



# FREE FLOAT AIR TRAP

## MODEL G8

### HIGH-CAPACITY COMPRESSED AIR TRAP

#### Features

**Extremely durable, high-capacity free float trap with tight shutoff for automatic drainage of condensate and oil from compressed air systems.**

1. Self-modulating free float provides soft, continuous and smooth low velocity discharge as condensate loads vary.
2. Durable valve seat maintains air-tight seal even under no-load conditions.
3. Unique rotational seating design prevents concentrated wear to provide long, maintenance-free service.
4. Large orifice helps prevent clogging due to dirt or oil accumulation.
5. Rugged float construction with up to 10 MPaG hydraulic shock rating ensures excellent performance.
6. Y-type strainer with large surface area ensures trouble free operation.



#### Specifications

Model	G8	
Connection	Screwed	
Size (mm)	15, 20, 25	
Maximum Operating Pressure (MPaG) PMO	1.0	
Maximum Differential Pressure (MPa) ΔPMX	1.0	
Minimum Operating Pressure	Vacuum	
Maximum Operating Temperature (°C) TMO	100	
Applicable Fluid*	Air	

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):

Maximum Allowable Pressure (MPaG) PMA: 1.6

Maximum Allowable Temperature (°C) TMA: 100

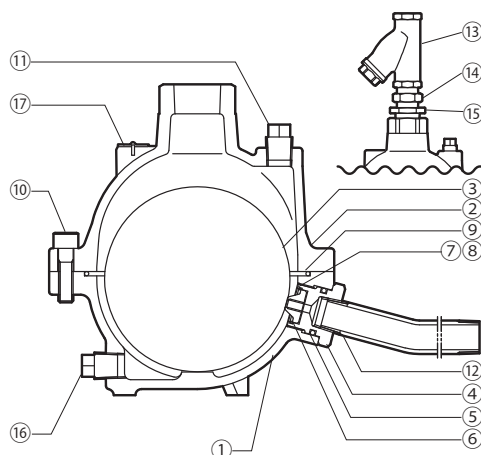
1 MPa = 10.197 kg/cm<sup>2</sup>



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.

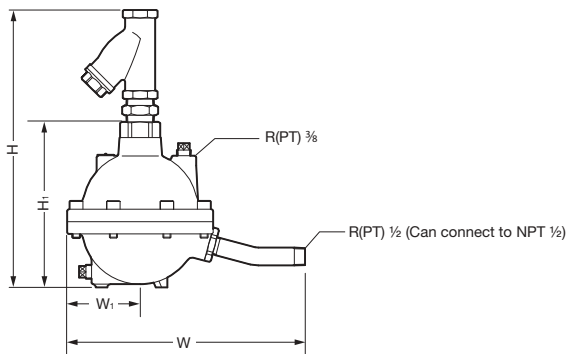
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Iron	FC250	A126 Cl.B
②	Cover	Cast Iron	FC250	A126 Cl.B
③	Float	Stainless Steel	SUS316L	AISI316L
④	Valve Seat Holder	Stainless Steel	SUS420F2	AISI420F2
⑤	Valve Seat Holder O-ring	Nitrile Rubber	NBR	D2000BF
⑥	Valve Seat	Nitrile Rubber	NBR	D2000BF
⑦	Snap Ring	Stainless Steel	SUS304	AISI304
⑧	Washer	Stainless Steel	SUS304	AISI304
⑨	Cover O-ring	Nitrile Rubber	NBR	D2000BF
⑩	Cover Bolt	Cr-Mo Steel	SCM435	AISI4135
⑪	Balancing Line Plug	Carbon Steel	SS400	A6
⑫	Discharge Pipe	Carbon Steel	SGP	A53 Type F
⑬	Y-type Strainer (Y3)	Stainless Steel	—	A351 Gr.CF8
⑭	Nipple	Carbon Steel	FCMB	A47 Gr.32510
⑮	Bushing**	Carbon Steel	FCMB	A47 Gr.32510
⑯	Plug	Carbon Steel	SS400	A6
⑰	Nameplate	Stainless Steel	SUS304	AISI304

\* Equivalent \*\* Only for size 15, 20 mm



**Dimensions**

● **G8** Screwed



**G8** Screwed\*

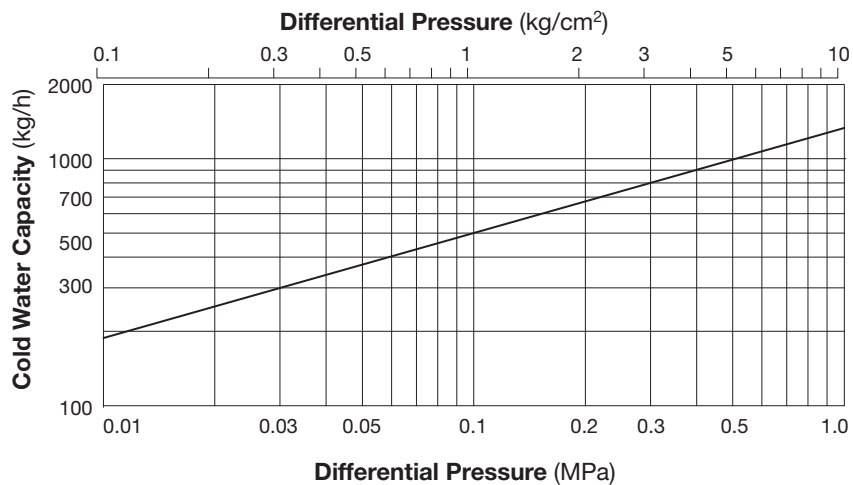
(mm)

Size	H	H1	W	W1	Weight (kg)
15	320	201	296	96	7.3
20	335				7.4
25	340				7.5

\* Rc(PT), other standards available

NOTE: A pressure-balancing line must be connected to the air system from the balancing port 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. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
4. 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 LRQA Ltd. to ISO 9001/14001

