

# DOSING VALVE DV05

DP-D-010-000001



## APPLICATION

The DV05 is suitable for volumetric dosing of low to high viscosity media in the dosing range of 0.003–0.5 cm<sup>3</sup> and can be used for manual as well as automatic dosing processes.

## DESCRIPTION

The valve consists of two structurally separate parts. This design prevents uncontrolled leakage of the medium into the pneumatic cylinder and thus prevents interference with the valve needle.

The exact dosing quantity is set via the adjusting nuts with readable quantity scale, which enables repeatable, exact and precise dosing.

The metering cycle can be controlled pneumatically by means of a 5/2 directional control valve.

## ADVANTAGES

The DV05 is characterized by high reliability and low maintenance.

The modular seal package ensures fast and service-friendly maintenance in just a few steps. The seals meet the latest technological standards and ensure a long service life for the valve.

## TECHNICAL DATA

### Dimensions

Weight	760 g
Width	58 mm
Height	41 mm
Depth	238 mm

### Compressed air supply

Pressure	3.5–10 bar
Compressed air quality	dried, filtered, oil-free
Pneumatic connections	M5 female thread

### Environmental conditions

Temperature	10–50 °C
Humidity	50– max. 70 %
Installation conditions	flat industrial floor
Sound level	<70 dB(A)

### Material conditions

Material input pressure	3–30 bar
Material output pressure at 5 bar operating pressure	approx. 75 bar
Dosing speed	max. 200 ms/dosing cycle
Dosing quantity	0.003–0.5 cm <sup>3</sup>
Connection input medium	M12x1.5 external thread
Connection output medium	G 1/4" external thread
Permissible medium	NLGI class 0–3 (greases, oils, pastes, silicones)



## DOSING VALVE DV05 ACCESSORIES



### STROKE MONITORING P

DP-D-010-000020

Cylinder switch with reed contact for sensing the dosing and loading position.



### STROKE MONITORING K

DP-D-010-000021

Switch with inductive sensor BES00HF for sensing the dosing and loading position.



### SEALING PACKAGE

DP-D-010-000040

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

### PLASTIC HOSE

DP-D-002-000030 // Outer diameter 2.5 mm

DP-D-002-000031 // Outer diameter 4 mm

Pressure-resistant plastic hose for dosing valves.

Connection 1: 1/8"

Connection 2: 1/8" or M6x0,57 (e.g. for dosing head)

Length approx. 0.2 m.