

VACUUM INSULATED CRYOGENIC CONNECTIONS

BAYONET CONNECTIONS



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

OPTIONS

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



FEATURES

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



TECHNICAL DATA

Operating Ranges:

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

Operating Pressures up to 275 PSIG

Tests:

Seat Leakage Mass spec. to 1×10^{-9}
cc GHe/sec

Service:

Argon, Helium, Hydrogen, Nitrogen, and Oxygen

Materials of Construction:

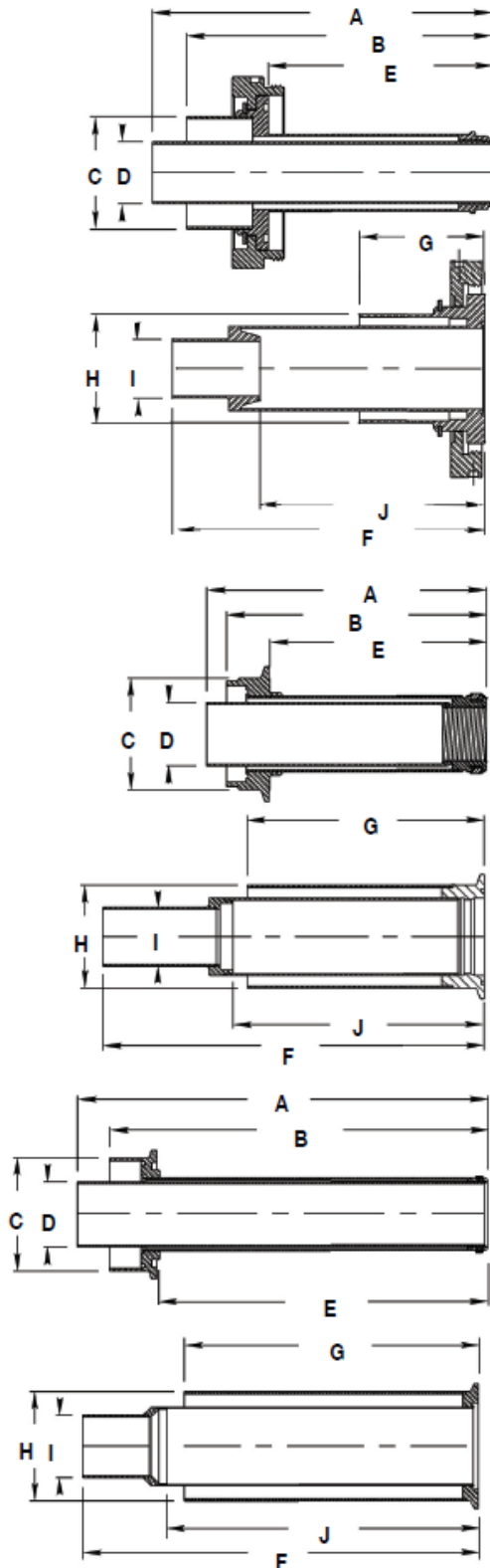
Metal Components 304 & 316
Stainless Steel
Soft Goods Buna N, Graphite,
Silicone or Teflon®



BAYONET CONNECTIONS

COMMERCIAL BAYONETS VACUUM JACKETED FOR HYDROGEN & HELIUM

For Hoses, Tankers and Storage Vessels.



Dimensions are shown for reference only.

MALE AIR FORCE HYDROGEN SERVICE*

Temp. -423°F MAWP 200 PSIG

Size	P/N	A	B	C	D	E	Inner Line
1-1/2" PS	F-BMAFPS12X	10.6"	9.6"	3.5"	1.9"	7.0"	1-1/2" Sch. 5 Pipe
1-1/2" ODT	F-BMAFTS12X	10.6"	9.6"	3.5"	1.5"	7.0"	1-1/2" x .065" Tube

*Shipped with nose seal and o-ring.

FEMALE AIR FORCE HYDROGEN SERVICE

Temp. -423°F MAWP 200 PSIG

Size	P/N	F	G	H	I	J	Inner Line
1-1/2" PS	F-BFAFPS12X	10.0"	4.0"	3.5"	1.9"	7.2"	1-1/2" Sch. 5 Pipe
1-1/2" ODT	F-BFAFTS12X	10.0"	4.0"	3.5"	1.5"	7.2"	1-1/2" x .065" Tube
1" PS	F-BFAFPS08X	10.0"	4.0"	3.5"	1.3"	7.2"	1" Sch. 5 Pipe
1" ODT	F-BFAFTS08X	10.0"	4.0"	3.5"	1.0"	7.2"	1" x .065" Tube

MALE LINDE TYPE HYDROGEN SERVICE*

Temp. -423°F MAWP 200 PSIG

Size	P/N	A	B	C	D	E	Inner Line
2" ODT	F-BMLTS16X	8.8"	8.2"	3.5"	2.0"	6.8"	2" x .065" Tube
1-1/2" ODT	F-BMLTS12X	8.8"	8.2"	3.5"	1.5"	6.8"	1-1/2" x .065" Tube

*Shipped with nose seal and energizer. V-Band clamp required for installation.

FEMALE LINDE TYPE HYDROGEN SERVICE*

Temp. -423°F MAWP 200 PSIG

Size	P/N	F	G	H	I	J	Inner Line
2" PS	F-BFLTPS16X	13.0"	8.1"	3.5"	2.38"	8.6"	2" Sch. 5 Pipe
2" ODT	F-BFLTTS16X	13.0"	8.1"	3.5"	2.00"	8.6"	2" x .065" Tube
1-1/2" PS	F-BFLTPS12X	13.0"	8.1"	3.5"	1.30"	8.6"	1-1/2" Sch. 5 Pipe
1-1/2" ODT	F-BFLTTS12X	13.0"	8.1"	3.5"	1.00"	8.6"	1-1/2" x .065" Tube

MALE HELIUM SERVICE*

Temp. -456°F MAWP 200 PSIG

Size	P/N	A	B	C	D	E	Inner Line
2" ODT	F-BMCYTS16X	17.5"	16.5"	3.5"	2.0"	15.0"	2" x .065" Tube

*Shipped with nose seal and o-ring. V-Band Clamp required for installation.

FEMALE HELIUM SERVICE*

Temp. -456°F MAWP 200 PSIG

Size	P/N	F	G	H	I	J	Inner Line
2" ODT	F-BFCYTS16X	17.38"	15.38"	3.5"	2.0"	14.7"	2" x .065" Tube

V-BAND CLAMP

Model	P/N
Linde Type w/HandWheel	F-1575
Helium Service w/HandWheel	F-1585
Helium Service	F-1600

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COMMERCIAL BAYONETS - ASSEMBLY KITS & OPTIONS

AIR FORCE TYPE BAYONETS*

P/N F-BPAFxxxx K

	Description	Material	Letter
Kit:	O-Ring	Buna N	O
	Nose Seal	TFE	N
Optional:	Dust Cap	Aluminum	D
	Pressure Cap, Female	Stainless Steel	S

*The Air Force Type Bayonet is a threaded connection which uses a Teflon® nose seal and Buna N O-Ring on the male Bayonet. An assembly kit is required for each pair.

LINDE TYPE BAYONETS*

P/N F-BPLTxxxx K

	Description	Material	Letter
Kit:	O-Ring	PCTFE	O
	Energizer	Stainless Steel	E
	Nose Seal	TFE	N
Optional:	Dust Cap	Aluminum	D
	Pressure Cap, Female	Stainless Steel	S

*The Linde Type Bayonet is a V-band connection which uses a Teflon® nose seal and an energizer on the male Bayonet and a Kel-F O-Ring on the female Bayonet. An assembly kit is required for each pair and a V-Band Clamp is required for installation.

HELIUM SERVICE BAYONET*

P/N F-BPCYxxxx K

	Description	Material	Letter
Kit:	O-Ring	Buna N	O
	Nose Seal	TFE	N
Optional:	Dust Cap	Aluminum	D
	Pressure Cap, Female	Stainless Steel	S

*The Helium Bayonet is a V-band connection which uses a Teflon® nose seal and Buna N O-Ring on the male Bayonet. An assembly kit is required for each pair and a V-Band Clamp is required for installation.

SPARE ASSEMBLY KITS

Type	Part Number
Air Force	F-B P AFxxxx K
Linde	F-B P LTxxxx K
Helium	F-B P CYxxxx K

SAMPLE KIT NUMBER:

F-B P CYXXXX K

When ordering parts for male and female Bayonets change the "K" in the Kit Number above to the identification letter for the connection type shown below:

P = Pair
M = Male
F = Female

To order Optional or Kit items change the "K" at the end of the Kit Number above to the identification letter for the kit description as shown below:

O = O-Ring
N = Nose Seal
E = Energizer for Linde Type
Nose Seal
K = Complete Assembly Kits
as described above
D = Aluminum Dust Cap
S = Stainless Steel Pressure
Cap



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