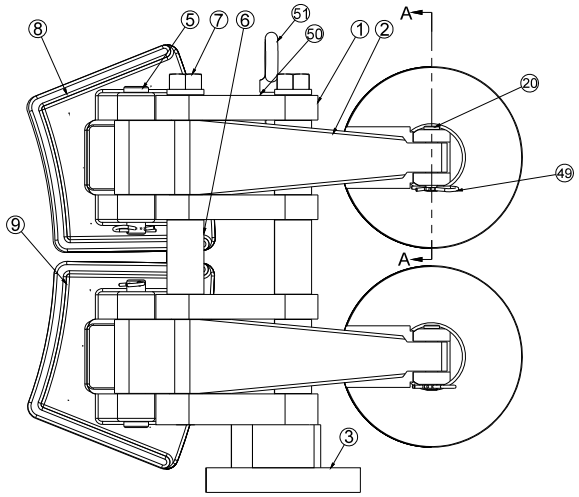
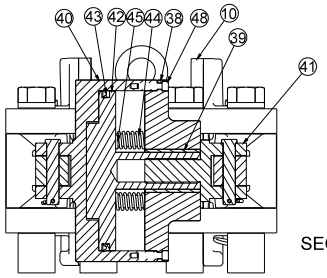
8024 CALIPER BRAKE





SECTION A-A

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	6602	Clevis
2	4	6503	Arm
3	1	6628A	Base Assembly
4	4	6504	Pivot Spacer
5	4	6505	Shoe Pin
6	8	6506	Spacer
7	4	6607	Pivot Bolt
8	2	6609	RH Shoe
9	2	6610	LH Shoe
10	4	6508	Friction Lining (Kevlar)
20	4	6517	Cylinder Pin
38	2	6514	Cap
39	2	6526	Bushing
40	2	6613	Cylinder
41	2	6616	Rod End
42	2	6515	Piston
43	2	6525	U-Cup Seal
44	12	1757-1	Dowel Pin
45	12	6518	Return Spring
47	36	2831-3	Brass Flat Head Screw
48	16	1666-6	Socket Head Cap Screw
49	8	4958	Hairpin
50	1	1019-8	Lock Washer
51	1	6536	Eye Bolt

8024 GENERAL DESCRIPTION

The 8024 caliper brake is an air-applied,spring-released caliper brake. Stainless steel air cylinders are mounted to lever arms which have brake shoes mounted to the opposite ends. The arm pivot is placed so the cylinder force is increased 5X and applied to the shoe. The cylinders are spring retracted when air pressure is exhausted. The cylinder piston rod is threaded so it can be extended to make up for lining wear. Air used in the brake must be clean, dry, and lubricated. 120 psi maximum pressure.

MOUNTING

The 8024 caliper brake requires a mounting surface parallel and 9.60" below the rotational center of the rotor. This surface must be strong enough to support the tangential force created by the brake (25,000 lb). The hole pattern locating the brake must center it within 1/8" of the rotor center. Use (4) 3/4"dia. grade 5 bolts properly torqued to fasten the brake to the mounting surface. Use flexible air lines to the cylinder ports (1/2"NPT) as they are floating.

MAINTENANCE

Check The cylinder extension when the brake is engaged on the rotor.
The turned section of the piston rod (1-1/2"Dia.) is flush with the cap when the piston is retracted. The piston is fully extended (No Brake!) when the turned section shows 1-3/16" exposure.
Adjust the threaded rod clevis further out to get the piston back into the stroke range of the cylinder. When the threaded portion of the rod clevis shows 1-1/8" of exposed thread, all adjustment is used and the linings need to be replaced. The linings are fastened to the shoes with brass flat head screws. The new lining thickness is .50". When the linings are worn to 5/16" thickness, they need to be replaced. Use loctite 242 (blue) on the brass screws.
Readjust the threaded rod clevis for proper rotor clearance.
Repair kit 6527K contains linings, screws, seals, & return springs. Repair kit 6539K contains linings & screws.

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