

JAH7RG has been Discontinued



FREE FLOAT DRAIN TRAP

MODEL JAH7RA/JAH7RG

DRAIN TRAP WITH TIGHT SHUT-OFF FOR INERT (JAH7RA) AND HAZARDOUS* (JAH7RG) GASES

Benefits

High pressure, inline repairable free float trap with tight shut-off. Automatically drains condensate from air and gas systems.

1. Constant water seal and unique rotational seating design eliminate concentrated wear to ensure long life.
2. Three-point seating provides a tight seal even under no-load conditions (with rubber orifice).
3. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
4. Built-in screen with large surface area ensures extended trouble-free service.

* Cannot be used with all hazardous gases.



Specifications

Model	JAH7RA-R (Rubber Orifice)			JAH7RG-R (Rubber Orifice)			JAH7RG-M (Metal Orifice)		
	Screwed	Socket Weld	Flanged	Screwed	Socket Weld	Flanged	Screwed	Socket Weld	Flanged
Connection	1	1, 1 1/2	1, 1 1/2	1	1, 1 1/2	1, 1 1/2	1	1, 1 1/2	1, 1 1/2
Size (in)	1	1, 1 1/2	1, 1 1/2	1	1, 1 1/2	1, 1 1/2	1	1, 1 1/2	1, 1 1/2
Orifice No.		10, 22, 40		10, 22, 40			G5, G10, G22, G40, G46		
Max. Operating Pressure (psig) PMO*		150, 315, 600		150, 315, 600			75, 150, 315, 600, 650		
Max. Differential Pressure (psi) ΔPMX*		150, 315, 600		150, 315, 600			75, 150, 315, 600, 650		
Min. Operating Pressure (psig)		Vacuum		Vacuum			Vacuum		
Max. Operating Temperature (°F) TMO		212		302			800		
Max. Allowable Pressure (psig) PMA		925		925			650		
Max. Allowable Temperature (°F) TMA		800					800		

* For specific gravities other than 1.00, use table below

Connections and sizes in bold are standard

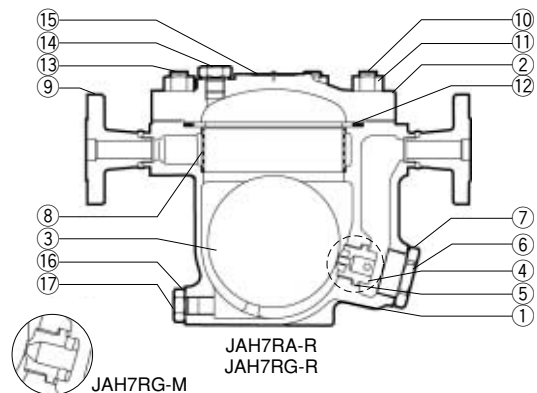
Model	Orifice No.	Specific Gravity										
		1.00	0.99 – 0.95	0.94 – 0.90	0.89 – 0.85	0.84 – 0.80	0.79 – 0.75	0.74 – 0.70	0.69 – 0.65	0.64 – 0.60	0.59 – 0.55	0.54 – 0.50
Maximum Operating Pressure PMO (psig) & Maximum Differential Pressure ΔPMX (psi)												
JAH7RA-R	10	150	150	150	150	150	133	115	96	77	59	40
	22	315	315	315	315	315	288	248	208	167	127	87
	40	600	600	600	600	600	542	466	391	315	239	163
JAH7RG-R	10	150	150	150	150	141	124	106	89	72	55	37
	22	315	315	315	315	305	268	230	193	155	118	81
	40	600	600	600	600	573	503	433	362	292	222	151
JAH7RG-M	G5	75	75	75	75	72	63	54	45	36	28	19
	G10	150	150	150	150	141	124	106	89	72	55	37
	G22	315	315	315	315	305	268	230	193	155	118	81
	G40	600	600	600	600	573	503	433	362	292	222	151
	G46	650	650	650	650	641	535	429	323	217	112	6



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.

For JAH7RG, consult TLV for use with toxic, flammable or otherwise hazardous gases; DO NOT USE JAH7RA for these gases.

No.	Description	Material	ASTM/AISI*	JIS
①	Body	Cast Steel	A216 Gr.WCB	—
②	Cover	Carbon Steel	AISI1025	S25C
③	Float	Stainless Steel	AISI316L	SUS316L
④	Orifice (JAH7RA-R)	Nitrile Rubber/Stainless Steel	D2000BF/AISI316L	NBR/SUS316L
	Orifice (JAH7RG-R)	Fluorine Rubber/Stainless Steel	D2000HK/AISI316L	FPM/SUS316L
	Orifice (JAH7RG-M)	—	—	—
⑤	Orifice Gasket	Soft Iron	AISI1010	SUYP
⑥	Orifice Plug	Cast Stainless Steel	A351 Gr.CF8	—
⑦	Orifice Plug Gasket	Soft Iron	AISI1010	SUYP
⑧	Screen	Stainless Steel	AISI430	SUS430
⑨	Socket**/Flange	Carbon Steel	A105	—
⑩	Cover Bolt	Alloy Steel	A193 Gr.B16	SNB16
⑪	Cover Nut	Carbon Steel	AISI1045	S45C
⑫	Cover Gasket	Graphite/Stainless Steel	—/AISI304	—/SUS304
⑬	Plug Gasket	Soft Iron	AISI1010	SUYP
⑭	Balancing Line Plug	Carbon Steel	AISI1025	S25C
⑮	Nameplate	Stainless Steel	AISI304	SUS304
⑯	Drain Plug Gasket	Soft Iron	AISI1010	SUYP
⑰	Drain Plug	Carbon Steel	AISI1025	S25C



JAH7RA-R
JAH7RG-R

JAH7RG-M

* Equivalent ** Shown on reverse

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Consulting & Engineering Service

Options

1. Body material stainless steel
2. Balancing port connection: flanged, socket weld, or screwed with other thread standards

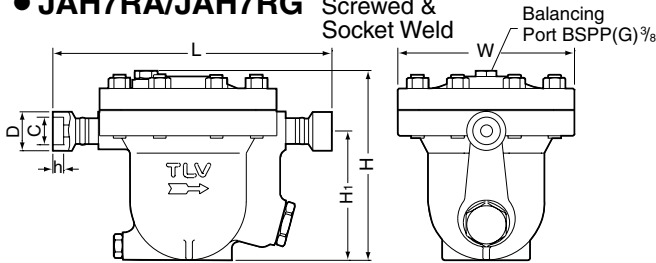
Leakage Rating

ANSI/FCI Leakage Rating Equivalent

Model	Orifice	Minimum ΔP (psi)	
		0.1	1.5
JAH7RA	Rubber	Class 4	Class 6
JAH7RG	Rubber	Class 4	Class 6
	Metal	Class 3	

Dimensions

• JAH7RA/JAH7RG Screwed & Socket Weld



JAH7RA/JAH7RG Screwed* (in)

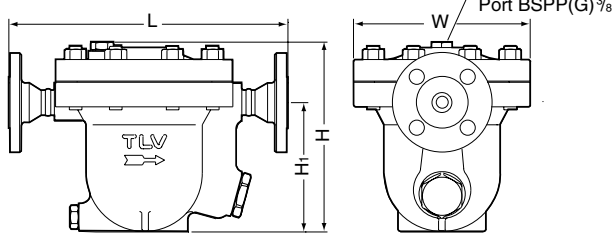
Size	L	H	H ₁	φ W	Weight (lb)
1	13 ³ / ₁₆	9 ⁵ / ₁₆	6 ⁵ / ₁₆	8 ³ / ₄	42

* NPT, other standards available

JAH7RA/JAH7RG Socket Weld (in)

Size	L	H	H ₁	φ W	φ D	φ C	h	Weight (lb)
1	13 ³ / ₁₆	9 ⁵ / ₁₆	6 ⁵ / ₁₆	8 ³ / ₄	2	1 ³ / ₈	9 ¹ / ₁₆	42
1 ¹ / ₂	13 ³ / ₄	15	15	15	2 ⁵ / ₈	1 ¹⁵ / ₁₆		46

• JAH7RA/JAH7RG Flanged



JAH7RA/JAH7RG Flanged (in)

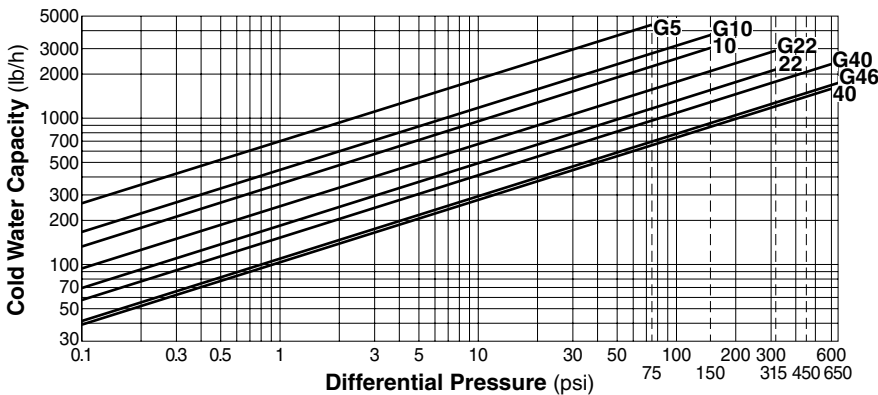
Size	L			H	H ₁	φ W	Weight* (lb)
	ASME Class						
	150RF	300RF	600RF				
1	15 ³ / ₁₆	15 ³ / ₁₆	15 ³ / ₁₆	9 ⁵ / ₁₆	6 ⁵ / ₁₆	8 ³ / ₄	55
1 ¹ / ₂	15	15	15				64

Other standards available, but length and weight may vary

* Weight is for class 600 RF

Note: A pressure-balancing line must be connected to the air/gas 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 are orifice numbers. Orifice numbers beginning with "G" are for JAH7RG-M (metal orifice); other numbers are for JAH7RA-R, JAH7RG-R (rubber orifice).
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 liquids with a specific gravity of 1. See the Discharge Capacity Conversion Factors table for other specific gravities.
5. Recommended safety factor: at least 1.5.

• Discharge Capacity Conversion Factors

Specific Gravity (S.G.)	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5
Conversion Factor	1.03	1.06	1.08	1.12	1.16	1.19	1.24	1.29	1.35	1.41

Before using the discharge capacity chart, multiply the required capacity (including safety factor) by the appropriate conversion factor for the specific gravity of the liquid to be discharged.

Choose from the table above or use the following formula: Conversion Factor = $\frac{1}{\sqrt{\text{S.G.}}}$



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

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Manufacturer

ISO 9001/ISO 14001



is approved by LRQA Ltd. to ISO 9001/14001

