Eaton® Guardian™ Sleeve

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

Eaton's new Guardian Sleeve is designed to protect against damage or injury which may result from a hydraulic hose failure. The ultra-tight weave disperses pressure and fluids that may escape during a hose burst or pinhole leak. With this new "line of sight" sleeving, 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
- MSHA 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.

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Eaton Guardian Sleeve

Properties and Specifications

Properties	Specication	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
FF90754-98	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. Note must be ordered by the roll.

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 Table 2.
2. Cut the sleeve 2 inches longer than the cut length of the hose to allow full hose bend radius.
3. The ends of the sleeves must be seared to prevent sleeve from fraying.
4. Slide the sleeve over the hose.
5. Properly assemble the hose ends.
6. Secure the sleeve over hose sockets with a metal banding product.

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