



Air Brake Hose Pin Pricks in the Outer Cover

From time to time concerns are raised regarding the pin pricks in the outer cover of hose. Generally, the concern is in the perception that the holes penetrate through the complete hose wall. This is not the case. In fact, the inner core tube is protected by the existence of the pin pricks. Sometimes, "bubbling" may be observed coming from the hose at the location of the pin pricks during instances when the hose is wet. In other cases, moisture may be seen escaping from these holes in an otherwise dry environment.

There is a normal permeation of moisture and gases through the tube and within the assembly. The pin pricks in the cover provide an escape route for these, when the hose is pressurized. This prevents hose blistering, loss of adhesion, freezing and premature hose failure. Bubbling gases or escaping moisture will subside after the hose has been under pressure for awhile, (generally in less than 30 minutes).

While pin pricking, or adding perforations to the cover of the hose, is the common practice of most hose manufacturers, it is not performed by all manufacturers. This causes some confusion on the part of the user. It is a desirable practice for hoses designed to convey air or fluids under pressure and is even used in hoses designed for high pressure.

Hose can be tested to assure its integrity by pressurizing it with air at 150 psi or less and placing it under water. A true leak will be characterized by the presence of rapid continuous bubbling while it is under water.

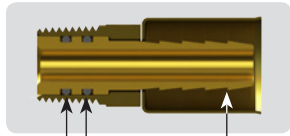


DUAL LIFESwivel® HOSE ASSEMBLIES

- Tectran's **LIFESwivel®** fittings use a patented nut attachment design that exceeds the J1402 cycle testing requirement and has a very high tensile strength.
- Dual O-Ring seals are rated for cold weather.
- All brass construction avoids corrosion.
- The **LIFESwivel®** fitting attaches with a single wrench and provides an actual live swiveling capability.
- The Tectran design enables parts suppliers and service shops to eliminate stocking the single and dual swivel adapter-style hoses.
- Meets or exceeds SAE J1402 - Type A - DOT FMVSS - No. 106 Brake Hoses, 49 CFR 571.10

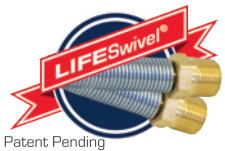


Cross section of **LIFESwivel®** fitting



Double O-ring seal

Barbed hose inserts on both ends when crimped provide added durability



Patent Pending

Length	3/8" Hose x 3/8" Fitting		1/2" Hose x 3/8" Fittings	
	Part No.	Stk.Code	Part No.	Stk.Code
BLACK HOSE DUAL LIFESwivel™ HOSE ASSEMBLIES				
16"	651666	21761	681666	22833
18"	651866	22451	681866	22834
20"	652066	21762	682066	22835
22"	652266	21763	682266	22836
24"	652466	21764	682466	22837
26"	652666	21765	682666	22838
28"	652866	21766	682866	22839
30"	653066	21767	683066	22840
32"	653266	21768	683266	22841
34"	653466	21769	683466	22842
36"	653666	21770	683666	22843
38"	653866	21771	683866	22844
40"	654066	21772	684066	22845
42"	654266	21773	684266	22846
44"	654466	21774	684466	22847
46"	654666	22512	684666	22848
48"	654866	21775	684866	22849
50"	655066	21776	685066	22850
52"	655266	22472	685266	22851
60"	656066	21777	686066	22853

Also available with 1/2" NPT end fittings and in red or blue hose

Hose Display Rack

Part No. HR1
Stk. Code 99161

