A&N CORPORATION

VACUUM FEEDTHROUGHS

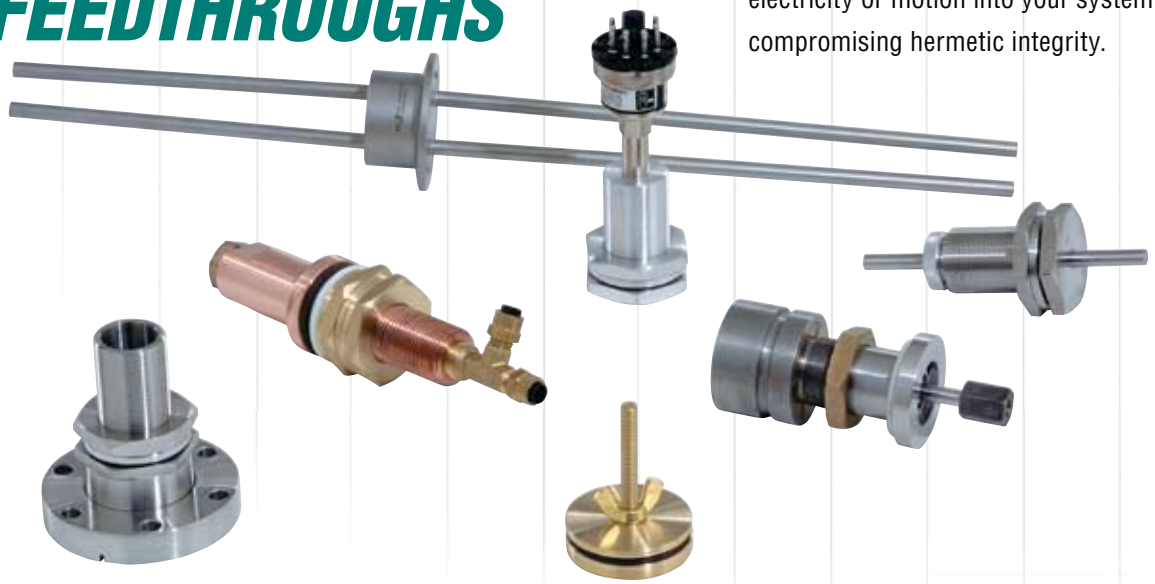
Vacuum Feedthroughs

A&N Corporation

707 SW 19th Ave.
Williston, FL 32696
1(800) FLANGE1
FAX (352) 528-3441
www.ancorp.com

Vacuum FEEDTHROUGHS

This section is made up of a wide variety of products that allow you to transfer fluid, gas, electricity or motion into your system without compromising hermetic integrity.



Overview

The A&N electrical feedthrough line is used to transfer low voltage (50 volts max.), high current electrical power into a vacuum atmosphere. Our feedthrough features one-piece construction, eliminating any possible leakage through weld joints.

Rotary motion feedthroughs are available in two designs. Elastomer sealed rotary feedthroughs and ferro-sealed rotary feedthroughs. The elastomer sealed feedthrough utilizes a double o-ring seal. The ferro-sealed rotary feedthrough uses ferrofluid o-ring technology to provide a reliable vacuum seal, high RPM and high torque capacity all at a price unmatched for its features. Ferro-Sealed rotary feedthroughs are available in multiple flange connection designs.

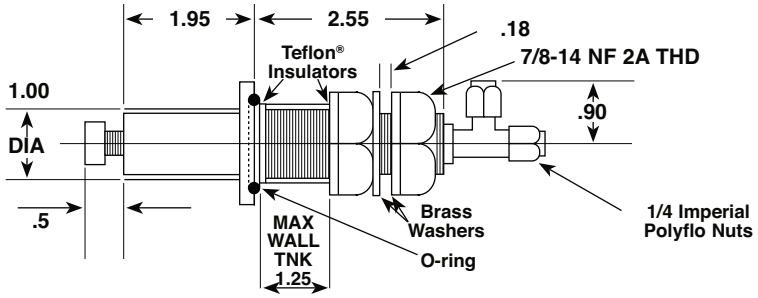
Fluid and gas feedthroughs transmit fluids, cryogenic cooling agents or gasses into high and ultrahigh vacuum chambers. These feedthroughs are available with multiple tubing and flange connection options.

General feedthroughs serve many useful purposes. Attach a vacuum measurement device, add a gas backfill line, mount metal or glass tubing, connect your bulkhead port to an ISO-QF or CF flange or close an unused bulkhead port with a blank-off feedthrough.

Electrical Feedthroughs

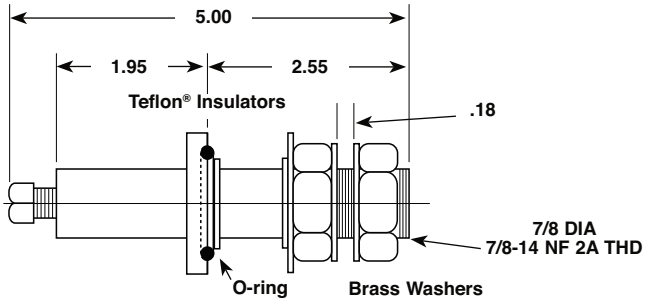
This feedthrough is used to transfer low voltage (50 volts, max.), high current electrical power into a vacuum atmosphere. Our feedthrough features one-piece construction eliminating any possible leakage through welded joints. This unit is constructed of oxygen-free copper and brass. Insulators are Teflon® for strength and durability. Water line connectors are designed to accept 1/4 inch I.D. poly-flow tubing. This unit will mount into a standard 1 inch diameter hole.

1000 AMP. Hi-Current Watercooled Feedthrough



PART NUMBER	REFERENCE NUMBER	DESCRIPTION
2012021	FTHC-BH-1000	1000 Amp, High Current, Water-Cooled Feedthrough
2110005	FTV-RK	Repair Kit, contains large & small Teflon® insulator, O-ring
2110008	FTV-T	Replacement Imperial Tee

400 AMP. Hi-Current Feedthrough



PART NUMBER	REFERENCE NUMBER	DESCRIPTION
2100002	FTHC-BH-400	400 Amp, High Current Feedthrough
2110005	FTV-RK	Repair Kit, contains large & small Teflon® insulator, O-ring
2110008	FTV-T	Replacement Imperial Tee

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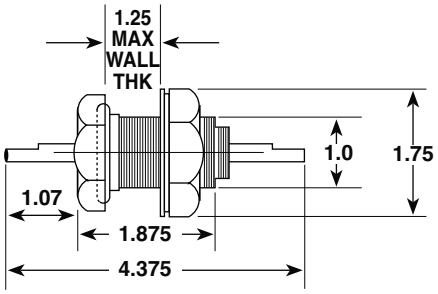
Rotary Motion Feedthroughs - Elastomer Sealed

A&N's elastomer sealed rotary feedthrough is ideal for users requiring a rotary feedthrough for manual operation. The 1/4 inch shaft is supported by two ball bearings for smooth rotation. The 3/8 inch and 1/2 inch feedthroughs utilize bronze bearings to support the shaft. The shaft is sealed by a preloaded o-ring - virtually foolproof! No spring to wear out or worry about. The most amazing feature, however, is that the o-ring may be regreased or serviced by removing and replacing all components from the atmosphere side of the feedthrough in about 10 seconds without the use of any tools!

This feedthrough is available in aluminum or stainless steel. The unit is designed to fit standard 1 inch diameter through-hole mounting for wall thickness up to 1 1/4 inch.

Rotary Motion Feedthroughs - Elastomer Sealed



PART NUMBER	REFERENCE NUMBER	DESCRIPTION
2002010	FTRE-125-BH-A	1/4 in. Shaft (Aluminum)
2002011	FTRE-125-BH-S	1/4 in. Shaft (304 Stainless Steel)
2002012	FTRE-138-BH-A	3/8 in. Shaft (Aluminum)
2002013	FTRE-138-BH-S	3/8 in. Shaft (304 Stainless Steel)
2002014	FTRE-150-BH-A	1/2 in. Shaft (Aluminum)
2002015	FTRE-150-BH-S	1/2 in. Shaft (304 Stainless Steel)

125-FTR Spare Parts

PART NUMBER	REFERENCE NUMBER	DESCRIPTION
2002009	125-BK	Replacement Parts: Replacement Bearings & O-rings
2012020	FTAN	Replacement Parts: Aluminum Nut
2012021	FTAW	Replacement Parts: Aluminum Washer
2012022	FTSN	Replacement Parts: Stainless Steel Nut
2012023	FTSW	Replacement Parts: Stainless Steel Washer
2012015	125-KC	Replacement Parts: Knurled Cap

Ferro-Sealed Rotary Feedthrough

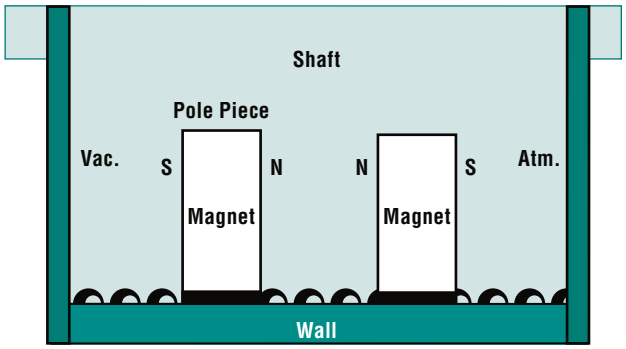
Ferro-Sealed Feedthrough

- Hermetically sealed with ferrofluid technology
- Vacuum rated to $1x10^{-8}$ Torr (UHV option rated to $1x10^{-9}$ Torr)
- Up to 5000 RPM performance
- Very low stray magnetic fields
- No magnets in the vacuum environment
- High torque capacity
- 2 1/2 atmosphere pressure differential tolerance
- Multiple connection options (threaded nose, baseplate, CF, ISO or customized)

Ferrofluid Sealing Technology

Ferrofluid seals are based on the formation of liquid o-rings which create a hermetic seal on the shaft of the feedthrough. This is accomplished by the retention of magnetic fluid (ferrofluid) by powerful magnetic fields created by precise placement of high-strength magnets within the body of the feedthrough. The precise roller bearing spindle design allows for a smooth rotation and a high number of rotations per minute.

Ferrofluid Forms Liquid o-rings with the help of strong, high-energy magnets



The Ferro-Sealed Rotary Feedthrough Advantage

As a direct replacement for traditional:

Ferrofluid Sealed Feedthroughs vs.

- Higher torque transmitted due to increased shaft strength
- Greatly reduced stray magnetic fields
- Increased atmosphere pressure differential tolerance
- High resistance to external magnetic fields
- Customizable to any vacuum flange or connection
- Compact seal technology leaves more room for longer service life and more precise rotation

Elastomer and Bellows Sealed Rotary Feedthroughs

- Greatly increased RPM
- Greatly increased service life
- No leak rate fluctuation during rotation
- Customizable to any vacuum flange or connection
- All these features at approximately the same cost

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Ferro-Sealed Rotary Motion - Baseplate Connection

Materials:

- Body and shaft – 17-4 PH stainless steel
- Seal – Buna-N

Specifications:

- Vacuum rated: $1x10^{-8}$ Torr
- Max. operating pressure differential: 2.5 atm.
- Helium leak tested to $5x10^{-9}$ std. cc/sec.
- Top speed: 5000 rpm
- Max. temperature: 80˚C
- Drag torque:
  - @ Break-away = 11 oz-in
  - @ 100 rpm = 6 oz-in
  - @ 1000 rpm = 9 oz-in
- Bearing type: R6
  - Max. static load = 305 lbs.
  - Max. dynamic load = 575 lbs.
  - Lubricant = Fomblin®/Krytox® Blend

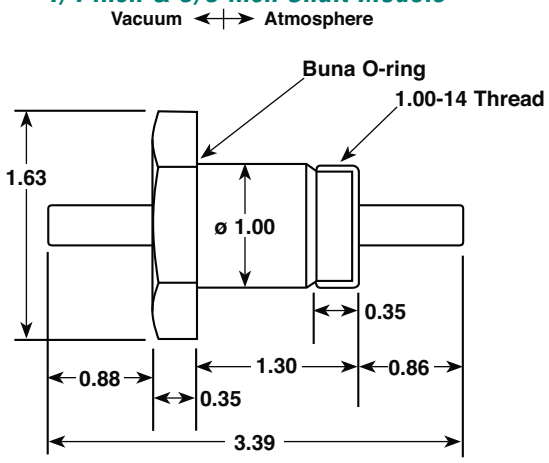
Product Notes:

- Hermetically sealed with ferrofluid technology
- Very low stray magnetic fields
- No magnets in the vacuum environment
- High torque capacity
- Connection to system: Buna o-ring seal with baseplate threaded fastener

Options: Call for price and availability

- UHV compatible design
- Custom shaft lengths
- Custom flange connection

1/4 inch & 3/8 inch Shaft Models



PRODUCT NUMBER	REFERENCE NUMBER	SHAFT DIAMETER	CONNECTION	TRANSMISSION TORQUE
2203009	FTRF-025-BP	1/4	3/4 in. or 1 in. Baseplate Ports	50 in-lbs.
2203010	FTRF-038-BP	3/8	3/4 in. or 1 in. Baseplate Ports	160 in-lbs

Ferro-Sealed Rotary Motion - ISO-QF Connection

Materials:

- Body and shaft – 17-4 PH stainless steel
- Seal – Buna-N

Specifications:

- Vacuum rated: $1x10^{-8}$ Torr
- Max. operating pressure differential: 2.5 atm.
- Helium leak tested to $5x10^{-9}$ std. cc/sec.
- Top speed: 5000 rpm
- Max. temperature: 80˚C
- Drag torque:
  - @ Break-away = 11 oz-in
  - @ 100 rpm = 6 oz-in
  - @ 1000 rpm = 9 oz-in
- Bearing type: R6
  - Max. static load = 305 lbs.
  - Max. dynamic load = 575 lbs.
  - Lubricant = Fomblin®/Krytox® Blend

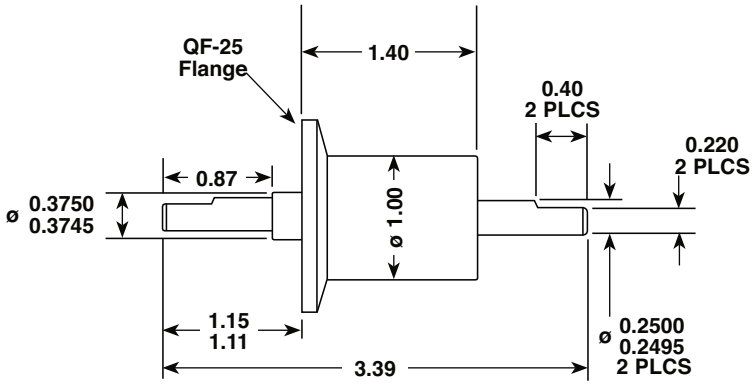
Product Notes:

- Hermetically sealed with ferrofluid technology
- Very low stray magnetic fields
- No magnets in the vacuum environment
- High torque capacity
- Connection to system: Buna o-ring seal with baseplate threaded fastener

Options: Call for price and availability

- UHV compatible design
- Custom shaft lengths
- Custom flange connection

1/4 in. & 3/8 in. Shaft Model



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PRODUCT NUMBER	REFERENCE NUMBER	SHAFT DIAMETER	CONNECTION	TRANSMISSION TORQUE
2203003	FTRF-025-QF25	1/4	ISO-QF25 F	50 in-lbs.
2203004	FTRF-038-QF25	3/8	ISO-QF25 F	160 in-lbs

Ferro-Sealed Rotary Motion - CF Connection

Materials:

- Body and shaft – 17-4 PH stainless steel
- Seal – Buna-N

Specifications:

- Vacuum rated: $1x10^{-8}$ Torr
- Max. operating pressure differential: 2.5 atm.
- Helium leak tested to $5x10^{-9}$ std. cc/sec.
- Top speed: 5000 rpm
- Max. temperature: 80˚C
- Drag torque:
  - @ Break-away = 11 oz-in
  - @ 100 rpm = 6 oz-in
  - @ 1000 rpm = 9 oz-in
- Bearing type: R6
  - Max. static load = 305 lbs.
  - Max. dynamic load = 575 lbs.
  - Lubricant = Fomblin®/Krytox® Blend

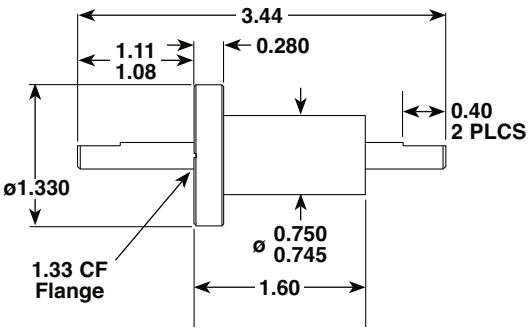
Product Notes:

- Hermetically sealed with ferrofluid technology
- Very low stray magnetic fields
- No magnets in the vacuum environment
- High torque capacity
- Connection to system: Buna o-ring seal with baseplate threaded fastener

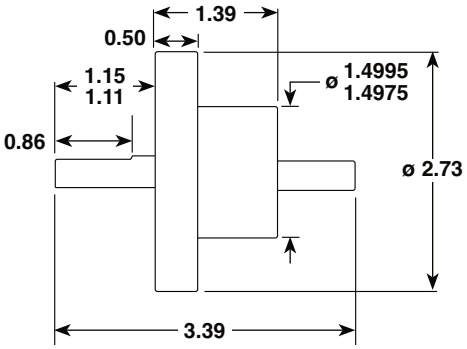
Options: Call for price and availability

- UHV compatible design
- Custom shaft lengths
- Custom flange connection

Drawing A - CF133 Flange



Drawing B - CF275 Flange



PRODUCT NUMBER	REFERENCE NUMBER	SHAFT DIAMETER	CONNECTION	TRANSMISSION TORQUE
2203005	FTRF-025-CF133	1/4	CF133 Flange	50 in-lbs.
2203006	FTRF-025-CF275	1/4	CF275 Flange	50 in-lbs.
2203007	FTRF-038-CF275	3/8	CF275 Flange	160in-lbs.

Fluid and gas feedthroughs transmit fluids or gasses into high and ultrahigh vacuum chambers. These feedthroughs are available with multiple tubing and flange connection options.

Fluid Feedthroughs

Materials:

- Flanges and tubing: 304 stainless steel
- Fittings: 316 stainless steel

Vacuum Rating:

- CF flanged feedthroughs: UHV 1x10^{-13} Torr
- ISO-QF and baseplate feedthroughs: HV 1x10^{-8} Torr

Max. Temperature:

- CF flanged feedthrough: 450˚C
- ISO-QF and baseplate feedthroughs: 150˚C (200˚C intermittent)
- **Custom designs** are available. Call for price and delivery

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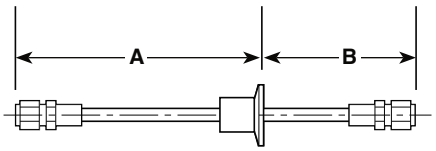

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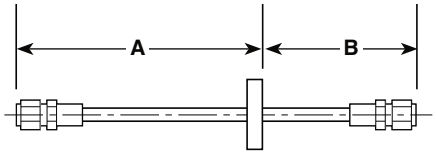

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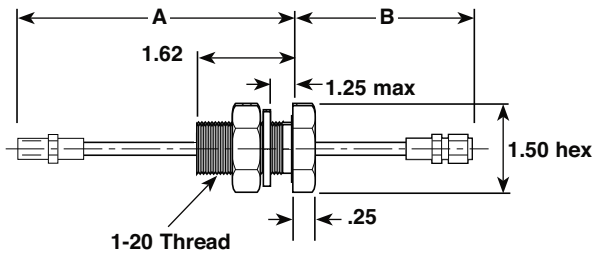

Non-cryogenic Fluid and Gas Single Feedthrough

PRODUCT NUMBER	REFERENCE NUMBER	FLANGE	CONNECTION	DRAWING	A	B
2001000	FTST-QF16-025-TE	QF16	1/4 in. Tube Ends	A	4.0	2.0
2001015	FTST-QF16-25SWG	QF16	1/4 in. Swagelok®	A	5.0	3.0
2001030	FTST-QF16-25VCR	QF16	1/4 in. Male VCR®	A	5.0	3.0
2001005	FTST-QF25-025-TE	QF25	1/4 in. Tube Ends	A	4.0	2.0
2001016	FTST-QF25-25SWG	QF25	1/4 in. Swagelok®	A	5.0	3.0
2001031	FTST-QF25-25VCR	QF25	1/4 in. Male VCR®	A	5.0	3.0
2001006	FTST-QF40-025-TE	QF40	1/4 in. Tube Ends	A	4.0	2.0
2001017	FTST-QF40-25SWG	QF40	1/4 in. Swagelok®	A	5.0	3.0
2001032	FTST-QF40-25VCR	QF40	1/4 in. Male VCR®	A	5.0	3.0
2001001	FTST-QF50-025-TE	QF50	1/4 in. Tube Ends	A	4.0	2.0
2001019	FTST-QF50-25SWG	QF50	1/4 in. Swagelok®	A	5.0	3.0
2001034	FTST-QF50-25VCR	QF50	1/4 in. Male VCR®	A	5.0	3.0
2001003	FTST-BP-025-TE	1 in. Baseplate	1/4 in. Tube Ends	C	4.5	2.5
2001021	FTST-BP-25SWG	1 in. Baseplate	1/4 in. Swagelok®	C	5.5	3.5
2001036	FTST-BP-25VCR	1 in. Baseplate	1/4 in. Male VCR®	C	5.5	3.5
2001004	FTST-CF133-025-TE	CF133	1/4 in. Tube Ends	B	4.0	2.0
2001022	FTST-CF133-25SWG	CF133	1/4 in. Swagelok®	B	5.0	3.0
2001037	FTST-CF133-25VCR	CF133	1/4 in. Male VCR®	B	5.0	3.0
2001008	FTST-CF275-025-TE	CF275	1/4 in. Tube Ends	B	4.0	2.0
2001023	FTST-CF275-25SWG	CF275	1/4 in. Swagelok®	B	5.0	3.0
2001038	FTST-CF275-25VCR	CF275	1/4 in. Male VCR®	B	5.0	3.0

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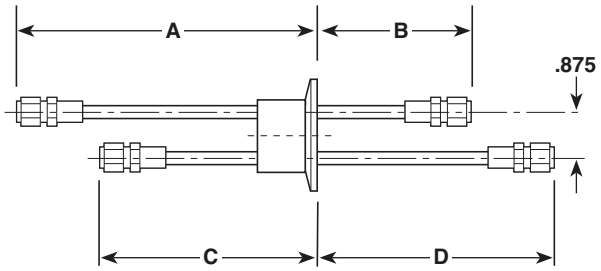

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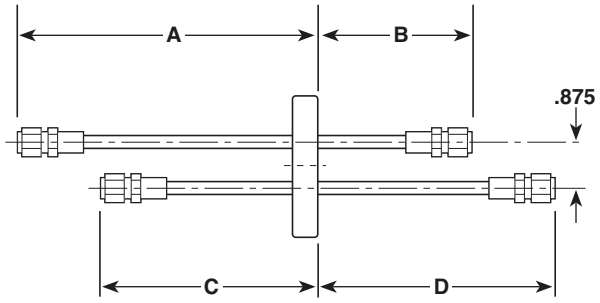

Non-cryogenic Fluid and Gas Double Feedthrough

PRODUCT NUMBER	REFERENCE NUMBER	FLANGE	CONNECTION	DRAWING	A	B	C	D
2001011	FTDT-QF40-025-TE	QF40	1/4 in. Tube Ends	D	4.0	2.0	2.0	4.0
2001018	FTDT-QF40-25SWG	QF40	1/4 in. Swagelok®	D	5.0	3.0	3.0	5.0
2001033	FTDT-QF40-25VCR	QF40	1/4 in. Male VCR®	D	5.0	3.0	3.0	5.0
2001002	FTDT-QF50-025-TE	QF50	1/4 in. Tube Ends	D	4.0	2.0	2.0	4.0
2001020	FTDT-QF50-25SWG	QF50	1/4 in. Swagelok®	D	5.0	3.0	3.0	5.0
2001035	FTDT-QF50-25VCR	QF50	1/4 in. Male VCR®	D	5.0	3.0	3.0	5.0
2001009	FTDT-CF275-025-TE	CF275	1/4 in. Tube Ends	E	4.0	2.0	2.0	4.0
2001024	FTDT-CF275-25SWG	CF275	1/4 in. Swagelok®	E	5.0	3.0	3.0	5.0
2001039	FTDT-CF275-25VCR	CF275	1/4 in. Male VCR®	E	5.0	3.0	3.0	5.0

Cryogenic feedthroughs transmit cryogenic cooling agents into high and ultrahigh vacuum chambers. These feedthroughs are available with multiple tubing and flange connection options.

Cryogenic Fluid Feedthroughs

Materials:

- Flanges and tubing: 304 stainless steel
- Fittings: 316 stainless steel

Vacuum Rating:

- CF flanged feedthroughs: UHV $1x10^{-13}$ Torr
- ISO-QF and baseplate feedthroughs: HV $1x10^{-8}$ Torr

Max. Temperature:

- CF flanged feedthrough: 450˚C
- ISO-QF and baseplate feedthroughs: 150˚C (200˚C intermittent)
- **Custom designs** are available. Call for price and delivery

**** red details illustrate shield***

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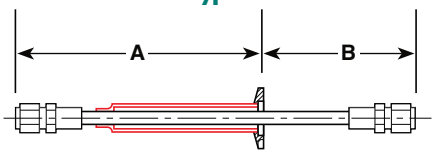

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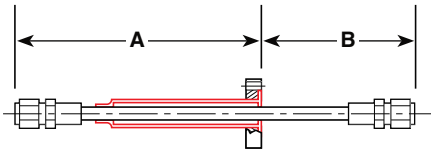

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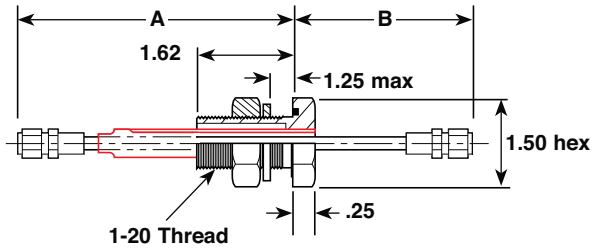

Cryogenic Fluid Single Feedthrough

PRODUCT NUMBER	REFERENCE NUMBER	FLANGE	CONNECTION	DRAWING	A	B
2001040	FTCS-QF16-025-TE	QF16	1/4 in. Tube Ends	A	5.0	2.0
2001050	FTCS-QF16-25SWG	QF16	1/4 in. Swagelok®	A	6.0	3.0
2001065	FTCS-QF16-25VCR	QF16	1/4 in. Male VCR®	A	6.0	3.0
2001041	FTCS-QF25-025-TE	QF25	1/4 in. Tube Ends	A	5.0	2.0
2001051	FTCS-QF25-25SWG	QF25	1/4 in. Swagelok®	A	6.0	3.0
2001066	FTCS-QF25-25VCR	QF25	1/4 in. Male VCR®	A	6.0	3.0
2001042	FTCS-QF40-025-TE	QF40	1/4 in. Tube Ends	A	5.0	2.0
2001052	FTCS-QF40-25SWG	QF40	1/4 in. Swagelok®	A	6.0	3.0
2001067	FTCS-QF40-25VCR	QF40	1/4 in. Male VCR®	A	6.0	3.0
2001044	FTCS-QF50-025-TE	QF50	1/4 in. Tube Ends	A	5.0	2.0
2001054	FTCS-QF50-25SWG	QF50	1/4 in. Swagelok®	A	6.0	3.0
2001069	FTCS-QF50-25VCR	QF50	1/4 in. Male VCR®	A	6.0	3.0
2001046	FTCS-BP-025-TE	1 in. Baseplate	1/4 in. Tube Ends	C	4.5	2.5
2001056	FTCS-BP-25SWG	1 in. Baseplate	1/4 in. Swagelok®	C	5.5	3.5
2001071	FTCS-BP-25VCR	1 in. Baseplate	1/4 in. Male VCR®	C	5.5	3.5
2001047	FTCS-CF133-025-TE	CF133	1/4 in. Tube Ends	B	5.0	2.0
2001057	FTCS-CF133-25SWG	CF133	1/4 in. Swagelok®	B	6.0	3.0
2001072	FTCS-CF133-25VCR	CF133	1/4 in. Male VCR®	B	6.0	3.0
2001048	FTCS-CF275-025-TE	CF275	1/4 in. Tube Ends	B	5.0	2.0
2001058	FTCS-CF275-25SWG	CF275	1/4 in. Swagelok®	B	6.0	3.0
2001073	FTCS-CF275-25VCR	CF275	1/4 in. Male VCR®	B	6.0	3.0

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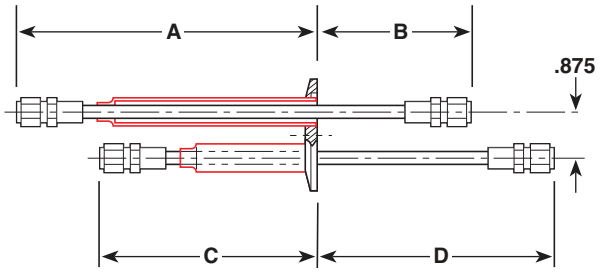

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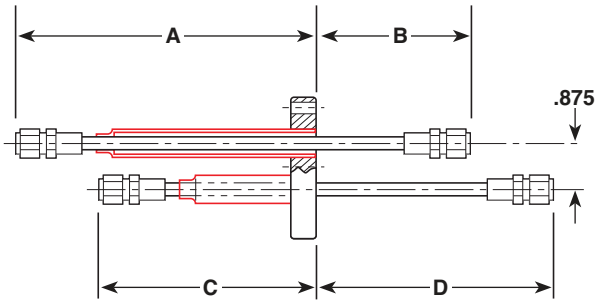


Cryogenic Fluid Double Feedthrough

PRODUCT NUMBER	REFERENCE NUMBER	FLANGE	CONNECTION	DRAWING	A	B	C	D
2001043	FTCD-QF40-025-TE	QF40	1/4 in. Tube Ends	D	5.0	2.0	3.0	4.0
2001053	FTCD-QF40-25SWG	QF40	1/4 in. Swagelok®	D	6.0	3.0	4.0	5.0
2001068	FTCD-QF40-25VCR	QF40	1/4 in. Male VCR®	D	6.0	3.0	4.0	5.0
2001045	FTCD-QF50-025-TE	QF50	1/4 in. Tube Ends	D	5.0	2.0	3.0	4.0
2001055	FTCD-QF50-25SWG	QF50	1/4 in. Swagelok®	D	6.0	3.0	4.0	5.0
2001070	FTCD-QF50-25VCR	QF50	1/4 in. Male VCR®	D	6.0	3.0	4.0	5.0
2001049	FTCD-CF275-025-TE	CF275	1/4 in. Tube Ends	E	5.0	2.0	3.0	4.0
2001059	FTCD-CF275-25SWG	CF275	1/4 in. Swagelok®	E	6.0	3.0	4.0	5.0
2001074	FTCD-CF275-25VCR	CF275	1/4 in. Male VCR®	E	6.0	3.0	4.0	5.0

Baseplate to CF flange Transition Feedthrough

Materials

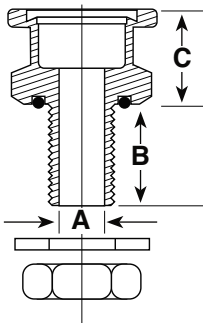
- 304 stainless steel

Product Notes

- Adapts from baseplate fitting to CF flange
- Baseplate fitting designed to fit 1 inch diameter ports on baseplates up to 1 inch thick

Options: Call for price and delivery

- Additional sizes



PRODUCT NUMBER	REFERENCE NUMBER	A	B	C
2000065	FTBH-CF212-100	0.75	1.620	1.28
2000066	FTBH-CF275-100	0.75	1.620	1.28

Baseplate to ISO-QF flange Transition Feedthrough

Materials

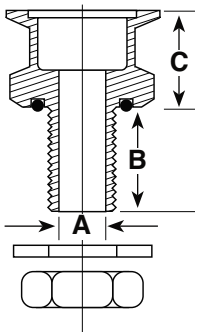
- 304 stainless steel

Product Notes

- Adapts from Baseplate fitting to ISO-QF flange
- Baseplate fitting designed to fit 1 inch diameter ports on baseplates up to 1 inch thick

Options: Call for price and delivery

- Additional sizes



PRODUCT NUMBER	REFERENCE NUMBER	A	B	C
2000060	FTBH-QF25-100	0.75	1.620	1.28
2000061	FTBH-QF40-100	0.75	1.620	1.28

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Baseplate to Female NPT Transition Feedthrough

Materials

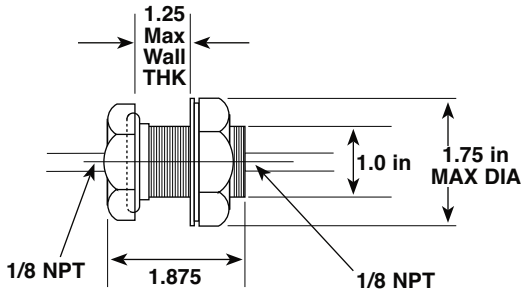
- 304 stainless steel
- Aluminium

Product Notes

- Adapts from baseplate fitting to NPT fitting
- Baseplate fitting designed to fit 1 inch diameter ports on baseplates up to 1 inch thick

Options: Call for price and delivery

- Additional sizes



Stainless Steel

PART NUMBER	REFERENCE NUMBER	DESCRIPTION
2000005	FTBH-12NPT-S	Baseplate Fitting to 1/8 in. Female NPT

Aluminum

PART NUMBER	REFERENCE NUMBER	DESCRIPTION
2000006	FTBH-12NPT-A	Baseplate Fitting to 1/8 in. Female NPT

Baseplate to Quick Disconnect Transition Feedthrough

Materials

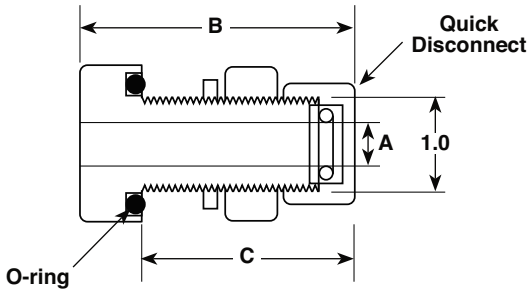
- 304 stainless steel
- Aluminium
- Brass – this option is only available on the quick disconnect fitting

Product Notes

- Adapts from baseplate fitting to quick disconnect fitting
- Baseplate fitting designed to fit 1 inch diameter ports on baseplates up to 1 1/4 inch thick
- Convenient for mounting gauges, instruments or adding tube ports without welds
- Detailed information about quick disconnect fittings is available in section 8

Options: Call for price and delivery

- Additional sizes



Stainless Steel

PRODUCT NUMBER	REFERENCE NUMBER	A	B	C
2000050	FTQC-12-S	1/8	2.62	2.37
2000051	FTQC-25-S	1/4	2.62	2.37
2000052	FTQC-38-S	3/8	2.62	2.37
2000053	FTQC-50-S	1/2	2.62	2.37
2000054	FTQC-62-S	5/8	2.62	2.37
2000055	FTQC-75-S	3/4	2.62	2.37
2000057	FTQC-100-S	1	4.25	2.37

Aluminum

PRODUCT NUMBER	REFERENCE NUMBER	A	B	C
2000035	FTQC-12-A	1/8	2.62	2.37
2000036	FTQC-25-A	1/4	2.62	2.37
2000037	FTQC-38-A	3/8	2.62	2.37
2000038	FTQC-50-A	1/2	2.62	2.37
2000039	FTQC-62-A	5/8	2.62	2.37
2000040	FTQC-75-A	3/4	2.62	2.37
2000045	FTQC-100-A	1	4.25	2.37

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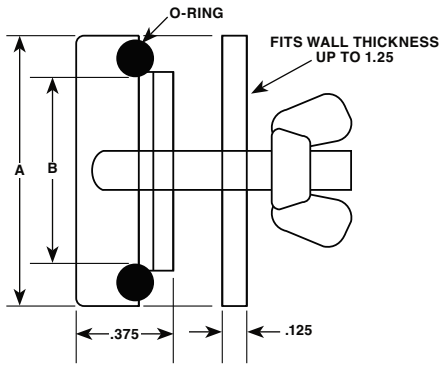
Baseplate Fitting Blank Plug

Materials

- 304 stainless steel, aluminum or brass

Product Notes

- Close unused baseplate ports
- Baseplate plugs designed to fit through 1 inch diameter ports on baseplates up to 1 inch thick



Stainless Steel

PART NUMBER	REFERENCE NUMBER	A	B	O-RING	DESCRIPTION
2000025	FTB-075-S	1.50	0.74	2-216	3/4 in. Hole
2000026	FTB-100-S	1.50	0.99	2-216	1 in. Hole
2000027	FTB-125-S	1.75	1.24	2-220	1 1/4 in. Hole
2000028	FTB-150-S	2.00	1.49	2-223	1 1/2 in. Hole
2000029	FTB-175-S	2.25	1.74	2-225	1 3/4 in. Hole

Aluminum

PART NUMBER	REFERENCE NUMBER	A	B	O-RING	DESCRIPTION
2000010	FTB-100-A	1.50	0.99	2-216	1 in. Hole

Brass

PART NUMBER	REFERENCE NUMBER	A	B	O-RING	DESCRIPTION
2000015	FTB-075-B	1.50	0.74	2-216	3/4 in. Hole
2000016	FTB-100-B	1.50	0.99	2-216	1 in. Hole
2000017	FTB-125-B	1.75	1.24	2-220	1 1/4 in. Hole
2000018	FTB-150-B	2.00	1.49	2-223	1 1/2 in. Hole
2000019	FTB-175-B	2.25	1.74	2-225	1 3/4 in. Hole

Notes

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