



Protecting your people and the environment from the effects of hose failure.



Eaton's new Guardian Sleeve is designed to provide protection against hydraulic hose failure by containing pressure and fluids that may escape during a hose burst or pinhole leak. With this new line of sight sleeving which meets industry standards, both equipment operators and the environment are guarded from the effects of hose failures.

Benefits

- Meets new line of sight operator specification EN982 ISO norm 833 EN414 and ISO 3457
- The ultra tight weave resists oil spillage from hose failure
- Meets ASTM D6770 for abrasion resistance of textile webbing
- Meets abrasion standard ISO 6945
- Meets Fed-STD191-Test Method 5309 for abrasion
- Densely twisted polyamide 6 yarn offers optimum UV and abrasion protection
- MHSA approved # IC-234/0 – Meets standard application procedures for acceptance of Flame Resistance Solid Products taken into mines
- Meets Conductivity Requirements of ISO 8031
- Tight, smooth surface resists wear



Chemical Compatibility Chart for Guardian Sleeving

| Chemical | Compatibility |
|---------------------------|---------------|
| Gasoline | Very Good |
| Oil | Very Good |
| Mineral and Vegetable Oil | Very Good |
| Ionic Metallic Solutions | Very Good |
| Alcohols | Very Good |
| Diluted Bases | Very Good |
| Diluted acids | Good |
| Benzene | Very Good |
| Acetone | Very Good |
| Ether | Very Good |
| Carbon Tetrachloride | Very Good |
| Chlorine Based Solvent | Very Good |
| Mold, Bacteria, Moths | Very Good |

*Strong and concentrated acids; ie. Hcl or Formic Acid may have some corrosive action.



Powering Business Worldwide



Properties and Specifications

| Properties | Specification | Description |
|------------------------|---------------|---|
| Burst Pressure | 16,000 psi | Capable to contain hose burst up to 16,000 psi |
| Pin Hole Leak Pressure | 4,000 psi | Sustained 4,000 psi pin hole deflection from focused 1mm pin hole |
| Abrasion Cycles | 250,000 | Holds up to 250,000 Abrasion cycles per ISO 6945 |

Table 1: General and Dimensional Information

| Part Number | Nominal I.D. (in) | A – Flat Width (in) +/- 0.125 | Weights in lbs per 300 ft Roll | Rolls per Box |
|-------------|-------------------|-------------------------------|--------------------------------|---------------|
| FF90754-68 | 0.68 | 1.290 | 7.43 | 8 |
| FF90754-79 | 0.79 | 1.400 | 8.50 | 7 |
| FF90754-91 | 0.91 | 1.590 | 9.70 | 6 |
| F90754-98 | 0.98 | 1.590 | 10.13 | 6 |
| FF90754-106 | 1.06 | 1.825 | 11.10 | 5 |
| FF90754-122 | 1.22 | 2.076 | 12.60 | 4 |
| FF90754-142 | 1.42 | 2.390 | 14.50 | 4 |
| FF90754-157 | 1.57 | 2.650 | 16.10 | 3 |
| FF90754-173 | 1.73 | 2.910 | 17.70 | 3 |
| FF90754-185 | 1.85 | 3.100 | 18.80 | 3 |
| FF90754-209 | 2.09 | 3.470 | 21.10 | 2 |
| FF90754-219 | 2.19 | 3.630 | 22.10 | 2 |
| FF90754-238 | 2.38 | 3.925 | 23.90 | 2 |
| FF90754-288 | 2.88 | 4.714 | 28.60 | 2 |
| FF90754-366 | 3.66 | 5.938 | 36.10 | 1 |

Denier: 1260
Melting Point: 215°C/420°F
Material: Polyamide 6, made with pre-dyed yarn
Dim. Stability: Great resistance to sun, atmospheric agents and aging
Toxicity: Non-Toxic
Color: Black
Packing Requirements: Eaton Guardian Sleeve comes in a 300 foot roll with no more than 3 cuts per roll and no piece shorter than 30 feet.

Table 2: Guardian Sleeve Selection Chart

| Suggested Sleeve Part Number | Sleeve I.D. (in) | Max Hose OD that Sleeve can accept (in) | Hose Size as a Ref. |
|------------------------------|------------------|---|---------------------|
| FF90754-68 | 0.68 | 0.52 | -4 |
| FF90754-79 | 0.79 | 0.61 | -4 |
| FF90754-91 | 0.91 | 0.70 | -6 |
| FF90754-98 | 0.98 | 0.76 | -6 |
| FF90754-106 | 1.06 | 0.80 | -6 |
| FF90754-122 | 1.22 | 0.92 | -8 |
| FF90754-142 | 1.42 | 1.02 | -10 |
| FF90754-157 | 1.57 | 1.13 | -10 |
| FF90754-173 | 1.73 | 1.24 | -12 |
| FF90754-185 | 1.85 | 1.34 | -16 |
| FF90754-209 | 2.09 | 1.50 | -16 |
| FF90754-219 | 2.19 | 1.54 | -20 |
| FF90754-238 | 2.38 | 1.70 | -20 |
| FF90754-288 | 2.88 | 2.00 | -20 |
| FF90754-366 | 3.66 | 2.40 | -24 |

Assembly Instructions

1. Select the correct sleeve part number for the hose as outlined in the instructions above.
2. Cut the sleeve 2 inches longer than the cut length of the hose to allow full hose bend radius.
3. Ends of sleeves must be seared to prevent sleeve from fraying.
4. Slide sleeve over hose.
5. Secure sleeve over hose sockets with a banding product.

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