



ISO 13485



ISO 9001



Jade

Bottle Top Dispenser
Recirculation Valve

BOTTLE TOP DISPENSER

| Jade

With Recirculation Valve

Dispense a wide range of reagents with precision and accuracy using the Jade Bottle Top Dispenser. It features a recirculation valve that redirects liquid back into the bottle without the loss of reagent. The Jade operates with a smooth plunger movement for bubble-free dispensing and effortless performance even under demanding laboratory conditions.

FEATURES :

Six unique volume ranges :

- a. 0.25 - 2.5 ml
- b. 0.5 - 5 ml
- c. 1 - 10 ml
- d. 2.5 - 30 ml
- e. 5 - 60 ml
- f. 10 - 100 ml

Fully Autoclavable at 121°C, 15 psi. for 10 - 15 mins.

RE-CIRCULATION VALVE

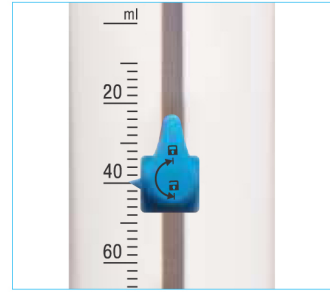
Prevents loss of reagent during purging.





ADJUSTABLE DELIVERY NOZZLE

Allows for flexible angles of dispensing



VOLUME ADJUSTMENT KNOB

Rotates 180° for effortless volume setting



360° ROTATION

Allows you to dispense from any position on the bottle



SPRINGLESS VALVE

PTFE valve manifold offers superior chemical compatibility and jam-free operation



UNIQUE PISTON CONSTRUCTION

PTFE piston with ETP O-ring provides superior chemical resistance and smooth frictionless piston movement.



ADAPTERS

Adapters fit most laboratory reagent bottles. Available sizes: 28, 30, 32, 36, 40 & 45 mm.

CALIBRATION

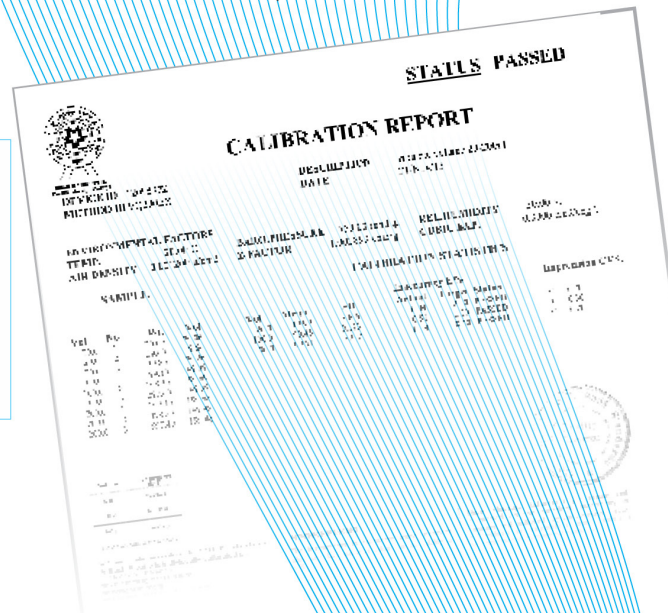
Every product is calibrated in a ISO 17025 accredited laboratory.

Calibration tool is also included for quick recalibration in the lab in compliance with GLO/ISO 8655 norms.

REMOVABLE CAP FOR CALIBRATION



CALIBRATION TOOL



CALIBRATION CERTIFICATE

Calibrated in a ISO 17025:2005 accredited lab.

COMPONENT DESCRIPTION

Component	Description
Piston	PTFE & ETP
Cylinder	Borosilicate Glass
Volume Adjustment Knob	PP, 180° Rotation
Valve Housing	PFA
Recirculation Valve Housing	PFA
Valve Assembly	Borosilicate Glass Ball & Seat
Discharge Assembly	PTFE
Delivery Tube	FEP
Inlet Tube	FEP
Calibration	Individually calibrated and certified. In-lab easy calibration by the user is also possible.
Accuracy & Reproducibility	In accordance with ISO 8655 standards.
Compatibility	Excellent compatibility with all reagents except HF

SPECIFICATIONS

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	± ml	±%	± ml
BTJD2.5	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005
BTJD5	0.5-5 ml	0.1 ml	0.6	0.030	0.2	0.010
BTJD10	1-10 ml	0.2 ml	0.6	0.060	0.2	0.020
BTJD30	2.5-30 ml	0.5 ml	0.6	0.180	0.2	0.060
BTJD60	5-60 ml	1.0 ml	0.6	0.360	0.2	0.120
BTJD100	10-100 ml	2.0 ml	0.6	0.600	0.2	0.200

Error limits (Accuracy & Coefficient of variation) according to the nominal capacity (= maximum volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation. The error limits are well within the limits of DIN EN ISO 8655-2.

Superior chemical compatibility

PFA, PTFE and borosilicate glass components for use with a wide range of harsh chemicals

Chemicals A - Z		D		Nitric acid 30-70%	
A		1,2-Diethylbenzene	B/4	Nitric acid dil. <30%	B/4
Acetaldehyde (Ethanal)	A	1,4-Dioxane (Diethylene dioxide)	B/4	Nitrobenzene	B/4
Acetic acid 96%	A	1-Decanol	A	Nitromethane	B/4
Acetic acid 100% (glacial)	B/4	Decane	A	N-methyl-2-pyrrolidone (NMP)	A
Acetic anhydride	B/4	Di-(2-ethylhexyl) peroxydicarbonate	B/4	O	
Acetone (Propanone)	B/4	Dibenzyl ether	B/4	Octane	A
Acetonitrile (MECN)	B/4	Dichloroacetic acid	A	Octanol	A
Acetophenone	B/4	Dichlorobenzene	A	Oil (vegetable, animal)	B/4
Acetyl Chloride	B/4	Dichloroethane	A	Oil of turpentine	B/4
Acetylacetone	A	Dichloroethylene	B/4	Oleic acid	B/1
Acrylic acid	A	Diesel oil (Heating oil)	A	Oxalic acid	C/1
Acrylonitrile	B/4	Diethanolamine	A	P	
Adipic acid	C/1	Diethylamine	B/4	Pentane	B/4
Allyl alcohol	A	Diethylene glycol	A	Peracetic acid	A
Aluminum chloride	C/1	Diethylether	B/4	Perchloric acid 100%	B/4
Amino acids	C/1	Dimethyl sulfoxide (DMSO)	B/1/4	Perchloric acid diluted	A
Ammonia 20%	B/4	Dimethylaniline	A	Perchloroethylene	B/4
Ammonia 20-30%	B/4	Dimethylformamide (DMF)	B/4	Petroleum	B/4
Ammonium chloride	C/1	E		Petroleum ether / spirit	B/4
Ammonium fluoride	C/1	Ethanol	A	Phenol	A
Ammonium molybdate	C/1	Ethanolamine	B/4	Phenylethanol	B/4
Ammonium sulfate	C/1	Ether	B/4	Phenylhydrazine	B/1/4
Amyl alcohol (Pentanol)	A	Ethyl acetate	B/4	Phosphoric acid 100%	A
Amyl chloride (Chloropentane)	B/4	Ethylbenzene	B/4	Phosphoric acid 85%	A
Aniline	A	Ethylene chloride	B/4	Piperidine	B/4
Ascorbic acid	C/1	Ethylene diamine	A	Potassium chloride	C/1
n-Amyl acetate	B/4	Ethylene glycol	A	Potassium dichromate	C/1
B		F		Potassium hydroxide	C/1
Barium chloride	C/1	Fluoroacetic acid	B/1/4	Potassium iodide	C/1
Benzaldehyde	A	Formaldehyde (Formalin)	A	Potassium permanganate	C/1
Benzene	B/4	Formamide	A	Potassium peroxydisulfate (persulfate)	C/1
Benzine	A	Formic acid	A	Potassium sulfate	C/1
Benzoyl chloride	B/4	G		Propionic acid (Propanoic acid)	A
Benzyl alcohol	A	Gamma-butyrolactone	A	Propylene glycol (Propane-1,2-diol)	A
Benzyl chloride	B/4	Gasoline	B/4	Propylene oxide	A
Bis(2-ethylhexyl) phthalate	B/4	Glycerin <40%	A	Pyric acid (Trinitrophenol)	B/4
Boric acid 10%	B/1	Glycolic acid 50%	B/1	Pyridine	B/4
Bromine	C/4	H		Pyruvic acid	B/1
Bromobenzene	B/4	Heating oil (Diesel oil)	A	R	
Bromonaphthalene	A	Heptane	A	Resorcin	C/1
Butanediol	B/1	Hexane	A	S	
Butanol	A	Hexanoic acid	B/1	Salicylaldehyde	A
Butanone (MEK)	B/4	Hexanol	A	Scintillation fluid	A
Butyl acetate	B/4	Hydriodic acid	B/4	Silver acetate	C/1
Butyl methyl ether	B/4	Hydrobromic acid	A	Silver nitrate	C/1
Butylamine	B/4	Hydrochloric acid 20% (HCl)	A	Sodium acetate	C/1
Butyric acid	B/4	Hydrochloric acid 37% (HCl)	B/3	Sodium chloride (kitchen salt)	C/1
C		Hydrofluoric acid (HF)	C/5	Sodium dichromate	C/1
Calcium carbonate	C/1	Hydrogen peroxide	A	Sodium fluoride	C/1
Calcium chloride	C/1	I		Sodium hydroxide 30%	C/1
Calcium hydroxide	C/1	Iodine	C/1	Sodium hypochlorite	C/1
Calcium hypochlorite	C/1	Iodine bromide	C/4	Sodium thiosulfate	C/1
Carbon disulfide	B/4	Iodine chloride	C/4	Sulfonitric acid 100%	B/3/4
Carbon tetrachloride	B/4	Isoamyl alcohol	A	Sulfur dioxide	B/4
Chlorine dioxide	B/4	Isobutanol	A	Sulfuric acid 100%	B/4
Chlorine water	B/4	Isooctane	A	T	
Chloro naphthalene	B/4	Isopropanol	A	1,1,2-Trichlorotrifluoroethane	B/4
Chloroacetaldehyde 45%	B/1	Isopropyl ether	B/4	Tartaric acid	C/1
Chloroacetic acid	B/1	Iso-propylamine	B/4	Tetrachlorethylene	B/4
Chloroacetone	B/4	L		Tetrahydrofuran (THF)	B/4
Chlorobenzene	B/4	Lactic acid	C/1	Tetramethylammonium hydroxide	C/1/4
Chlorobutane	B/4	M		Toluene	B/4
Chloroethanol	B/4	2-Methoxyethanol	A	Trichlorethylene	B/4
Chloroform	B/4	Methanol	A	Trichloroacetic acid	B/1/4
Nitro-hydrochloric acid (Aqua regia)	B/4	Methoxybenzene (Anisol)	B/4	Trichlorobenzene	B/4
Chlorosulfonic acid	B/4	Methyl benzoate	B/1/4	Trichloroethane	B/4
Chlorosulfuric acid 100%	B/3/4	Methyl chloride (Chloromethane)	B/4	Trichloromethane (Chloroform)	B/4
Chromic acid 100%	B/3/4	Methyl formate	A	Triethanolamine	A
Chromosulfuric acid 100%	C/1/3/4	Methyl iodide (Iodomethane)	B/4	Triethylene glycol	A
Citric acid	B/1	Methyl methacrylate (MMA)	B/4	Trifluoroacetic anhydride (TFAA)	B/4
Copper fluoride	C/1	Methyl propyl ketone (2-Pentanone)	A	Trifluoromethane (Fluoroform)	B/4
Copper sulfate	C/1	Methyl tert-butyl ether	B/4	U	
Cresol	B/1	Methylene chloride (Dichloromethane) (DCM)	B/4	Urea	C/1
Cumene (Isopropylbenzene)	B/4	Methylpentanone	A	X	
Cyanoacrylate	C/1	Mineral oil (engine oil)	A	Xylene	B/4
Cyclohexane	B/4	Monochloroacetic acid	B/1	Z	
Cyclohexanone	B/4	N		Zinc chloride 10%	C/1
Cyclopentane	B/4	N-Butylamine	B/4	Zinc sulfate 10%	C/1
		Nitric acid 100%	C/3/4		

Code explanations

A = Good resistance B = Acceptable with limitations C = Not recommended

1 = Possible crystallisation - blockage or possible coating peeling

2 = Swelling of plunger, possible peeling.

3 = Acid vapours (better resistance with lower concentration).

Rinse the instrument in the rinse mode otherwise do not leave instrument on bottle.

4 = Risk of damage, softening or discoloration of external parts through vapours.

Rinse the instrument in the rinse mode otherwise do not leave instrument on bottle.

5 = Chemical degradation of glass parts (plunger/barrel).



High-quality laboratory instruments for your liquid handling needs



LH Technologies, LLC
3055 N. Oak Grove Ave
Waukegan, IL 60087

PH: 847-336-7556
FAX: 847-336-7571
info@LHTechno.com



Visit LHTechno.com for:

- New liquid handling products
- Helpful technical information
- FAQs, instruction manuals, and more