

LIFEGUARD SAFETY SYSTEM

HYDROGEN HOSES | CRYOGENIC LIQUID CYLINDER HOSES | METAL PIGTAILS | LIFEGUARD COMPRESSED GAS HOSES | CARBON DIOXIDE BULK LIQUID TRANSFER HOSES

LifeGuard® I Fitting Design



LifeGuard I Fitting incorporates an internally coated cable connected to normally unseated “Valve Plungers” located on each end of the cable. In the event of a hose separation, coupling ejection or catastrophic hose failure, the “Valve Plungers” are released and instantly seat, stopping the flow of product in both directions.

- Reduce or eliminate personal injury
- Reduce or eliminate property damage
- Reduce or eliminate cost associated with hazardous spills



Open Flow (Valves Open)



Coupling Ejection (Valves Seated)

Coupling Data LifeGuard I Fitting is recommended for gaseous flow and liquids applications

| | |
|-------------------------------------|---|
| Chemical Version | All metal parts are 316 stainless steel |
| High Pressure/Compressed Gas | Parts are 304 stainless steel |
| Monel Version | All parts are Monel with Hastelloy Snap Ring |
| Flammable Gas Version | All parts are 316 stainless with brass plug valve |
| Brass Version | All parts are brass with 316 stainless steel snap ring |
| O-ring | All couplings use PTFE Teflon unless other material is required |

| Size | Alloys Offered | End Configurations | Wt. Lbs.* | Length | WP |
|------|-----------------------------|--------------------------------------|-----------|--------|-----------|
| 1/4" | Stainless 304 & 316, Brass | Male & Female NPT, Flanges, Cam Lock | .4 ea. | 1.6" | 6000 psi |
| 3/8" | Stainless 304 & 316, Brass | Male & Female NPT, Flanges, Cam Lock | .6 ea. | 2.2" | 6000 psi |
| 1/2" | Monel, Stainless 316, Brass | Male & Female NPT, Flanges, Cam Lock | .8 ea. | 2.4" | 6000 psi |
| 3/4" | Stainless 316, Brass | Male & Female NPT, Flanges, Cam Lock | 1.6 ea. | 3.6" | 10000 psi |
| 1" | Monel, Stainless 316, Brass | Male & Female NPT, Flanges, Cam Lock | 2.5 ea. | 4.4" | 5000 psi |

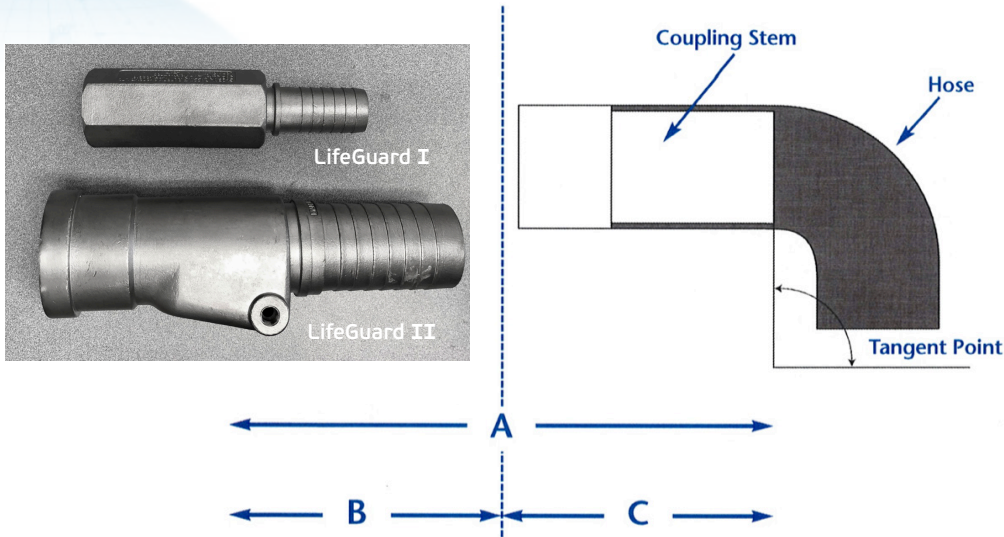
*approximate

All completed hose assemblies are tested with dried air under water to the test pressure of the hose assembly prior to shipment. Each hose assembly comes boxed with test certificate and instruction booklet on Care, Use and Maintenance for LifeGuard Technologies products.

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Coupling Data



| Coupling ID | Type | A" | B" | C" | Coupling Weigh | Standard End Styles |
|-------------|------------|-------|-------|-------|----------------|---------------------|
| 1/4" | LGI & LGII | 2.26 | 1.60 | .665 | 0.40 | NPT Female |
| 3/8" | LGI & LGII | 3.50 | 2.20 | 1.30 | 0.60 | NPT Female |
| 1/2" | LGI & LGII | 4.08 | 2.40 | 1.68 | 0.80 | NPT Female |
| 3/4" | LGI & LGII | 5.72 | 3.60 | 2.12 | 1.60 | NPT Female |
| 1" | LGI & LGII | 6.68 | 4.40 | 2.28 | 2.50 | NPT Female |
| 1 1/4" | LGI & LGII | 8.50 | 5.42 | 3.08 | 2.90 | NPT Female |
| 1 1/2" | LGI & LGII | 7.82 | 4.74 | 3.08 | 3.40 | NPT Male |
| 2" | LGI & LGII | 9.28 | 5.36 | 3.92 | 4.70 | NPT M or F |
| 3" | LGI & LGII | 12.87 | 8.21 | 4.66 | 12.10 | NPT M or F |
| 4" | LGI & LGII | 14.35 | 9.10 | 5.35 | 20.75 | NPT M or F |
| 6" | LGI & LGII | 25.30 | 13.30 | 12.10 | 45.43 | Flange |
| 10" | LGI & LGII | w/a | w/a | w/a | w/a | Flange |

Data subject to change

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LifeGuard® II Fitting Design



LifeGuard II Fitting incorporates an internally coated cable connected to normally unseated “Valve Flapper” located on each end of the cable. In the event of a hose separation, coupling ejection or catastrophic hose failure, the “Valve Flappers” are released and instantly seat, stopping the flow of product in both directions.

- Reduce or eliminate personal injury
- Reduce or eliminate property damage



Coupling Data LifeGuard II Fitting is recommended for gaseous flow and liquids applications

| | |
|------------------------------|---|
| Chemical Version | All metal parts are 316 stainless steel |
| HCL Version | Hastelloy metal parts |
| Flammable Gas Version | All parts are 316 stainless |
| Brass Version | All parts are brass |
| O-ring | All couplings use PTFE Teflon unless other material is required |

| Size | Alloys Offered | End Configurations | Wt. Lbs.* | Length | WP |
|--------|--------------------------|--------------------------------------|-----------|--------|----------|
| 1 1/2" | Monel, Stainless 316 | Male & Female NPT, Flanges, Cam Lock | 3.4 ea. | 4.74" | 1000 psi |
| 2" | Stainless 316, Hastelloy | Male & Female NPT, Flanges, Cam Lock | 4.7 ea. | 5.36" | 1000 psi |
| 3" | Stainless 316 | Male & Female NPT, Flanges, Cam Lock | 12.1 ea. | 8.21" | 800 psi |
| 4" | Stainless 316 | Male & Female NPT, Flanges, Cam Lock | 20.7 ea. | 9.1" | 800 psi |
| 6" | Stainless 316 | Male & Female NPT, Flanges, Cam Lock | 61.5 ea. | 12.25" | 500 psi |

*subject to change

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