

FOR FIXED VACUUM JACKETED PIPING SYSTEMS, DUAL SEAL

CLOSE TOLERANCE BAYONETS



Valve Size:

Available in 3/4" F to 1" F



APPLICATIONS

- New Vacuum Jacketed Piping Systems
- Storage Vessels, Tanks & Dewars
- Transports & Trailers
- Transfer Hose & Fill Systems
- Expansion of Existing Systems & Modifications to Current Designs
- Complete Line of Vacuum Jacketed Valves and Filters
- Bayonets Available for LNG Service
- Consult Factory for Special Applications



FEATURES

- Many Bayonet Styles Available
- Commercial Style & Close Tolerance Style now Available from Stock
- Constructed of Material that is Suitable for Cryogenic Service
- But Weld and Socket Weld Ends for Simple Fabrication into your System
- Thermally Efficient with Inner & Outer Weldment for Vacuum Jacketed Systems

Service:

Argon, Helium, Hydrogen, Nitrogen, and Oxygen



OPTIONS

- Buna N Silicone O-ring and/or Graphite Face Seals (Determined by Application)
- UHP or Standard Configuration
- Electro-polished and Special Cleaning Available
- Complete Design, Testing & Qualifications



OPERATING RANGES

Temperature..... -456° F to +200° F
(-269° C to +93° C)

Max. Operating Pressure 275 PSIG



TECHNICAL DATA

Materials of Construction:

Metal Components 304 & 316
Stainless Steel
Soft Goods Buna N, Graphite,
Silicone or Teflon®

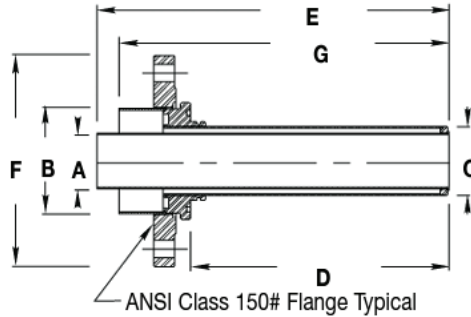
Testing:

Seat Leakage Mass spec. to
1x10⁻⁹scc GHe/sec

CLOSE TOLERANCE BAYONETS

CLOSED TOLERANCE BAYONETS, DUAL SEAL

For fixed Vacuum Jacketed Piping Systems. Specify service: Standard, Oxygen, or Hydrogen.

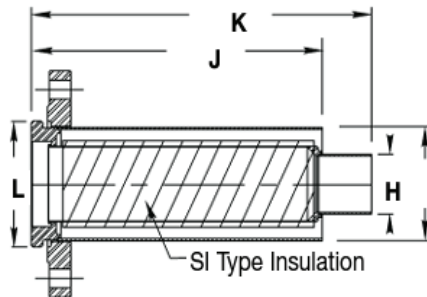


MALE CLOSE TOLERANCE*

Temp. -423°F MAWP 275 PSIG

Size*	P/N	A	B	C	D	E	F	G	ΔQ
1/2" x 2"	F-BMCTPS04X	0.84"	2.37"	1.56"	8"	12"	6.0"	11"	4.5
1" x 2-1/2"	F-BMCTPS08X	1.31"	2.87"	1.75"	10"	14"	7.0"	13"	4.9
1-1/2" x 3"	F-BMCTPS12X	1.90"	3.50"	2.44"	9"	13"	7.5"	12"	9.1
2" x 4"	F-BMCTPS16X	2.37"	4.50"	2.94"	11"	15"	9.0"	14"	9.7
3" x 5"	F-BMCTPS24X	3.50"	5.56"	3.92"	12"	16"	10.0"	15"	10.5
4" x 6"	F-BMCTPS32X	4.50"	6.62"	5.35"	16"	20"	11.0"	19"	19.2
6" x 10"	F-BMCTPS48X	6.62"	10.75"	8.39"	18"	22"	16.0"	21"	41.0

*Male bayonet shipped with all assembly hardware and seals.



FEMALE CLOSE TOLERANCE

Temp. -423°F MAWP 275 PSIG

Size*	P/N	H	I	J	K	L	ΔQ
1/2" x 2"	F-BFCTPS04X	0.84"	2.37"	9.00"	11.00"	2.94"	6.7
1" x 2-1/2"	F-BFCTPS08X	1.31"	2.87"	11.38"	13.38"	3.88"	7.9
1-1/2" x 3"	F-BFCTPS12X	1.90"	3.50"	10.38"	12.38"	4.00"	6.5
2" x 4"	F-BFCTPS16X	2.37"	4.50"	11.63"	13.63"	5.00"	6.0
3" x 5"	F-BFCTPS24X	3.50"	5.56"	13.75"	15.75"	6.49"	14.7
4" x 6"	F-BFCTPS32X	4.50"	6.62"	18.00"	20.00"	7.94"	31.7
6" x 10"	F-BFCTPS48X	6.62"	10.75"	19.25"	21.25"	11.94"	37.0

The close tolerance Dual Seal Bayonet is a flanged connection using ANSI type flanges. It is assembled with two O-Rings, Teflon® nose seal and stainless steel nuts & bolts. An assembly kit is required for each pair.

SPARE ASSEMBLY KITS

Size	Kit Number
1/2" x 2"	F-BPCTPS04K
1" x 2-1/2"	F-BPCTPS08K
1-1/2" x 3"	F-BPCTPS12K
2" x 4"	F-BPCTPS16K
3" x 5"	F-BPCTPS24K
4" x 6"	F-BPCTPS32K
6" x 10"	F-BPCTPS48K

SAMPLE KIT NUMBER:

F-BPCTP S 12 K

for 1-1/2" x 3" Bayonet Pair

Required Assembly Parts For Close Tolerance Bayonets:

To order individual components from Assembly Kits change the "K" at the end of the Kit Number above to the I.D. letter for the component as shown below:

- O = O-Ring for Face Seal
- N = Nose Seal Only
- H = Nuts & Bolts to assemble Male and Female Bayonet
- K = Nose Seal, O-Rings and Nuts & Bolts

Specify Service:

To specify service other than Standard, change the "S" in the Part Number shown above to the I.D. letter for the service shown below:

- S = Standard Service includes Argon, Helium and Liquid Nitrogen
- O = Oxygen Service, Consult Factory
- H = Hydrogen Service, Consult Factory

Notes for Close Tolerance Bayonets:

- SI - Sixteen layers of laminar radiation shielding consisting of alternating layers of glass paper and aluminum foil
- ΔQ - Conductive heat leak from ambient to cryogenic temperature. BTU/Hr. @ 77.4°K (LN2).
- * - Nominal pipe size. All pipe is Schedule 5 unless noted. Dimensions shown above are for reference only.