

Pressure Vessels and Reactors

Series "MS" Micro Reactors

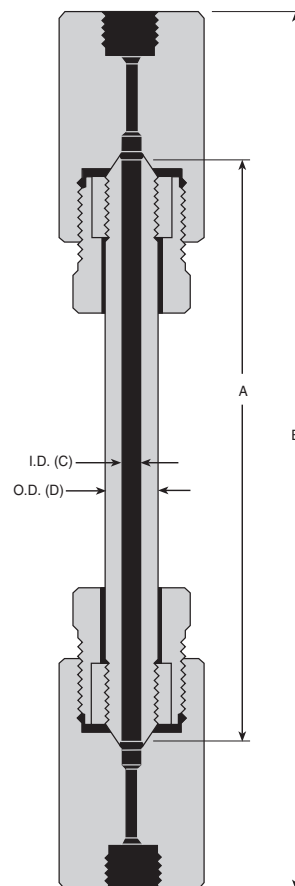
The Micro Reactors shown are designed for numerous applications including small volume testing of components and miniature scale reaction tests.

Standard material of construction is Type 316 stainless steel.

Operation at temperatures up to 800°F is made possible by the metal to metal seal construction. Working pressures should be reduced by approximately 15% at the maximum 800°F temperature level.

Connections are for 1/4" O.D. high pressure coned and threaded tubing (HF4). One connection is provided at each end. Other sizes or types of connections can be provided. Thermocouples can easily be installed with the use of thermocouple adapters (refer to section 12).

Catalog No.	Capacity	Working Pressure psi	(C) Inside Diameter	(D) Outside Diameter	(A) Inside Depth	(B) Overall Length
MS-1	2 mL	60,000	3/16"	9/16"	4"	7"
MS-2	3 mL				6"	9"
MS-3	4 mL				8"	11"
MS-4	5 mL				10"	13"
MS-5	6 mL				12"	15"
MS-11	5 mL	20,000	5/16"	9/16"	4"	6 1/2"
MS-12	7 1/2 mL				6"	8 1/2"
MS-13	10 mL				8"	10 1/2"
MS-14	12 1/2 mL				10"	12 1/2"
MS-15	15 mL				12"	14 1/2"
MS-16	24 mL	20,000	9/16"	1"	6"	9"
MS-17	41 mL				10"	13"
MS-18	65 mL				16"	19"
MS-19	81 mL				20"	23"



Series "MB" Reactors

High Pressure Equipment Company's MB series reactors are designed for high pressure applications in which metal seals are required because of chemical or high temperature requirements.

The MB seal is a refinement of the Bridgeman seal, which operates on the unsupported area principle. When properly assembled, the pressure end load on the cover forces the entire closure assembly together, affecting the seal. The higher the pressure, the higher the sealing force.

MB Reactors are built to order and as such various volumes, pressure ratings and materials of construction can be used. Please consult factory for all options.

Note: No rotation should be permitted between the body and the seal ring, and between the seal ring and the cover. Relative rotation between these surfaces might result in galling and consequent seal failure.

