



# AEROQUIP INNOVATIONS

## 1531/1531A Hose QUALIFIED WITH AIR-BRAKE CRIMP FITTINGS FOR RAILROAD APPLICATIONS

Eaton has qualified Aeroquip flexible low-temperature 1531/1531A hose with air-brake crimp fittings for railroad applications.

Assemblies made of 1531/1531A hose and air-brake crimp fittings meet test requirements outlined in AAR Specification M-618. The fittings meet the existing dimensional requirements for crimp fittings outlined in M-927 and have the appropriate AAR markings on both the socket and nipples.

### Assembly Applications

Flexible air brake piping on railcars has several applications for 1531/1531A hose assemblies, including:

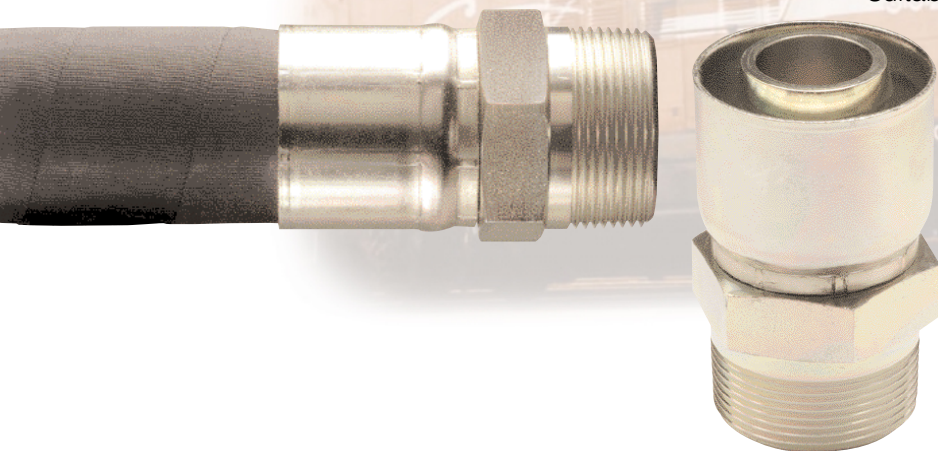
- Truck-mounted brakes
- Empty/load-door operators
- Articulated joint connections
- Branch pipe tees
- Intermediate and train lines

### Assembly/ Fitting Features

- Air-brake crimp fittings are designed as one-piece fittings.
- The crimp fittings are available in sizes -10, -16, and -24 in male pipe ends.
- Crimp fittings are lower in cost than reusable fittings
- The fittings can be crimped using standard "M"-series crimp jaws and standard Aeroquip crimp equipment.
- The assemblies are suitable for operating temperatures ranging from -65° F to +212° F.

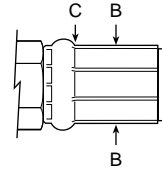
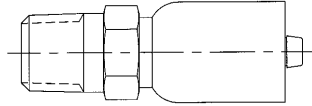
### Fitting Benefits

- Simplify ordering and inventory due to one-piece design
- Available in the most popular hose sizes
- Decrease assembly time
- Offer 20% cost reduction when compared to Aeroquip reusable fittings
- Eliminate need to purchase special dies
- Suitable for operating temperature range equal to temperature range of low-temperature hose (-65° F to +212° F)



## 1531/1531A

### MALE PIPE CRIMP FITTINGS



Complete Fitting Part Number	Hose Size	Crimp Diameters (±0.006) – B	Crimp Position (±0.015) – C	Metric Crimp Die
		INCHES	INCHES	
FJ3424-0810S	-10	1.014	0.800	M240
FJ3424-1216S	-16	1.447	0.895	M320
FJ3424-1616S	-16	1.447	0.895	M320
FJ3424-2024S	-24	1.899	1.260	M465



## 1531/1531A

### RAILROAD AIR BRAKE

### MEETS AAR AND M-618 STANDARDS

Part Number	Hose I.D. Nominal	Hose O.D.	Maximum Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Average Weight
	INCHES	INCHES	PSI	PSI	INCHES	LBS/FT
#						
1531-10	1/2	0.906 to 0.968	300	1200	5.50	0.38
1531-16	7/8	1.343 to 1.406	300	1200	7.38	0.72
1531A-24	1 1/2	1.843 to 1.906	300	1200	10.50	1.04

**Construction:** Oil-resistant synthetic elastomer inner tube. Sizes -10 and -12 are reinforced with a carbon steel wire-braid positioned between two textile braids. Sizes -16, -20, and -24 feature two carbon-steel wire braids and a textile braid. Oil, weather, and abrasion-resistant synthetic elastomer outer cover. Hose is embossed per AAR Regulation M-618.

**Operating Temperature Range:** -65°F to +212°F (-54°C to +100°C)

**Agency Listings:** Hose meets all physical requirements of the Association of American Railroads Standard M-618.

**WARNING:** It is important to use the correct fitting with any hose product to ensure a proper connection. Only use the fittings suggested by Eaton for this hose product. Mixing fittings and hose by different manufacturers can lead to an unstable connection due to the difference in manufacturing techniques and tolerances. Such connections can fail with the potential for spraying and causing personal injury or property damage.



**Eaton Aeroquip**  
 Industrial Division  
 3000 Strayer Road, P.O. Box 631  
 Maumee, Ohio 43537-0631  
 419/867-2600, Fax: 419/867-2629  
[www.aeroquip.com](http://www.aeroquip.com)



*Specifications subject to change without notice*