



**High Pressure
Equipment
Company**

OC Series O-Ring Seal Reactor

Assembly Instructions



**High Pressure Equipment Company
2955 West 17th Street, Suite 6
PO Box 8248
Erie, PA 16505 USA
814-838-2028 (phone)
814-838-6075 (fax)
www.highpressure.com**

OC Series O-Ring Seal Reactor

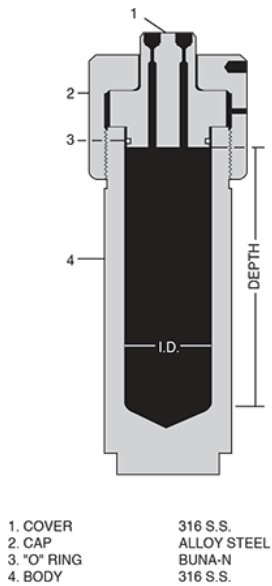
Description:

The OC Series provide a simple closure that is reliable and easy to assemble and disassemble. Standard material for the body and cover is Type 316 stainless steel. The standard O-ring material is BUNA-N. Temperature is limited by the O-ring to 250°F.

These reactors are suitable for either gas or liquid service.

Capacities range from 125 mL to 6,750 mL.

Standard connections are for 1/4" O.D. high pressure (coned and threaded) tubing (HF4). Models OC-1 and OC-3 have one connection in the cover. All other models have two connections in the cover. Contact factory if other connections and/or locations are preferred.



Catalog No.	I.D.	O.D.	Inside Depth	Capacity	Material	Working Pressure psi
OC-1*	1"	2 1/2"	10"	125 mL	316 S.S.	13,800
OC-3*	1 1/2"	2 1/2"	10"	280 mL	316 S.S.	7,750
OC-5	1 1/2"	4 3/8"	10"	280 mL	316 S.S.	16,000
OC-7	1 1/2"	4 3/8"	21"	600 mL	316 S.S.	16,000
OC-9	2"	4 3/8"	10"	500 mL	316 S.S.	12,500
OC-11	2"	4 3/8"	21"	1,040 mL	316 S.S.	12,500
OC-13	2 1/2"	4 3/8"	10"	800 mL	316 S.S.	9,200
OC-15	2 1/2"	4 3/8"	21"	1,160 mL	316 S.S.	9,200
OC-17	3"	6 7/8"	10"	1,150 mL	316 S.S.	13,000
OC-19	3"	6 7/8"	21"	2,430 mL	316 S.S.	13,000
OC-21	3 1/2"	6 7/8"	10"	1,575 mL	316 S.S.	10,500
OC-23	3 1/2"	6 7/8"	21"	3,300 mL	316 S.S.	10,500
OC-25	4"	6 7/8"	10"	2,060 mL	316 S.S.	8,500
OC-27	4"	6 7/8"	21"	4,325 mL	316 S.S.	8,500
OC-29	4 1/2"	6 7/8"	10"	2,600 mL	316 S.S.	6,500
OC-31	4 1/2"	6 7/8"	21"	5,475 mL	316 S.S.	6,500
OC-33	5"	6 7/8"	10"	3,200 mL	316 S.S.	5,000
OC-35	5"	6 7/8"	21"	6,750 mL	316 S.S.	5,000

* One (1) opening only in cover

OC Series O-Ring Closure Reactors Assembly Instructions:

General Information:

The "OC" series reactors employ a simple yet highly reliable sealing design. This is a self-sealing type of closure and does not require any torque to affect a proper seal. Assembly and disassembly can be accomplished by hand even on the larger size reactors.

It is extremely important that an ample supply of thread lubricant be kept on the body and main nut threads.

The use of a bar inserted into the main nut might prove helpful during assembly or disassembly of the closure. However, excessive force on the bar should never be used.

Caution: In order to guard against thread galling:

The weight of the cap may be significant and must be offset (neutralized) prior to assembly or disassembly. Thread lubricant must be applied to the body threads prior to each reassembly.

Assembly Instructions:

1. Place the O-Ring into the groove in the cover. A process-compatible grease sealant is usually desirable to enhance sealing.
2. Insert the cover into the body until it fully contacts the end of the body.
3. Lubricate the body threads with an appropriate thread lubricant.
4. Rotate the main nut clockwise onto the reactor until it contacts the cover. Excessive force is not required for sealing.