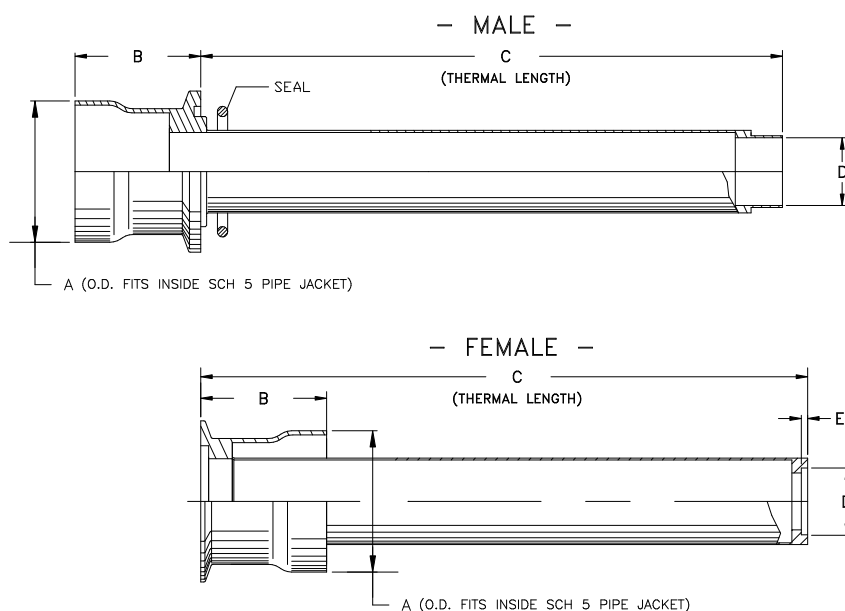


## B3000 CRYOGENIC BAYONET SERIES

# B3000 Cryogenic Bayonet

The B3000 is a high efficiency cryogenic connection for vacuum insulated piping systems. The design utilizes an extremely close fit between the male and mating female bayonet establishing a gas pocket between the liquid interface and the flange seal. The very small gas pocket and the thin stainless elements contribute to the high efficiency of this design. The primary seal is a silicone o-ring at the flange location. The close design tolerances eliminate the necessity of a nose seal.



## TECHNICAL DATA

- Highly Efficient and Reliable Close Tolerance Design for Vertical or Horizontal Applications.
- Designed For Fast and Convenient Installation For Piping Fabricators. No Clamshell Required.
- MAWP: 300 PSIG.  
Proof: 450 PSIG.
- All Internal Components Leak Tested to  $1 \times 10^{-9}$  SCC GHe/SEC.
- Convenient V-band Closure. Bolted Flange Optional.

## APPLICATIONS

- Vacuum Insulated Flex Lines
- Cold Box Interface Connections
- Tank and Truck Fill Connections



**CRYOGENIC VALVES and VACUUM COMPONENTS**

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### MALE BAYONETS

PART NO.	DESCRIPTION	A	B	C	D	SEAL
B3049-MB	1/2" IPS Male Bayonet Assembly, 9" Thermal Length	2.21	3.5	9.24	.85	2-224
B30412-MB	1/2" IPS Male Bayonet Assembly, 12" Thermal Length	2.21	3.5	12.24	.85	2-224
B3069-MB	3/4" IPS Male Bayonet Assembly 9" Thermal Length	2.21	3.5	9.24	1.07	2-224
B30612-MB	3/4" IPS Male Bayonet Assembly 12" Thermal Length	2.21	3.5	12.24	1.07	2-224
B30812-MB	1" IPS Male Bayonet Assembly, 12" Thermal Length	2.69	3.5	12.24	1.32	2-329

### FEMALE BAYONETS

PART NO.	DESCRIPTION	A	B	C	D	E	CLAMP
B3049-FB	1/2" IPS Female Bayonet Assembly, 9" Thermal Length	2.21	3.5	9.65	.85	.10	B3049-VB
B30412-FB	1/2" IPS Female Bayonet Assembly, 12" Thermal Length	2.21	3.5	12.65	.85	.10	B3049-VB
B3069-FB	3/4" IPS Female Bayonet Assembly, 9" Thermal Length	2.21	3.5	9.65	1.07	.10	B3049-VB
B30612-FB	3/4" IPS Female Bayonet Assembly, 12" Thermal Length	2.21	3.5	12.65	1.07	.10	B3049-VB
B30812-FB	1" IPS Female Bayonet Assembly, 12" Thermal Length	2.69	3.8	12.65	1.32	.10	B30812-VB

### THERMAL DATA

PART NO. (SIZE IPS)	THERMAL LENGTH	LN <sub>2</sub> HEAT LEAK @78°K	COOLDOWN MASS (LBS.)
B3049 (1/2") and B3069 (3/4")	9" Insertion Length	8.4 BTU/HR	0.8
B30412 (1/2") and B30612 (3/4")	12" Insertion Length	6.3 BTU/HR	0.8
B30812 (1.0")	12" Insertion Length	10.3 BTU/HR	0.8



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