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**Prashant D. Parmar**  
(M) 75758 75275

**Jayesh A. Prajapati**  
(M) 91064 59008



**Navshad K. Ansari**  
(M) 63522 63759

**RJN INSTRUMENTS MFG. CO.**

**Mfgs : Process Control Measuring Instruments & Safety Equipments**

Plot No. 5017, Behind Meghmani Organics, GIDC, Ankleshwar - 393 002. Dist. Bharuch. (Gujarat)  
Email : [rjninstruments01@gmail.com](mailto:rjninstruments01@gmail.com) | [sales@rjninstruments.com](mailto:sales@rjninstruments.com)

Website : [www.rjninstruments.com](http://www.rjninstruments.com)



## LEVEL MEASURING INSTRUMENTS

### Side Mounted Heavy Duty Tubular Level Indicator (Model No.RJN-TLI-01)



Tubular level gauge directly indicates liquid level in atmospheric or pressurized tanks. It is a simple & reliable device mounted parallel along the side of tank.

**Range:** 0 4.0 Mtr

**Material of Const:**

CS / PP / SS 304 / SS316 / PVC / Rubber Teflon Lined

**Glass Tube:** Heavy wall borosilicate glass 19mm / 16 mm

**Scale:** M/C engraved on Aluminium / Acrylic / SS graduated in cms

**Features:** Isolation valves of CS / PP / SS304 / SS 316 / Teflon

**Pressure rating:** 10 kg/cm<sup>2</sup>



### Float & Board Type Level Indicator (Model No.RJN-FBLI-02)



Suitable for measurement of liquid level in over ground / over head storage tanks. Usually consists of float, dust proof pulley housing, pointer cradle with nylon & 150 mm wide alluminium scale with screen printed marking.

**Range:** 0 20.0 Mtr

**Float:** SS 304 / SS 316 / PP / Aluminium / MS / Teflon lined

**Wire Rope:** SS 304 / SS 316 / Teflon / Nylon

**Pulley:** Aluminium / PP / SS 304 / SS 316

**Housing:** Aluminium / PP / SS 304 / SS 316

**Accuracy:**

±1.5 % full scale reading



### Reflex Level Gauge (Model No.RJN-RLG-03)



Suitable for high temp & press application & corrosive, colour less liquid under critical conditions.

**Range:** 0 4.0 Mtr

**Cover Plate:** CS / MS / SS304 / SS 316

**Liquid Chamber:** CS / SS 304 / SS 316

**End fittings:** CS / SS 304 / SS 316 / PP / PTFE

**Nut bolts:** Alloy Steel

**Glass:** Toughened Borosilicate / Klinger / Illmadur

**Packing:** Neoprene / CAF / Teflon

**Valve body:** SS 304 / SS 316

**Temp:** 300° C

**Pressure Rating:** 75 kg / cm<sup>2</sup>



### Top Mounted Level Indicator (Direct Indication)



#### (Model No.RJN-TMLI-04)

Suitable for continuous level indicator of horizontal, underground tank, containing very hazardous & corrosive liquid in nature.

**Range:** 0 4.0 Mtr

**Material of Wetted Part:** CS / SS 304 / SS 316 / PP / PVC

**Material of Float:** CS / SS 304 / SS 316 / PP / PVC / Teflon

**Temp:**

350° C for Teflon or 60° C for PP

**Pressure:** 20 kg / cm<sup>2</sup>



### Side Mounted Magnetic Level Indicator (Model No.RJN-SMMLI-05)



Suitable for continuous level indication of fuming liquid which attacks glass very corrosive and hazardous liquid SS Float which is equipped with alnico magnet move up and down along with the level increase or decrease. The float magnet movements is magnetically coupled to the follower outside chamber which is enclosed in a glass tube.

**Type:** Capsule type / Rotocylinder (By Color Flapper) type

**Range:** 0 4.0 Mtr Bi-Colour Flapper Type

0 5.0 Mtr Capsule type

**Material of wetted part:** SS 304 / SS 316 / PP / PVC / Teflon

**Material of float:** SS 304 / SS 316 / PP / PVC / Teflon lined

**Scale:** M/C engraved on bakelite anodised aluminium sheet graduated in cms.

**Pressure rating:** 40kg/ cm<sup>2</sup>

**Features:** Low & High Level Alarms

\* 4-20mA transmitter

\* Digital Indicator



### Float & Board Type Magnetic Level Indicator (Sealing Type)



#### (Model No.RJN-FBMVSLI-06)

Magnetic vapour sealing type suitable for reaching liquids like HCL / HNO / NH4OH & other liquids where absolute vapor tightness is required.

**Range:** 0 20.0 Mtr

**Float:** SS 304 / SS 316 / PP / Aluminium / Teflon lined

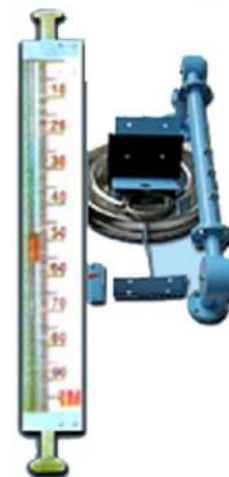
**Wire Rope:** SS 304 / SS 316 / Teflon/ Nylon

**Pulley:** Aluminium / PP / SS 304 / SS 316 / PTFE / Glass

**Housing:** Aluminium / PP / MS / SS 304 / SS 316 etc.

**Temp rating & Pressuring:**

200°C / 20 kg / cm<sup>2</sup>





## LEVEL MEASURING INSTRUMENTS

### Top Mounted Magnetic Level Indicator (Model No. RJN-TMMLI-07)



Simple principle of mechanics & magnetism harnessed to offer an absolutely safe, reliable & trust worthy level indicator for dangerous & toxic liquids under high pressure & temperature. As the liquid level rises in the tank, the float is lifted up due to buoyancy. The float carries a stem attached to it & on the other side of the stem a magnet is fixed. The float stem moves inside an SS enclose. External to this enclose is a glass tube, which carries the magnetic follower. Due to magnetic attraction, the magnet on the float stem & the magnetic follower also moves inside the glass tube, & the position of the follower can be read against the scale.

**Liquids :** Acids / Alkalies / Solvents / Oils / Lubricants/Liquid Gases Stored in Underground or Over Ground Tanks.

**Density / Sp. Gravity :** Minimum 0.6

**Range (Tank Height) :** 0 3.0 Mtr

**Material of Wetted Parts :** SS 304 / SS316L / PTFE Lined SS / PVC / PP

**Connection:** Flanged to ASA / BS / DIN / Triclove

**Minimum Nozzle size** required 4" NB for

Liquids Below 0.8 Density,

**Temperature:** Up to 350° C,

**Pressure :** Up to 20 Kg/cm<sup>2</sup>, **Viscosity:** Up to 250cp



### Cable Float Type Switch (Model No. RJN-CFS-08)



Low Cost polypropylene level switch

- Hermetically moulded, double chamber
- Mercury free operated micro switch
- Direct pump control up to 1.1 kW
- Adjustable switch differential
- Low specific weight of the floating body



### Side Mounted Magnetic Level Switch (Model No. RJN-SMMLS-09)



Side Mounted magnetic level switch on side of nozzle of the tanks, float position changes with the level which in turns with the help of magnetic coupling changes the switch contacts.

**Size :** 40 NB to 100 NB

**Material of Wetted Parts :**

SS304 / SS316 / PP / Teflon lined,

- Weather proof / Flame proof enclosures.



### Top Mounted Magnetic Level Switch (Model No. RJN-TMMLS - 10)



Suitable for automatic operation of pumps gives change over contact at predetermined level step less adjustment of switching point entire range without interrupting to process. Switching contact arthritically sealed in glass hence safe and totally protecting them from Surroundings

**Wetted Parts :**

SS 304 / SS 316 / PP / PVC / PTFE

**Casing :** Weather proof / Flame proof

**Max. Pressure :** 0 20 Kg/Cm<sup>2</sup>

**Temp :** 80°C Temperature can be

wired directly with low load,

use control (Relay) unit for high

resistive / inductive loads



### Top Mounted Displacer Type Level Switch (Model No. RJN-TMDLS - 11)



Displacer Level Switch, which is integrated with latest features that ensure better results and functioning.

These Displacer Level Switches are the most versatile for level control and control agitated liquids paints varnished & heavy oil and foaming liquids. Moreover, these Level Switch are flange mounted and are available with a choice of material of construction.

Micro Switch Operated rated at 5 or 15 Amp 220 VAC Standard up to 15 meter length

**Size :** 40 NB to 200 NB

**M.O.C. :** SS 304 / SS316 / PP & PTFE

**Displacer :** Single / Multiple Displacers, max up to 3 displacers

**Differential :** 70 mm (Maximum)



### Capacitance Level Indicator Switch & Transmitter (Model No. RJN-CLT-12)



Capacitance Level Indicator, Switch And Transmitter is ideally suitable for level having a stable dielectric constant. The performance of these instruments is not affected by the properties of the liquid such as conductivity, corrosiveness and viscosity.

**Range (Tank Height) :**

0 10.0 Mtr (depending upon probe)

**Connection :**

Flanged to ASA / BS DIN /

Screwed BSP / NPT

**Probe Material :** SS304 / SS 304L

/ SS 316 / SS316L / PTFE / Lined

**Temperature :** Up to 350°C,

**Pressure :** Up to 40 Kg / cm<sup>2</sup>



## FLOW MEASURING INSTRUMENTS

### Glass Tube Rotameter (Model No. RJN-GTR-21)



Designed on variable area basis using tapered borosilicate glass tube pressure rating at 10 kg/cm<sup>2</sup> temp at 150°C.

**Flow Range :** 10 to 30,000 LPH of water / Liquid & 0.1 to 750 Nm<sup>3</sup>/hr of Air/Gas at NTP

**Fluid :** Liquids & Gases

**Line Size :** Up to 4"

**Material of wetted part :** MS / CS / SS304 / SS316 / PP / PTFE Lined MS or SS

**Viscosity :** Up to 100 cp,

**Accuracy :** ± 2 % full scale reading

**Accessories :** \* Steam jacketing

\* Screwed \* Flanged Hose connection

\* High & Low Flow Alarms



### By Pass Rotameter (Orifice Assembly) (Model No. RJN-BPR-22)



Suitable for high range of fluid in pipe line between 2" or above upto 300 mm NB. Where on line rotameter cant be used. It consist of one orifice plate to be mounted in the pipe line between two flange. one more integral orifice with two inlet & outlet & one by pass rotameter is provided to read, direct flow.

**Orifice Range :** 25 to 800M<sup>3</sup>/hr of water

**Fluid :** Liquids & Gases

**Material of wetted part :** MS / CS / SS304 / SS316

**Orifice :** SS 304 / SS 316

**Accuracy :** ± 2 % full scale reading

**Accessories :** \* Isolation valve

\* High & low flow alarms

\* With 4-20mA two wire transmitter

\* Digital Indicator, Totaliser



### Acrylic Body Rotameter (Model No. RJN-ABR-23)



It is an instrument used to measure instant flow rate of Liquids and Gases and are commonly used for flow measurement.

**Flow Range :** 2.5 to 4000 LPH of Water Liquid 0.1 to 300 Nm<sup>3</sup> / hr of Air/Gas NTP

**Fluid :** Liquids & Gases

**Line Size :** 15mm NB to 100NB

**End Connection Material :** SS 304 / SS 304L / SS 316 / SS 316L / PTFE / Hastalloy / PVC / PP

**Temperature :** Up to 50°C,

**Pressure :** Up to 8 kg / cm<sup>2</sup>

**Connection:** Flanged to ASA/ BS/ DIN Triclover Standard

Screwed to BSP/NPT(M/F)

**Accuracy :** ± 2 % full scale reading



### Low Flow Rotameter (Model No. RJN-LFR-24)



Suitable for measurement of low flow rate of liquid or gases.

Fittings : Top / Bottom / Rear / as per requirement in SS screwed nozzle or hosepipe connection are offered on request

**Material of Const. :**

\* Borosilicate glass tube fitted in SS304 / wetted parts SS316 & Acrylic

\* Fabricated with clear & unbreakable perspex plastic body, scales are directly engraved on tapered position.

**Flow Range :** Between 0.5 to 150 LPH of water of ambient temp 15 to 4000 LPH of air at NTP

**Accuracy :** ± 2 % full scale reading

**Accessories :** \* Built in Needle valve

\* D.P. Regulator \* High & Low Flow Alarms



### Metal Tube Rotameter (Model No. RJN-MTR-25)



Suitable For Measuring Flow Rate For Translucent Opaque Liquid, Gases Under High Temp. & Pressure.

**Flow Range :** 100 to 100,000 LPH of water at ambient temp.

7000 NM<sup>3</sup> / Hr off air at NPT

**Fluid :** Liquids & Gases

**Line Size :** 15mm NB to 200mm NB

**Material of wetted part :** SS 304 / SS 316 / PP / PVC / Teflon Linned.

**Temperature :** Up to 150°C

**Pressure :** Up to 25 kg / cm<sup>2</sup>

**Accuracy :**

± 2 % full scale reading

**Accessories :** \* Steam jacketing

\* High & low flow alarms

\* 4-20mA transmitter out put

\* Digital Indicator, Totaliser.



### Orifice Flange Assemblies (Model No. RJN-OFA-26)



Orifice Plate Designed as per BS Standards 1042 part 1964 on IS Standards, Flanged are available as per customer's specifications. Orifice plate along with Flanges are suitable for installation in 50 NB and above pipe lines sizes and can be provided in wide on Material.





## FLOW MEASURING INSTRUMENTS

### Full View Sight Glass-Tubular type (Model No. RJN-FVSG-27)



Suitable where max visibility is desirable and mech strains in the pipe line are not present.  
These are all low pressure type mounted vertically & Horizontally.

**Size :** ½" to 8"

**Material of wetted part :**  
CS / SS 304 / SS 316 /  
PP / PTFE  
**Pressure :** 10 kg / cm<sup>2</sup>



### Sight Flow Indicator-Double Window type (Model No. RJN-SFIDW-28)



Suitable for Highly Pressure & Temp.  
This are all type mounted vertically & Horizontally.

**Size:** ½" to 10"

**Material of wetted part :**  
CS / SS304 / SS316  
/ PP / PTFE  
**Pressure Rating :**  
10 to 25 Kg / cm<sup>2</sup>,  
Temp: 300°C



## PRESSURE MEASURING INSTRUMENTS

### U TUBE MANOEMTER (Model No. RJN-UTM-41)



U - Tube primary standard manometer used for precision measurement of pressure. Vacuum, differential pressure and flow measurement in plants and labs were certain accuracy is required.

**Range :**

Between 50-0-50 to 250-0-250 mm  
in Acrylic Body 100-0-100, 150-0-150 ,  
250-0-250, 300-0-300, 500-0-500,  
750-0-750, 1000-0-1000 &  
2000-0-2000 mm in Metallic Body

**Available in wall mounted  
and stand**



### SINGLE LIMB MANOEMTER (Model No. RJN-SLM-42)



Single Limb well type direct reading Manometer for the precision measurement of pressure vacuum differential pressure flow and liquid level measurement.

**Range :** Between 0 to 4000 mm  
WC/HG Available in wall mounted  
and stand mounted with  
level adjustment screws.



### Macleod Gauge Manometer (Model No. RJN-MGM-43)



This is the absolute measuring instrument for vacuum which gives pressure exerted by permanent gages. The gauge works on the principle of Boyle's law of gases. Two parallel capillary tube are connected to a common mercury bowl. The rise of mercury column in the capillary gives the vacuum in mm/hg. Macleod gauges measures absolute vacuum in its very last stages.

**Range:** Between 0 to 10 Torr



### Inclined Tube Manometer (Model No. RJN-ITM-44)



Inclined Manometers utilise expanded scales for usual sensitivity for fast easy reading of low pressures. Draft for small differential pressure. They are available in simple standard Models as well as extreme precision Inclined Manometer.

**Range :**  
0-5, 0-10, 0-20, 0-25,  
0-50, 0-100 & 0-200 mm



## SAFETY EQUIPMENT

### Flame Arrestor (Model No. RJN-FA-51)



Flame arrestor are safety device designed to extinguish or check the travel of flame in pipelines and ducts and to prevent flame spreading from them into or put of plant and equipments. Elements are stainless steel with a cast aluminium, carbon steel or stainless steel casing

**Size :**  
1/2" to 24"  
(15 NB to 600 NB)

**M.O.C. :** CS / SS 304 /  
SS 316 / PP / SS PTFE /  
Hastolloy-C / Aluminum LM6



### Drum Type Flame Arrestor (Model No. RJN-DFA-52)



Flame arrestor are safety device designed to extinguish or check the travel of flame in pipelines and ducts and to prevent flame spreading from them into or put of plant and equipments elements are stainless steel with a cast aluminium, carbon steel or stainless steel casing.

**Size :** From 1/4" to 2" (12 NB to 50 NB)

**M.O.C. :** CS / SS 304 /  
SS 316 / PP / SS PTFE /  
Hastolloy-C / Aluminum LM6



### Breather Valve (Pressure & Vacuum) (Model No. RJN-BV-53)



Pressure & vacuum relief valve is designed not only for product vapour conservation but also to allow tank breathing. The pressure and vacuum functions are combined in one fitting.

**Size :** 1"-16" (25 NB - 400 NB)

**M.O.C. :** CS / SS304 / SS316 /  
PP / SS PTFE / Hastelloy



### Breather Valve Cum Flame Arrestor (Model No. RJN-BVFA-54)



A Breather valve cum flame Arrestor is a device of combine which allows gas & solvent to pass through it but stops a flame in order to prevent with safe of tank for pressure & vacuum & save your material of continue losses and safe with larger fire or explosion.

**Size :** 1"-16" (25 NB - 400 NB)

**M.O.C. :** CS / SS 304 / SS 316 /  
HASTELLOY-C / PTFE LINED



### Safety Relief Valve (Model No. RJN-SRV-55)



"RJN" make Safety Relief Valves are manufactured in accordance to API 526 & API 520. We assure best engineering to produce highly efficient Safety of your plant & people. We can manufacture Safety Relief Valves for extreme applications such temperature upto 500°C & high pressure up to 600 kg/cm2.

We manufacture Safety Relief Valves in various types, materials such as

**Type :** Self Actuating, Spring Loaded, Full Lift.

**Size :** 1/2"- 12" (15 NB - 300 NB)

**End Connection :**

Screwed, Flange End type

**M.O.C. :** CS / SS 304 / SS 316,  
HASTELLOY-C / PTFE LINED



### Pressure Reducing Valve (Model No. RJN-PRV-56)



There are various types of Self Actuating Type Pressure Reducing Valve upon the working pressure. Flow Rates and Fluids.

Self Acting, Pilot & Piston operated Reducing Valves are more Pressure Reduction of STEAM in all types of industries. The Valve Spring Balance principle. The Downstream Pressure is Sense Diaphragm Which is balanced by the Spring Tension increasing sp.

Increase Outlet Pressure and Vice Versa.

We manufacture Pressure Reducing Valves in various types, materials such as

**Type :** Self Actuating, Pilot Operated

**Size** 1/2"- 4" (15 NB - 100 NB)

**End Connection :**

Screwed, Flange End type

**M.O.C. :** SS 304 / SS 316 /  
HASTELLOY-C / PTFE LINED

