



FLOW & CONTROL SYSTEM PRIVATE LTD

Installation, Operation and Maintenance Manual: Float & Board Type Level Indicator (FBLI 6600)

Flow & Control System Private Limited, India

Website: www.flowcontrol.co.in

Flow & Control System Private Ltd
Works: 16/5, Main Mathura Road Plot No: 11,
Lane No: 2 Karkhana Bagh,
Opposite: DPS School, Faridabad – 121001

Mobile (+91): 9810452741/9643947660
Email id: quality.rflevel@gmail.com
info@flowcontrol.co.in



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Installation, Operation and Maintenance Manual: Float & Board Type Level Indicator (FCS FBI 6600)

Introduction:

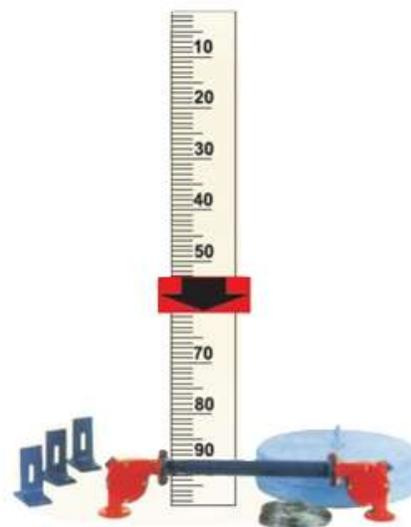
A reliable and accurate system designed for measuring liquid levels in tall or overhead tanks.:

Working:

Built for efficiency and durability, this instrument is ideal for large storage tanks. As the liquid level rises, the float moves upward, driving the pointer on the graduated scale. The float is linked to the pointer through a wire rope that moves smoothly over low-friction nylon rollers, ensuring consistent and maintenance-free operation.

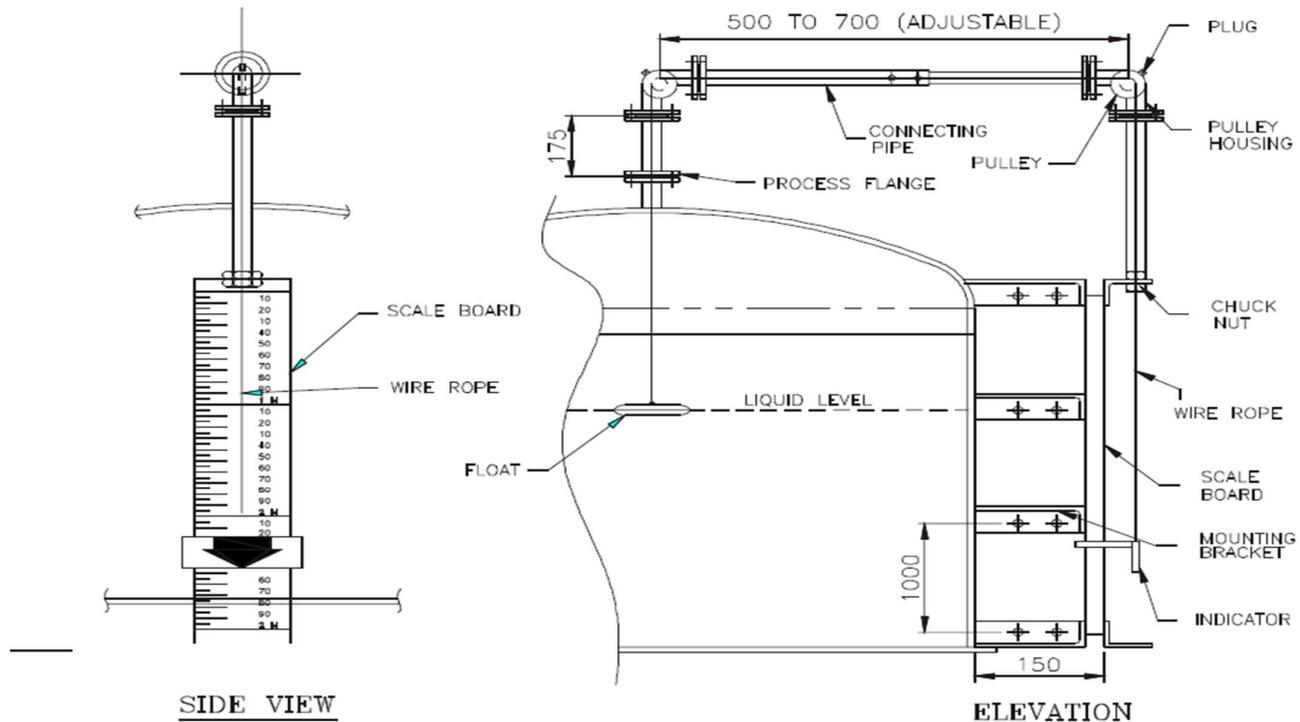
Suitable For:

- Overhead and ground storage tanks
- Water, fire water, and DM water tanks
- Petroleum products such as oil, diesel, and LSHS
- Lube oil and similar industrial liquids
- Storage of vegetable oils, molasses, silicates, glucose, etc.
- All non-hazardous, non-pressurized tanks





Float & Board Type Level Indicator FCS FBLI 6600



Specification:

Parameter

- Float Size
- Pulleys
- Pulley Enclosure
- Mounting
- Connection
- Protection Pipe
- Graduation
- Scale
- Scale Bracket
- Pointer/l Indicator
- Wire Rope Diameter
- Rated Temperature
- Rated Pressure
- Float & Wire Rope
- Pulleys (Material)

Description

375 mm DIA × 80 mm HT, Argon welded

2 Nos., designed for smooth and precise rotation

PP / Cast Aluminium / SS 304 / SS 316 / HDPE / PTFE / Rubber Lined

Top of the tank

Flanged or screwed

MS / SS 304 / SS 316 / PP / HDPE / PTFE / Rubber Lined

In mm (LC = 5 mm) × Numerical red × Black graduation marks

Metallic painted PVC laminated / Aluminium painted PVC laminated / SS 304 / SS 316

Cast Aluminium at every scale length

C.S. painted with Epoxy Coated Paint / SS 304 / SS 316

1.6 mm (Dia. multistrand) / 3 mm (Dia. for PP)

60°C for PP / 120°C for SS

1 kg/cm²

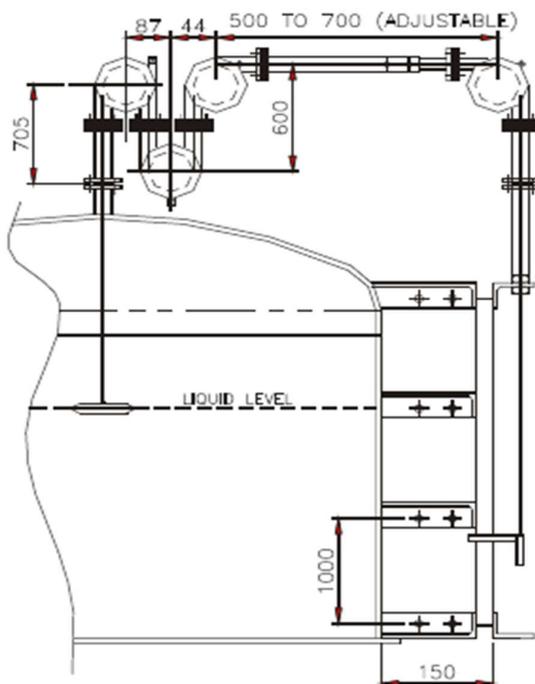
PP / HDPE / PTFE / SS 304 L / SS 316 / SS 316 L

PP / HDPE / PTFE / SS 304 L / SS 316 / SS 316 L

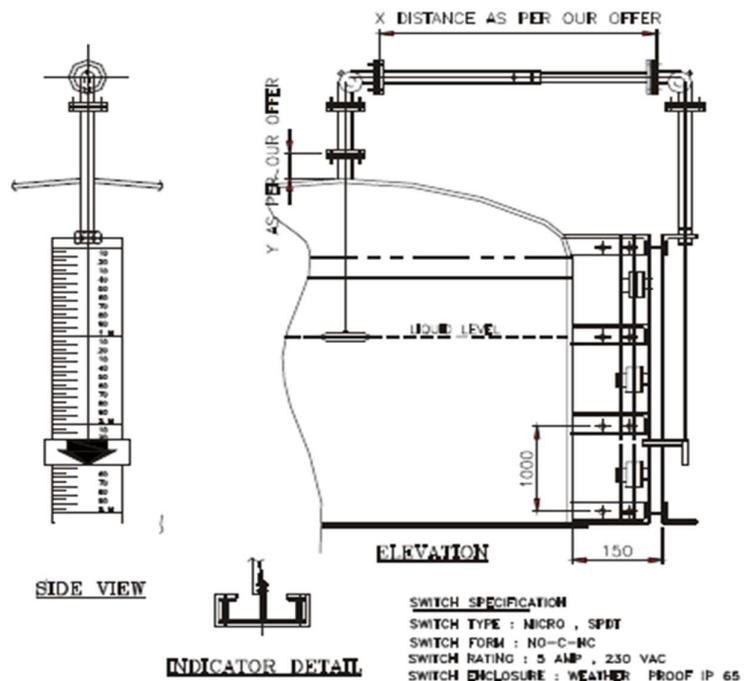


Float & Board Type Level Indicator

with 'U' SEAL arrangement
Product Code: FCS FBLLI 6600 U SEAL

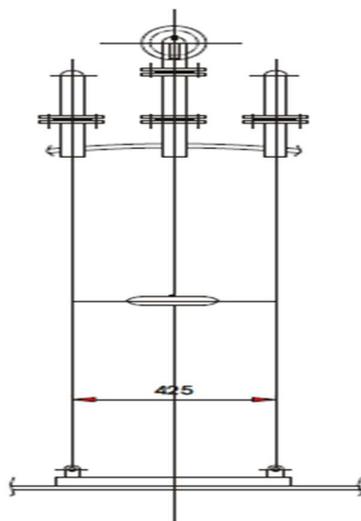


with Level Control Switch
Product Code: FCS FBLLI 6600 LS

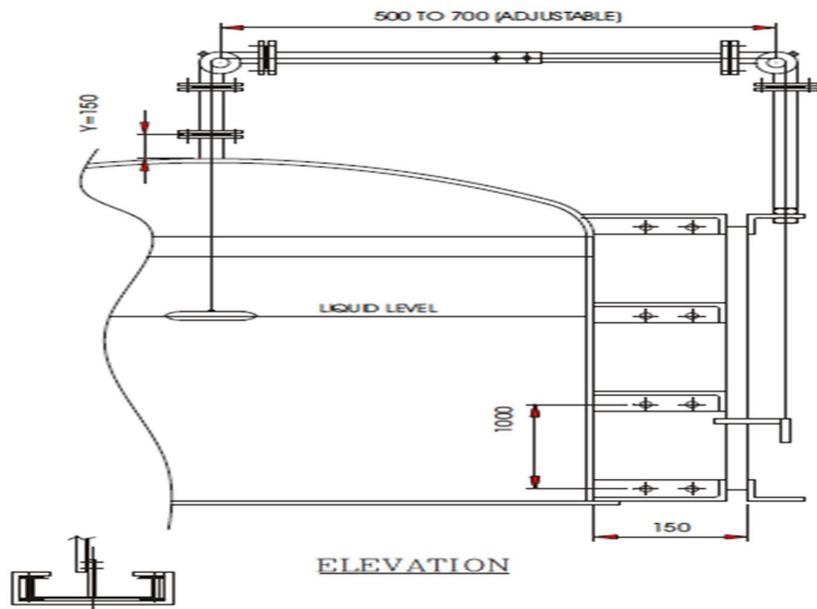




With TENSIONER Assembly Product Code: FCS FBI 8800



SIDE VIEW



ELEVATION

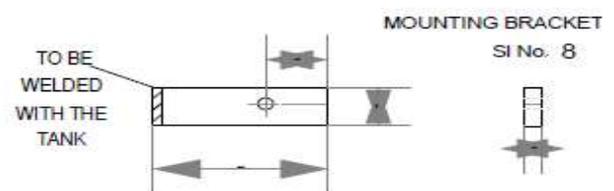
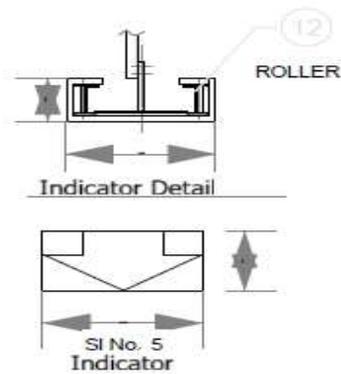
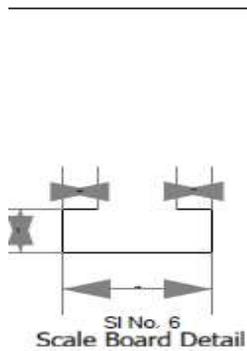
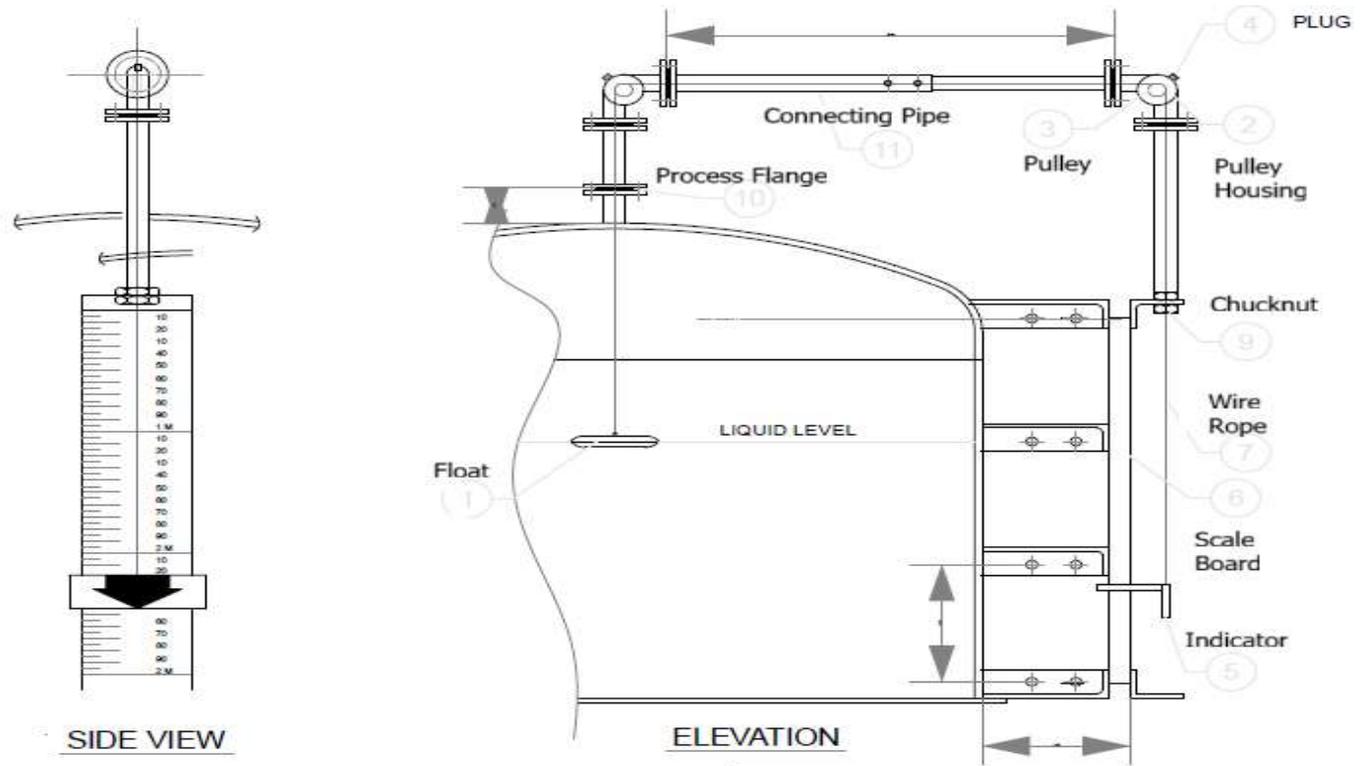


Bill of Material

Sr. No.	Description	Quantity
1	Float	1
2	Pulley Housing	2
3	Pulley	2
4	Plug	1
5	Indicator	1
6	Scaleboard	1 Set
7	Wire Rope	--
8	Mounting Bracket	--
9	Chuck Nut	2
10	Process Flange	1
11	Connecting Pipe	1 Set
12	Roller	6



Title: GA Drawing for Float & Board Type Level Indicator (FCS FB LI 6600)



Note: All Dimensions are in MM

SI No.	DESCRIPTION	QTY.
1	FLOAT	1
2	PULLEY HOUSING	2
3	PULLEY	2
4	PLUG	2
5	INDICATOR	1
6	SCALE BOARD	1 SET
7	WIRE ROPE	-
8	MOUNTING BRACKET	-
9	CHUCK NUT	2
10	PROCESS FLANGE	1
11	CONNECTING PIPE	1 SET
12	ROLLER	6

(MOC can be customised as per Customer's Requirement)



Data required to submit the quotation:

- Product Code
- Name of the Liquid
- Operating Temperature
- Operating Pressure
- Operating Density
- Height of the Tank
- Operating Specific Gravity
- Connection Details
- Material Of Construction
- Accessories
- Measuring Distance ('X' & 'Y')
- Accessories



Quality Assurance Plan: Float & Board Type Level Indicator

Float & Board Type Level Indicator

No.	Component	Check Characteristic	Type of Check	Quantum of Check	Reference Standard Documents/Acceptance Norms	Format of Records					Remarks (if any)
						M	C	V	W	Scope	
A. Materials											
1	Pipe, Float, Plate, Flange, Wire-Rope	Surface finish & Dimensions	Visual & Dimensional	100%	As per requirement given in P.O. approved Drawings, & given Std. Specification	✓	✓	✓	✓	C	Goods Receipt Note
2	Scale, Float, Flange-Channel	Chemical properties.	chemical	Random	As per requirement given in P.O. approved Drawings, & given Std. Specification	✓	✓	✓	✓	C	Mfr. s/Lab T.C.
3	Adjustable rods, Pulley Housing	Surface finish & Dimensions	Visual & Dimensional	100%	As per requirement given in P.O. approved Drawings, & given Std. Specification	✓	✓	✓	✓	C	Goods Receipt Note.
B. BOUGHT OUTS / JOB WORK											
1	T-Bracket, Angle, Base Plate	Surface finish & Dimensions.	Visual & Dimensional	Random	From Approved Vendor.	✓	✓	✓	✓	C	Goods Receipt Note/ Vendor
2	Pointer, Fasteners, gasket etc.	Surface Finish, Dimensions	Visual & Dimensional	Random	From Approved Vendor.	✓	✓	✓	✓	C	Goods Receipt Note/ Vendor.
C. IN PROCESS											
1	Machining	Dimension	Measurement	100%	As per Approved Drawing Of Mfr.	✓	✓	✓	✓	C	Internal Inspection Report
2	Welding	Welding Quality	Visual	100%	As per Approved Drawing Of Mfr.	✓	✓	✓	✓	C	Internal Inspection Report
3	Assembly	Dimensions & conformity orientation	Visual & Dimensional	100%	As per Approved Drawing Of Mfr.	✓	✓	✓	✓	C	Internal Inspection Report
4	Testing	Leak Tightness	Hydro Test	100%	No leak at rated pressure for 20 min.	✓	✓	✓	✓	C	Internal Inspection Report
5	Painting & Cleaning	Surface finish	Visual	100%	As per P.O. & approved Drawing Of Mfg.	✓	✓	✓	✓	C	Internal Inspection Report
6	Final Inspection	Final finish & Appearance	Visual	100%	• Good Finish	✓	✓	✓	✓	C	Internal Inspection Report
		Completeness of supply with spares & access.	Visual	100%	• As per P.O. & App. Drawing	✓	✓	✓	✓	C	Internal Inspection Report

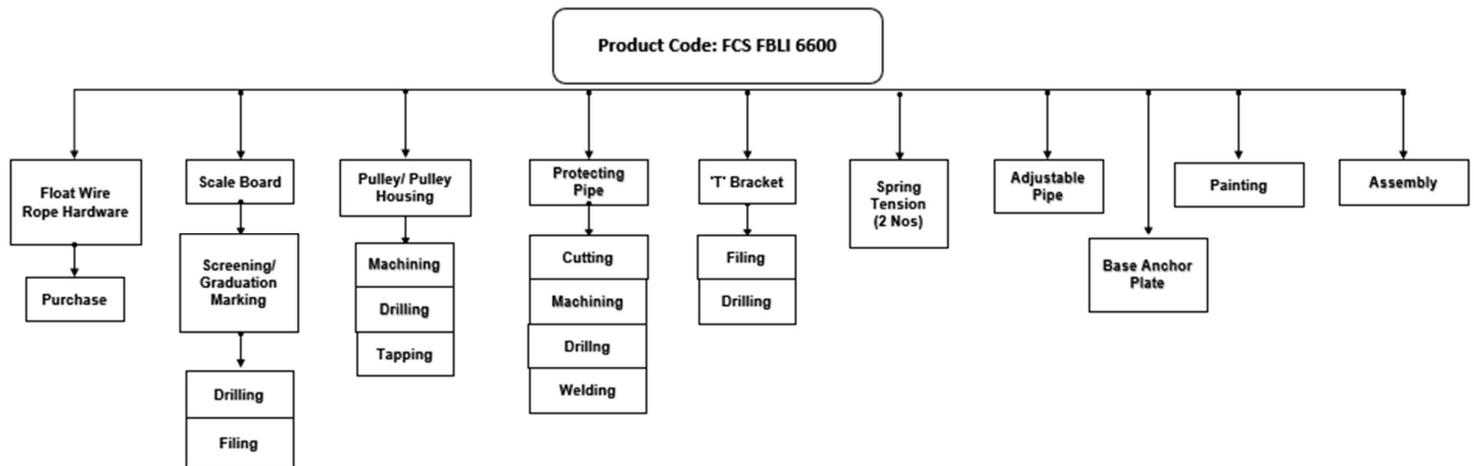
Legends:

:C: Customer, :M: Manufacturer, :V: Verify, :W: Witness
 :P: Perform,

*Performance Test Procedure: Performance Test: M-100%, C-10%
 The Float & Board Type Level Indicator (FCS FBUI 6600) will be installed step by step as per our GA Drawing.
 *Testing 100% by M/s Flow & Control (P) Ltd. and Client may witness randomly as agreed upon.



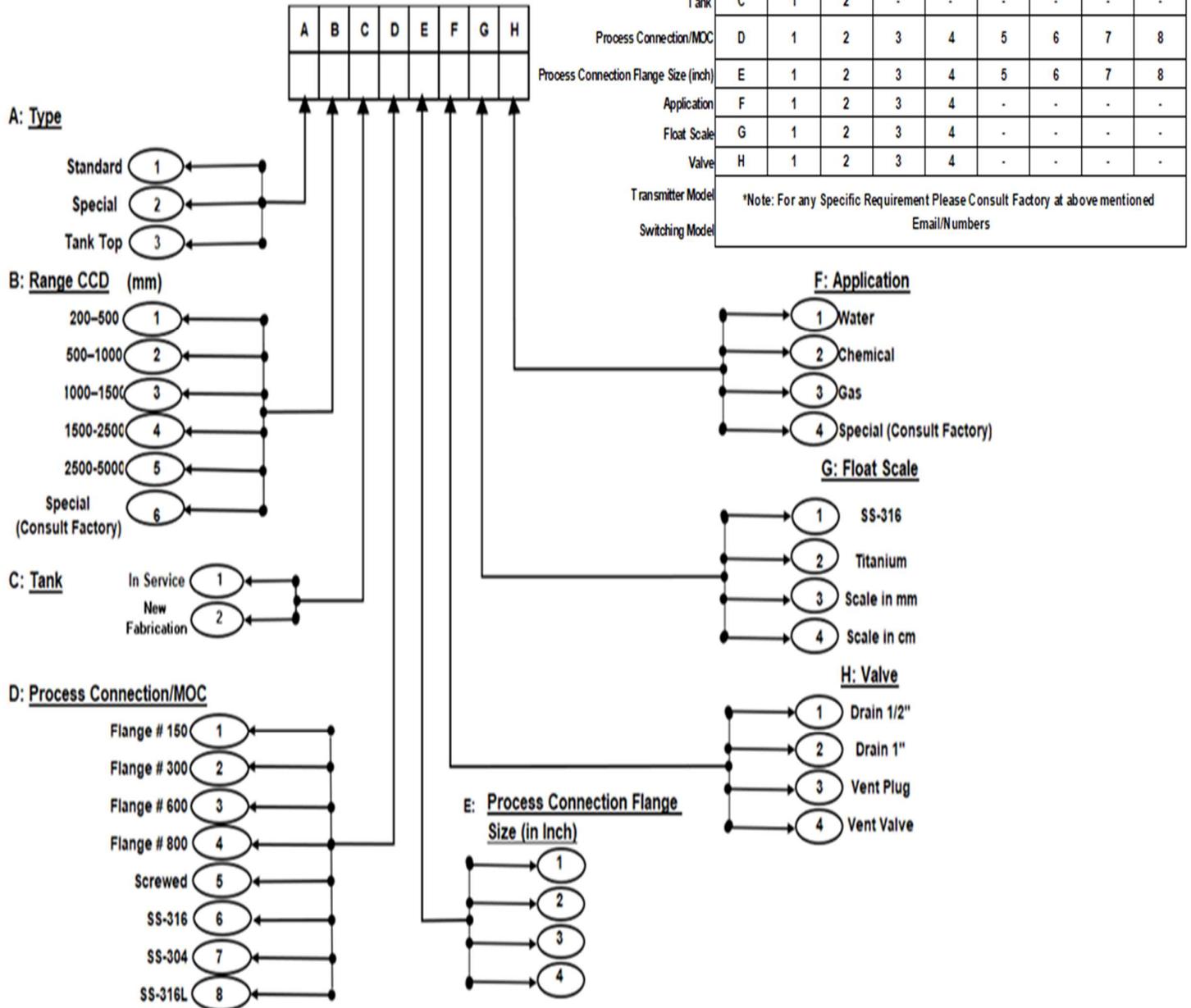
Process Flow Chart: Float & Board Type Level Indicator





DE codification: Float & Board Type Level Indicator

Order Code:



Reviewed & Approved By: Technical Head

Remarks:



Assured Quality & Less Service Cost

Service Policy

Owners may return any Flow & Control System instrument or component for rebuilding or replacement. Returns must be shipped prepaid. The company will repair or replace the gauge free of charge, excluding transportation costs, provided that, if:

- **Returned within the warranty period; and**
- **The factory inspection finds the cause of the claim to be covered under the warranty.**

If the issue arises from conditions beyond our control or is not covered under warranty, charges for labour and replacement parts will apply. In certain cases, it may be necessary to ship replacement parts or a new instrument before the original is returned.

To arrange this, please provide the model and serial numbers of the instrument to be replaced. Credit for returned materials will be determined based on warranty applicability. Claims for misapplication, labour, or consequential damages will not be accepted.

Return Material Procedure

To ensure efficient processing of returned materials, a Return Material Authorization (RMA) number must be obtained from the factory before shipment. This can be arranged through your local Flow & Control System representative or by contacting the factory directly. Please provide the following information:

1. **Company Name**
2. **Description of Material**
3. **Serial Number**
4. **Reason for Return**
5. **Application**

Units previously used in a process must be thoroughly cleaned in accordance with Occupational Safety and Health Administration (OSHA) standards before return. A Material Safety Data Sheet (MSDS) must accompany any unit exposed to process media. All returns must be shipped prepaid, and all replacements will be dispatched F.O.B. factory.

Our Footprints in India and Across the Globe
Trusted by leading organizations in Energy, Oil & Gas, Power & Process Industries.



Manufacturing Units:

MIDDLE EAST

Flow & Control System Private Ltd.
 INTERNATIONAL SOLUTIONS 4 INDUSTRIAL SERVICES

Dammam 1st Industrial City,
 P.O. Box 682, Dammam 31421, **KSA**
Phone: (+966): 33445540/6940/6938/5738 X 193
Fax: +966 3 344 5543
E-mail: Sales@IS4IS.COM

ASIA: INDIA

Flow & Control Systems Private Ltd.

16/5, Main Mathura Road,
 Plot No: 11 2nd Lane, Karkhananagh,
 Faridabad Haryana- 121002 **INDIA**
Phone: + 91 124-4366000-09 (10 Lines)
E-mail: info@flowcontrol.co.in,
 quality.rflevel@gmail.com
Website: www.flowcontrol.co.in

Global Presence: Australia, Bangladesh, Canada, Dubai, India, KSA, Nepal, UAE

Worldwide: <http://www.is4is.com>

Mobile (+91): 9810452741/9643947660
Email id: quality.rflevel@gmail.com
info@flowcontrol.co.in

Flow & Control System Private Ltd
Works: 16/5, Main Mathura Road Plot No: 11, Lane
 No: 2 Karkhana Bagh, opposite: DPS School,
 Faridabad - 121001