

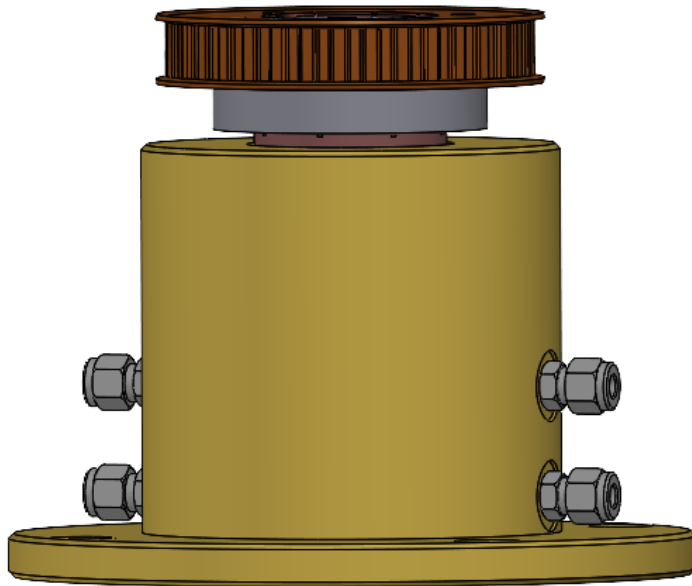
Ideal Vacuum feedthrough PN:P1013726

Ferrotec Model Feedthrough Model HS-1750-CFFCWP (part number 107425)

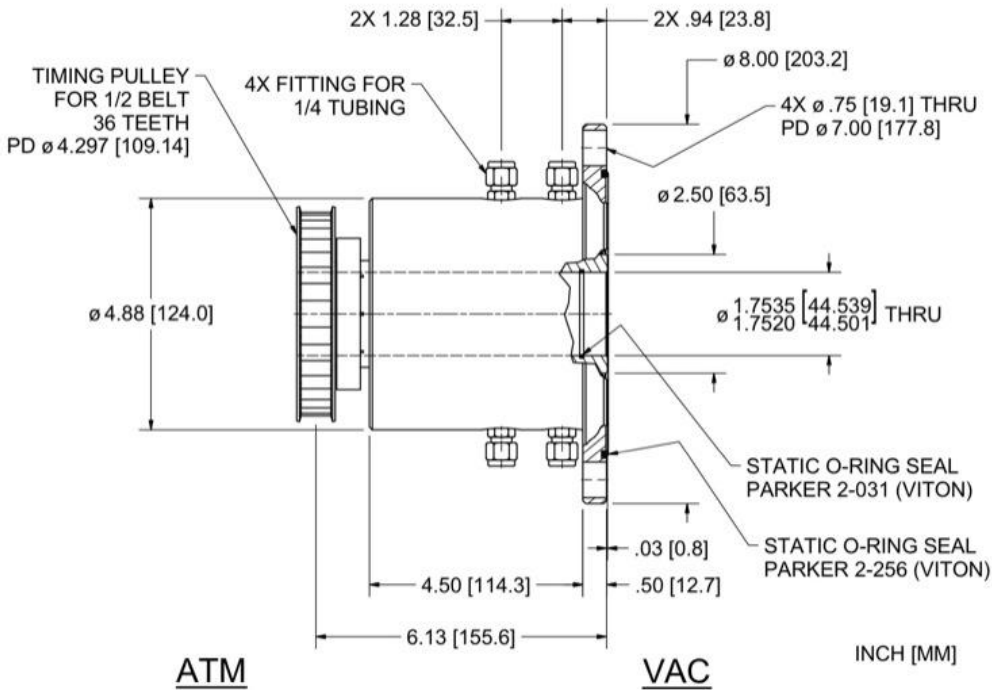
Ferrotec's Ferrofluidic seal Feedthrough Model HS-1750-CFFCWP (part number 107425) is a member of Ferrotec's Hollow Shaft Flange Mount Feedthroughs. The HS-1750-CFFCWP vacuum rotary feedthrough features a Hollow shaft with Ferro Flange mounting.

Dimensional details are specified below. This vacuum seal is also water-cooled for high-temperature applications. The HS-1750-CFFCWP vacuum rotary feedthrough uses Ferrotec's fluorocarbon-based ferrofluid, specifically optimized for introducing rotary motion with a magnetic liquid hermetic seal in most Reactive Gas environments.

For precision measurement specifications, refer to the Spec Control Drawing.



Ferrotec Part Number 107425 Dimension Specification Drawing



Specifications for Ferrotec Part Number 107425	
Shaft	Hollow Shaft
Shaft Support:	Cantilevered (both on atm side)
Ferrofluid	Reactive Gas
Mounting	Ferro Flange
Features:	Water-cooled
Dimensions:	
Shaft (or bore) Diameter with tolerance	1.7525 in
Shaft extension (Vac)	0.03 in
Overall length	6.53 in
Housing overall length	5 in
Housing diameter	4.88 in
Body length	4.5 in
Recommended shaft diameter	1.75

Flange diameter	8 in
Flange thickness	0.5 in
Fitting locations	.936, 1.280 in
Mounting holes	.750, 4x on 7.000 bc in
Face seal O-ring	2-256
Bearing Specifications:	
Bearing type/material	7012
Bearing Dim A	3.12 in
Bearing Dim B	0.7 in
<p style="text-align: center;"> <u>ATM</u> <u>VAC</u> </p>	
Performance Characteristics:	
Starting Torque 100rpm *	800 in-oz
Running Torque 100rpm **	473 in-oz
Starting Torque 1000rpm *	1450 in-oz
Running Torque 1000rpm **	727 in-oz
Limiting Speed [rpm] ***	1560

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](#).