

Cleaning-in-Place (CIP) Nozzle

*Ideal for mounting
on any plant
component*

- Easy to install
- Automatically retracting
when not in use
- No compressed air
required



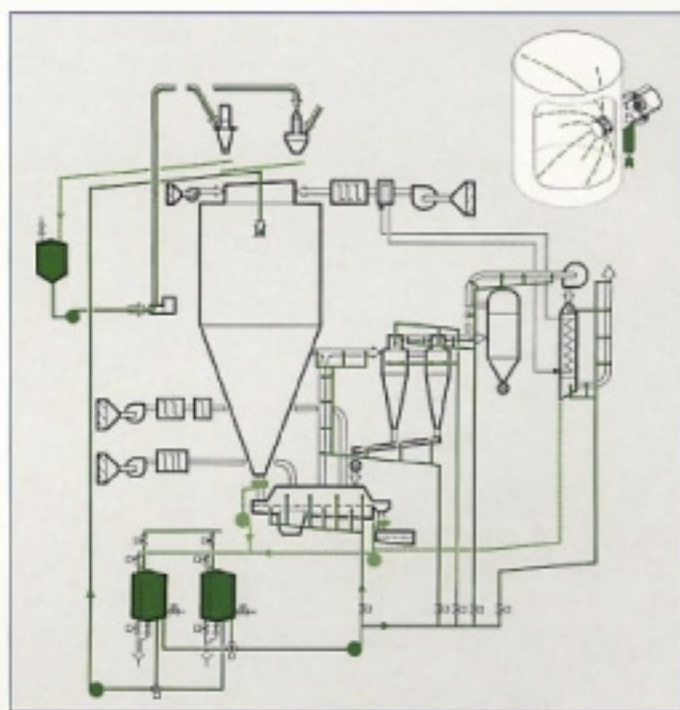
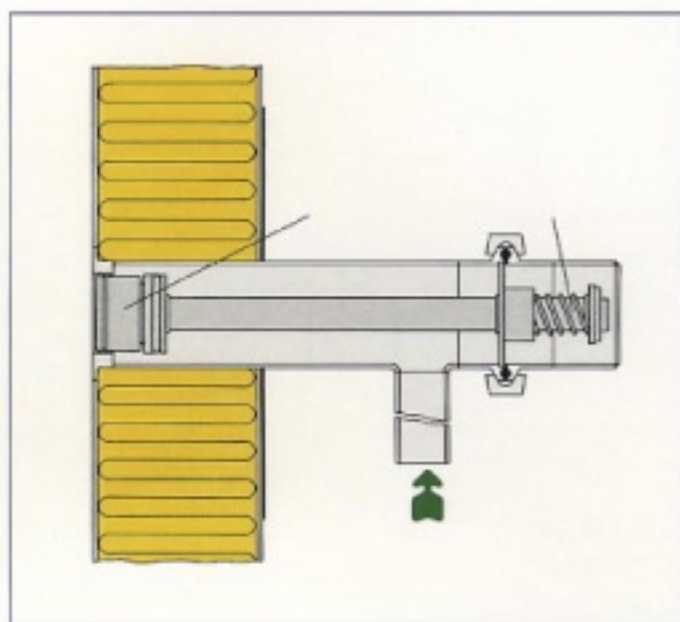
Cleaning-in-Place (CIP) Nozzle

The Niro CIP nozzle is a retractable design, where the nozzle head, when not in use, is flush with the inner wall of the equipment requiring cleaning (spray drying chambers, cyclones, fluid beds, tanks, ducts, etc.). The retracted position during plant operation ensures no disturbance of the process. During CIP operation, water is pumped to the nozzle under pressure, forcing the nozzle head out away from the flush surface. The nozzle ring becomes exposed and begins to rotate, spraying water (or cleaning fluids) over the entire surface area covered by the CIP nozzle. Once water supply is stopped, the nozzle head retracts automatically to its flush position. Suitable for mounting on both thin and thick gauge equipment (insulated or uninsulated).

Mounting the CIP Nozzle

A 64 mm diameter hole is cut at the position of nozzle mounting. The nozzle is tack welded prior to full welding in order to prevent warping of the nozzle housing. Argon should be supplied to the weld area on the inner surface of the equipment so as to avoid need for grinding. The nozzles must be mounted horizontally with the 1" pipe connection in the vertical direction for drainage requirements.

If cleaning liquid is recirculated to the nozzle, then liquid filtering is essential (filter with max. 1.5 mm holes).



Positioning of CIP nozzles on a modern spray dryer for the food and dairy industries.

Technical Data

Type:	Automatically retractable, available in standard or long versions
Capacity per nozzle:	4 m ³ /hour water at 2 bar
Coverage:	Total area, if mounted in 180° stagger max. 2 m part
Spray angle:	70-130°
Material of construction:	AISI 304

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