

Friction Clutch – Air Applied  
End of Shaft Bored, Pilot Mount

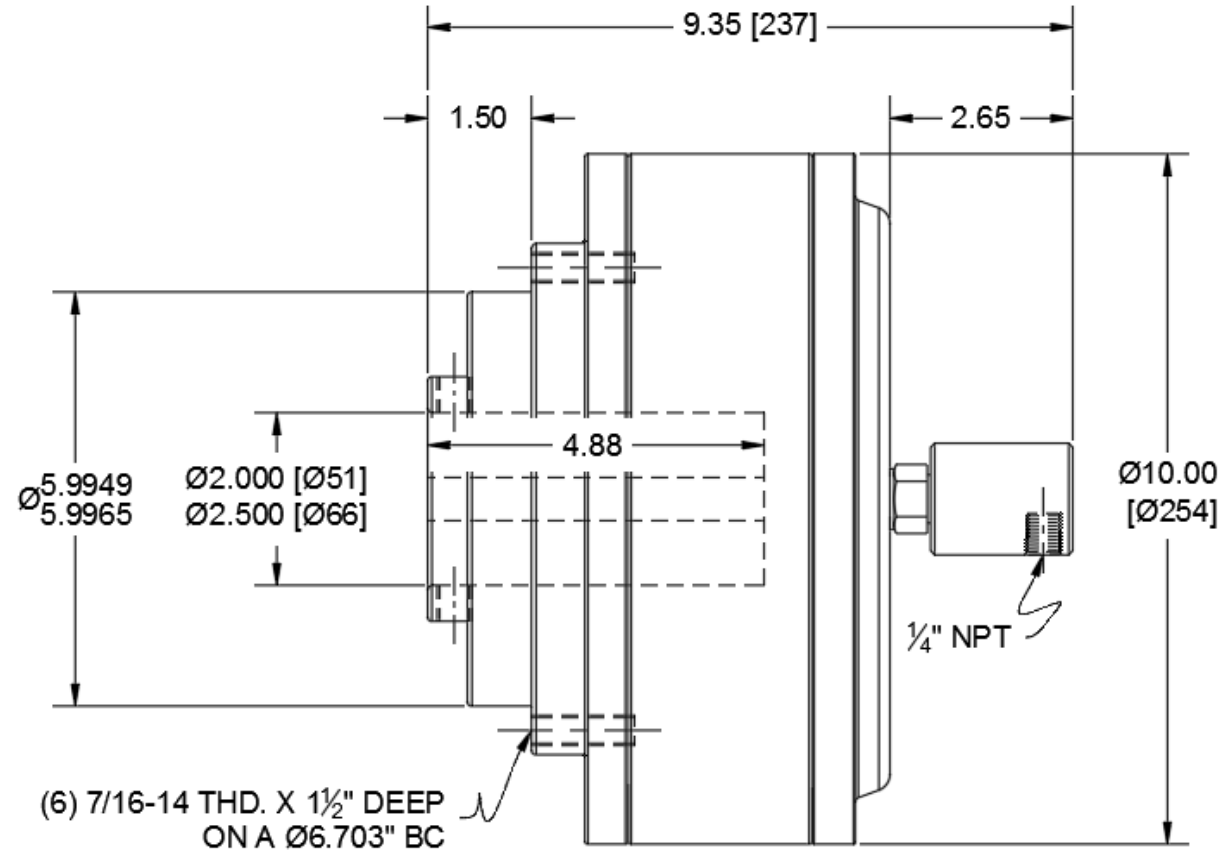


## C8D3K-STH

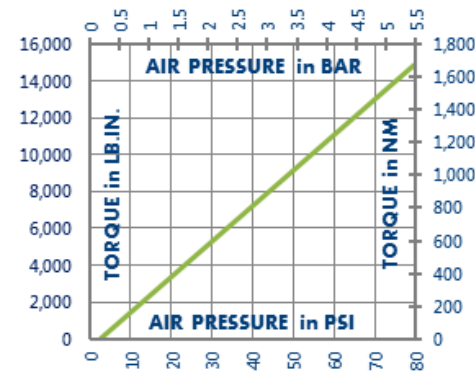
Minimum Sprocket Sizes

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

|  |                                      |
|--|--------------------------------------|
| <b>Engagement/Disengagement</b>        | Air/Spring                           |
| <b>Facing Type</b>                     | High Coefficient                     |
| <b>Torque @ 80 PSI – Dynamic</b>       | 14,855 Pound Inches                  |
| <b>Minimum Engagement Pressure</b>     | 3 PSI                                |
| <b>Maximum Operating Pressure</b>      | 80 PSI                               |
| <b>Maximum RPM</b>                     | 1,325                                |
| <b>Bore Range with Standard Keyway</b> | 2.000 (51) to 2.500 (66) Inches (mm) |
| <b>Air Volume New</b>                  | 5.02 Cubic Inches                    |
| <b>Air Volume Worn</b>                 | 16.53 Cubic Inches                   |
| <b>Finish</b>                          | Aluminum                             |
| <b>Open or Enclosed Construction</b>   | Enclosed                             |
| <b>Shipping Weight</b>                 | 62 Pounds                            |



### TORQUE vs. AIR PRESSURE



### NEW vs. BURNISHED TORQUE

New clutch or brake torque is approximately 40% less than rated design torque until the friction and drive discs are worn in (lapped, burnished). The length of time for wear-in to occur varies by application.

When calculating required torque always use a service 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. Insure that you will have right product for the job by contacting our engineering department for application review and selection assistance.



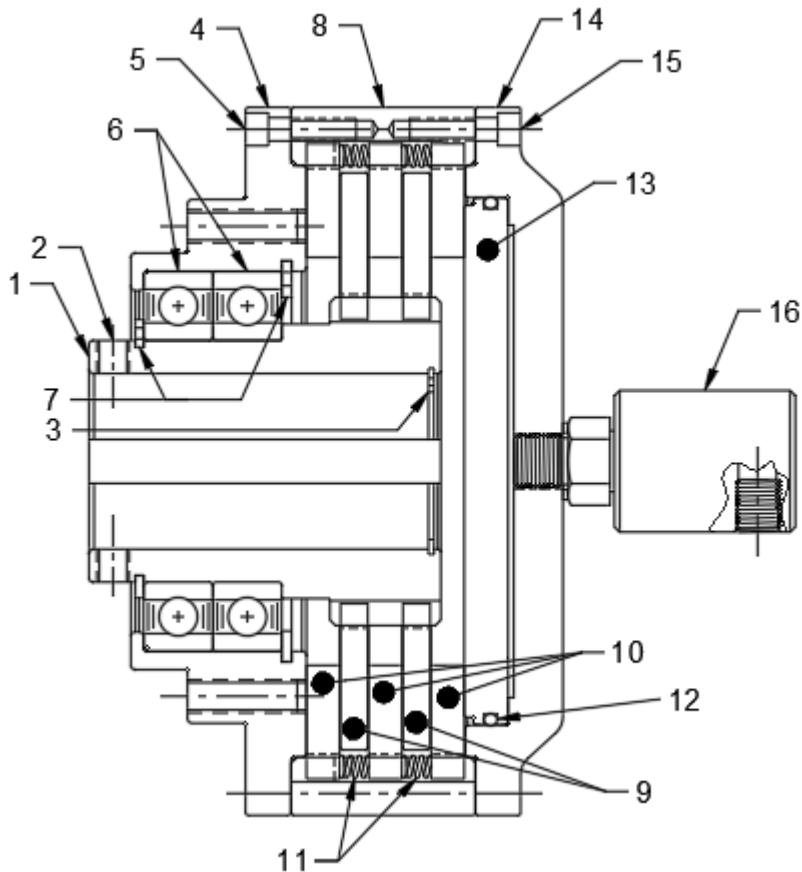
859-291-0849

engineering@machiii.com

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# C8D3K-STH

## Parts Diagram



| REF# | DESCRIPTION & PARTS INCLUDED | QUANTITY | KIT NUMBER                             |
|------|------------------------------|----------|--|
|      | <b>DRIVE HUB KIT</b>         |          | <b>C8D3K-STH-HUBK</b>                  |
| 1    | Drive Hub                    | 1        | <i>Specify Bore Size When Ordering</i> |
| 2    | Set Screw                    | 2        |  |
| 3    | Retainer Ring                | 1        |  |
|      | <b>SLEEVE KIT</b>            |          | <b>C8D3K-STH-SLVK</b>                  |
| 4    | Sleeve                       | 1        |  |
| 5    | Screw                        | 6        |  |
| 6    | Bearing                      | 2        |  |
| 7    | Retainer Ring                | 2        |  |
| 8    | Ring Gear                    | 1        |  |
|      | <b>DRIVE DISC KIT</b>        |          | <b>C8D3K-STH-DRDK</b>                  |
| 9    | Drive Disc                   | 2        |  |
|      | <b>REPAIR KIT</b>            |          | <b>C8D3K-STH-RPRK</b>                  |
| 10   | Friction Disc                | 3        |  |
| 11   | Coil Spring                  | 12       |  |
| 12   | O-Ring                       | 1        |  |
|      | <b>PISTON KIT</b>            |          | <b>C8D3K-STH-P004</b>                  |
| 13   | Piston Kit                   | 1        |  |
|      | <b>CYLINDER KIT</b>          |          | <b>C8D3K-STH-CYLK</b>                  |
| 14   | Cylinder                     | 1        |  |
| 15   | Screw                        | 6        |  |
|      | <b>ROTATING SEAL</b>         |          | <b>RSEAL-031</b>                       |
| 16   | Rotating Seal                | 1        |  |

### 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](mailto:orders@machiii.com)

### ADDITIONAL PRODUCT INFORMATION

Click on the links below or copy and paste into your web browser.

To view the Installation & Maintenance Manual for this product:

[http://machiii.com/PDF/Product-Manuals/CLUTCH\\_ENDSHAFT\\_AIR\\_HD\\_MANUAL.pdf](http://machiii.com/PDF/Product-Manuals/CLUTCH_ENDSHAFT_AIR_HD_MANUAL.pdf)

For information about the application and use of this and other Mach III products:

<http://machiii.com/Application/Default.asp>



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