C8D3K-STH

Air Engaged Friction Clutch End of Shaft Bored, Pilot Mount



Minimum Sprocket Sizes

Chain Size	50	60	80	100
Minimum Teeth	41	35	27	22

Engagement/Disengagement

Air/Spring

Facing Type

High Coefficient

Torque @ 80 PSI - Dynamic

14,855 Pound Inches

Minimum Engagement Pressure

3 PSI

Maximum Operating Pressure

80 PSI

Maximum RPM

1.325

Bore Range with Standard Keyway

2.000 (51) to 2.500 (66) Inches (mm)

Air Volume New

5.02 Cubic Inches

Air Volume Worn

16.53 Cubic Inches

Finish

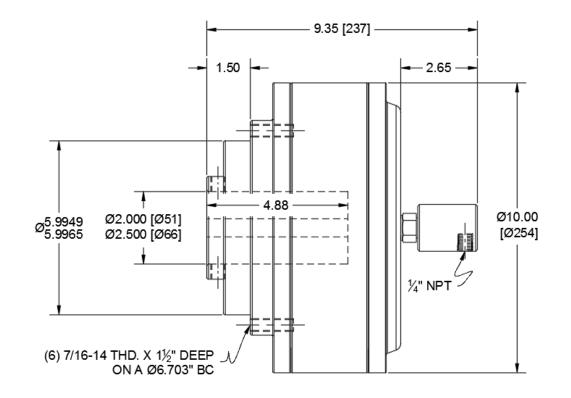
Aluminum

Open or Enclosed Construction

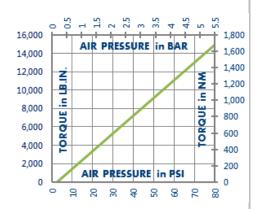
Enclosed

Shipping Weight

62 Pounds



TORQUE vs. AIR PRESSURE



NEW vs. BURNISHED TORQUE

The torque output of a new friction brake or clutch can be up to 40% less than the published torque rating. To achieve full design torque, a unit must be cycled under load to burnish the friction surfaces. The exact number of cycles varies by application.

When calculating required torque always use a safety factor of 1.5 to 2. It is not recommended to select a product for use at its maximum rated torque for continuous duty.

PRODUCT SELECTION

Torque capacity is only one factor to consider when making a product selection. Ensure that you will have the right product for the job by contacting our engineering department for application review and selection assistance.

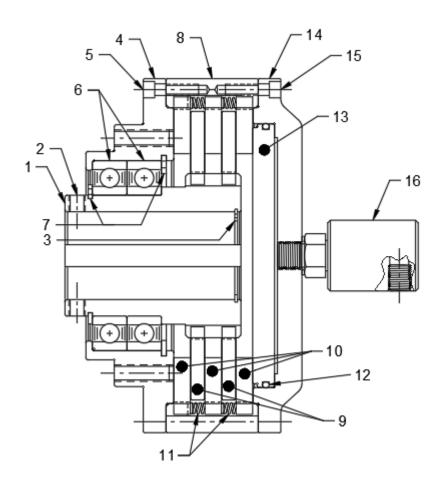


1580 Lake Street Elmira, NY 14901 USA 859-291-0849 machiii.com

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C8D3K-STH

Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
1	DRIVE HUB KIT Drive Hub	1	C8D3K-STH-HUBK Specify Bore Size When Ordering
3	Set Screw Retainer Ring	2 1	
4 5 6 7	SLEEVE KIT Sleeve Screw Bearing Retainer Ring	1 6 2 2	C8D3K-STH-SLVK
8	Ring Gear DRIVE DISC KIT Drive Disc	2	C8D3K-STH-DRDK
10 11 12	REPAIR KIT Friction Disc Coil Spring O-Ring	3 12 1	C8D3K-STH-RPRK
13	PISTON KIT CYLINDER KIT Cylinder	1	C8D3K-STH-P004 C8D3K-STH-CYLK
15 16	Screw ROTATING SEAL	6 1	RSEAL-029

PARTS KITS

The Repair Kit contains common wear items for this product. Users are encouraged to stock one or more repair kits considering the number of units installed and the potential downtime if machinery on which the unit is installed is critical equipment. To obtain current pricing and lead time for parts kits, contact customer service.

orders@machiii.com

ADDITIONAL PRODUCT INFORMATION

For illustrated guides showing how Mach III products work, selection guidelines, product manuals, and installation and use recommendations:

https://machiii.com/resources/how-our-products-work

For information about how to order, return policy and warranty information:

https://machiii.com/resources/how-to-order



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