

# Pressure Vessels and Reactors

## Bolted Closure Reactors

The Bolted Closure Reactors are designed for use up to 650°F (343°C) at the working pressures indicated. Standard material for the body, cover and gasket is Type 316 stainless steel. Standard O-rings may be used in place of the metal gasket when temperatures permit.

Standard connections include two high pressure (coned and threaded) tubing connections for 1/4" O.D. tubing (HF4) located in the cover. Contact factory if other connections and/or locations are preferred.

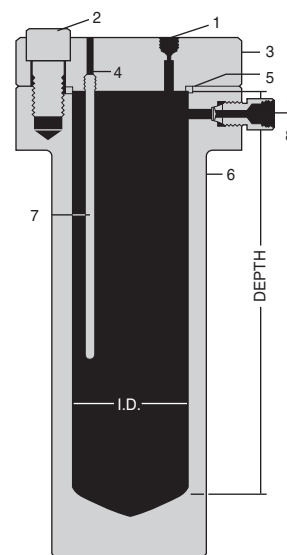
Other items available include:

- Heating mantle. Removable quartz fabric cylinder column type. 110 volt, single phase. Bolted closure reactors are supplied with mounting bolt holes on the bottom surface.
- Thermowell for use with 1/16" thermocouple
- Safety head located in side flange with rupture disc (see Page 35)



## Bolted Closure Reactors

Catalog No.	Capacity	Working Pressure psi	Temperature Rating °F	Inside Diameter	Inside Depth	Approx. Weight (pounds)	Approx. Torque (ft-lb) per Bolt	Material
BC-1	300 mL	5,000	650	2"	6"	21	40	316 S.S.
BC-2	1 liter	5,000	650	3"	9"	50	75	316 S.S.
BC-3	2 liter	5,000	650	3 1/2"	12 1/2"	68	105	316 S.S.
BC-4	1 gallon	3,000	650	5"	12"	97	105	316 S.S.
BC-5	1 gallon	5,000	650	5"	12"	152	175	316 S.S.
BC-6	2 gallon	3,000	650	6 1/2"	14"	245	140	316 S.S.



1. PRESSURE CONNECTION (2)
2. SOCKET CAP SCREW
3. COVER
4. GASKET
5. MAIN SEAL
6. BODY
7. THERMOCOUPLE WELL\*
8. SAFETY HEAD\*

\* SUPPLIED AS EXTRA WHEN SPECIFIED

## Pressure Ratings

### Bolted Closure Reactors (psi) at Elevated Temperatures

Temperature °F (°C)	BC-1	BC-2, BC-3, BC-5	BC-4, BC-6
100 (38)	5600	5250	3150
200 (93)	5600	5250	3150
300 (149)	5500	5100	3100
400 (204)	5400	5050	3050
500 (260)	5350	5050	3050
600 (316)	5100	5050	3050
650 (343)	5000	5000	3000

Temperature °F (°C)	BC-1	BC-2, BC-3, BC-5	BC-4, BC-6
700 (371)	4900	4900	2950
750 (399)	4800	4800	2850
800 (427)	4200	4200	2500
850 (454)	3400	3400	2050
900 (482)	2500	2500	1500
950 (510)	1700	1700	1000
1000 (538)	900	900	550