

## Specification

### DELO-DOT D4 and DELO-DRIVERBOX

Art. no. 90 701 41 and 90 701 42

#### DELO-DOT D4 microdispensing valve

##### General details

Dimensions W × H × D	86 cm x 17 cm x 52 cm
Medium	adhesives and adhesive components, liquid polymers and polymer solutions, and many other liquids
Viscosity	> 5.000 (thixotropic) (to be tested depending on application)
Minimum dispensing time for complete stroke	160 μs, open and close once
Maximum dispensing time	∞ (permanent dispensing)
Maximum pause time	∞ (stop)
Maximum dispensing frequency	200 Hz, permanent dispensing (max. valve temp. +60 °C)
Dispensing accuracy	max. 2 % with constant pressure / constant temp.
Maximum operating pressure	75 bar
Operating temperature	up to +45 °C
Medium temperature	up to +75 °C (at the media inlet when +100 °C are set)
Expected lifetime of actuator	more than 1 billion cycles
Nozzle ball/plate	self-aligning, made of hard ceramics, removable for cleaning and can be disassembled and replaced individually
Diameter standard nozzle	50 to 400 μm
Maintenance / inspection interval of nozzle	> 10,000,000 cycles (depending on medium)
Wetted materials of DELO-DOT D4	steel grade 1.4305 (AISI grade 303), ceramics, FFKM, PEEK, silicone
Electrical connection	Molex socket (10-pole)
Connection line	4.5 m (suitable for drag chains) incl. Molex on ODU circular plug adaptation
Minimum bending radius of connection line	R 35 mm once R 100 mm moving
Medium connection	M10 x 1, luer-lock or 4/6 mm* tube (*outer diameter)
Fastening thread	6 x M4, 6 mm deep, tightening torque 2.5 Nm +0.2
Degree of protection	IP54
Explosion protection	no
Storage temperature	-10 °C to +85 °C
Noise emission	85 dB
Weight	approx. 320 g

## DELO-DRIVERBOX

### General details

<b>Dimensions</b>	for 19" rack aluminum, black anodized 3 RU, 21 HP approx. 18.47 x 106.3 x 181 mm
<b>Weight (4-channel version)</b>	approx. 1.8 kg
<b>Nominal operating mode</b>	continuous operation
<b>Voltage supply</b>	24 V DC $\pm$ 10 %
<b>Power consumption</b>	max. 24 W per channel plus heat output of the valve valve type with max. temp. +100°C: 35 W (total: max. 60 W per channel)
<b>Power supply</b>	4-pole connector (Binder series 680) on the rear of the device



### Interfaces

<b>Inputs / outputs per channel</b>	15-pole SUB-D socket per channel on the rear of the device
<b>Valve interface</b>	10-pole ODU connector per valve on the rear of the device
<b>Communication interface for RS485 modbus</b>	8-pole ODU connector

### Environmental conditions

<b>Operating temperature up to 150 Hz and continuous operation of valve</b>	+5 °C to +50 °C
<b>Operating temperature from 150 Hz and continuous operation of valve</b>	+5 °C to +40 °C
<b>Degree of protection</b>	IP30
<b>Storage temperature</b>	-20 to +70 °C
<b>Humidity</b>	not condensing

Spare parts and accessories

Art.-Nr.	Designation/description	Figure
90 701 41	DELO-DOT D4	
90 701 42	DELO-DRIVERBOX	
90 701 43	Connection line DELO-DOT D4 – DELO-DRIVERBOX	no figure
90 701 44	Tool kit for the exchange of the needle insert	
90 701 45	Media supply luer-lock	
90 701 46	Media supply 6 mm for tube connector 6 x 1 mm (outer diameter 8 mm)	
90 701 47	Media supply 4 mm for tube connector 4 x 1 mm (outer diameter 6 mm)	
90 701 48	Cleaning kit	
90 701 49	Nozzle 100 µm type D	
90 701 55	Nozzle 200 µm type D	
90 701 56	Nozzle 300 µm type D	
90 701 57	Nozzle 400 µm type D	
90 701 58	Needle insert nozzle type D	
90 701 59	DELO-DOT D4 product tube set for universal connection to the DELO-XPRESS 951 pressure tank	
00 000 11	DELO-DOT D4 sealing o-ring 3 x 1 mm for nozzle (PU = 10 pcs.)	

Please refer to the User Manual for further details!

**CONTACT**

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Refer to the sales documents for the warranty terms. The technical data relate to measurements at the point of time of goods issue within the scope of general quality assurance. The values measured were determined under laboratory conditions and may deviate depending on the conditions of use. It is the user's responsibility to test the suitability of the device for the intended purpose by considering all specific requirements.  
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