

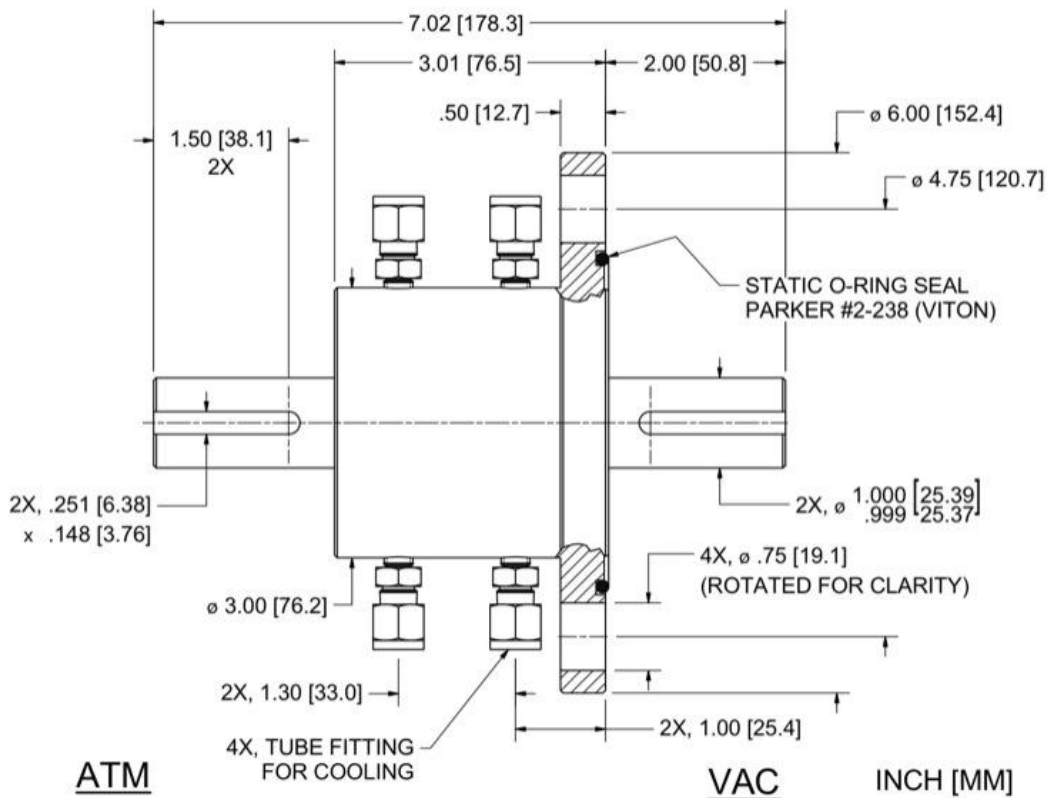
Ideal Vacuum feedthrough PN:P1013725

Ferrotec Model Feedthrough Model: SS-1000-SLFAW. Part Number: 121159

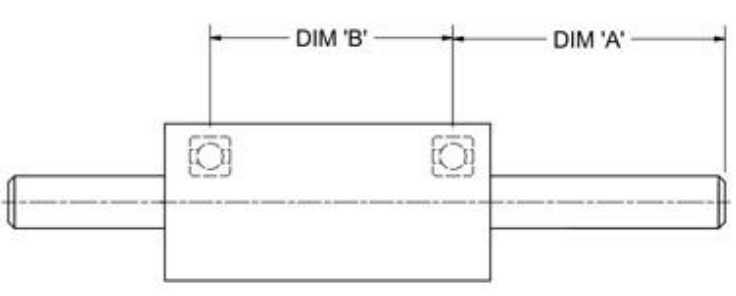
Ferrotec's Ferrofluidic seal Feedthrough Model SS-1000-SLFAW (part number 121159) is a member of Ferrotec's Flange Mount Feedthroughs. The SS-1000-SLFAW vacuum rotary feedthrough uses Ferrotec's standard hydrocarbon-based ferrofluid, specifically optimized for introducing rotary motion with a magnetic liquid hermetic seal in most Standard environments.

The SS-1000-SLFAW vacuum rotary feedthrough features a Solid shaft with Ferro Flange mounting. Dimensional details are specified below. This vacuum seal is also water-cooled for high-temperature applications. For precision measurement specifications, refer to the Spec Control Drawing.

Ferrotec Part Number 121159 Dimension Specification Drawing



Specifications for Ferrotec Part Number 121159	
Shaft	Solid Shaft
Shaft Support:	Simply Supported (vac+atm sides)
Ferrofluid	Standard
Mounting	Ferro Flange
Features:	Water-cooled
Dimensions:	
Shaft (or bore) Diameter with tolerance	0.9995 (+.0005/- .0005) in
Shaft termination	.251w x .148d x 1.53L keyway in
Shaft extension (Vac)	2 in
Overall length	7.02 in
Housing overall length	3.01 in
Housing diameter	3 (+.010/-0.010) in
Body length	2.51 in
Flange diameter	6 in
Flange thickness	0.53 in
Fitting locations	1.00, 1.30 in
Mounting holes	.750, 4x on a 4.750 in
Flange Type	Ferro flange
Face seal O-ring	2-238
Bearing Specifications:	
Bearing type/material	6906
Bearing Dim A	2.52 in
Bearing Dim B	2.21 in

	
<u>ATM</u>	<u>VAC</u>
Performance Characteristics:	
Shaft Torque Capacity	1960 in-lb
Starting Torque 100rpm *	29.2 in-oz
Running Torque 100rpm **	17.3 in-oz
Starting Torque 1000rpm *	53.1 in-oz
Running Torque 1000rpm **	26.6 in-oz
Limiting Speed [rpm] ***	3900

Note:

* See the Drag Torque section of the [Determining your Requirements](#) page for the definition of starting torque

** Values are for a feedthrough at room temperature. Under continuous rotation the unit will warm-up, and the running torque will decrease.

*** Water cooling may permit significantly higher speed. Consult your Field Engineer.

General vacuum seal specifications can be found on [Ferrotec's Standard Feedthrough Common Specifications](#) page.

For an explanation of Ferrotec's flange mounting terminology, consult [Ferrotec's Flange Mount Options](#) page.