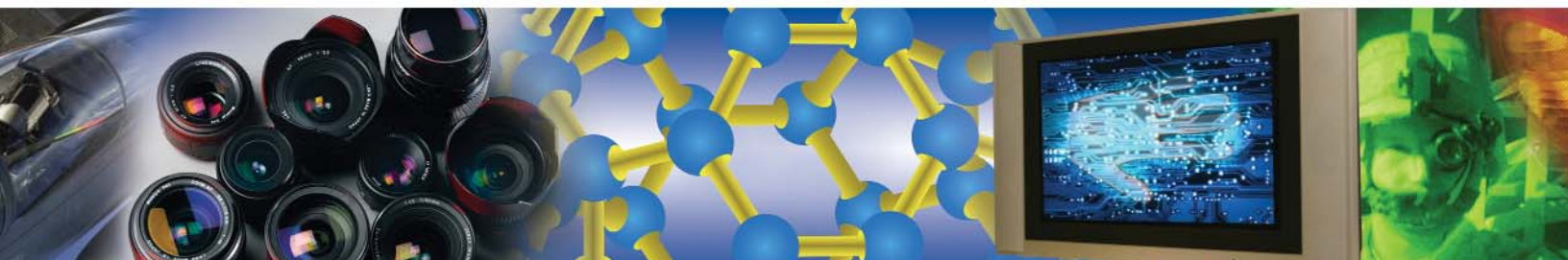
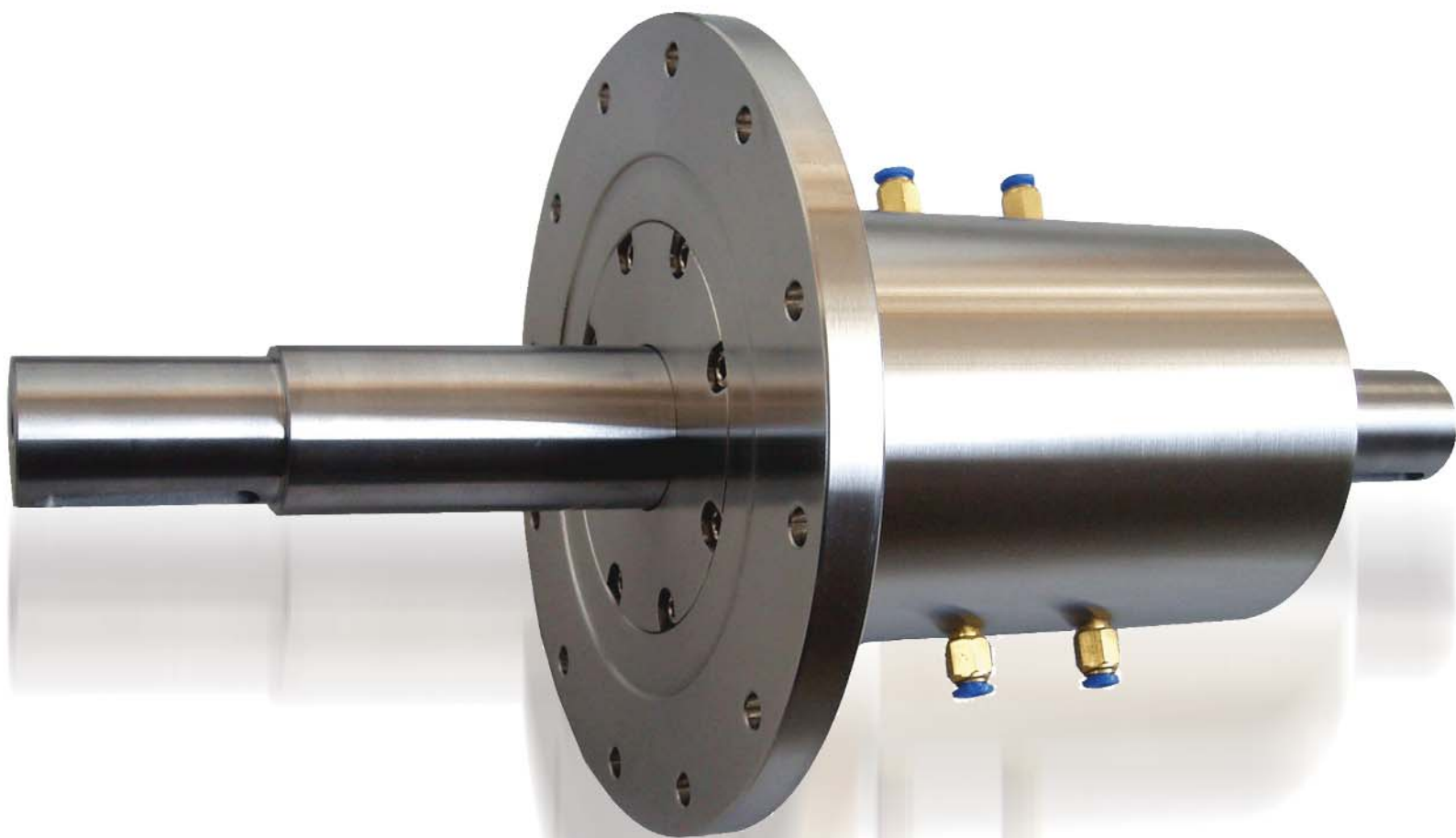


Kurt J. Lesker
Company

New!

Ferrofluid **Rotary Drives...**





KJLC Solid Shaft Rotary Feedthroughs (Thread Mount)

These ferrofluid rotary feedthroughs are sealed by a fluorocarbon o-ring. The operator mounts these drives to the vacuum chamber by screwing them into a corresponding threaded hole. On some models the drive's threaded end is inserted through a suitable diameter hole in the chamber wall and retained with a nut. Some models are threaded only part way. They will accommodate various wall thicknesses when used with a sleeve or spacer over the unthreaded portion so that the nut compresses the o-ring.

In vacuum practice, the o-ring is compressed against the vacuum chamber's inner surface to limit virtual leaks. As shown in the dimensional drawings, most ferrofluid feedthroughs are designed to be installed this way. A few, however, are intended to have the o-ring sealing against the air surface. To reduce the virtual leaks associated

with the thread, the feedthrough has a flat machined along the length of its threaded portion.

Please refer to the technical notes about loading, temperature, and other relevant information before specifying a feedthrough.

Specifications (Imperial Inches)

Part No.	Mounting	Water Cooling	Shaft O.D.	Face Seal O-Ring
KLFDTM018516	5/16-24 UNF-2A	No	3/16	O-V012
KLFDTM025716	7/16-20 UNF-2A	No	1/4	O-V015
KLFDTM050114	1-14 UNS-2A	No	1/2	O-V128
KLFDTM050114W	1-14 UNS-2A	Yes	1/2	O-V128
KLFDTM075114	1-14 UNS-2A	No	3/4	O-V128
KLFDTM075114W	1-14 UNS-2A	Yes	3/4	O-V128

Dimensions (Imperial inches)

Part No.	A	B	C	D	E	F
KLFDTM018516	0.1875	0.63	2.562	1.58	0.482	0.28
KLFDTM025716	0.25	0.75	3.437	1.937	0.75	0.375
KLFDTM050114	0.50	2.87	8.812	5.072	1.25	1.51
KLFDTM050114W	0.50	2.87	8.812	5.072	1.25	1.51
KLFDTM075114	0.75	2.87	8.812	5.072	1.25	1.51
KLFDTM075114W	0.75	2.87	8.812	5.072	1.25	1.51

Specifications (Metric Millimeters)

Part No.	Mounting	Water Cooling	Shaft O.D.	Face Seal O-Ring
KLFDMTM04M12	M12 x 1.5	No	4	O-V015
KLFDMTM05M12	M12 x 1.5	No	5	O-V015
KLFDMTM06M12	M12 x 1.5	No	6	O-V015
KLFDMTM12M25	M25 X 1.5	No	12	O-V220
KLFDMTM12M25W	M25 X 1.5	Yes	12	O-V220
KLFDMTM20M30	M30 X 1.5	No	30	O-V226
KLFDMTM20M30W	M30 X 1.5	Yes	30	O-V226

Dimensions (Metric Millimeters)

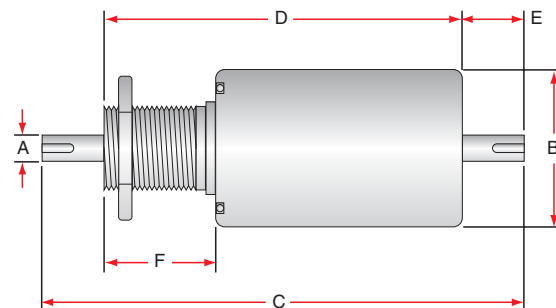
Part No.	A	B	C	D	E	F	Keyway
KLFDMTM04M12	4	21	76.5	46.5	15	10	N/A
KLFDMTM05M12	5	21	76.5	46.5	15	10	N/A
KLFDMTM06M12	6	21	76.5	46.5	15	10	N/A
KLFDMTM12M25	12	48	179	109	30	35	3.970 W x 2.50 D x 20.0 L
KLFDMTM12M25W	12	48	179	109	30	35	3.970 W x 2.50 D x 20.0 L
KLFDMTM20M30	20	63	211	121	35	39	5.970 W x 3.50 D x 25.0 L
KLFDMTM20M30W	20	63	211	121	35	39	5.970 W x 3.50 D x 25.0 L

Features

- Special magnetic fluid in place of an o-ring seal around dynamic parts
- Unlike typical o-rings, the ferrofluid remains intact for years of operation despite the shaft's motion

Applications Served

- Rotary stages
- Barrels
- Platens
- Planetaries
- Web coater rollers used in thin film deposition and etching processes





KJLC Hollow Shaft Rotary Feedthroughs (Cartridge Mount)

Cartridge mounted ferrofluid rotary feedthroughs can replace existing vacuum shafts or spindles which use dynamic o-ring seals (defined as o-ring seals which press against a moving surface). Dynamic o-ring seals frequently cause leaks in processes using vacuum in a manufacturing environment. To remedy this, replace the shaft having the dynamic seal and select a cartridge feedthrough with an OD that slips inside the seal "well" in the process vacuum wall. The static o-ring seals on the cartridge's grooved outer surface do not move, making them far less likely to leak than dynamic o-ring seals.

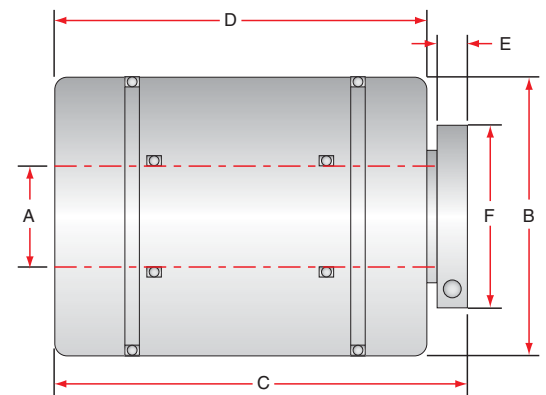


Dimensions (Imperial Inches)

Part No.	A	B	C	D	E	F
KLFDHC050	0.5025	1.9975	3.215	2.75	0.375	1.25
KLFDHC100	1.0025	2.6225	3.339	2.75	0.50	2.00
KLFDHC150	1.5025	3.2475	3.714	3.00	0.625	3.00
KLFDHC200	2.0025	3.7475	3.966	3.25	0.625	3.50
KLFDHC300	3.0025	5.2475	4.464	3.625	0.75	4.50

Specifications (Imperial Inches)

Part No.	Mounting	Shaft O.D.	Outer O-Ring	Inner O-Ring
KLFDHC050	Cartridge	Accepts 0.500 (+0 / -0.002)	O-V032	O-V014
KLFDHC100	Cartridge	Accepts 1.000 (+0 / -0.002)	O-V037	O-V022
KLFDHC150	Cartridge	Accepts 1.500 (+0 / -0.002)	O-V041	O-V029
KLFDHC200	Cartridge	Accepts 2.000 (+0 / -0.002)	O-V153	O-V033
KLFDHC300	Cartridge	Accepts 3.000 (+0 / -0.002)	O-V159	O-V151



Dimensions (Metric Millimeters)

Part No.	A	B	C	D	E	F
KLFDMHC10	10.02	47.99	78	64	10	34
KLFDMHC20	20.03	57.99	82.5	68.5	10	44
KLFDMHC25	25.03	62.99	88	74	10	49
KLFDMHC30	30.03	72.99	93	79	10	54
KLFDMHC40	40.03	87.98	96	80	12	69
KLFDMHC50	50.03	97.98	98	82	12	79
KLFDMHC75	75.03	136.98	115	96	15	109

Specifications (Metric Millimeters)

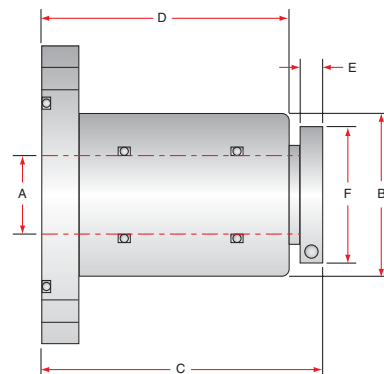
Part No.	Mounting	Shaft O.D.	Face Seal O-Ring	Outer O-Ring	Inner O-Ring
KLFDMHC10	Cartridge	Accepts 10 (-.01 / -0.03)	O-V128	O-V131	O-V012
KLFDMHC20	Cartridge	Accepts 20 (-.01 / -0.03)	O-V135	O-V137	O-V019
KLFDMHC25	Cartridge	Accepts 25 (-.01 / -0.03)	O-V137	O-V140	O-V022
KLFDMHC30	Cartridge	Accepts 30 (-.01 / -0.03)	O-V142	O-V147	O-V025
KLFDMHC40	Cartridge	Accepts 40 (-.01 / -0.03)	O-V151	O-V152	O-V129
KLFDMHC50	Cartridge	Accepts 50 (-.01 / -0.03)	O-V152	O-V153	O-V135
KLFDMHC75	Cartridge	Accepts 75 (-.01 / -0.03)	O-V159	O-V160	O-V149



KJLC Hollow Shaft Rotary Feedthroughs (O-Ring Flanged)

These ferrofluid rotary feedthroughs are particularly useful for process development applications involving modified shaft details requiring supply of cooling, power, or instrumentation leads to the rotating part. Most models in this group of feedthroughs have o-ring grooved ANSI/ASA compatible flanges (alternate flange designs are listed with dimensions below).

Please note, a Deublin water union allows for external water connections. The water feed tubes rotate along with the feedthrough.



Dimensions (Imperial Inches)

Part No.	A	B	C	D	E	F	Bolt Holes
KLFDHOF05060	0.5025	2.75	3.215	2.75	0.38	1.25	(4) x 0.75 OD on 4.75 BC
KLFDHOF05060W	0.5025	2.75	3.215	2.75	0.38	1.25	(4) x 0.75 OD on 4.75 BC
KLFDHOF10070	1.0025	3.00	3.34	2.75	0.50	2.00	(4) x 0.75 OD on 5.5 BC
KLFDHOF10070W	1.0025	3.00	3.34	2.75	0.50	2.00	(4) x 0.75 OD on 5.5 BC
KLFDHOF15070	1.5025	3.75	3.714	3.00	0.625	3.00	(4) x 0.75 OD on 5.5 BC
KLFDHOF15070W	1.5025	3.75	3.714	3.00	0.625	3.00	(4) x 0.75 OD on 5.5 BC
KLFDHOF20070	2.0025	4.18	3.966	3.25	0.625	3.50	(4) x 0.75 OD on 5.5 BC
KLFDHOF20070W	2.0025	4.18	3.966	3.25	0.625	3.50	(4) x 0.75 OD on 5.5 BC
KLFDHOF30010	3.0025	5.87	4.717	3.875	0.75	4.50	(8) x 0.87 OD on 8.5 BC
KLFDHOF30010W	3.0025	5.87	4.717	3.875	0.75	4.50	(8) x 0.87 OD on 8.5 BC

Specifications (Imperial Inches)

Part No.	Mounting	Water Cooling	Shaft O.D.	Face Seal O-Ring	Inner O-Ring
KLFDHOF05060	6.00 Flange	No	Accepts 0.500 (+0 / -0.002)	O-V238	O-V014
KLFDHOF05060W	6.00 Flange	Yes	Accepts 0.500 (+0 / -0.002)	O-V238	O-V014
KLFDHOF10070	7.00 Flange	No	Accepts 1.000 (+0 / -0.002)	O-V244	O-V022
KLFDHOF10070W	7.00 Flange	Yes	Accepts 1.000 (+0 / -0.002)	O-V244	O-V022
KLFDHOF15070	7.00 Flange	No	Accepts 1.500 (+0 / -0.002)	O-V244	O-V029
KLFDHOF15070W	7.00 Flange	Yes	Accepts 1.500 (+0 / -0.002)	O-V244	O-V029
KLFDHOF20070	7.00 Flange	No	Accepts 2.000 (+0 / -0.002)	O-V244	O-V033
KLFDHOF20070W	7.00 Flange	Yes	Accepts 2.000 (+0 / -0.002)	O-V244	O-V033
KLFDHOF30010	10.00 Flange	No	Accepts 3.000 (+0 / -0.002)	O-V262	O-V151
KLFDHOF30010W	10.00 Flange	Yes	Accepts 3.000 (+0 / -0.002)	O-V262	O-V151

Dimensions (Metric Millimeters)

Part No.	A	B	C	D	E	F	Bolt Holes
KLFDMHOF1090	10.02	51	78	64	10	34	(4) x 10 OD on 70 BC
KLFDMHOF1090W	10.02	51	78	64	10	34	(4) x 10 OD on 70 BC
KLFDMHOF20105	20.03	63	82.5	68.5	10	44	(4) x 10 OD on 85 BC
KLFDMHOF20105W	20.03	63	82.5	68.5	10	44	(4) x 10 OD on 85 BC
KLFDMHOF25120	25.03	71	88	74	10	49	(4) x 10 OD on 100 BC
KLFDMHOF25120W	25.03	71	88	74	10	49	(4) x 10 OD on 100 BC
KLFDMHOF30120	30.03	78	93	79	10	54	(4) x 10 OD on 100 BC
KLFDMHOF30120W	30.03	78	93	79	10	54	(4) x 10 OD on 100 BC
KLFDMHOF40145	40.04	90	96	80	12	71	(4) x 12 OD on 120 BC
KLFDMHOF40145W	40.04	90	96	80	12	71	(4) x 12 OD on 120 BC
KLFDMHOF50160	50.04	103	98	82	12	79	(4) x 12 OD on 135 BC
KLFDMHOF50160W	50.04	103	98	82	12	79	(4) x 12 OD on 135 BC
KLFDMHOF75210	75.04	143	115	96	15	109	(8) x 12 OD on 185 BC
KLFDMHOF75210W	75.04	143	115	96	15	109	(8) x 12 OD on 185 BC



Specifications (Metric Millimeters)

Part No.	Mounting	Water Cooling	Shaft O.D.	Face Seal O-Ring	Inner O-Ring
KLFDMHOF1090	90 Flange	No	Accepts 10 (-0.01 / -0.03)	O-V223	O-V012
KLFDMHOF1090W	90 Flange	Yes	Accepts 10 (-0.01 / -0.03)	O-V223	O-V012
KLFDMHOF20105	105 Flange	No	Accepts 20 (-0.01 / -0.03)	O-V226	O-V019
KLFDMHOF20105W	105 Flange	Yes	Accepts 20 (-0.01 / -0.03)	O-V226	O-V019
KLFDMHOF25120	120 Flange	No	Accepts 25 (-0.01 / -0.03)	O-V229	O-V022
KLFDMHOF25120W	120 Flange	Yes	Accepts 25 (-0.01 / -0.03)	O-V229	O-V022
KLFDMHOF30120	120 Flange	No	Accepts 30 (-0.01 / -0.03)	O-V232	O-V025
KLFDMHOF30120W	120 Flange	Yes	Accepts 30 (-0.01 / -0.03)	O-V232	O-V025
KLFDMHOF40145	145 Flange	No	Accepts 40 (-0.01 / -0.03)	O-V235	O-V129
KLFDMHOF40145W	145 Flange	Yes	Accepts 40 (-0.01 / -0.03)	O-V235	O-V129
KLFDMHOF50160	160 Flange	No	Accepts 50 (-0.01 / -0.03)	O-V238	O-V135
KLFDMHOF50160W	160 Flange	Yes	Accepts 50 (-0.01 / -0.03)	O-V238	O-V135
KLFDMHOF75210	210 Flange	No	Accepts 75 (-0.01 / -0.04)	O-V250	O-V149
KLFDMHOF75210W	210 Flange	Yes	Accepts 75 (-0.01 / -0.04)	O-V250	O-V149

KJLC Solid Shaft Rotary Feedthroughs (Baseplate Mount)

These ferrofluid rotary feedthroughs are sealed by a fluorocarbon o-ring. The operator mounts these drives to the vacuum chamber by placing them in a suitable smooth-sided port in the chamber wall, using a capture nut to secure the unit. Some models are threaded only part way. They will accommodate various wall thicknesses when used with a sleeve or spacer over the unthreaded portion so that the nut compresses the o-ring. In vacuum practice, the o-ring is compressed against the vacuum chamber's inner surface to limit virtual leaks. As shown in the dimensional drawings, most ferrofluid feedthroughs are designed to be installed this way. A few, however, are intended to have the o-ring sealing against the air surface. To reduce the virtual leaks associated with the thread, the feedthrough has a flat machined along the length of its

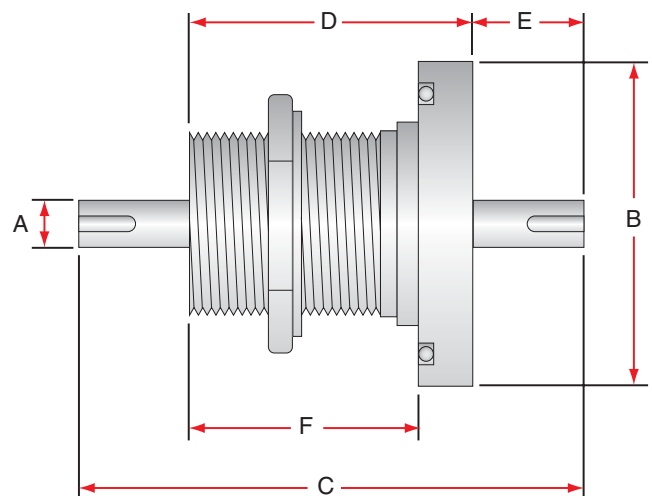


Specifications (Imperial Inches)

Part No.	Mounting	Shaft O.D.	Face Seal O-Ring
KLFDBP02575	3/4" BP	1/4"	O-V026
KLFDBP02510	1" BP	1/4"	O-V026
KLFDBP03710	1" BP	3/8"	O-V026
KLFDBP03715	1.5" BP	3/8"	O-V132
KLFDBP02510E	1" BP	1/4"	O-V026
KLFDBP02515	1.5" BP	1/4"	O-V132

Dimensions (Imperial Inches)

Part No.	A	B	C	D	E	F
KLFDBP02575	0.25	1.625	3.437	1.93	0.75	1.68
KLFDBP02510	0.25	1.625	3.437	1.93	0.75	1.68
KLFDBP03710	0.375	1.625	3.39	1.65	0.87	1.3
KLFDBP03715	0.375	2.12	3.97	2.47	0.75	2.22
KLFDBP02510E	0.25	1.62	3.125	1.625	0.75	1.375
KLFDBP02515	0.25	2.25	3.85	2.35	0.75	2.1



Specifications (Metric Millimeters)

Part No.	Mounting	Shaft O.D.	Face Seal O-Ring
KLFDMBP0632	32 BP	6	P35
KLFDMBP1038	38 BP	10	P41

Dimensions (Metric Millimeters)

Part No.	A	B	C	D	E	F
KLFDMBP0632	6	55	97.5	57.5	20	47.5
KLFDMBP1038	10	60	119.5	69.5	25	59.5



KJLC Solid Shaft Rotary Feedthroughs (CF Flanged)

Designed to provide rotary motion under high vacuum, these ferrofluid feedthroughs have ConFlat-compatible (CF) mounting flanges. Normal helium leak detectors capable of detecting 1×10^{-11} std cc/sec of Helium flow detect no leakage for CF mounts under static and dynamic testing. CF flanged rotary motion feedthroughs routinely operate in the 10^{-6} torr range and, when properly prepared & installed, may be used to mid 10^{-10} torr.

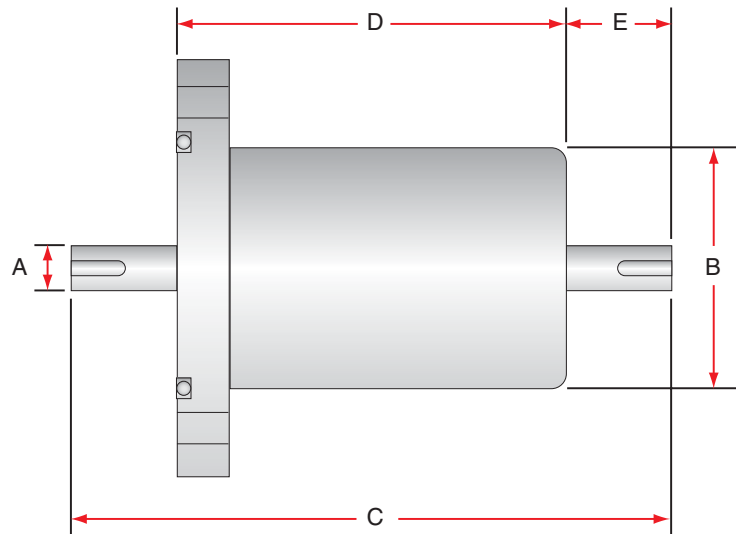


Specifications (Imperial Inches)

Part No.	Mounting	Shaft O.D.	Shaft O.D.
KLFDCF025133	1.33 CF	No	1/4
KLFDCF025275	2.75 CF	No	1/4
KLFDCF025275W	2.75 CF	Yes	1/4
KLFDCF037275	2.75 CF	No	3/8
KLFDCF037275W	2.75 CF	Yes	3/8
KLFDCF050275	2.75 CF	No	1/2

Dimensions (Imperial Inches)

Part No.	A	B	C	D	E
KLFDCF025133	0.25	0.75	3.25	1.75	0.75
KLFDCF025275	0.25	1.5	4.06	2.56	0.75
KLFDCF025275W	0.25	1.5	4.06	2.56	0.75
KLFDCF037275	0.375	1.5	4.06	2.56	0.75
KLFDCF037275W	0.375	1.5	4.56	3.06	0.75
KLFDCF050275	0.5	2.375	8.656	4.906	1.25



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KJLC Solid Shaft Rotary Feedthroughs (O-Ring Flanged)

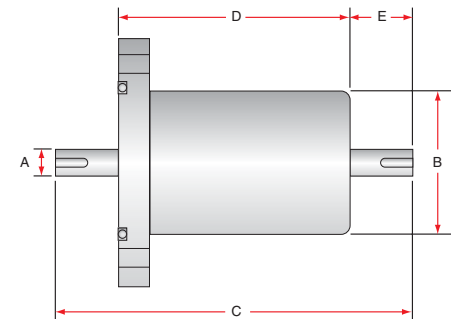
These ferrofluid rotary feedthroughs are sealed by a fluorocarbon o-ring. The operator mounts these drives to the vacuum chamber by placing them in a suitable smooth-sided port in the chamber wall and using a capture nut. Some models are threaded only part way. They will accommodate various wall thicknesses when used with a sleeve or spacer over the unthreaded portion so that the nut compresses the o-ring.

In vacuum practice, the o-ring is compressed against the vacuum chamber's inner surface to limit virtual leaks. As shown in the dimensional drawings, most ferrofluid feedthroughs are designed to be installed this way. A few, however, are intended to have the o-ring sealing against the air surface. To reduce the virtual leaks associated with the thread, the feedthrough has a flat machined along the length of its threaded portion.



Dimensions (Imperial Inches)

Part No.	Mounting	Water Cooling	Shaft O.D.	Face Seal O-Ring
KLFDOF05060	6.00 Flange	No	1/2	O-V234
KLFDOF05060W	6.00 Flange	Yes	1/2	O-V234
KLFDOF05070W	7.00 Flange	Yes	1/2	O-V351
KLFDOF07550W	5.00 Flange	Yes	3/4	O-V337
KLFDOF07560	6.00 Flange	No	3/4	O-V234
KLFDOF10060W	6.00 Flange	Yes	1	O-V340



Specifications (Imperial Inches)

Part No.	A	B	C	D	E	Bolt Holes	Keyway
KLFDOF05060	0.50	2.87	6.03	3.56	1.22	(4) x 0.75 OD on 4.75 BC	0.126 W x 0.077 D x 1.00 L
KLFDOF05060W	0.50	2.87	6.03	3.56	1.22	(4) x 0.75 OD on 4.75 BC	0.126 W x 0.077 D x 1.00 L
KLFDOF05070W	0.50	5.00	16.32	6.00	4.32	(6) x 0.406 OD on 6.00 BC	0.375 W x 0.210 D x 3.38 L
KLFDOF07550W	0.75	3.00	9.39	4.88	1.84	(6) x 0.406 OD on 6.00 BC	0.188 W x 0.114 D x 1.00 L (2.00 L Vac S)
KLFDOF07560	0.75	2.87	6.03	3.56	1.25	(4) x 0.75 OD on 4.75 BC	0.188 W x 0.114 D x 1.00 L
KLFDOF10060W	1.00	4.00	12.625	5.38	3.00	(6) x 0.406 OD on 5.00 BC	0.250 W x 0.141 D x 2.50 L (3.50 L Vac S)

Specifications (Metric Millimeters)

Part No.	Mounting	Shaft O.D.	Face Seal O-Ring
KLFDMOF0680	80 Flange	6	O-V214
KLFDMOF1080	80 Flange	10	O-V217
KLFDMOF1290	90 Flange	12	O-V220
KLFDMOF20105	105 Flange	20	O-V226
KLFDMOF30160	160 Flange	30	O-V346

Dimensions (Metric Millimeters)

Part No.	A	B	C	D	E	Bolt Holes	Keyway
KLFDMOF0680	6	38	97.5	57.5	20	(4) x 10 OD on 60 BC	N/A
KLFDMOF1080	10	44	119.5	69.5	25	(4) x 10 OD on 60 BC	2.984 W x 1.85 D x 14.0 L
KLFDMOF1290	12	48	133.5	73.5	30	(4) x 10 OD on 70 BC	3.970 W x 2.50 D x 20.0 L
KLFDMOF20105	20	63	151.5	81.5	35	(4) x 10 OD on 85 BC	5.985 W x 3.55 D x 25.0 L
KLFDMOF30160	30	105	321	141	90	(6) x 12 OD on 135 BC	9.964 W x 5.00 D x 80.0 L

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- Thermal Evaporation Sources

Process Instrumentation

- Film Thickness
- Mass Flow Controllers
- Deposition Power Supplies

System Components & Custom Engineered Solutions

- Turnkey & Partial Build Solutions
- Comprehensive Engineering Design Support
- Chambers, Frames, & Mounting Structures
- High Temperature & Bakeout Heater Assemblies
- Heater Power Supplies
- Substrate Load Locks & Transfer Vessels

Vacuum Systems

- Thin Film Deposition Systems
- Cluster Tools
- Box Coaters
- General PVD Systems
- Computerized Systems
- Combinatorial Systems
- Organic Material Deposition Systems
- R&D Sputter Tools
- Vacuum Furnaces & Ovens
- Atomic Layer Deposition
- Drum Coaters

MANUFACTURING® DIVISION

Vacuum Chambers & Components

- Standard SS Cylindrical, D-Shape, Boxes & Spheres
- Standard Pyrex Glass Bell Jars & Cylindrical Shapes
- Standard Building Blocks to Customize Your System
- Custom Chambers
- Engineering & Design Support
- Array of Finishes & Materials

Manufacturing & Fabrication

- State-of-the-Art CNC Machining
- Auto Tooling & Gantry Loading
- Robotic Fixturing & Laser Alignment
- In-process Inspections
- Coordinate Measuring Machine Inspection (CMM)
- Rigorous & Diversified Biodegradable, Vacuum Friendly Cleaning Process

Kurt J. Lesker®
Company

www.lesker.com

Kurt J. Lesker Company
United States
412.387.9200
800.245.1656
salesus@lesker.com

Kurt J. Lesker Canada Inc.
Canada
416.588.2610
800.465.2476
salescan@lesker.com

Kurt J. Lesker Company Ltd.
Europe
+44 (0) 1424 458100
saleseu@lesker.com

Kurt Lesker (Shanghai) Trading Company
科特·莱思科(上海)商贸有限公司
Asia
+86 21 50115900
saleschina@lesker.com

