

## RCD Flow-metering (Mechanical Type)

RCDs are meant for storage and disbursal of High-Speed Diesel Oil / Bio Diesel for utilization in Running of Diesel Locomotives in Indian Railways. The P. D. Flow Meters play vital role in measurement and control of fuels being supplied. It is an integral part of any RCD operation.



3" P. D. Flowmeter in operation at RCD location



Since 1980

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Plot No. PAP-A-8/6, "A" Block, Phase IV, MIDC Chakan, Opp Mahindra Vehicle,  
Dist. Pune - 410 501, Maharashtra.  
Tel : +91 9168179461/ 9168176683  
E-mail : [ho@vermonttechnologies.co.in](mailto:ho@vermonttechnologies.co.in)  
Website : [www.vermonttechnologies.co.in](http://www.vermonttechnologies.co.in)

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**Salient features of Vermont RCD metering:**

- High Accuracy of better than +/- 0.1%:
- Low Pressure Drop
- Mechanical or Electronic Read-out
- Legal Metrology Certification (Weights & Measures)
- Modular Construction
- Ease in Calibration and Recertification.
- All India Service & after sales Support.

**Some of RCD locations where Vermont P D Flowmeters installed are:**

- |                    |                      |                      |
|--------------------|----------------------|----------------------|
| - RCD Agartala     | - RCD Saharanpur     | - RCD Bokaro         |
| - RCD Allahabad    | - RCD Moradabad      | - RCD Rampurhat      |
| - RCD Mumbai CST   | - RCD Purna          | - RCD Hanumangarh    |
| - RCD Gondia       | - RCD Nandurbar      | - RCD Hubli          |
| - RCD Bhusawal     | - RCD Motibagh       | - RCD Kannur         |
| - RCD Dallirajhara | - RCD Barauni        | - RCD Bhajudih       |
| - RCD NKJ          | - RCD Lumding        | - RCD Katni Junction |
| - RCD Satna        | - RCD Nallapadu      | - RCD Panvel         |
| - RCD Nainpur      | - RCD Visakhapatanam | - RCD Kalyan         |
| - RCD Habibganj    | - RCD Tinsukia       | - RCD Katra          |
| - RCD Indore       | - RCD Badarpur       | - RCD Brajarajnagar  |
| - RCD Itarsi       | - RCD Shahjahanpur   | - RCD Burdhaman      |
| - RCD Bilaspur     | - RCD Guwahati       | - RCD Saharsa        |
| - RCD Daund        | - RCD New Guwahati   | - RCD Patratu        |
| - RCD Dhone        | - RCD Chiplun        | - RCD Thiruvarur     |
| - RCD Gooty        | - RCD Rawanfong      | - RCD Pandhri        |
| - RCD Kazipet      | - RCD Bhildi         | - RCD Bhagalpur      |
| - RCD Vijayawada   | - RDI Idgah          | - RCD Kankaria       |
| - RCD Hazaribag    | - RDI Kasanganj      | - RCD Muzzafarpur    |
| - RCD Samastipur   | - RCD Selam          |                      |



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## SCOPE OF SUPPLY

**Each of the Mechanical Flow-meter RCD Metering package will consist of each of the following: -**

Sr. No.	Description
1	3” Positive Displacement flowmeter with calibration assembly
2	Mechanical Counter with 5 digit resettable & 8 digit non-resettable totalizer
3	3” Mechanical Preset Valve (built in Flow Governor)
4	Mechanical Preset Register
5	3” Strainer cum Air Eliminator



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**TECHNICAL SPECIFICATIONS****1) Positive Displacement Flowmeter**

MAKE	Vermont
TYPE	Positive Displacement
CASING	Double Case
SIZE	3"
FLOW RANGE	136 to 1200 LPM
END CONNECTIONS	3" ANSI B 16.5 Flanged Class 150# FF
ACCURACY	Better than +/- 0.10%
REPEATABILITY	Better than +/- 0.02%
RANGEABILITY	100% to 10% of maximum flowrate
MAXIMUM WORKING PRESSURE	10.54 kg/cm <sup>2</sup>
TEMPERATURE	70 deg C max
HAND OF DISCHARGE	Left Hand Discharge (Standard) Right Hand Discharge (Optional)
CONFIGURATION	Mechanical
COUNTER	Large Numerical Counter, 5 digit resettable & 8 digit non-resettable totalizer
COUNTER DRIVE	Positive Gear Train

**Materials of Construction**

BODY	Cast Steel ASTMA 216WCB/Alum. Alloy
ROTOR	Aluminium Alloy
BEARINGS	Carbon/SS
SEALS	Nitrile/Viton



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## 2) Large Numerical Counter

MAKE	Vermont		
TYPE	Mechanical		
TOTALIZER SPEED	5 digit resettable & 8 digit non-resettable totalizer 250 RPM		
OPERATING TEMPERATURE RANGE	-40° to +70° C		
SIZE OF FIGURES	<b>Meter Register</b>	<b>High</b>	<b>Wide</b>
		0.750" (19.05 mm)	0.4000" (10.16 mm)
	<b>Totalizer</b>	0.125" (3.175 mm)	0.078" (1.98 mm)
COLOR OF FIGURES	White on black, except right-hand totalizer wheel which is black on white when recording tenths of units, and white on black when recording whole units.		
STYLE OF FIGURES	For optimum readability		
CHARACTER CONFIGURATION	0 to 9 (Standard)		
RESET	Single handle on register. Designed for one-handed operation.		
MOUNTING	Eight ¼ x 28 tapped holes with steel inserts on a 6.625" (168.28 mm) diameter. Special adapters are available for nearly all meters.		
CONSTRUCTION	<b>Cover</b>		
	Cast Aluminum		



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**3) Mechanical Preset Valve (Mech Set Stop Valve)**

<b>PRESET VALVE</b>	
MAKE	Vermont
TYPE	Pilot Operated Hydraulically Actuated
SIZE	3"
MAXIMUM FLOWRATE	1200 LPM
END CONNECTIONS	3" ANSI B 16.5 Flanged Class 150# RF
MAXIMUM WORKING PRESSURE	10.54 Kg/cm <sup>2</sup>
CONTROL	Two Stage cushioned shutdown
MOUNTING	At Bulk meter outlet
<b>MATERIALS OF CONSTRUCTION</b>	
VALVE BODY	Cast Steel/Alum Alloy
RUBBER PARTS	Nitrile
OTHER WETTED PARTS	Aluminum & SS 410

**4) Preset Register (Preset Counter)**

<b>PRESET REGISTER</b>	
MAKE	Vermont
TYPE	Mechanical
DISPLAY	5 Digit resettable
DIGIT SIZE	Height 12.7 mm, Width 6.8 mm
PUSH BUTTONS	Five (One for each wheel) One SET button on left side One STOP button on right side
CONTROLS	Mechanically linked with Preset Valve
MOUNTING	On Flowmeter



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**5) Strainer Cum Air Eliminator (Air Release Head)**

MAKE	Vermont
<b>STRAINER</b>	
TYPE	Wire mesh filter element
MESH	Min. 40/60/80
SIZE	3"
MOUNTING	At Bulk meter inlet
END CONNECTIONS	3" ANSI B 16.5 Flanged Class 150#RF
MAXIMUM WORKING PRESSURE	10.54 Kg/cm <sup>2</sup>
TEMPERATURE	Upto 70°C
<b>AIR ELIMINATOR</b>	
TYPE	Float actuated pilot operated
AIR DISCHARGE PORT	19 mm
MAXIMUM WORKING PRESSURE	10.54 Kg/cm <sup>2</sup>
TEMPERATURE	Upto 70°C
<b>MATERIALS OF CONTRUCTION</b>	
<b>STRAINER</b>	
BODY	Carbon Steel/Aluminum
BASKET	CS Reinforcement sheet & Stainless-Steel ANSI 304 mesh
SEALS	Nitrile
<b>AIR ELIMINATOR</b>	
BODY	Carbon Steel/Aluminum
FLOAT	Stainless-Steel ANSI 304
LINKAGES	Aluminum
SEALS	Nitrile



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