

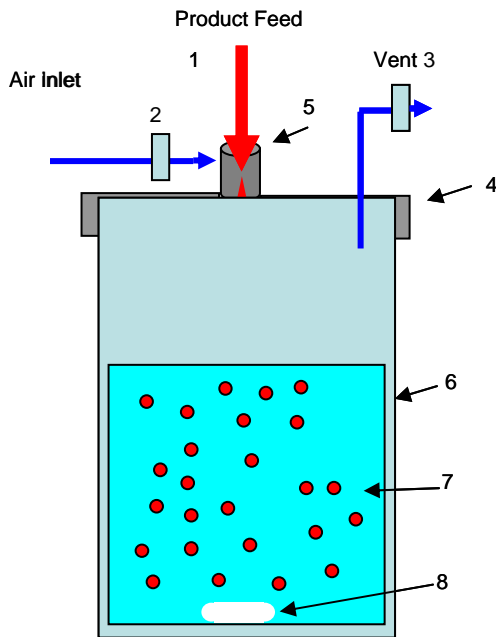
# Sterile Autoclavable Container for Nisco Encapsulation unit VAR J30



## Nisco Engineering AG

Dufourstrasse 110  
CH-8008 Zurich, Switzerland  
Tel: +41 44 380 06 30  
Fax: +41 44 380 06 31  
e-mail: mailbox@nisco.ch  
http://www.nisco.ch

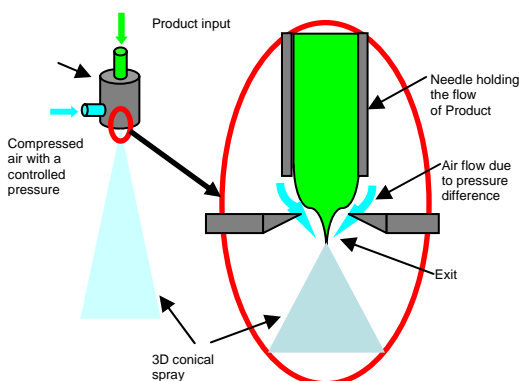
The sterile container for the Nisco J30 is designed for encapsulation with the aerodynamic nozzle. It is the ideal tool if you have to produce beads on high level pharmaceutical or medical standard. It is delivered with the required material certificates to ease the validation of your process.



### Legend:

- |   |   |
|---|---|
| 1 Product feed  | 5 Sterile aerodynamic nozzle                                  |
| 2 Air inlet from pressure container with sterile 0.2µm filter                 | 6 Autoclavable glass vessel (process is visible from outside) |
| 3 Vent to hold the vessel in pressureless condition with sterile filter 0.2µm | 7 Hardening solution with beads                               |
| 4 Clamp cover   | 8 Agitation element for stirring                              |

### Working Principle: Aerodynamic Jetting



The product enters through a central needle. The exit orifice, which is centrally in line with the axis of the needle, has been counter sunk externally. The counter sunk leads to the aerodynamical effect that the jet has the smaller diameter when it is passing the orifice than the needle. The needle is enclosed in a pressure chamber with an exit through the orifice. The size of the drops is determined by the product flow rate and the pressure inside the chamber.



### Materials in contact with product

All materials are supplied with material certificates.

- |                        |   |
|------------------------|---|
| Stainless steel parts: | 1.4435 or equivalent                      |
| Electrode:             | titanium                                  |
| Isolation parts:       | PEEK                                      |
| Nozzles:               | 1.4435 or equivalent                      |
| Gaskets:               | EPDM or Silicone depending on application |
| Glass cylinder:        | borosilicate                              |
| O-Rings:               | EPDM or Silicone depending on application |
| Hoses:                 | silicone or polypropylene                 |

### Materials without contact to product

- |                        |                      |
|------------------------|----------------------|
| Stainless steel parts: | 1.4301 or equivalent |
|------------------------|----------------------|