

V Series D1 Datasheet

SPRING-RETURN MECHANICAL DIAPHRAGM DOSING PUMP

General Information

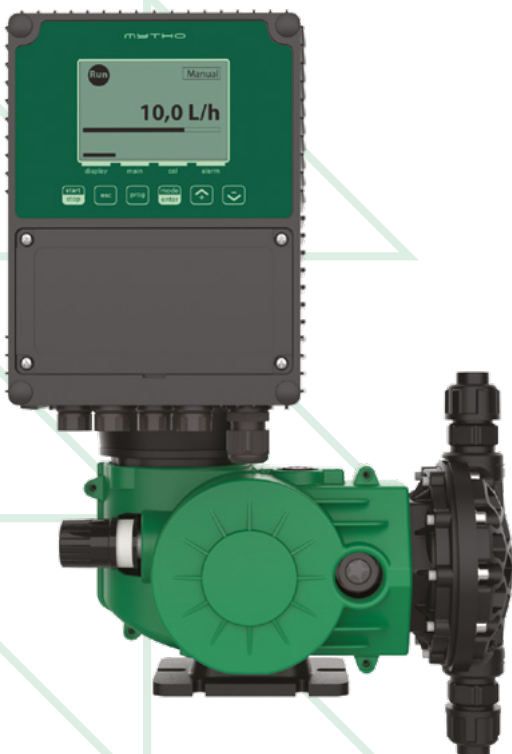
Featuring several configurations for pump head and power, Mytho's D Series mechanical diaphragm pump is suitable for multiple applications. The series covers a flow rate range from 5.5 to 500 l/h and backpressure up to 10 bar (standard configuration) or 16 bar (064 and 094 models in "enforced" configuration).

D1 pumps have a spring return mechanism within an aluminium housing, which is treated with cataphoresis coating and protected by a PP casing.

Each model can be supplied with a 3-phase or 1-phase IP55 motor and has three stroke rate values, which can be set manually or automatically using a linear actuator (accepts a 4 – 20 mA signal).

V Series features and benefits

- Intelligent graphic LCD display with multicolour backlights
- Multiple operating modes (Manual | Batch | Timed | ppm | Analogue mA and V | Multiply 1: N | Divide N:1)
- Analogic current 0/4-20 and 20-4/0 mA input for proportional speed
- Analogic voltage 0-10 V input
- Digital pulse input 1 kHz for proportional dosing for water-meter pulse sender
- Liquid level control input (NO/NC)
- Remote control pause/stop input
- Analogic current 4-20 mA output relay for remote alarm output
- Modbus RS485 protocol integrated on the main board



Features

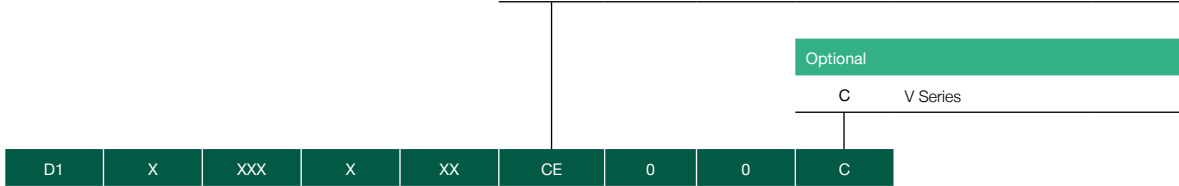
- Flow Rate: up to 500l/h / Pressure: up to 10 bar
- Mechanically return actuated by spring
- Turn-down ratio 1:100
- Stroke rate: up to 116 strokes/minute
- Stroke length: 2-4-6 mm
- Stroke length adjustment: manually using rotary dial in 1% increments
- Average repeatability is $\pm 2\%$ in the 20 - 100% adjustment range under defined conditions and with correct installation
- Diaphragm diameter: 64 - 165 mm
- Pump power supply voltage: 230 Vac, 50/60Hz
- External quick connectors (for signal / communication cables) for improved operation safety
- For use in ambient temperatures between +5°C and +40°C
- Maximum dosed liquid temperature:
 - SS 316L PVC - 40°C
 - PVC - 40°C
 - PP - 40°C
 - PVDF - 40°C

Applications

- Wastewater treatment
- Dairy
- CIP
- Fish Farming
- Cooling towers
- Boiler
- Reverse osmosis
- Galvanic industry
- Irrigation

V Series key code

Motor type	kW [3ph]	Size
AE	0.18	63-B14
BE	0.25	71-B14
CE	0.37	71-B14
DE	0.55	80-B14
EE	0.75	80-B14
TE	0.25	71-B5
UE	0.37	71-B5



V Series R1 Datasheet

MOTOR-DRIVEN PUMPS WITH SPRING RETURN, ELECTRONIC CONTROL AND IOT

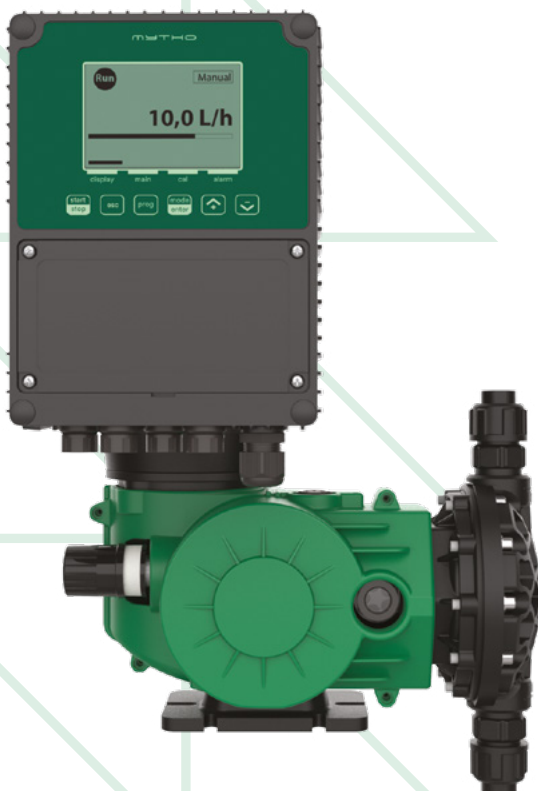
General Information

As well as several pump head and power configurations, Mytho's R1 plunger piston pumps cover a flow rate range from 1.5 to 304 l/h with backpressure up to 20 bar, making them suitable for multiple water-treatment applications.

R1 pumps are designed with a spring return mechanism into an aluminium housing, coated with cataphoresis treatment and protected by a PP casing for superior robustness.

V Series features and benefits

- Intelligent LCD graphic display with multicolour backlights
- Multiple operating modes (Manual | Batch | Timed | ppm | Analogue mA and V | Multiply 1: N | Divide N:1)
- Analogic current 0/4-20 and 20-4/0 mA input for proportional speed
- Analogic voltage 0-10 V input
- Digital pulse input 1 kHz for proportional dosing for water-meter pulse-sender
- Liquid level control input (NO/NC)
- Remote control pause/stop input
- Analogic current 4-20 mA output relay for remote alarm output
- Modbus RS485 protocol integrated on the main board



Features

- Flow rate: up to 304 l/h
- Pressure: up to 10 bar
- Mechanical return actuated by spring
- Turn-down ratio: 1:100
- Stroke rate: up to 116 strokes/minute
- Stroke length: 15 mm
- Stroke length adjustment: manually, using rotary dial in 1% increments
- Average repeatability: $\pm 2\%$ in the 20 - 100% adjustment range under defined conditions and with correct installation
- Plunger diameter: 6 - 64 mm
- Pump power supply voltage: 230Vac, 50/60Hz
- External quick connectors (for signal / communication cables) provide improved operation safety
- For use in ambient temperatures between +5°C and +40°C
- Maximum dosed liquid temperature:
 - SS 316L 90°C
 - PVC 40°C

Applications

- Wastewater treatment
- Dairy
- CIP
- Fish farming
- Cooling towers
- Reverse osmosis
- Galvanic industry
- Irrigation

Technical data may be changed without notice.

V Series key code

Motor type	kW [3ph]	Size
AE	0.18	63-B14
BE	0.25	71-B14
CE	0.37	71-B14
DE	0.55	80-B14
EE	0.75	80-B14
TE	0.25	71-B5
UE	0.37	71-B5

Optional
C V Series

D1	X	XXX	X	XX	CE	0	0	C
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