

# **INSTRUMENTS PVT. LTD.**



**R. V. INSTRUMENTS Pvt. Ltd.**



Certificate No.  
ET/IVD/2017/1107



An ISO 9001 : 2015  
Certified Company



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# THE COMPANY OVERVIEW


**RV Instruments Pvt. Ltd.** is professionally managed liquid handling products manufacturing company producing high quality products. The products are sold Internationally through extensive distributors, sales and support network.

**RV Instruments Pvt. Ltd.** is ISO 9001-2015 certified company and products are CE certified.

With a presence in more than 35 countries world wide, **RV Instruments Pvt. Ltd.** has emerged as a fastest growing & reliable source of complete ranges of Liquid Handling products.

**RV Instruments** with its strong R&D base, is committed to continuous development and to live up to its customers's expectations.

Established in Lucknow(India) in an Eco friendly environment, **RV Instruments** has a strength of over 50 technically skilled team of professionals . Prompt deliveries and continuous customer support is basic policy of the company.



# Vertex Bottle Top Dispenser Fully Autoclavable with Recirculation Valve (Regular Model)

VERTEX Bottle top dispenser is another genius of its strong R&D base. Responding to the needs of the present generation, RV Instruments is proud to offer its NEW BOTTLE TOP DISPENSERS with Recirculation Valve (anti drip delivery valve system), its re direct liquids with recirculation valve, its prevents the loss of reagents during purging by re-direct them into the mounted bottle and facilitates bubble free dispensing.

Vertex Bottle Top Dispenser with Recirculation Valve comes in Regular which is an unique combination of affordable pricing and high performance. Wetted parts are PP, Borosilicate Glass and FEP. Suitable for routine laboratory application.

All wetted parts are PTFE, FEP and Borosilicate Glass only. Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility and helps in achieving precision with reliability in practical laboratory environments.

An award winning technology which facilitates smooth and jam-free functioning & simple design clubbed with variety of useful features makes VERTEX Bottle Top Dispensers with Recirculation Valve an obvious choice for all dispensing needs.

It also features two product innovations:

- ★ Knob: A specially designed volume adjustment knob that allows 180 rotation for easy and effortless volume setting.
- ★ Flexi Nozzle: An adjustable delivery nozzle that offers a high degree of flexibility.

High precision and accuracy is ensured through careful selection of component raw material and several stages of strict quality checks during manufacturing process. Each instrument is individually calibrated in accordance with ISO 8655 standards and comes with individual Calibration certificate.

Regular Model Available in 6 volume ranges :

- (a) 0.25-2.5 ml (b) 0.5-5.0 ml (c) 1.0-10ml (d) 2.5-25.0 ml  
(e) 2.5-30.0ml (f) 5-50ml (g) 5-60 ml (h) 10-100 ml

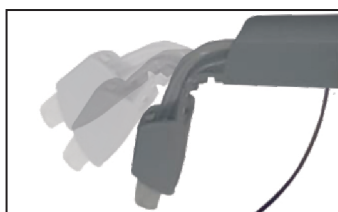
- ◆ Easy to use, simple construction and smooth, effortless plunger movement for bubble free dispensing.
- ◆ Piston : Specially designed PTFE Piston with Silicone O-ring ensures smooth, effortless piston movement and high accuracy.
- ◆ Each instrument comes with five adaptors to fit in most of the laboratory reagent bottles.
- ◆ Standard threads : 30mm, Adaptors : 28mm, 32mm, 38mm, 42mm, and 45mm.
- ◆ Nozzle cap prevents any unwanted drop on the work space.
- ◆ Easy to dis-assemble for cleaning and servicing.
- ◆ Glass Barrel is protected by a polypropylene sleeve. It also ensures no glass splitting in case of any accidental breakage.
- ◆ Valve Manifold : Specially designed, single piece polypropylene valve manifold in the Regular Model ensures excellent chemical compatibility.
- ◆ Instrument is fully autoclavable at 121 C, 15psi. No Need for disassembling the instrument for autoclaving.
- ◆ Screw type volume adjustment knob with large pointer ensures precise, easy and quick volume adjustment.
- ◆ Calibration : Specially designed universal calibration tool is provided for convenient and quick In-lab user re-calibration.
- ◆ This is in compliance with GLO/ISO Norms



1-10 ml Regular Model



Re direct liquids with recirculation valve(anti drip delivery valve system), its prevents the loss of reagents during purging by re-direct them into the mounted bottle and facilitates bubble free dispensing.



Flexible Nozzle is an adjustable nozzle. It has high degree of flexibility to help easy dispensing in laboratory.

## General Product Information

Description	Regular Models
Piston	PTFE
Cylinder	Glass
Volume adjustment Knob	Screw Types
Valve assembly	Glass ball & seat
Valve Housing	polypropylene
Discharge assembly	PTFE
Delivery tube	FEP
Inlet tube	FEP
Calibration	Individually Calibrated and certified in lab easy calibration by user is also possible.
Accuracy & Reproducibility	In accordance with a ISO 8655 Standards
Compatibility	Good for routine lab application

## TECHNICAL SPECIFICATION

Regular Model	Volume Range	Increment	Accuracy		CV	
			±%	±% ml	±%	±% ml
BTDR- (RV)-1	0.25-2.5ml	0.05 ml	0.6	0.015	0.2	0.005
BTDR- (RV)-2	0.5-5ml	0.1ml	0.5	0.025	0.1	0.005
BTDR- (RV)-3	1-10ml	0.2ml	0.5	0.050	0.1	0.010
BTDR- (RV)-4	2.5-25ml	0.5ml	0.5	0.125	0.1	0.025
BTDR- (RV)-5	2.5-30ml	0.5ml	0.5	0.150	0.1	0.030
BTDR- (RV)-6	5-50ml	1.0ml	0.5	0.250	0.1	0.050
BTDR- (RV)-7	5-60ml	1.0 ml	0.5	0.300	0.1	0.060
BTDR- (RV)-8	10-100ml	2.0ml	0.5	0.500	0.1	0.100

## Vertex Bottle Top Dispenser Fully Autoclavable with Recirculation Valve (Premium Model)

VERTEX Bottle top dispenser with Recirculation Valve is another genius of its strong R&D base. Responding to the needs of the present generation, RV Instruments is proud to offer its NEW BOTTLE TOP DISPENSERS with Recirculation Valve (anti drip delivery valve system), its re direct liquids with recirculation valve, its prevents the loss of reagents during purging by re-direct them into the mounted bottle and facilitates bubble free dispensing.

Vertex Bottle Top Dispenser with Recirculation Valve comes in Premium which is an unique combination of affordable pricing and high performance. Wetted parts are PP, Borosilicate Glass and FEP. Suitable for routine laboratory application.

It has a Spring less PTFE Valve. All wetted parts are PTFE, FEP and Borosilicate Glass only. Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility and helps in achieving precision with reliability in practical

laboratory environments. This can be used for all laboratory reagents except HF.

An award winning technology which facilitates smooth and jam-free functioning & simple design clubbed with variety of useful features makes VERTEX Bottle Top Dispensers with Recirculation Valve an obvious choice for all dispensing needs.



1-10 ml  
Premium Model

It also features two product innovations:

- ★ Knob: A specially designed volume adjustment knob that allows 180 rotation for easy and effortless volume setting.
- ★ Flexi Nozzle: An adjustable delivery nozzle that offers a high degree of flexibility.

High precision and accuracy is ensured through careful selection of component raw material and several stages of strict quality checks during manufacturing process. Each instrument is individually calibrated in accordance with ISO 8655 standards and comes with individual Calibration certificate.

Premium Model Available in 6 volume ranges :

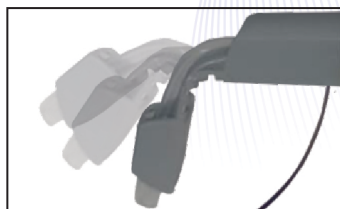
(a) 0.25-2.5 ml (b) 0.5-5.0 ml (c) 1.0-10ml (d) 2.5-25.0 ml

(e) 2.5-30.0ml (f) 5-50ml (g) 5-60 ml (h) 10-100 ml

- ◆ Easy to use, simple construction and smooth, effortless plunger movement for bubble free dispensing.
- ◆ Piston : Specially designed PTFE Piston with Silicone O-ring ensures smooth, effortless piston movement and high accuracy.
- ◆ Each instrument comes with five adaptors to fit in most of the laboratory reagent bottles.
- ◆ Standard threads : 30mm, Adaptors : 28mm, 32mm, 38mm, 42mm, and 45mm.
- ◆ Nozzle cap prevents any unwanted drop on the work space.
- ◆ Easy to dis-assemble for cleaning and servicing.
- ◆ Glass Barrel is protected by a polypropylene sleeve. It also ensures no glass splitting in case of any accidental breakage.
- ◆ Valve Manifold : Specially designed, single piece PTFE valve manifold in the Premium Model ensures excellent chemical compatibility, leak proof valve functioning and excellent reproducibility.
- ◆ Instrument is fully autoclavable at 121 C, 15psi. No Need for disassembling the instrument for autoclaving.
- ◆ Screw type volume adjustment knob with large pointer ensures precise, easy and quick volume adjustment.
- ◆ Calibration: Specially designed universal calibration tool is provided for convenient and quick In-lab user re-calibration.
- ◆ This is in compliance with GLO/ISO Norms



Re direct liquids with recirculation valve(anti drip delivery valve system), its prevents the loss of reagents during purging by re-direct them into the mounted bottle and facilitates bubble free dispensing.



Flexible Nozzle is an adjustable nozzle. It has high degree of flexibility to help easy dispensing in laboratory.

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Description	Premium Model
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Valve assembly	Glass ball & seat
Valve Housing	PTFE
Discharge assembly	PTFE
Delivery tube	FEP
Inlet tube	FEP
Calibration	Individually Calibrated and certified in lab easy calibration by user is also possible.
Accuracy & Reproducibility	In accordance with a ISO 8655 Standards
Compatibility	Excellent Compatibility windows with all reagent EXCEPT HF

## TECHNICAL SPECIFICATION

Premium Model	Volume Range	Increment	Accuracy		CV	
			±%	±% ml	±%	±% ml
BTDP-(RV)-1	0.25-2.5ml	0.05 ml	0.6	0.015	0.2	0.005
BTDP-(RV)-2	0.5-5ml	0.1ml	0.5	0.025	0.1	0.005
BTDP-(RV)-3	1-10ml	0.2ml	0.5	0.050	0.1	0.010
BTDP-(RV)-4	2.5-25ml	0.5ml	0.5	0.125	0.1	0.025
BTDP-(RV)-5	2.5-30ml	0.5ml	0.5	0.150	0.1	0.030
BTDP-(RV)-6	5-50ml	1.0ml	0.5	0.250	0.1	0.050
BTDP-(RV)-7	5-60ml	1.0 ml	0.5	0.300	0.1	0.060
BTDP-(RV)-8	10-100ml	2.0ml	0.5	0.500	0.1	0.100

# R. V. Instruments Pvt. Ltd.



## Our Commitment

We are committed to manufacture & deliver our products under strict quality control and GMP norms. Each Micropipette & Bottle Top Dispenser is individually tested and calibrated conforming to ISO 8655 standards. However if you are dissatisfied in any way with the operation of product call our 24x7 customer service cell 9415036333

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