

FREE FLOAT® AIR TRAP

MODEL JA3

FREE FLOAT COMPRESSED AIR TRAP

Benefits

Extremely durable, inline-repairable free float trap with tight shut-off for automatic drainage of condensate and oil from compressed-air systems.

- Self-modulating free float provides continuous, smooth,low velocity condensate discharge as process loads vary, for maximum performance.
- 2. Durable valve seat maintains air-tight seal, even under low-load conditions.
- 3. Unique rotational seating design prevents concentrated wear to provide long maintenance-free service life.
- External manual plunger unit allows rapid cleaning of the valve seat during operation, in the event of oil or dirt accumulation.
- 5. Rugged float construction with up to 1720 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.



Specifications

Model		JA3
Connection		Screwed
Size (in)		1/2, 3/4, 1
Orifice No		16
Maximum Operating Pressure (psig)	PMO	230
Maximum Differential Pressure (psi)	ΔΡΜΧ	230
Minimum Operating Pressure (psig)		Vacuum
Maximum Operating Temperature (°F)	TMO	212
Maximum Allowable Pressure (psig)	PMA	300
Maximum Allowable Temperature (°F)	TMA	428
Applicable Fluid*		Air

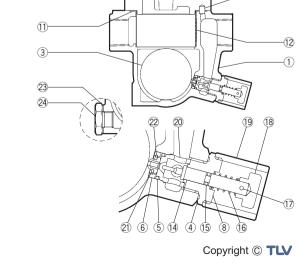
^{*} Do not use for toxic, flammable or otherwise hazardous fluids.

Connections and sizes in bold are standard



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	Ductile Cast Iron	A536 Gr. 65-45-12	FCD450
2	Cover	Ductile Cast Iron	A536 Gr. 65-45-12	FCD450
(3)F	Float	Stainless Steel	AISI316L	SUS316L
4 ^{MR}	Holder Nut Gasket	Fluorine Resin	PTFE	PTFE
(5)MR	Valve Seat Holder O-Ring	Nitrile Rubber	D2000BF	NBR
(6)R	Valve Seat	Nitrile Rubber	D2000BF	NBR
7	Nameplate	Stainless Steel	AISI304	SUS304
(8)R	Valve Seat Holder Nut	Stainless Steel	AISI420F	SUS420F
9	Balancing Line Plug	Carbon Steel	A6	SS400
10 ^{MR}	Alignment Pin	Bearing Steel	A485	SUJ2
11 ^{MR}	Cover Gasket	Fluorine Resin	PTFE	PTFE
(12)R	Screen	Stainless Steel	AISI430	SUS430
13	Cover Bolt	Carbon Steel	AISI1045	S45C
(14)R	Needle	Stainless Steel	AISI420F	SUS420F
(15)MR	Needle O-Ring	Nitrile Rubber	D2000BF	NBR
16 ^R	Coil Spring	Stainless Steel	AISI304	SUS304
(17)R	Split Pin	Stainless Steel	AISI304	SUS304
(18)R	Plunger	Stainless Steel	AISI420F	SUS420F
19 ^R	Guard Bushing	Carbon Steel	A53 Type F	SGP
20 ^R	Valve Seat Holder	Stainless Steel	AISI420F	SUS420F
(21)R	Snap Ring	Stainless Steel	AISI304	SUS304
22 ^R	Washer	Stainless Steel	AISI304	SUS304
23	Drain Plug Gasket**	Soft Iron	AISI1010	SUYP
24)	Drain Plug**	Carbon Steel	AISI1025	S25C



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

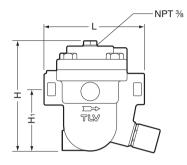
^{*} Equivalent ** Option

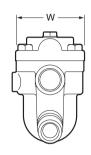


Consulting & Engineering Service

Dimensions

JA3 Screwed





JA3 Screwed*

(in)

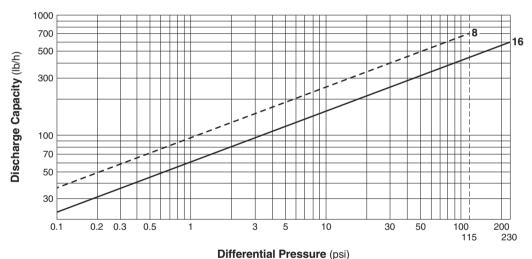
Size	L	Н	H ₁	W	Weight (lb)
1/2		51/8	215/16	31/8	6.0
3/4	43/4	3 78	2 1/8		6.2
1]	5%	215/16		6.6

^{*} NPT, other standards available

NOTF:

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



- Standard ----- Available on special request
- 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. Capacities are based on continuous discharge of condensate below 212°F with specific gravity of 1.
- 4. Recommended safety factor: at least 1.5.



DO NOT use this product under conditions that exceed maximum differential pressure, as condensate back up 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.

TLV: CORPORATION

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Manufacturer



ISO 14001

ISO 9001