FREE FLOAT® AIR TRAP

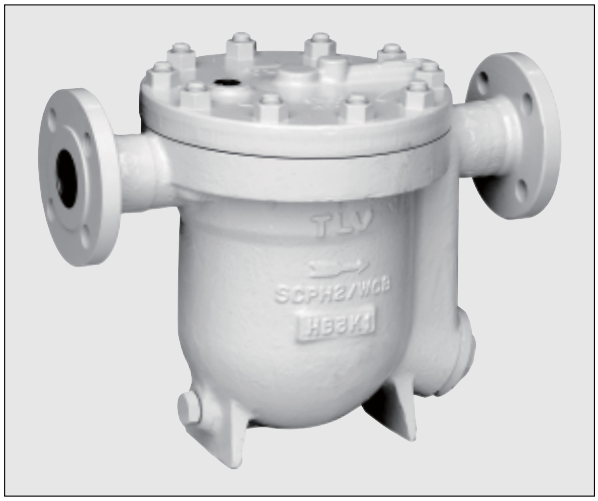
MODEL JAH7.2R

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		JAH7.2R	
Connection		Socket Welded	Flanged
Size (mm)		40, 50	
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)	ΔPMX	0.2, 0.5, 1.0, 2.0, 3.0, 4.0	
Maximum Operating Temperature (°C)	TMO	150	
Minimum Condensate Load for Tight Sealing (kg/h)		10	
Applicable Fluid*		Air	

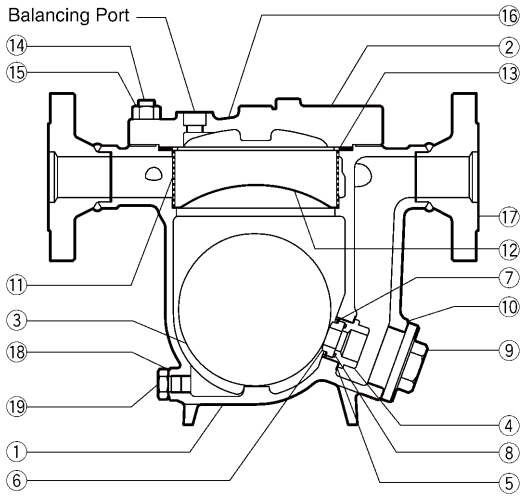
* Do not use for toxic, flammable or otherwise hazardous fluids.

1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.0
Maximum Allowable Temperature (°C) TMA: 425

⚠ 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.

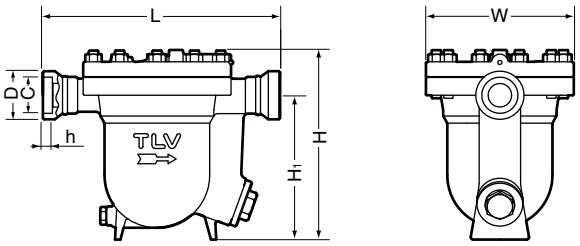
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Steel	—	A216 Gr.WCB
②	Cover	Carbon Steel	—	A105
③F	Float	Stainless Steel	SUS316L	AISI316L
④R	Valve Seat Holder	Stainless Steel	SUS420F	AISI420F
⑤MR	Valve Seat Holder Gasket	Soft Iron	SUYP	AISI1010
⑥R	Valve Seat (Orifice)	Fluorine Resin	PTFE	PTFE
⑦R	Snap Ring	Stainless Steel	SUS304	AISI304
⑧MR	Valve Seat O-Ring	Fluorine Rubber	FPM	D2000HK
⑨	Valve Seat Holder Plug	Cast Stainless Steel	—	A351 Gr.CF8
⑩MR	Holder Plug Gasket	Soft Iron	SUYP	AISI1010
⑪R	Screen	Stainless Steel	SUS430	AISI430
⑫	Screen Holder	Stainless Steel	SUS304	AISI304
⑬MR	Cover Gasket	Graphite/Stainless Steel	–/SUS304	–/AISI304
⑭	Cover Bolt	Alloy Steel	SNB16	A193 Gr.B16
⑮	Cover Nut	Carbon Steel	S45C	AISI1045
⑯	Nameplate	Stainless Steel	SUS304	AISI304
⑰	Socket**/Flange	Carbon Steel	—	A105
⑱MR	Drain Plug Gasket	Soft Iron	SUYP	AISI1010
⑲	Drain Plug	Carbon Steel	S25C	AISI1025



* Equivalent ** Shown on reverse
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

Dimensions

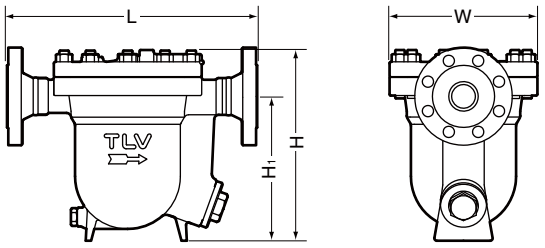
● **JAH7.2R** Socket Welded



JAH7.2R Socket Welded (mm)

Size	L	H	H_1	ϕ W	ϕ D	ϕ C	h	Weight (kg)
40	401	320	244	250	64	49.1	13	35
50					77.5	61.1	16	38

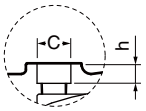
● **JAH7.2R** Flanged



JAH7.2R Flanged (mm)

Size	L ASME Class 150RF	L ASME Class 300RF	L ASME Class 600RF	H	H_1	ϕ W	Weight* (kg)
40	406	413	429	320	244	250	37
50	410	416	435				39

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

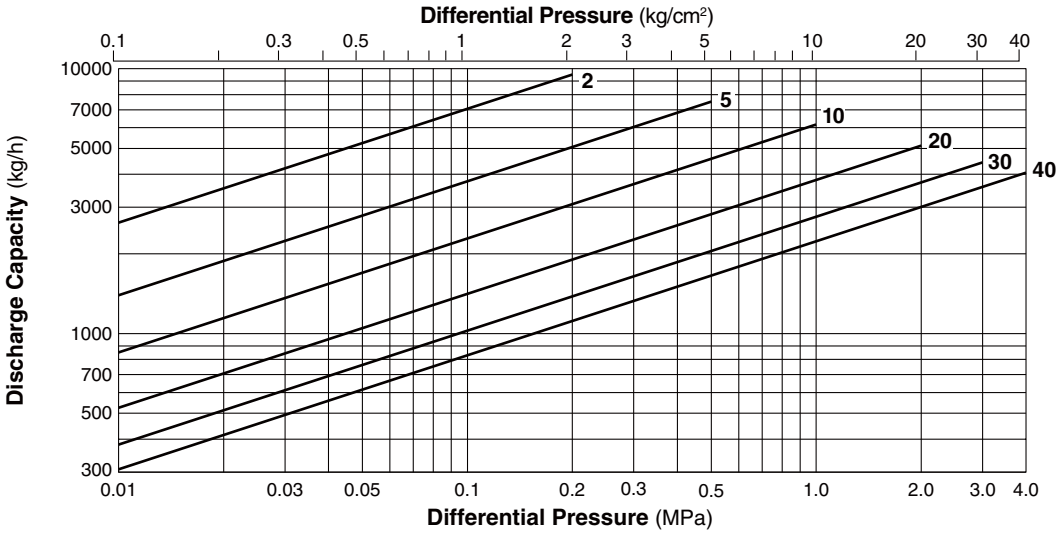


Balancing Port (Socket Welded) (mm)

Inlet/Outlet Connection	Size	ϕ C	h
Socket Welded	15	22.2	13
Flanged (ASME)		21.8	

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.

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

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