## LIFEGUARD™ SLEEVING PRODUCT MATRIX

<table>
<thead>
<tr>
<th>Size</th>
<th>SLEEVE</th>
<th>Max Operating Pressure (psi)</th>
<th>NPSH</th>
<th>Part Number</th>
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<td>7482-1406</td>
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## LIFEGUARD™ DIE SET MATRIX

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<th>Size</th>
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</tbody>
</table>

For more information, visit www.gates.com/ecrimp.
LIFEGUARD™ LINE-OF-SIGHT SLEEVING SYSTEM

PROTECTS EQUIPMENT OPERATORS AGAINST CATASTROPHIC HYDRAULIC HOSE FAILURE

A burst or pinhole leak in a hydraulic system can cause serious problems – especially for anyone or anyone located within a one-meter line-of-sight. Personal injury, fluid bursts and injection, fires and explosions. Electrical shock. Mechanical failure. The cost to a company is typically in the hundreds of thousands of dollars after all direct and indirect costs are considered.

Now, Gates has engineered the first sleeving system specifically designed to protect operators, equipment and the environment from the hazards of catastrophic hydraulic hose failure – a level of protection previously unavailable.

The LifeGuard™ line-of-sight sleeving system (patent pending) is an effective, economical alternative to costly metal shielding or re-routing of hose lines. And it does not affect system performance.

> Contains bursts: LG3K – up to 5,000 psi (34.5 MPa) at 121°C (250°F) for up to five minutes
LG4K – up to 4,000 psi (27.6 MPa) at 121°C (250°F) for up to five minutes
LG5K – up to 3,000 psi (20.7 MPa) at 100°C (212°F) for up to five minutes
LG6K – up to 10,000 psi (68.9 MPa)
LG4K – up to 8,000 psi (55.2 MPa)
LG3K – up to 6,000 psi (41.4 MPa)
> Controls pinhole leaks:
LG3K – up to 2,000 psi (13.8 MPa) at 121°C (250°F) for up to five minutes
LG4K – up to 1,000 psi (6.9 MPa) at 121°C (250°F) for up to five minutes
LG5K – up to 5,000 psi (34.5 MPa) at 121°C (250°F) for up to five minutes
> Handles all hydraulic fluids and biodiesel fuel
> Allows fluid to safely escape down the length of the assembly
> Creates nettole spill for hose failure
> Correlates to ISO 3457 and meets MSHA’s flame-resistance requirements
> No extra sleeves provide this level of protection

Patented pending system includes Gates hose, couplings, sleeves and channel clamps.

HOW THE SYSTEM WORKS

The LifeGuard™ sleeve is slipped onto the hose and clamped at each end. If a hose burst or pinhole leak occurs, escaping pressures and fluids are contained by the exceptionally strong sleeve material. Fluids then exit the system via openings created by the specially designed channel clamps at each end. A noticeable pool of leaking fluids serves as positive verification that a failure has occurred so corrective action can be taken immediately to replace the hose assembly.

LIFEGUARD™ SLEEVING CONSTRUCTION

LifeGuard™ sleeving is available in LifeGuard™ 3000, LifeGuard™ 4000 and LifeGuard™ 5000 configurations. This key to the unmatched protection provided by the LifeGuard™ sleeve is multiple layers of super-strength nylon material. Seperate from one another, the layers are able to slide and move independently to control hydraulic failures.

The inner layer material is especially designed, engineered and manufactured. It is made of highly woven filament nylon. This is the strength-bearing material of the LifeGuard™ sleeve which controls the sudden pressure release of hydraulic bursts and pinhole leaks.

The outer layer of LifeGuard™ sleeving is a textured nylon material that further helps to contain escaped fluids and directs it to the ends of the hose for release. It also resists abrasion and other external hazards.

THE CHANNEL CLAMP

Designed specifically for the LifeGuard™ sleeving system, this unique clamp securely fastens the sleeve at each end of the hose. In the event of hose failure, the escaping fluids are allowed to safely seep out the ends of the hose via two channels on opposite sides of the clamp. Fluids pool under the clamp locations to provide positive verification that a failure has occurred.

Gates offers special LifeGuard™ channel clamps die sets for GC™32-XD, GC32Tsi, Power-Grip™ 32D and P32FL channel clamps. In addition, a LifeGuard™ Quikable Tail (PN 7484-1600) and Hose Bullet Set (PN 7482-1604) are offered to measure, cut and install sleeving, making assembly fabrication fast and easy.

RIGOROUS TESTING

The innovative LifeGuard™ sleeve was rigorously tested both in the lab and in the field to verify its performance and capabilities at typical fluid pressure and temperature levels. While there are no current industry regulations published for this type of product, Gates testing program may be part of an effort to establish future standards for end-user applications.

IN LINE WITH INDUSTRY STANDARDS

LifeGuard™ sleeving correlates to a variety of industry standards, including ISS 30507 and MSHA’s fire-resistance requirements.

ISS 30507 – Meets the intent of ISS 30507 that requires operator protection within a one-meter line-of-sight of any hose conveying fluid above 725 psi (5.0 MPa) at +90°C (+194°F)

THE NEED FOR LIFEGUARD™ SLEEVING

Physical injury is only the tip of the iceberg in a catastrophic hydraulic hose failure accident. Costs incurred by a company can include:

- Direct medical expenses
- Injured worker wages during recuperation
- Replacement worker wages
- Overtime wages
- Loss of production
- Management/supervision time
- Training costs
- Salesไฮไลท์: ชื่อสินค้า า( Translation of sales highlights:)
- Lost customers
- Costs for retraining
- Insurance premium increase
- Equipment repair and downtime
- Environmental cleanup and fines

According to OSHA’S Safety Pays Program calculations, the combination of inspection and emergency injection typically cost a company a total of 156,528. A significant volume of additional sales would be required to recoup this loss for any business. And these figures do not include costs for possible equipment repair or replacement, abandoned dispute, environmental cleanup or legal issues resulting from a catastrophic hydraulic hose failure.