2. Bottle-Top Dispenser

2.1 Electronic Bottle-Top Dispenser

Features

Motor operation minimizes the grip force

Electronic control decreases the repetitive strain injury

The remote control panel makes the operating process without the manual disturbance

Two Dispensing modes, dispenser and stepper function options

Note: the bottles sold separately

Specifications

Volume range	0.01~99.99mL, Max piston lift is 10mL, resolution is 100μL
Volume accuracy	Dispenser: R = 10mL ±30μL; CV = 10ml ±10μL Stepper: R = 1ml ±6μL; CV = 1ML ±9μL
Operating temperature range	10°C~30°C
Quality control	DIN EN ISO 8655
Control type	External control

Structure

Hawach Cat#	Specification	Package (pcs/pk)
21031006	0.01-99.99mL USA plug,100V-220V/50Hz/60Hz	1
21031007	0.01-99.99mL CN plug,100V-220V/50Hz/60Hz	1
21031008	0.01-99.99mL Euro plug,100V-220V/50Hz/60Hz	1
21031009	0.01-99.99mL UK plug,100V-220V/50Hz/60Hz	1

2.2 Mechanical Bottle-Top Dispenser

2.2.1.Standard Mechanical Bottle-Top Dispenser

Structure

Features

Excellent chemical resistance, components are made of PTFE, FEP, BSG, PP
Fully autoclavable at 121℃
Four ranges of bottle-top dispenser covering a volume range from 0.5mL to 50mL
Easy for cleaning and maintenance
The optional flexible discharge tube with safety handle permits fast and precise dispensing
Vapor pressure Max: 500 mbar, viscosity max: 500 mm^2/s, temperature max: 40℃, density max: $2.2g/cm^3$
It is supplied with S40, GL32, GL38,GL25, GL28 sized adaptors

Specifications

Product	Volume Range (mL)	Graduation (mL)	A≤±		CV≤	
			%	uL	%	uL
1	0.5-5	0.1	0.5	25	0.1	5
2	1.0-10	0.2	0.5	50	0.1	10
3	2.5-25	0.5	0.5	125	0.1	25
4	5.0-50	1.0	0.5	250	0.1	50

Some accessories are applied for different bottles, the list are show below:

Products	Description
1	GL45, Adapter, 45mm
2	S40, Adapter, 45/40mm
3	GL32, Adapter, 45/32mm
4	GL38, Adapter, 45/38mm
5	GL25, Adapter, 32/25mm
6	GL28, Adapter, 32/28mm
7	Reagent Bottle (Brown, 1L, Options)
8	Filling tube(m)
9	Discharge tube(m)

Order Information

Picture	Hawach Cat#	Specification	Package (pcs/pk)
	21031001	0.5-5mL	1
	21031002	1-10mL	1
	21031003	2.5-25mL	1
	21031004	5-50mL	1
	21031005	Reagent Bottle (Brown, 1L)	1

2.2.2.Fully Autoclavable Mechanical Bottle-Top Dispenser

Features

Autoclavable at 121°C for sterility
Dispenses volumes from 0.5mL to 100mL
Chemical compatibility with inert materials and PTFE piston
High chemical resistance with PTFE, FEP, BSG, PP components
Easy disassembly for simple cleaning and maintenance
Comes with popular adapters (S40, GL32, GL38, GL25, GL28)
Includes 6 adapters to fit various laboratory reagent bottles
Reagent recovery function minimizes waste and prevents dripping
Adjustable aspirating tube for different reagent bottle heights

Product	Volume Range (mL)	Graduation (mL)	Systematic Error (±)		Random Error (±)	
			%	µL	%	µL
1	0.5-5	0.1	0.5	25	0.2	10
2	1.0-10	0.2	0.5	50	0.2	20
3	2.5-25	0.5	0.5	125	0.2	50
4	5.0-50	1.0	0.5	250	0.2	100
5	10-100	2.0	0.5	500	0.2	200

Order Information

Picture	Hawach Cat#	Specification	Package (pcs/pk)
	21031105	0.5-5mL, Fully Autoclavable	1
	21031106	1-10mL, Fully Autoclavable	1
	21031107	2.5-25mL, Fully Autoclavable	1
	21031108	5-50mL, Fully Autoclavable	1
	21031109	10-100mL, Fully Autoclavable	1

3. Digital Burette

Description

The Hawach Digital Burette provides accurate, precise and convenient bottle-top titration, as well as optimum operator safety. It combines both magnetic stirrer and titrator functions, making it easier for the operator to achieve satisfactory results in the field of analytical chemistry, food industry, and water analysis etc.

Features

Excellent precision and accuracy

Built-in magnetic stirrer support

Electronic control decreases the repetitive strain injury

Remote control panel prevents manual disturbance during operation

Specifications	Digital Burette
Volume Range	0.01mL-99.99mL, Max piston lift is 10mL, resolution is 10μL
Volume Accuracy	R=0.2% CV=0.07%
Velocity	16 stages
Operating Temperature Range	10℃-30℃
Quality Control	DIN EN ISO 8655
Control Type	External control, including the stirrer and the burette program

Order Information

Picture	Hawach Cat#	Specification	Package (pcs/pk)
	21061001	Digital Burette 0.01-99.99ml,USA plug, 100V-220V/50Hz/60Hz, without reagent bottle.	1
	21061002	Digital Burette 0.01-99.99ml, CN plug, 100V-220V/50Hz/60Hz, without reagent bottle.	1
	21061003	Digital Burette 0.01-99.99ml, Euro plug, 100V-220V/50Hz/60Hz, without reagent bottle.	1
	21061004	Digital Burette 0.01-99.99ml, UK plug, 100V-220V/50Hz/60Hz, without reagent bottle.	1