

containment systems



Industrial Equipment & Design Company

Containment Systems

Glove Boxes & Other Containment Systems



IEDCO has partnered with **Isolation Systems, Inc. (ISI)** to provide a variety of containment solutions to the Pharmaceutical and Chemical Industries.

Our combined engineering and design capabilities have been brought to bear to solve the most complex clean process equipment design requirements and performance specifications.

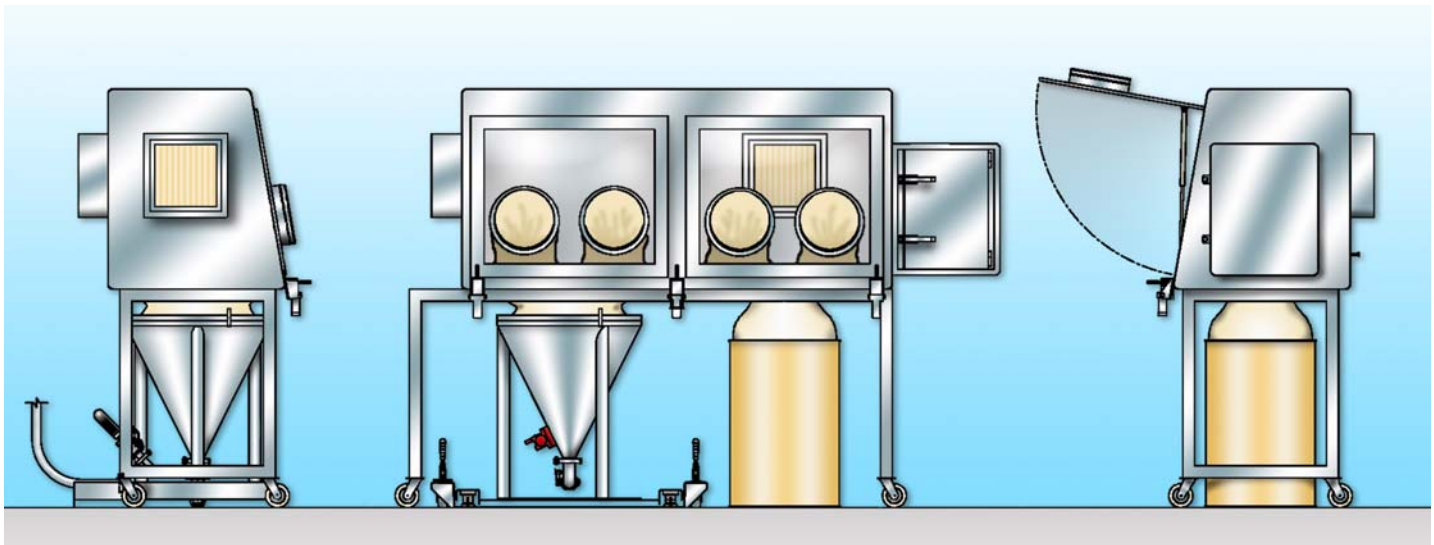


ISI offers full service design, engineering, and manufacture of complete lines of both standard and custom built airborne contamination control, containment, and extraction systems. Their systems assure the highest level of protection and safety for both personnel and product.

Isolation Systems Inc. brings over 30 years of experience to bear in the design and development of clean process specific engineered, airborne contamination control and containment systems.

All containment systems are fabricated exclusively in 304 or 316L stainless steel or mild steel that is electrostatic coated with bonderized polyurethane.

IEDCO is dedicated to providing the full spectrum of airborne contamination control, containment and extraction technologies, services and products to meet the ever expanding needs of our customers.



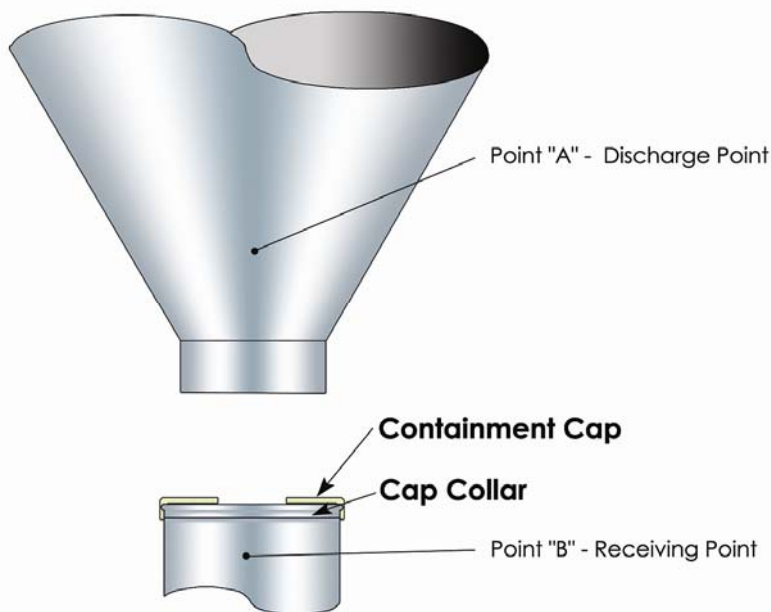
What is a Containment Cap?

Very simply, a Containment Cap is a Silicone disk which snaps onto a metal collar, and is integrated as a part of a chute, vessel or process. It is generally used to transfer a powder from point “A” to point “B” with full containment of dust during the transfer. Typically, either the discharge point or the receiving point is portable. The cap is part of the receiving point. An undersized hole is cut in the top of the cap to allow mating with a metal spigot, which is part of the discharge point. When mated with the undersized hole in the silicone cap, a tight, friction fit between the two points is achieved. This results in full dust containment when product is permitted to flow from point “A” to point “B”.



If a scale system is included on either side, the cap also provides the necessary flex connection for accurate weighing. If you are familiar with the general concept, you may know these devices as “Dust Caps”, “Silicone Caps” or “MO Seals”. We have chosen to call them Containment Caps and to invest in their tooling and manufacture here in the US so that the economy and next day availability can be passed on to the American market.

Principle of Operation



Cap Specifications

The Caps are available in four (4) metric sizes and are exact replacements to the German manufactured caps. The nominal sizes are 120mm, 170mm, 250mm and 315mm.

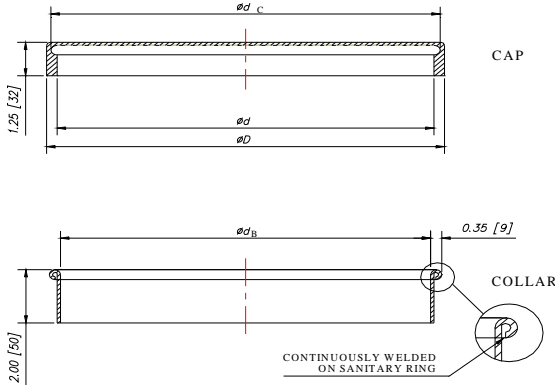


All Containment Caps are manufactured from FDA accepted Silicone rubber and are “natural” in color resulting in a color, which is somewhat yellowish. Our inventory is maintained in this natural color. However, other colors can be provided under special order, if required.

Custom caps can be made to meet your special needs. Caps can be made with other elastomers to try and meet any chemical compatibility requirements that you might have.

...a world of experience to meet your powder handling challenges

Cap Dimensions



Collar Construction

All collars are fabricated from 316 stainless steel and are available in either a standard or sanitary configuration.

The standard collar has an open bead around the entire periphery of the rolled top of the collar.

In the sanitary design the bead ring is welded over and polished providing a completely closed and easily cleaned profile.



Nominal Width	D	d _c	d _B	d
120 mm	144 mm	129 mm	120 mm	122 mm
170 mm	194 mm	179 mm	170 mm	172 mm
250 mm	274 mm	259 mm	250 mm	252 mm
315 mm	339 mm	324 mm	315 mm	317 mm

Installation of Caps

The successful use of a containment cap is as good as its fit with the spigot it mates to. If the hole cut in the cap is not perfectly round and its edges smooth it will not seal well. If the hole is oversized it will not seal well. If it is undersized it may wear prematurely.

To optimize performance the hole must be cut properly.

To this end we have available an adjustable beam compass with several surgically sharp blades and compass point-centering guard.

Spigot Diameter A	Hole Diameter B
50 mm	39 mm
100 mm	88 mm
150 mm	135 mm
200 mm	180 mm
260 mm	240 mm
300 mm	275 mm
2"	1 1/2"
4"	3 1/2"
6"	5 3/8"
8"	7 1/4"
10"	9 1/4"
12"	11"

