OPERATING MANUAL

BALL FLOAT STEAM TRAP

MODEL: G15N-5



Headquarter:

MIYAWAKI Inc. 2-1-30, Tagawakita, Yodogawa-ku Osaka 532-0021 Japan Tel.: + 81-6-6302-5549 Fax: + 81-6-6302-5595 e-mail: export@miyawaki.net Affiliated Company:

MIYAWAKI GmbH Birnbaumsmühle 65 15234 Frankfurt (Oder) Germany Tel.: + 49-335-4007-0097 Fax: + 49-335-4000-122 e-mail: info@miyawaki.de

SAFETY INSTRUCTION

Prior to using G series, read this manual thoroughly to understand the correct handling and operating procedure.

Observe the **WARNING** and **CAUTIONS** given by this manual, without failure, for safe operation of the G seriese.

CONTENTS

1. Introduction ·····P.1
2. Dimensions and Specifications ······P.1
3. Installations ·····P.2
4. Trouble Shooting ·····P.3
5. Maintenance, Disassembling and Assembling ·····P.4
6. Construction ·····P.6

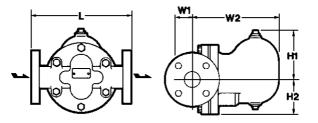
1. Introduction

Ball Float Type Steam Trap Model G15N is designed for large capacities with diaphragm type air vent and double ported balance valve.

This manual contains Installation, Trouble Shooting and Maintenance etc..

Never fail to read them to the end before using.

2. Dimensions and Specifications



		Size	Operating	Maximum	Material		Din	nensi	ons		Weight
Model No.	Connection	mm	Pressure	Temp	of			(mm)	-		
		(inch)	(MPa)	°C (°F)	Body	L	H1	H2	W1	W2	(kg)
G15N-5	Flanged	32(1-1/4) 40(1-1/2) 50(2)	0.01 to 0.5	220 (428)	Cast Iron (FC250)	300	130	90	30	230	20

3. Installation

	Before installing the trap always blow off the slugges, scales, etc.
	from the piping.

	This trap can only be installed horizontaly.
--	--

- A. Install the trap according to the direction of the arrow on the body.
- B. Install the trap at the lowest point of the steam using equipment.
- C. Pipe for easy maintenance.
- D. When recovering the condensate, outlet branch line should be piped from the trap as drawing below.

When starting of operation, be sure to control the inlet valve so that the
steam and/or condensate flow into the trap slowly.

4. Trouble shooting

Symptom	Causes	Remedy
Steam blowing	Piece of scale lodged between	Remove scale or dirt at source.
	Valve and Holder.	
	Automatic Air Vent may be	Repair or replace the Automatic
	failed.	Air Vent.
	Pressure may be too high.	Change the pressure for the inst-
		allation or select the trap for
		higher pressure.
	Opened by-pass valve.	Close it.
	Worn valve and/or Holder.	Repair or replace.
	Loose or uneven tightness	Re-tighten the Bolt.
	the Bolt.	
	Loose the Air Vent.	Re-tighten the Air Vent.
	Worn Gasket(34).	Repair or replace the Gasket.
	Loose or uneven tightness	Re-tighten the Bolt.
	the Bolt(31),(38).	
Water logging	Orifice of holder may be	Check to see of orifice clogged
	clogged.	with dirt.
	Float may be damaged or fill-	Float should be replaced.
	ed up with water.	
	Inlet valve closed.	Open the inlet valve.
	Strainer may be clogged.	Check to see of strainer clogged
		with dirt.
	Pressure may be too high.	Change the pressure for the inst-
		allation or select the trap for
		higher pressure.
	Trap may be too small.	Re-check operating conditions
		and select the trap for new high
		capacity.
	Plugged inlet pipe and/or	Re-check operating conditions
	outlet pipe.	select the trap for higher capa-
		city.
Condensate logging	Lack of differential pressure.	Re-check operating conditions
	Condensate cannot flow into a	It changes into suitable piping.
	trap easily.	
	Scales etc. lodged between	Clean the Holder(6) and Guide
	Holder(6) and Guide Wing(9).	Wing(9).

5. Maintenance, Disassembling and Assembling

_	Before disassembling a steam trap, be sure to close the valves in both
	supply and discharge lines, reduce the pressure inside the trap to
	atmospheric pressure, and allow the trap to cool before opening it.

- 1) Take off the Bolt(31),(38) and the Body(1) can be removed.
- 2) Take off the Bolt(32), the Inner Unit with the Float can be removed from the Cover (2).
- Take off Pin (40), and take off Pin (9),(10) then the lever (4) with Float (3) can be removed from the Holder (6). At this time, be careful not to lose the Collar (41) attachedto the Pin (9).
- 4) In case that scales etc. is lodged, please move the valve, or remove scale by using a required tool.
- 5) Loosen the seat of Air Vent (15), and Air vent can be removed. When you loosen the Air Vent, please remove Air vent to make a spanner parallel to the pin of the Air Vent, as shown in the right figure.
- 6) Take off the Bolt(30), then Screen(29) can be taken off.

7) Clean and inspect the body(1) and all the inner parts.

Spanner Pin

Air Vent

If not defected assemble in the opposite way of disassembling

	Clamp To	rque :	
No.	Parts	Size	Clamp Torque
31	Bolt	19mm	50N ⋅ m(500kgf ⋅ cm)
32	Bolt	14mm	30N ⋅ m(300kgf ⋅ cm)
38	Bolt	19mm	50N·m(500kgf·cm)
16	Air Vent	17mm	25N ⋅ m(250kgf ⋅ cm)

CAUTIONS When r	eassembling always replace the Gasket(33),(34) to new ones.
-----------------	---

	Also the Bolt(32),(31),(38) should be tightened evenly.
--	---

6. Details of Construction

