



The Global Leader in  
Automatic Control Valves

# Automatic Flushing Valves

CLA-VAL flushing valves are an ideal solution for managing flushing campaigns in water distribution networks to maintain optimum water quality.

Flushing schedules can be based on Day/Date and Time and/or volume\* according to rules set by the operator. Simply connect a CLA-VAL valve to a choice of valve controllers.

\* D35 Only

## CLA-VAL Main Valve

- Sizes: 1", 1 ¼", 1 ½", 2" with screwed connections
- Manually adjustable valve stem position for precise control of flushing volumes or water velocity
- Simple connection to CLA-VAL **e-Timer** or **D35** valve controllers



### e-Timer



OR

### D35



## Valve Controllers



Each controller includes a battery powered solenoid to OPEN & CLOSE the CLA-VAL main valve according to the programmed rules.

**e-Timer** is programmed using free-issue CLA-VAL software programmed using a comms lead\* connected to a PC.

**D35** Offers a wider choice of valve activation rules including the ability to log a choice of channels including pressure and flow. An Integrated SIM Card enables 2-Way communication allowing remote flushing schedules and graphical data to be viewed using CLA-VAL Link2Valves™ web platform.

\*Sold separately

## Summary of capabilities

Valve Controller	Operating Schedules						Data Logger	2-Way Comms	Remote programming
	Day Specific	Weekday Only	Weekend Only	Custom Date	Flushing Duration	Water Volume			
D35 	✓	✓	✓	✓	✓	✓	✓	✓	✓
e-Timer 	✓	✓	✓	✓	✓	✗	✗	✗	✗

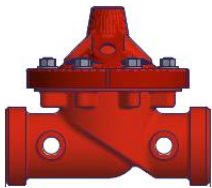


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## Technical Information

### MAIN VALVE

<b>End connections</b>	BSP Female
<b>Maximum operating pressure</b>	16 bar
<b>Maximum temperature</b>	65c
<b>Minimum pressure drop</b>	1 bar



Valve Size (Imp. - Metric)	Weight (Kg)	Length (mm)	Width (mm)	Kvs (M <sup>3</sup> /h)	Maximum Flow (M <sup>3</sup> /h)
1" – 25mm	2.6	130	110	11.5	10.0
1 ¼" – 32mm	13	215	185	26	17.0
1 ½" – 40mm	13	215	185	28	25.0
2" – 50mm	20	254	238	37	37.0

### e-Timer-33 - Valve Controller



Electrical Power	Lithium battery type 9 VDC
Output	1x 3-ways bistable solenoid 0.8 mm - 6 VDC
Valve OPEN/CLOSE Rules	<ul style="list-style-type: none"> <li>Up to 8 rules (for 4 opening / closing per day)</li> <li>Time &amp; Calendar</li> </ul>
Maximum Operating Pressure	16 bar
Temperature range	10°C to +80°C (Electronic only, 60°C maximum for the battery)
Environmental Protection/Media	IP68 [2m depth for 1 month] / Drinking water
Interface	Plug & Play / MS Windows

### D35 – Valve Controller + Logger + Communication



Electrical Power	High capacity Lithium external battery
Inputs	<ul style="list-style-type: none"> <li>4x analog (Ratiometric / 0-5 V / 0-10 V)</li> <li>2x digital (dry contact or pulse)</li> </ul>
Output	<ul style="list-style-type: none"> <li>2x latching solenoids (6 VDC)</li> <li>1x digital (dry contact or pulse)</li> </ul>
Rules	<ul style="list-style-type: none"> <li>Time &amp; Calendar / Volume</li> </ul>
Maximum Operating Pressure	16 bar
Temperature range	-10°C to +70°C (Electronics only, 60°C maximum for battery)
Environmental Protection/Media	IP68 (2m depth for 1 month) / Drinking water
Interface	WiFi 802.11n/ac for local configuration with Interface to CLA-VAL Link2Valves™ for remote configuration
Data Communication	4G (LTE-M1, NB-IoT) and 2G (GPRS) Extendable antenna with flexible cable
Data Storage	Micro SIM card (accessible)
Dimensions	∅ 132 mm x L 130 mm (excludes battery and antenna)

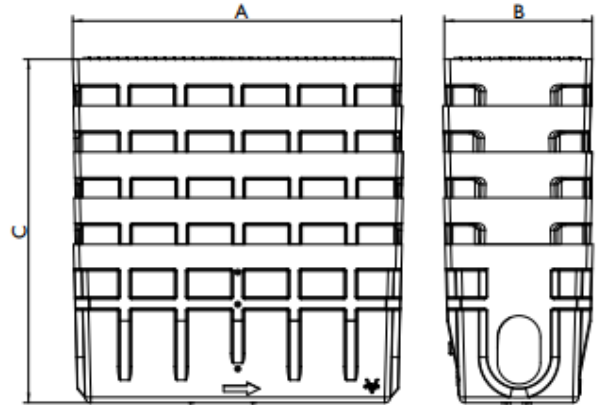


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## Flushing Valve Box (To suit 1" Valve and DN25 pipe ONLY)

### Product Features

- Manufactured from glass filled HDPE
- Cover manufactured from glass filled SMC
- Stainless Steel & Brass locking mechanism
- LDPE Internal insulation
- Suitable for installation on footpaths
- Lockable lid (key included)

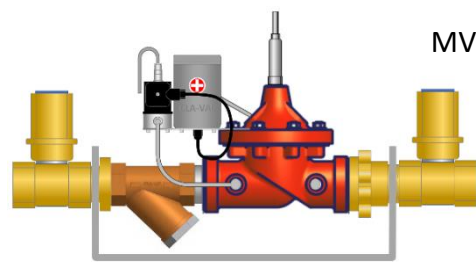


### Technical Specifications

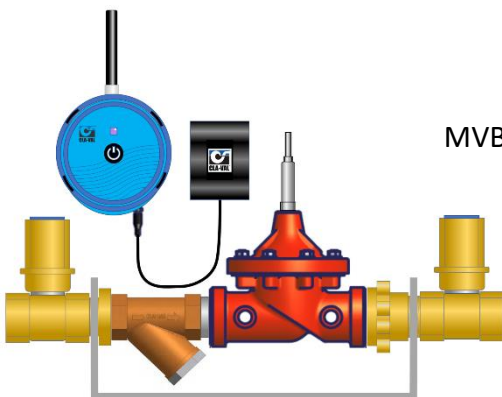
Product Code	Length A (mm)	Width B (mm)	Height C (mm)	Weight (Kg)*	Isolation Valve Inlet	Isolation Valve Outlet
MVB-FV-DN25-ETIMER	600	260	585	34	•	•
MVB-FV-DN25-CVLOG35	600	260	585	34	•	•

\*Includes: 1" (25mm) – CLA-VAL Valve

### Assembly Details



MVB-FV-DN25-ETIMER



MVB-FV-DN25-CVLOG35

