



mitos

standard microfluidic  
products

connectors

microfluidic connectors  
and interconnects



Innovators in microfluidic solutions

## What is the Mitos Range of Microfluidic Connectors?

Dolomite offer the Mitos range of standard microfluidic connectors to help you evaluate microfluidic concepts quickly and easily. These connectors are part of the full Mitos range that includes chips, pumps, valves, etc. In addition to these standard products, Dolomite offer a variety of custom designed connectors/interconnects.

### Mitos Connector benefits

- **Reliable quick connect / disconnect:** Excellent design enables reliable fluidic and electronic connections to be made in seconds.
- **Small footprint:** Dolomite's microfluidic connectors are incredibly compact, e.g. Circular Connector fits 8 tubes within 6mm radius on a chip.
- **Automatic alignment:** The innovative engineering of Dolomite's connectors ensures accurate alignment, quickly.
- **Extremely low dead volume:** Ensures low carry over and enables small sample sizes as low as a few  $\mu\text{l}$ .
- **Wide temperature range:** Dolomite's standard microfluidic connectors have a temperature range from  $-20^{\circ}\text{C}$  to  $+250^{\circ}\text{C}$  (custom versions can have a wider temperature range).
- **Excellent chemical compatibility:** Wetted materials include glass, PTFE and perfluoroelastomer.
- **Wide pressure range:** Dolomite's microfluidic connectors can operate up to 30 bar (higher on request).
- **Wide range of styles:** Edge or face connection to chips with holders, holders or interconnects to bare chips, automatic clamps and seals for disposable chips, etc.
- **Customized connectors:** Dolomite offer custom made connectors specific to your requirements.

### Mitos Connector features

Dolomite's range of connectors enable the fast and easy integration of microfluidic devices into new and existing systems.

Connecting microfluidic devices to macro-scale systems presents many challenges. If these are not addressed well, the benefits of working within the microfluidic regime may be compromised.

Dolomite's experience in creating real-world solutions for a wide range of different customers, ensures that the connector is a reliable, compact and cost-effective component in the complete product solution.

### Other microfluidic devices

Dolomite also offer a Mitos range of standard products including chips, valves, pumps, etc.

A selection of Dolomite's current range of microfluidic connectors includes:

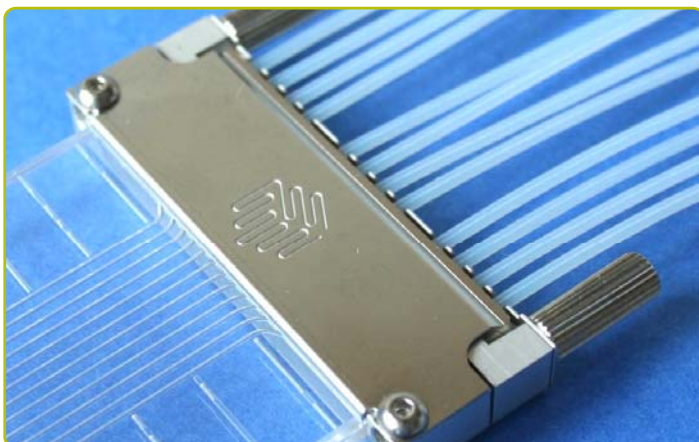
Mitos Circular Connector 8-way	3000051
Mitos Edge Connector 12-way	3000067
Mitos Edge Connector 8-way	3000102
Mitos Edge Connector 4-way	3000024
Mitos Chip Holder C	3000038
Mitos Top Connector Base 4-way	3000109
Mitos Chip Holder H	3000155
Resealable Chip Holder	3000165 / 3000166
Membrane Chip Holder	3000134
Custom Microfluidic Connectors	

Dolomite design and manufacture a large amount of custom microfluidic connectors. Dolomite will work with you to discuss how we can achieve your custom connector. Please contact us with your requirements for more details.

### Applications

The Mitos range of microfluidic connectors have been designed for applications such as droplet generation, confocal microscopic analysis, reaction mixing, life science fluid manipulation, etc.

Contact Dolomite for a consultation with one of our engineers...



**Left:** The Mitos 12-way Edge Connector with microfluidic chip

**Above:** Mitos 4-way Edge Connector and Chip Holder

**Right:** Innovative Circular Connector with 8 connections, mounted on microfluidic chip



### Dolomite Microfluidics

Unit 1, Anglian Business Park, Royston,  
Hertfordshire, SG8 5TW, United Kingdom

**T:** +44 (0)1763 242491  
**F:** +44 (0)1763 246125  
**E:** info@dolomite-microfluidics.com  
**W:** www.dolomite-microfluidics.com

### Dolomite-US

29 Albion Place  
Charlestown, MA 02129

**T:** 617 848 2997  
**F:** 617 532 1033  
**E:** salesus@dolomite-microfluidics.com  
**W:** www.dolomite-microfluidics.com