)
50	570	570 610	400	375	77.5	61.1	16	111
80					112	90.0		118
100	610				140	115.3		124

JAH8R Flanged

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			0					. ,
Size				Н	Hı	ΦW	Weight*	
	ASME Class			п	П 1	Ψνν	(kg)	
	150RF	300RF	600RF					
	50	591	597	616				122
	80	588	598	617	524	400	375	129
	100	570	596	622				152

Oth *W

NOTE:

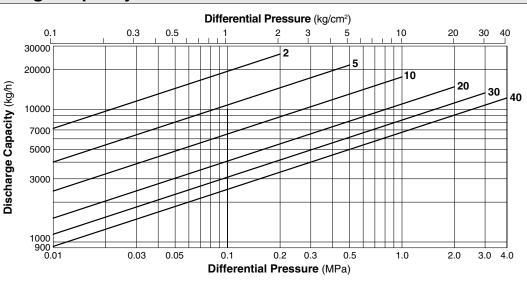
A pressure-balancing line must be connected to the air system from the balancing port at the top of the trap to a place above any possible condensate accumulation in the system.

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Discharge Capacity

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~~~~ <u>`</u>	Balancing Port (Socket W	Velded	)
-C+	Inlet/Outlet Connection	Size	ΦC
	Socket Welded	15	22.2
( <u>t</u> t)	Flanged (ASME)	15	21.8



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.

CAUTION

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

Manufacturer

**V**. CO., LTD. Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001 ISO 9001/ISO 14001

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Products for intended use only. Specifications subject to change without notice.

(mm)

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