

Manufactured By Trinity Sling

PROTECTING PEOPLE, PROPERTY AND PROFITS Innovation At Work: Gangline™

Trinity Sling Authority is proud to introduce the latest innovation in its oil field service product line - Gangline[™]. Peace of mind in this business is about protecting your assets: people, property and profits. Gangline[™] is an engineered Pipe Restraining System designed to limit the whip range of the pipe should a catastrophic failure occur to the flow line or union connections. *Gangline*[™] consists of only two parts: restraints and shackles. It offers a lightweight, high-strength installation solution for your peace of mind.

Gangline™ **Product Highlights**

- Lightweight, High Performing/Flexible
- Easy/Quick Assembly/Disassembly
- Clear access to connection points for leak repair
- Hydrophobic does not absorb oil or water, washable
- UV protected and corrosion resistant
- Easy use in sub-zero conditions
- Customizable to specific job requirements
- Traceable by serialization & date of manufacture
- Easily stored & transported, shippable world-wide

Gangline[™] is Different



pipe restraint on the market. Gangline[™] restraints are installed in a leap-frog configuration. Each pipe section is secured by both the upstream and downstream sections of the pipeline in the event of a failure. Gangline[™] layout creates a choke on either side of a rupture, reducing in-line flowline movement as well as lateral (whip) movement. Gangline™ offers end to end restraint of flowlines for all lengths of pipe sections as well as swivels and joints.

Each Gangline[™] is serialized and dated on durable waterproof tags. The Gangline is identified to material lots and manufacturers for full traceability. Gangline[™] receives annual recertification and refurbishment from Trinity Sling.

The Gangline[™] saves money with the fastest assembly and disassembly times. The innovative and simple design is trainable, inspectable and reliable. The Gangline[™] disassembles mid-flowline allowing quick flowline refits and leak repairs.



TRINITY SLING AUTHORITY | 3508 AVENUE F EAST, ARLINGTON, TX 76011 | 855.471.5482 | WWW.THEGANGLINE.COM

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Gangline[™] Specifications

HIGH STRENGTH SYNTHETIC FIBER CAPACITY RETENTION AFTER CHEMICAL IMMERSION

Strength retention after 6-month immersion

AGENT	НМРЕ
Sea Water	100%
Hydraulic Fluid	100%
Kerosene	100%
Gasoline	100%
Glacial Acetic Acid	100%
1 M Hydrochloric Acid	100%
5 M Sodium Hydroxide	100%
Ammonium Hydroxide (29%)	100%
Hypophosphite Solution (5%)	100%
Perchloroethylene	100%
10% Detergent Solution	100%
Bleach	91%

Chemically Inert

Gangline[™] Sizing

The *Gangline*[™] is available in three rating sizes:

RD, HD and XD. It is certified for a maximum pressure pumping rating of 15,000PSI for 2", 3" and 4" 1502 iron. Each system is flexible and easily adaptable to a variety of flow-line configurations and site conditions. See sizing chart below to identify which Gangline[™] model to use.

Nominal	Gangline™ Model	Gangline™ Model	Gangline™ Model
Iron Size	RD	HD	XD
2″	15,000PSI		
3″		15,000PSI	
4"		10,000PSI	15,000PSI

Gangline [™] rating is applicable to gas and liquid in energized and non-energized operations.

Peace of Mind Training

Trinity Sling offers Qualified Person training for $Gangline^{m}$ to ensure your temporary pipeline is efficiently and accurately installed.



Gangline[™]: Protecting People, Property and Profits

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