

I300 High Torque Zero Backlash Brake

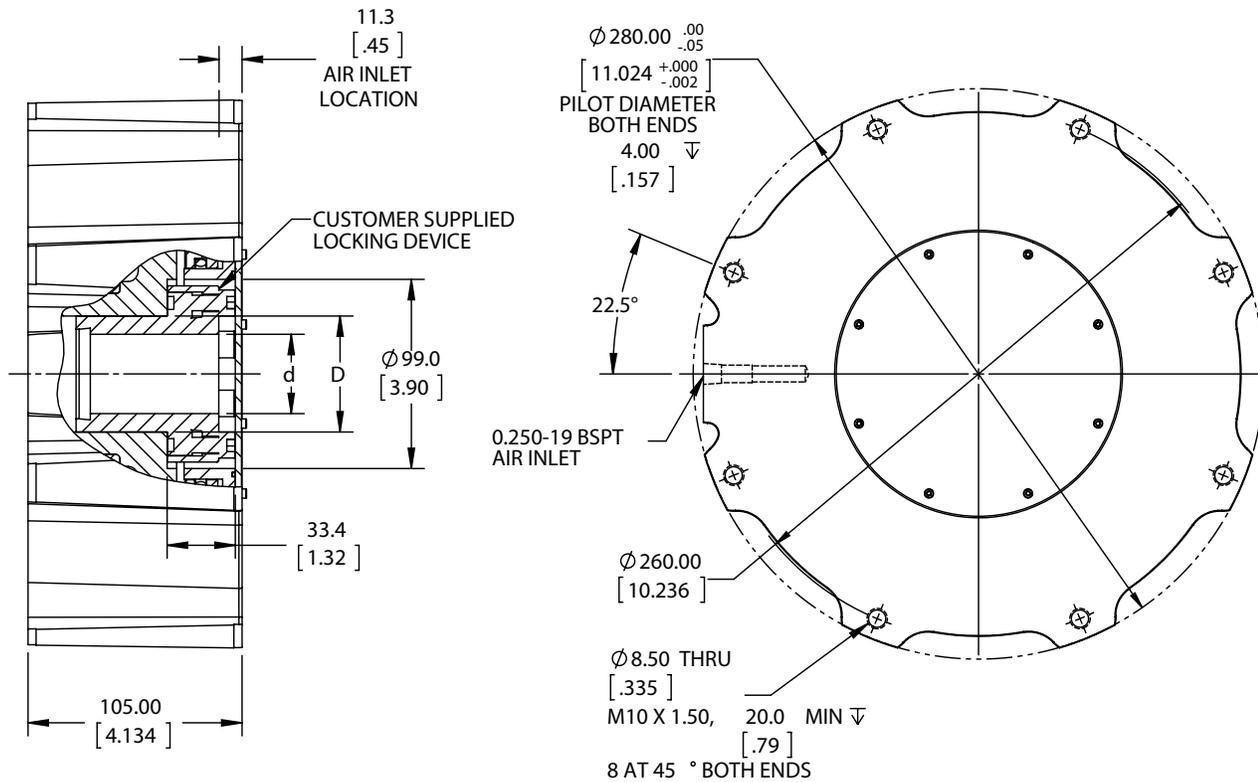
Nexen's I300 brake is designed for zero backlash holding and emergency stopping making it ideal for indexers and positioning systems. The spring engaged, air released, patented braking element locks and holds the shaft in position without any displacement or reversing of the load. It is flange or shaft mounted and has a keyless compression bushing shaft connection for easy installation and IP67 rated when flange mounted. High torque and short response time ensure the shortest possible stopping distance and precise holding. Brakes can be stacked for additional holding power or redundant braking.



Features

- Zero backlash
- Torque up to 600 Nm [5311 in-lbs]
- No shaft rotation due to brake actuation
- Shaft end or through shaft mounting
- Capable of 2000 RPM
- Spring engaged, air released
- Releases at 4.1 Bar [60 psi]
- Stackable for higher holding power or redundancy
- IP67 rated

Dimensions



Product Specifications

- Maximum Brake Torque:** 600 Nm [5311 in-lbs]
- Backlash:** Zero with keyless locking device
- Release Pressure:** 4.1 Bar [60 psi]
- Torsional Rigidity:** 8,341,000 Nm/rad [6,152,000 ftlb/rad]
- Rotational Inertia:** 0.0212 kgm² [0.502 lbf²]
- Dynamic Capability:** E-stops allowed, no cyclic dynamic stopping allowed
- Engagement Response Time:** 85 ms
- Ratings:** IP67 when end mounted and sealed to the machine frame
- Service Life:** 1 million holding cycles, dynamic stops application dependent
- Temperature Range:** 4 to 100° C [40 to 200° F]
- Construction:** Cast iron housing, steel locking device access cover, black paint

| Suggested Customer Supplied Locking Devices | |
|---|------------|
| Brand | Model |
| B-LOC | B800 |
| Climax Metal | 170 Series |
| Gerwah Peter | PSV 2010.1 |
| KTR Clampex | KTR 250 |
| Lovejoy SLD | SLD 1900 |
| Ringfeder | RfN 7110 |
| Ringspann | RLK 110 |
| Tollok | TLK 110 |
| US Tsubaki | PL TF |

Specify locking device size **65 mm x 50 mm** for I-300 #965500
Specify locking device size **71 mm x 55 mm** for I-300 #965503

| Brake Product Number | Brake Bore (D) | Locking Device Bore (d) ⁽¹⁾ |
|----------------------|----------------------|--|
| 965500 | 65.00 mm [2.559 in.] | 50.00 mm [1.969 in.] |
| 965501 | 72.00 mm [2.835 in.] | Compomac, Midas #7237 (2) |
| 965502 (3) | 65.00 mm [2.559 in.] | 50 mm [1.969 in.], Keyed Bore |
| 965503 | 71.00 mm [2.795 in.] | 55 mm [2.165 in.] |

⁽¹⁾ Manufacturer of shaft must contact specific locking device supplier for shaft dimensions and tolerances

⁽²⁾ Compomac "Midas" #7237 locking device, bore sizes: 28, 30, 32, 35, 38, 40, 42, 45, 48, 50, 55 and 60 mm

⁽³⁾ Brake hub is bored and keyed, locking device not required

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Form No. L-21243-E-0714