

# D3C2R-005

Spring Engaged Air or Manual Release Brake



## Engagement/Disengagement

Spring/Air-Lever

## Facing Type

High Coefficient

## Torque – Dynamic

461 Pound Inches

## Minimum Disengagement Pressure

65 PSI

## Maximum Operating Pressure

90 PSI

## Maximum RPM

1,750

## Bore Size with Standard Keyway

19mm [0.748"]

## Mounting Bolt Circle

164mm [6.457"]

## Air Volume / Cycle

0.36 Cubic Inches

## Finish

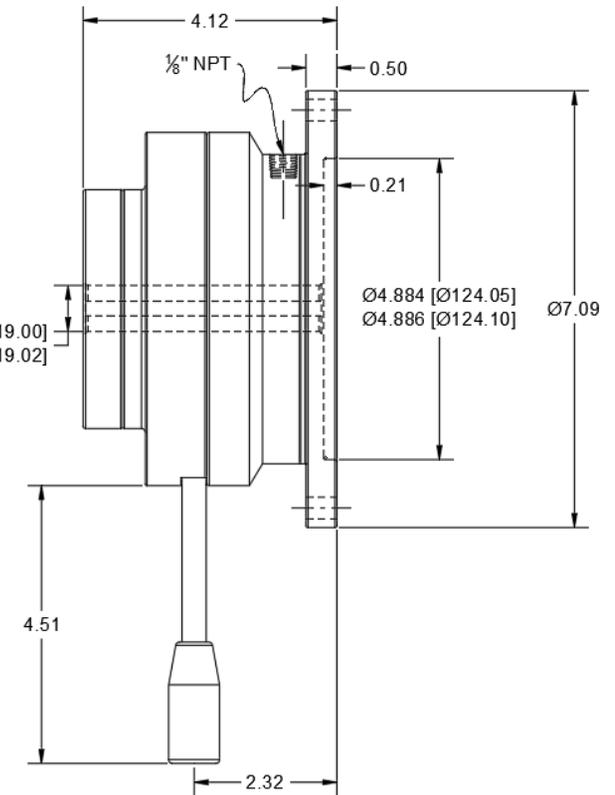
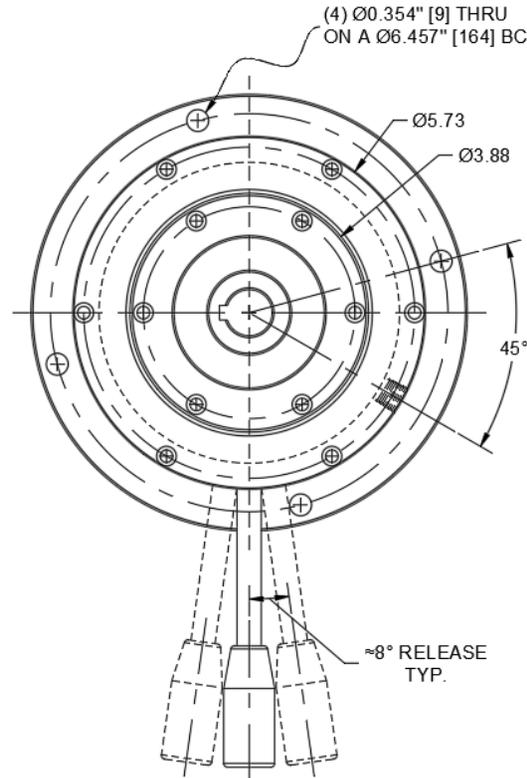
Aluminum

## Open or Enclosed Construction

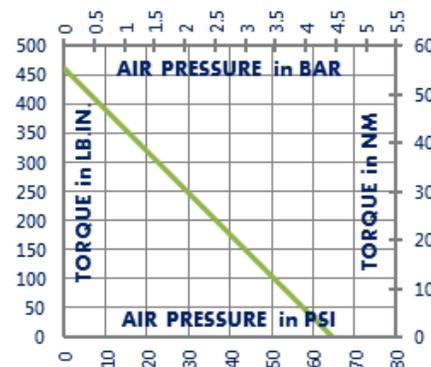
Open

## Shipping Weight

12 Pounds



## TORQUE vs. SPRING 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.

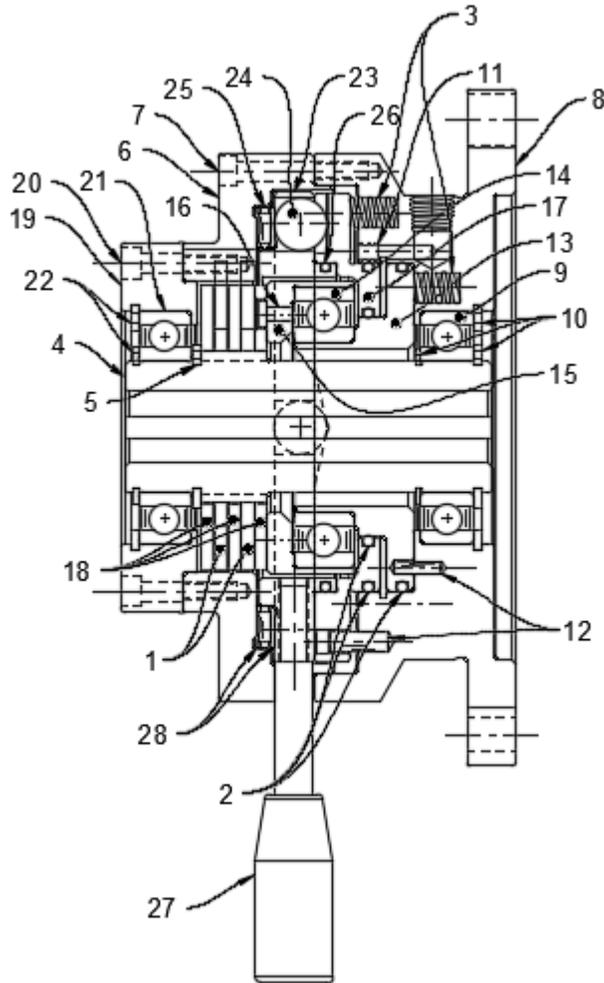


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# D3C2R-005

## Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
	<b>REPAIR KIT</b>		<b>D3C2R-005-RPRK</b>
1	Friction Disc	2	
2	O-Ring	3	
3	Spring	20	
	<b>DRIVE HUB KIT</b>		<b>D3C2R-003-HUBK</b>
4	Drive Hub	1	
5	Retainer Ring	1	
	<b>SLEEVE KIT</b>		<b>D3C2R-005-SLVK</b>
6	Sleeve	1	
7	Screw	6	
	<b>CYLINDER KIT</b>		<b>D3C2R-003-CYLK</b>
8	Cylinder	1	
9	Bearing	1	
10	Retainer Ring	3	
11	Screw	1	
12	Pin	4	
	<b>PISTON KIT</b>		<b>D3C2R-003-PSTK</b>
13	Piston	1	
14	Bearing	1	
15	Cone	1	
16	Screw	1	
17	Pressure Plate	1	
	<b>DRIVE DISC KIT</b>		<b>D3C2R-003-DRDK</b>
18	Drive Disc	3	
	<b>COVER KIT</b>		<b>D3C2R-005-COVK</b>
19	Cover	1	
20	Screw	6	
21	Bearing	1	
22	Retainer Ring	2	
	<b>CAGE KIT</b>		<b>D3C2R-003-CAGK</b>
23	Cage	1	
24	Ball	4	
25	Thrust Bearing	1	
26	O-Ring	1	
27	Handle	1	
28	Race	2	

### 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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