

DELO



DELO FLEXCAP

Foil Cartridge System for
Bubble-free Adhesive Dispensing

DELO FLEXCAP 10 ml and 30 ml



DELO FLEXCAP: Reliable, bubble-free adhesive dispensing

The unique cartridge system allows bubble-free dispensing of adhesives with viscosities ranging from low to high. Adhesives from the DELO KATIOBOND, DELO PHOTOBOND, DELO DUALBOND and DELO MONOPOX product families are particularly good to dispense.

A flexible, hermetically tight foil replaces the conventional cartridge piston. This prevents air from penetrating the adhesive volume past the piston during storage, transport and dispensing. The foil cartridge with bubble-free adhesive enables the highest dispensing reliability, precision and maximum emptying.

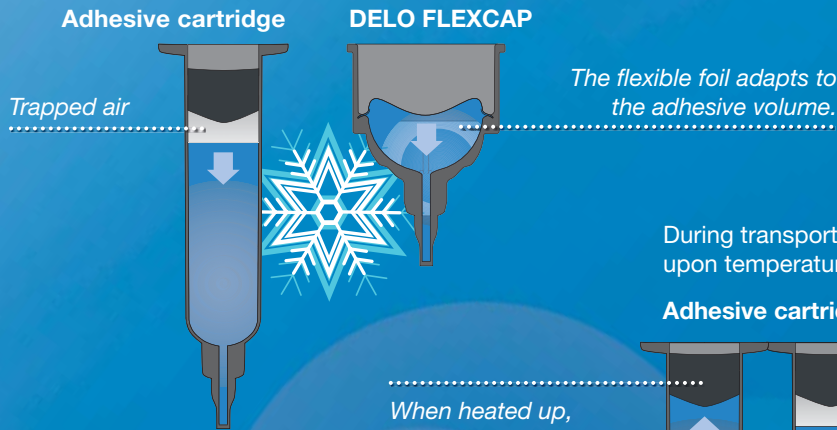


All DELO products are developed and produced in Germany, ensuring the highest quality of design and manufacture.

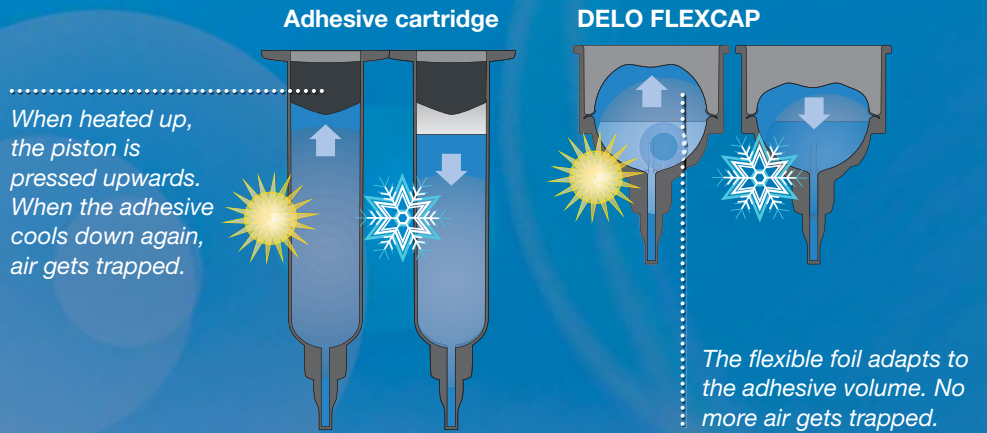
Watch the video:
www.youtube.com/DELOadhesives

Volume change upon temperature fluctuations

The adhesive can contract under the influence of cold during storage.

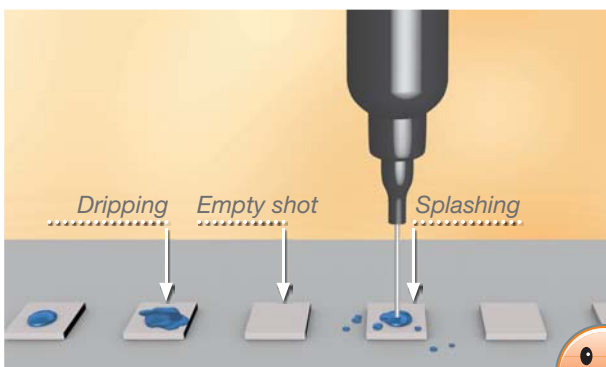
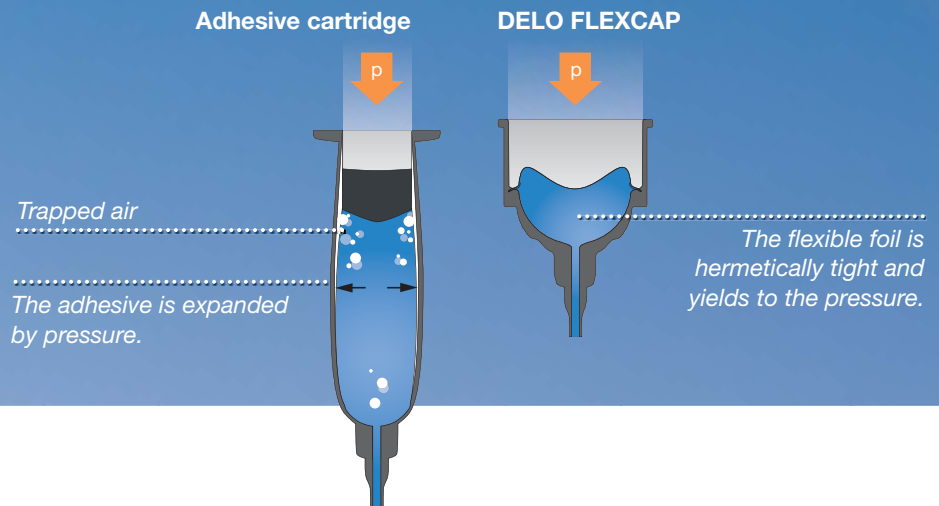


During transport, the adhesive volume can change upon temperature fluctuations.

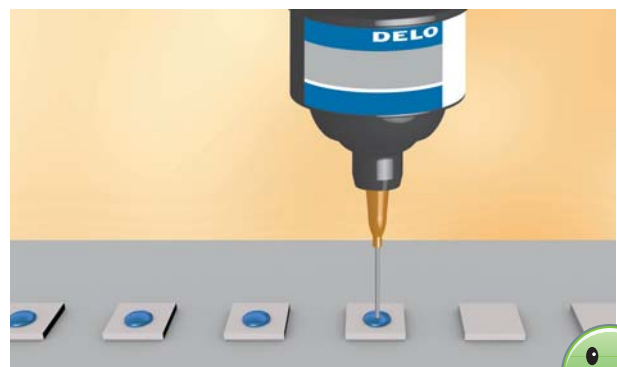


Pressurization during dispensing

When pressurized, the conventional cartridge slightly expands. Consequently, air penetrates the adhesive chamber.



Air bubbles trapped in the adhesive may lead to faulty dispensing, such as dripping, empty shots or splashing.



The bubble-free adhesive in the DELO FLEXCAP cartridge is precisely dispensed even under harsh conditions.



The innovative
DELO FLEXCAP
foil cartridge



The pressure tank
with integrated
fill level sensor



DELO FLEXCAP

Properties	Advantages
Flexible membrane instead of piston	<ul style="list-style-type: none"> ✓ Cost savings due to complete emptying ✓ Piston-free design eliminates friction, allowing for high dispensing accuracy ✓ Airtight during storage, transport and use, enabling easy and cost-efficient dry ice transport
Bubble-free adhesive	<ul style="list-style-type: none"> ✓ Reproducible dispensing results ✓ Reliable adhesive dispensing ✓ High production reliability and reproducible quality ✓ Cost savings thanks to reduced component waste (high yield)



The DELO FLEXCAP foil cartridge is a fully enclosed cartridge. What sets it apart is that it is absolutely air- and bubble-free during dispensing. The pressure tank with integrated fill level sensor is very beneficial in a controlled production process. In short: DELO FLEXCAP is a powerful new development!

Thomas Huber, Process Engineer, Robert Bosch GmbH



A reliable system:
DELO FLEXCAP with pressure tank
and integrated fill level sensor



Pressure tank with fill level sensor

The pressure tank of DELO FLEXCAP is equipped with a fill level sensor, providing benefits mainly in fully automated production.

Integrated sensors transmit a signal that indicates when the cartridge is nearly empty and completely empty. As a result, the user can prepare a new cartridge in time to achieve maximum productivity.

Properties	Advantages
Pressure tank with electronic fill level sensor	✓ Professional process control
Compact design	✓ Easy to integrate into every production system
Pressure tank with ergonomic bayonet closure	✓ Quick cartridge exchange
Quick coupling for compressed air	✓ Easy and reliable system integration

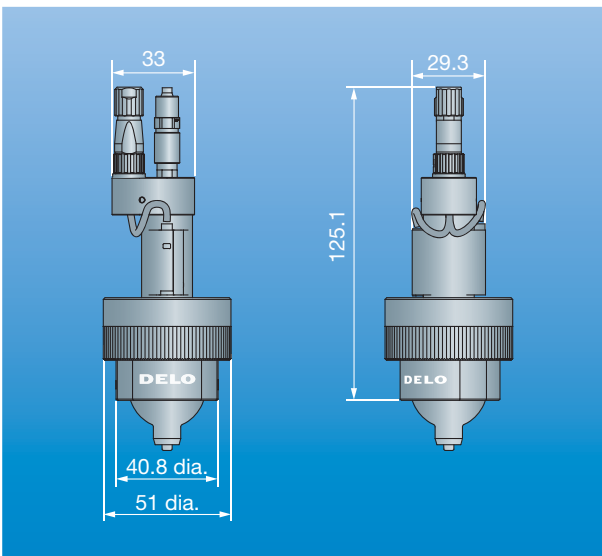
Safety-relevant applications benefit enormously from the increased reliability of dispensing

- RFID
- Casting of electronic components, such as sensors
- Bonding of mini-cameras (CCM)
- and many more

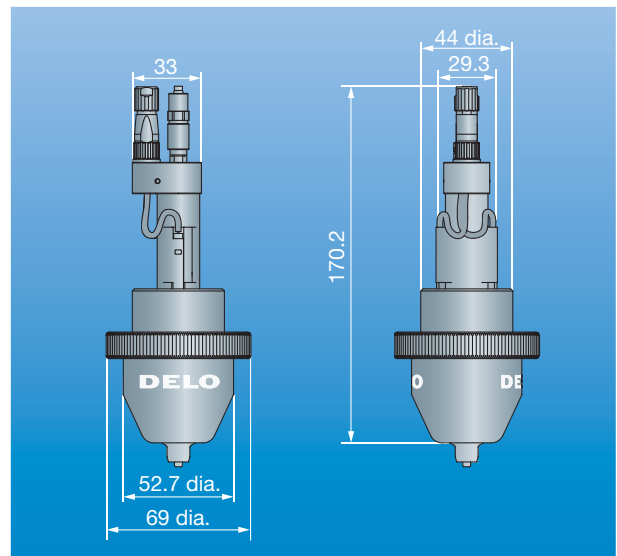


Bubble-free dispensing...

Dimensions in mm



DELO FLEXCAP 10 ml with pressure tank



DELO FLEXCAP 30 ml with pressure tank



The DELO-DOT PN jet valve with DELO FLEXCAP 30 ml in pressure tank with fill level sensor

...with a reliable system

Designation	Article number
DELO-XPRESS 923 NK, pressure tank with fill level sensor for DELO FLEXCAP 30 ml	91 100 13
DELO-XPRESS 923, pressure tank without fill level sensor for DELO FLEXCAP 30 ml	91 100 12
DELO-XPRESS 921 NK, pressure tank with fill level sensor for DELO FLEXCAP 10 ml	91 100 24
DELO-XPRESS 921, pressure tank without fill level sensor for DELO FLEXCAP 10 ml	91 100 16

Case study: Lens barrel to holder bonding

To achieve perfect image quality, the lenses and image sensors of cameras must be aligned with maximum precision. The combination of our foil cartridge and jet valve ensures reliable and reproducible adhesive dispensing – at maximum speed.





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07/17

Adhesives

Dispensing

Curing

Consulting

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