



DARTec®

EXTERNAL GEAR DOSING PUMP



The DARTec® gear dosing pump was specifically designed for high precision dosing of thermally reactive fluids. Its protected sealed needle bearing system eliminates material contact with bearings preventing shear and frictional heat in these areas normally associated with external gear pumps. Because of this innovation there is a notable reduction in the amount of solvent required to flush the pump and downtime between jobs. This also leads to overall improved efficiency, typically > 95%. The DARTec® is also available in a low weight construction (700 grams) and is optimal for use on 3 and 4 axis robot dispensing equipment.

OPERATING CONDITIONS

SPEED

1 - 400 rpm
(Depending on the respective operating conditions)

PUMP PRINCIPLE

Low pulsation external spur gears

ROTATION

Clockwise (cw), right

VISCOSITY

1 - 1,000,000 mPa·s
(Depending on the respective operating conditions)

DISPLACEMENTS CC/REV

DARTec®
0.1 / 0.3 / 0.6 / 1.2 / 1.8 / 2.4 / 3.0 / 4.8 / 6.0

TEMPERATURE

- 20°C up to +150°C
Special designs are available for deviating temperatures.

PRESSURE

Operating pressure max. 150 bar

MATERIALS

Stainless steel or low weight design

COMMON APPLICATIONS

UV-curable fluids, acrylics, organic peroxides, additives, thermally reactive fluids

HIGHLIGHTS

- Low-pulsation and exact dosing of the medium being transferred
- High-precision „start-stop-dosing“
- Low mass options
- High inlet pressure
- Highest efficiency of all Beinlich gear pumps

DISPLACEMENT SIZES & SPECIFICATION

Size	Displacements cc/rev	Flowrate [l/min] at		Operating pressure max. bar	Dimension "B" mm
		1 rpm	400 rpm		
1	0.1	0.0001	0.04	150	84
1	0.3	0.0003	0.12	150	89
1	0.6	0.0006	0.24	150	95
1	1.2	0.0012	0.48	150	90
1	1.8	0.0018	0.72	150	94
1	2.4	0.0024	0.96	150	99
1	3.0	0.003	1.20	150	103
1	4.8	0.0048	1.92	150	103
1	6.0	0.006	2.40	150	108

SIZE 1

