



# SIGHT GLASS

## MODEL T8N/T10N

### COMPACT SIGHT GLASS WITH FLOW INDICATING BALL

#### Features

Lightweight sight glass for installation at the outlet side of steam traps to monitor trap performance and to check for steam leakage. Also recommended for checking the line flow of air and water. Suitable for small-to-large flow rates.

1. Clear sighting through self-polishing, heat-resistant glass.
2. Ball movement indicates the flow status.
3. Model T(F)10N is designed for large flow rates due to through-hole in the partition between inlet and outlet.
4. Compact design saves space.
5. Inline repairable.



#### Specifications

Model	T8N/T10N	TF8N/TF10N
Connection	Screwed	Flanged
Size (mm)	15, 20, 25, 32, 40, 50	
Maximum Operating Pressure (MPaG) PMO	1.6	
Maximum Operating Temperature (°C) TMO	220*	
Applicable Fluids**	Steam, Water, Air	

\* Contact TLV for optional models T8NL/TF8NL/T10NL/TF10NL up to 150 °C.

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

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

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

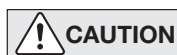


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

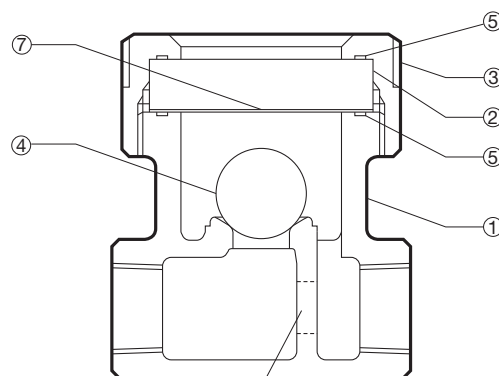
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Iron	FC250	A126 Cl.B
② <sup>R</sup>	Sight Glass	Heat-resistant Tempered Glass	—	—
③	Glass Holder	Cast Iron	FC250	A126 Cl.B
④ <sup>R</sup>	Ball	Fluorine Resin	PTFE	PTFE
⑤ <sup>R</sup>	Gasket	Fluorine Resin	PTFE	PTFE
⑥	Nameplate**	Stainless Steel	SUS304	AISI304
⑦ <sup>R</sup>	Guard Plate	Mica	—	—

\* Equivalent \*\* Shown overleaf

Replacement kits available: (R) repair parts



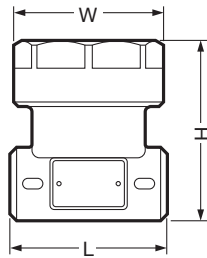
The heat-resistant tempered glass must be replaced every year.



Through-hole  
(T(F)10N only)

**Dimensions**

● **T8N/T10N**  
Screwed

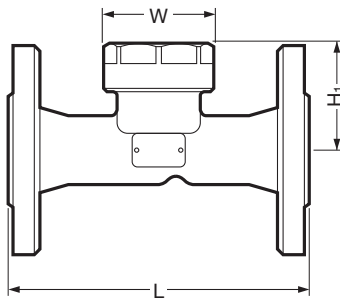


**T8N/T10N Screwed\*** (mm)

Size	L	H	φW	Through-hole dia.**	Weight (kg)
15	68	79	65	10	0.9
20	75	87		15	1.0
25	79	94		18	1.2
32	120	106		20	1.9
40		113		25	2.1
50	126	127		30	2.7

\* Rc(PT), other standards available \*\* T10N only

● **TF8N/TF10N**  
Flanged



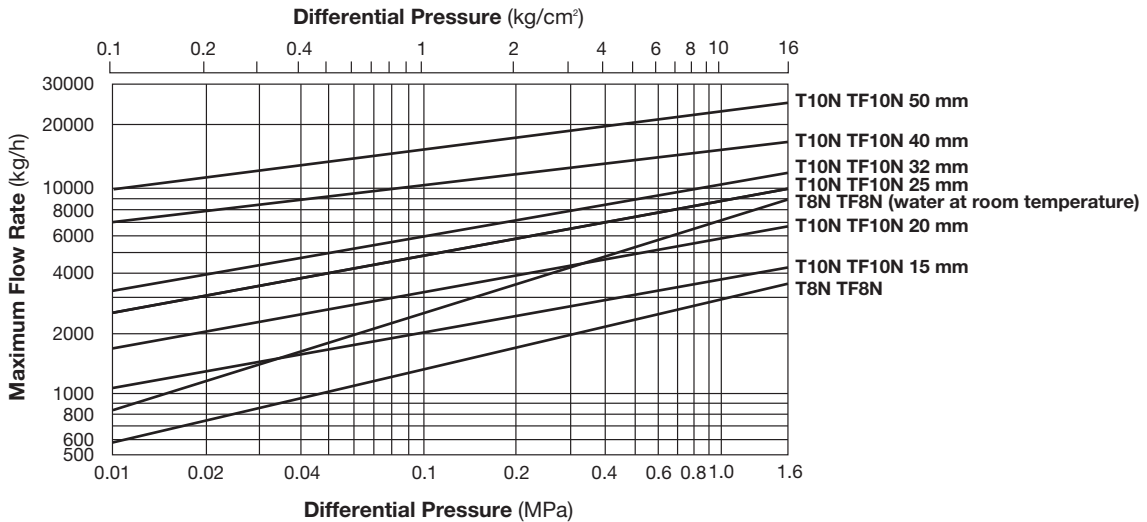
**TF8N/TF10N Flanged** (mm)

Size	L				H	φW	Through-hole Diameter**	Weight* (kg)
	ASME Class							
	125FF	(150RF)	250RF	(300RF)				
(15)	—	175	—	175	64	65	10	[2.9]
(20)	—	180	—	180	61		15	[4.6]
25	180		184	184	64		18	4.8
32	200	200	200	200	69		20	5.8
40			204	204	71		25	8.2
50			204	204	76		30	10

( ) 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  
 \* Weight is for Class 250 RF [300 RF]  
 \*\* TF10N only

**CAUTION** Install a check valve on the outlet side if there is the danger of downstream water hammer!

**Capacities**



1. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature (or continuous discharge of water at room temperature if so stated).
2. Differential pressure is the difference between the inlet and outlet pressure of the sight glass.

Manufacturer  
**TLV** CO., LTD.  
 Kakogawa, Japan  
is approved by LRQA Ltd, to ISO 9001/14001

ISO 9001  
 ISO 14001