

PROPORTIONAL DOSING VALVE PDV04

DP-D-005-000005



APPLICATION

The PDV04 enables uninterrupted dosing with freely selectable volumes from a quantity of 0.04 cm³ using the dosing principle with endless pistons.

DESCRIPTION

The PDV04 proportional dosing valve is an endless dosing valve and consists of an electrically driven piston metering unit.

The parameterization and control of the PDV04 is carried out via the control of the DS dosing system and thus enables continuous or clocked dosing. The standard interface to higher-level controls, e.g. for start or stop, is via digital I/Os. Further interfaces such as Profibus or Profinet are possible.

The compact and space-saving PDV04 proportional dosing system is designed for stationary as well as mobile use, e.g. on robots, and is connected to the D+P DS dosing system via a cable set of up to 20 meters in length.

ADVANTAGES

The PDV04 is viscosity-, pressure- and temperature-independent and ensures extremely process-safe metering thanks to electronic monitoring of the valve piston by means of an encoder.

In addition, the PDV04 operates electromechanically and does not require a pneumatic connection.

The maintenance-friendly arrangement of the seal packs has also been implemented for the PDV04 in accordance with our new dosing valve series.

TECHNICAL DATA	
Weight	3.8 kg
Width x height x depth	137 x 210.1 x 110 mm
Dosing data	
Max. pumpable viscosity	Oils and greases NLGI class 0–3
Dosing quantity	from 0.04 cm ³
Tolerance	up to 1 %, depending on the dosing quantity and the medium
Volume flow	0.007–3.2 cm ³
Inlet pressure	10–30 bar 5–30 bar at oils
Connection technology	
Hydraulic	G 1/4" material inlet external thread G 1/4" material outlet external thread
Electric	motor connection: M12 plug 5pin encoder connection: M12 plug 8pin / 5 V DC - 3 V; 424 A
Motor heating	max. 80 °C
Environmental conditions	
Air temperature operation	10–50 °C
Air temperature transport and storage	0–50 °C
Humidity	50– max. 70 %, no condensation
Protection class	IP54
Operation in closed rooms. Protect from direct sunlight, dust and moisture. Installation altitude, max. 2000 meters above sea level.	



PROPORTIONAL DOSING VALVE PDV04 ACCESSORIES



CONTROL AND CONNECTION CABLE FOR PDV04

DP-D-005-000012
DP-D-005-000017
DP-D-005-000018

The control and connection cable is used for signal exchange between the dosing system and the PDV04 proportional dosing valve. The standard length is 5 meters, but can also be customized on request (max. 20 meters).

TECHNICAL DATA

Type	Cable length	Suitable for drag chain
DP-D-005-000012	5 m (standard)	yes
DP-D-005-000017	7 m	yes
DP-D-005-000018	10 m	yes

SEALING PACKAGE

DP-D-010-000013

Complete package incl. sleeve with seal set and dosing needle.