

nexen[®]

AIR CHAMP[®] PRODUCTS

User Manual



Micro Clutch and Micro Brake

In accordance with Nexen's established policy of constant product improvement, the specifications contained in this manual are subject to change without notice. Technical data listed in this manual are based on the latest information available at the time of printing and are also subject to change without notice.

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www.nexengroup.com



WARNING

Read this manual carefully before installation and operation.

Follow Nexen's instructions and integrate this unit into your system with care.

This unit should be installed, operated and maintained by qualified personnel **ONLY**.

Improper installation can damage your system or cause injury or death.

Comply with all applicable codes.

Nexen Group, Inc.
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INTRODUCTION

Read this manual carefully, making full use of its explanations and instructions. The "Know How" of safe, continuous, trouble-free operation depends on the degree of your understanding of the system and your willingness to keep all components in proper operating condition. Pay particular attention to all NOTES, CAUTIONS, and WARNINGS to avoid the risk of personal injury or property damage. It is important to understand that these NOTES, CAUTIONS, and WARNINGS are not exhaustive. Nexen cannot possibly know or evaluate all conceivable methods in which service may be performed, or the possible hazardous consequences of each method. Accordingly, anyone who uses a procedure that is not recommended by Nexen must first satisfy themselves that neither their safety or the safety of the product will be jeopardized by the service method selected.

MOUNTING

The mounting shaft should have two flats approximately 1/32" deep positioned in line with the set screws (Item #17) at both ends of the journal (Item #5).

1. Slide the unit over the shaft and secure with the set screws. Micro Brake: Access to the set screw under the flange is obtainable through the 3/16" wide slot in the flange.

AIR CONNECTION

For quick response, use a short air line between the control valve and unit. A hose assembly (Item #19) is supplied. Bearing drag on hose during operation may be relieved by resting hose on a support mounted parallel to units centerline.

CAUTION

The use of rigid pipe or tubing, when connected directly to unit will prevent its proper actuation.

LUBRICATION

Pneumatically actuated devices require clean, pressure regulated and lubricated air for maximum performance and long life. Your local distributor carries filters, regulators, and lubricators specifically designed to operate with Nexen clutches, brakes, and valves. (See paragraph 1 under MAINTENANCE for bearing lubrication.)

MAINTENANCE

1. Examine the friction disc occasionally and when it is completely worn, replace housing/friction disc assembly (Item #1).
2. At this time regrease the thrust bearing (Item #16). The thrust bearing has been packed with H-130 which was specifically selected for these units.
3. If clutch or brake does not operate properly, the malfunction could be caused by:
 1. Defective O-rings (Items #12 and #13).
 2. A broken return spring (Item #8).
 3. Defective bearings (Items #14, 15, and 16).
 4. Defective air controls.

NOTE: Re-lubricate with H-130 or Chevron SRI. H-130 is available in a six tube (14 1/2 oz) carton, product #8539 at Nexen Distributors.

The other bearings are pre-lubricated and sealed and require no lubrication.

CAUTION

This unit has rotating parts. It is recommended that a guard, one that will not restrict the flow of cooling air around the unit, be used if the unit is installed in an area where injury to an operator could occur.

PARTS LIST

MICRO CLUTCH -- PRODUCT NO. 8568
BRAKE ADAPTOR ASSEMBLY -- PRODUCT NO. 8567

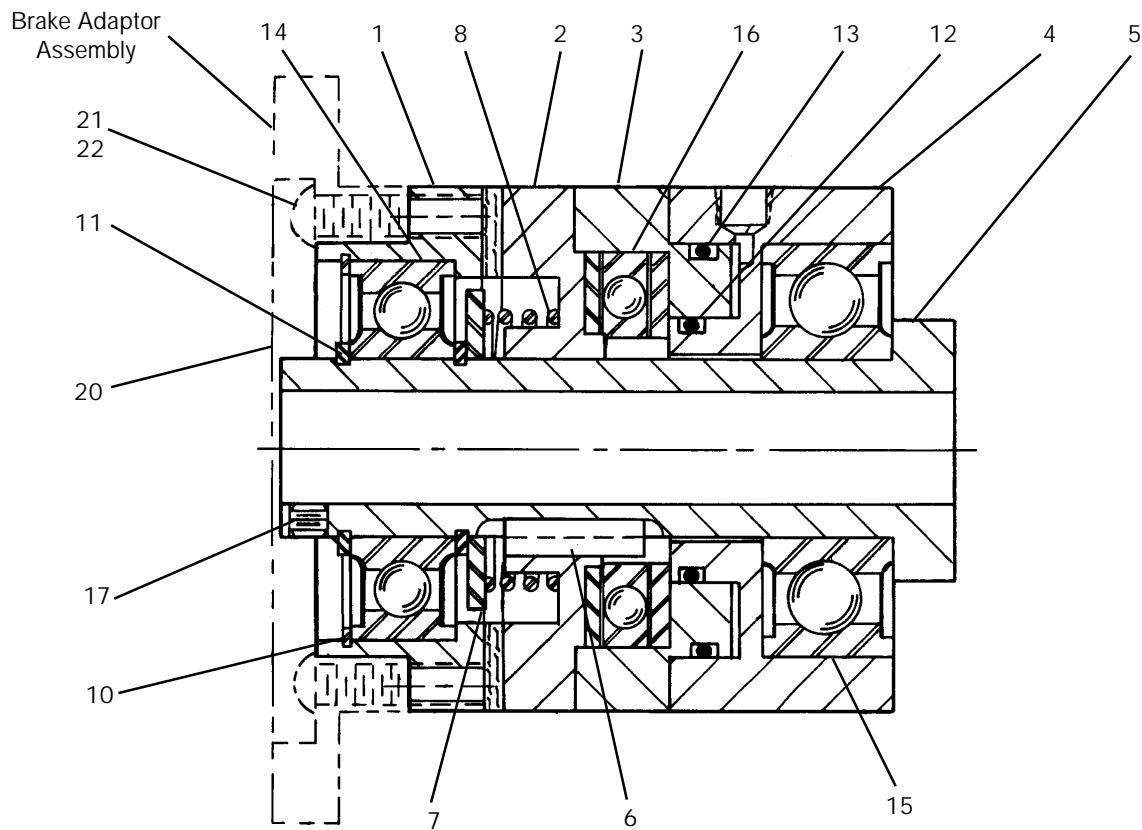


FIGURE 1

ITEM	DESCRIPTION	QTY.
1	Housing/Friction Disc Assy	1
2	Disc, Friction	1
3	Piston	1
4	Chamber	1
5	Hub	1
6	key	1
7	Washer, Return Spring	1
8	Spring, Return	1
10	Ring, Retaining	1
11	Ring, Retaining	2
12	O-ring	1
13	O-ring	1
14	Bearing	1
15	Bearing	1
16	Bearing, Thrust	1
17	Screw, Set	2
19	Hose Assembly (Not Shown)	1
20	Adapter, Brake	1
21	Screw, Cap	4
22	Lock washer	4

For replacement parts contact your local Nexen distributor.



WARRANTIES

Warranties

Nexen warrants that the Products will be free from any defects in material or workmanship for a period of 12 months from the date of shipment. NEXEN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. This warranty applies only if (a) the Product has been installed, used and maintained in accordance with any applicable Nexen installation or maintenance manual for the Product; (b) the alleged defect is not attributable to normal wear and tear; (c) the Product has not been altered, misused or used for purposes other than those for which it was intended; and (d) Buyer has given written notice of the alleged defect to Nexen, and delivered the allegedly defective Product to Nexen, within one year of the date of shipment.

Exclusive Remedy

The exclusive remedy of the Buyer for any breach of the warranties set out above will be, at the sole discretion of Nexen, a repair or replacement with new, serviceably used or reconditioned Product, or issuance of credit in the amount of the purchase price paid to Nexen by the Buyer for the Products.

Limitation of Nexen's Liability

TO THE EXTENT PERMITTED BY LAW NEXEN SHALL HAVE NO LIABILITY TO BUYER OR ANY OTHER PERSON FOR INCIDENTAL DAMAGES, SPECIAL DAMAGES, CONSEQUENTIAL DAMAGES OR OTHER DAMAGES OF ANY KIND OR NATURE WHATSOEVER, WHETHER ARISING OUT OF BREACH OF WARRANTY OR OTHER BREACH OF CONTRACT, NEGLIGENCE OR OTHER TORT, OR OTHERWISE, EVEN IF NEXEN SHALL HAVE BEEN ADVISED OF THE POSSIBILITY OR LIKELIHOOD OF SUCH POTENTIAL LOSS OR DAMAGE. For all of the purposes hereof, the term "consequential damages" shall include lost profits, penalties, delay images, liquidated damages or other damages and liabilities which Buyer shall be obligated to pay or which Buyer may incur based upon, related to or arising out of its contracts with its customers or other third parties. In no event shall Nexen be liable for any amount of damages in excess of amounts paid by Buyer for Products or services as to which a breach of contract has been determined to exist. The parties expressly agree that the price for the Products and the services was determined in consideration of the limitation on damages set forth herein and such limitation has been specifically bargained for and constitutes an agreed allocation of risk which shall survive the determination of any court of competent jurisdiction that any remedy herein fails of its essential purpose.

Limitation of Damages

In no event shall Nexen be liable for any consequential, indirect, incidental, or special damages of any nature whatsoever, including without limitation, lost profits arising from the sale or use of the Products.

Warranty Claim Procedures

To make a claim under this warranty, the claimant must give written notice of the alleged defect to whom the Product was purchased from and deliver the Product to same within one year of the date on which the alleged defect first became apparent.

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