JA3D
Zinc Alloy Free Float Air Trap

Features

Compact free float air trap to automatically drain condensate from compressed air systems.

1. Self-modulating free float provides soft, continuous, and smooth, low velocity discharge as process loads vary.
2. Perfect air-tight seal, even under low-load conditions.
3. Only one moving part, the free float, prevents concentrated valve wear and provides long maintenance-free service life.
4. Built-in screen with large surface area ensures extended trouble-free service.
5. Manual blowdown device allows cleaning of the valve seat from outside during operation in case of oil and dirt accumulation.
6. All internal parts made of stainless steel.
7. For either horizontal or vertical installation.

Specifications

Model		JA3D
Connection		Screwed
Size		1/2″
Maximum Operating Pressure (barg)	PMO	16
Maximum Differential Pressure (bar)	ΔPMX	16
Maximum Operating Temperature (°C)	TMO	100
Applicable Fluid*		Air

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

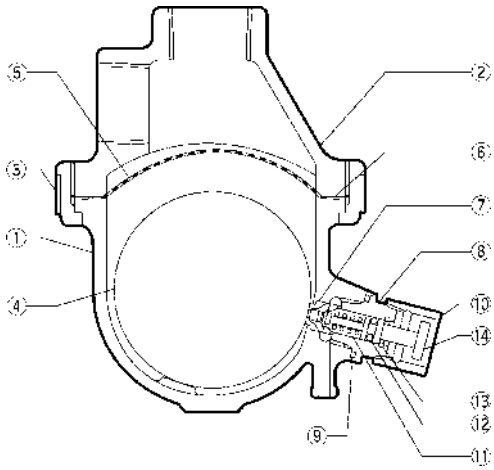
1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):Maximum Allowable Pressure (barg) PMA: 16
Maximum Allowable Temperature (°C) TMA: 100

⚠ 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.

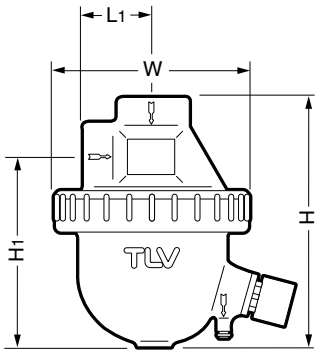
No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Zinc Alloy ZDC2	2.2140.05	B86 AC140A
②	Cover	Zinc Alloy ZDC2	2.2140.05	B86 AC140A
③	Union Nut	Zinc Alloy ZDC2	2.2140.05	B86 AC140A
④	Float	Stainless Steel SUS316L	1.4404	AISI316L
⑤	Screen	Stainless Steel SUS430	1.4016	AISI430
⑥	Cover Gasket	Nitrile Rubber NBR	NBR	D2000BF
⑦	Valve Seat	Nitrile Rubber NBR	NBR	D2000BF
⑧	Valve Seat Holder	Stainless Steel SUS420F	1.4028	AISI420F
⑨	Holder Gasket	Fluorine Resin PTFE	PTFE	PTFE
⑩	Guard Bushing	Carbon Steel SGP	1.0035	A53 type F
⑪	Coil Spring	Stainless Steel SUS304	1.4301	AISI304
⑫	Plunger O-Ring	Nitrile Rubber NBR	NBR	D2000BF
⑬	Snap Ring	Stainless Steel SUS304	1.4301	AISI304
⑭	Plunger	Stainless Steel SUS416	1.4005	AISI416

* Equivalent materials



Dimensions

● **JA3D** Screwed



JA3D Screwed* (mm)

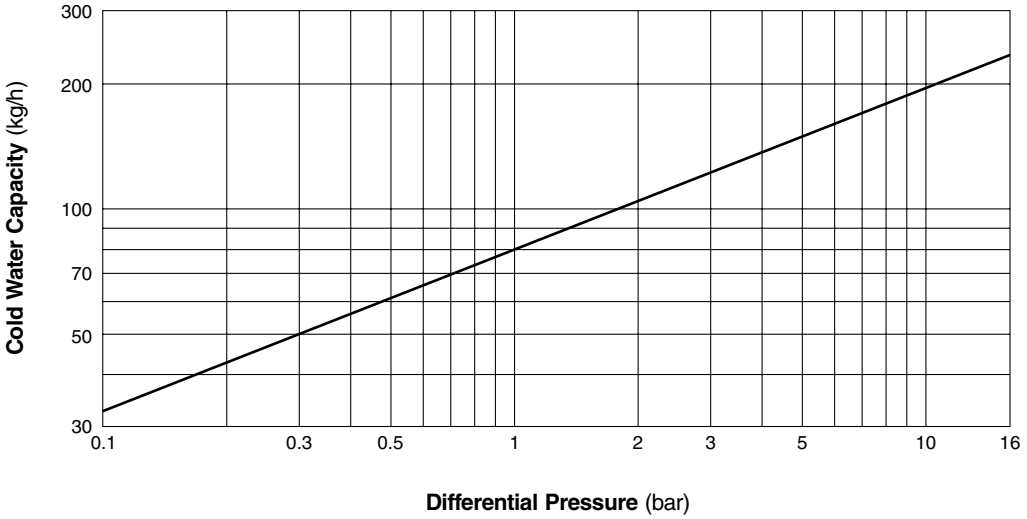
Size	L_1	H	H_1	ϕW	Weight (kg)
½″	28	104	80	80	0.6

* BSP DIN 2999, other standards available

NOTE

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

Discharge Capacity



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1. Differential pressure is the difference between the inlet and outlet pressure of the trap.
2. The chart is applicable to condensate below 100 °C.
3. The discharge capacity is for a liquid with specific gravity of 1.
4. Recommended safety factor: at least 1.5.

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