

# FREE FLOAT AIR TRAP

MODEL JA7.5

## FREE FLOAT AIR TRAP WITH LARGE CAPACITY FOR AIR SERVICE

#### **Features**

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

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



# **Specifications**

Model		JA7.5
Connection		Flanged
Size (mm)		40, 50, 65, 80
Orifice No.		2, 5, 10, 16
Maximum Operating Pressure (MPaG)	PMO	0.2, 0.5, 1.0, 1.6
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.2, 0.5, 1.0, 1.6
Maximum Operating Temperature (°C)	TMO	150
Minimum Condensate Load for Tight Sealin	ng (kg/h)	10
Applicable Fluid*		Air

<sup>\*</sup> Do not use for toxic, flammable or otherwise hazardous fluids.

1 MPa = 10.197 kg/cm<sup>2</sup>

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.6
Maximum Allowable Temperature (°C) TMA: 220



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 Iron	FC250	A126 CI.B
2	Cover	Cast Iron	FC250	A126 CI.B
3)F	Float	Stainless Steel	SUS316L	AISI316L
<b>4</b> )R	Valve Seat Holder	Stainless Steel	SUS420F	AISI420F
5 <sup>MR</sup>	Valve Seat Holder O-Ring	Fluorine Rubber	FPM	D2000HK
6)R	Valve Seat (Orifice)	Fluorine Resin	PTFE	PTFE
(7)R	Snap Ring	Stainless Steel	SUS304	AISI304
8 <sub>MR</sub>	Valve Seat O-Ring	Fluorine Rubber	FPM	D2000HK
9	Valve Seat Holder Plug	Cast Iron	FCV400	A842 Gr.400
10 <sup>MR</sup>	Holder Plug Gasket	Fluorine Resin	PTFE	PTFE
11)R	Screen	Carbon Steel	S45C	AISI1045
12	Screen Holder	Stainless Steel	SUS304	AISI304
13	Screen Holder Retainer	Stainless Steel	SUS304	AISI304
14)	Snap Ring	Stainless Steel	SUS304	AISI304
15 <sup>MR</sup>	Cover Gasket	Fluorine Resin	PTFE	PTFE
16	Cover Bolt	Carbon Steel	S45C	AISI1045
17)	Balancing Line Plug	Carbon Steel	S10C	AISI1010
18)	Alignment Pin	Steel	SUJ2	A485
19	Nameplate	Stainless Steel	SUS304	AISI304
(20)	Drain Plug	Carbon Steel	SS400	A6

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

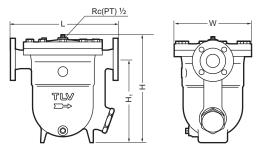
<sup>\*</sup> Equivalent



# **Consulting · Engineering · Services**

### **Dimensions**

#### JA7.5 Flanged



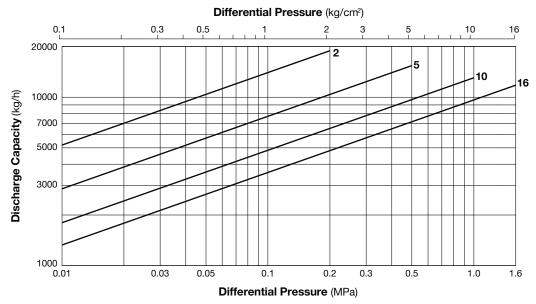
JA7.5	Fla	nged						(mm)
Size		ASME	L E Class		Н	H <sub>1</sub>	φW	Weight* (kg)
	125FF	(150RF)	250RF	(300RF)				
40	380	390	392	394	393			43
50	392	400	405	406	398	307	200	46
65	401	412	417	418	408	307	290	49
80	426	434	443	444	413			53

() No ASME standard exists for cast iron; machined to fit steel flanges Class 125 FF can connect to 150 RF, 250 RF can connect to 300 RF Other standards available, but length and weight may vary

#### 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.



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 IROA Ltd. to ISO 9001/14001

ISO 9001 ISO 14001

<sup>\*</sup> Weight is for Class 250 RF/300 RF