

Metering systems DSS-01 and DSX-01



Fluidotech's metering systems are highly accurate driving systems designed for Fluid-o-Tech magnet drive gear pumps for dispensing high viscosity liquid at high pressure with flow rates ranging from 83 ml to 2750 ml/min.

The driver is a 24 V DC brushless motor closed loop controlled by Application Specific Integrated Circuit (ASIC) granting high efficiency, silent operation and long service life.

Main application

Delivery and dispensing processes under pressure for particulate-free solutions.

Main features

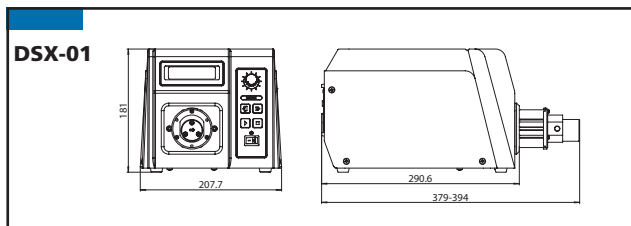
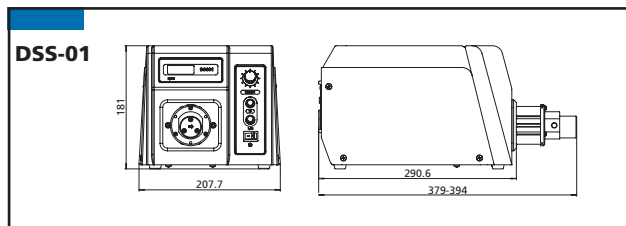
- Pulseless pumping.
- Dispense function by volume, time and cycle time.*

- Interchangeable Fluid-o-Tech pump heads.
- Pre-programmed Fluid-o-Tech pump heads.*
- Dc Brushless Motor assure high output torque, high efficiency, maintenance free and silent operation.
- 128 x 32 LCD screen (Four digits LED to display speed information on DSS unit).
- Closed loop for dispensing accuracy control.*
- Fast purge function.
- Quick start/stop.
- Pc controllable unit.
- Power-fail memory function.

Specifications

- Flow range: 83-2750 ml/min.
- Motor Speed: 300-3000 rpm.
- Motor speed control accuracy: $\pm 1.0\%$
- Dispensing accuracy control: 1 ml resolution.*
- Speed control: 4 ~ 20 mA, 0 ~ 5 V, 0 ~ 10 V, 0 ~ 10 kHz, start/stop.
- Communication mode: RS485 COM.
- Power: AC 230 V/50 Hz - 115 V/60 Hz.
- Power consumption: 150 W.
- Cooling: Forced ventilation.
- Working environment: 0 ~ 40 °C, relative humidity <90% (non-condensing).
- Protection rating: IP31.
- Weight: 5.1 Kg (without pump head).
- Size: L/W/H 290/270/181 mm (without pump head).

Pump head	Flow rate) (ml/min)		Differential pressure max (bar)	System pressure max (bar)	Built-in relief valve	Housing material	Gears material	Elastomers	Temperature range (°C)
MG204	83	969	8	20	Y/N	AISI 316	Peek™ - PTFE™	PTFE™	Peek™ -45 to 120 PTFE™ -45 to 50
MG209	168	1889	8	20	Y/N	AISI 316	Peek™ - PTFE™	PTFE™	Peek™ -45 to 120 PTFE™ -45 to 50
MG213	243	2750	8	20	Y/N	AISI 316	Peek™ - PTFE™	PTFE™	Peek™ -45 to 120 PTFE™ -45 to 50



*Available only on DSX series

Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

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