



GripSafe® XL Large Diameter Piping High-Pressure Isolation & Test Plug

Safer, More Efficient Hydrostatic & Pneumatic Pipe Testing

Pressure testing large-diameter pipe concentrates enormous stored energy—creating one of the most serious safety risks on an industrial jobsite. Whether testing hydrostatically or pneumatically, pressurizing large pipe volumes greatly increases the potential for violent failure at welded end caps, blind flanges, and temporary test heads. When failures occur, the release of stored energy is often sudden, uncontrolled, and catastrophic.

Traditional testing methods also require expanded safety stand-off zones, impose significant pipe and support loading during hydrotesting, and introduce delays from filling, venting, draining, and drying—disrupting adjacent work and extending schedules.

GRIPSAFE[®] XL



THE GRIPSAFE XL SOLUTION:

GripSafe XL test plugs allow contractors to test only the required pipe section, rather than the entire system.

A patented independent wedge gripping technology, in addition to its self-energizing design, grips the pipe I.D. and increases sealing force under pressure, providing secure isolation for hydrostatic and pneumatic testing without the labor, time and cost intensive method of welded end caps. Further GripSafe XL leaves virtually no surface damage to the pipe.

WELDED END-CAP vs GRIPSAFE XL PERFORMANCE COMPARISON



Traditional Full-Line Testing:

- Entire piping system pressurized
- Elevated safety exposure due to high volume of stored energy
- Large work safety zones required
- Long setup & teardown times = significant costs
- Multi-stage schedule and crew assignment issues
- Higher violent failure consequence potential

GripSafe XL Sectional Testing:

- Immediate testing
- Only two people required to test
- No permitting requirements
- Plugs are reusable
- Only isolated section tested
- Significantly reduced pipe energy
- Smaller, controlled safety zones
- Faster test cycles
- Controlled, localized risk

KEY BENEFITS:

- Designed for large-diameter piping applications
- Holds pressure up to the pipes yield point during hydrostatic and pneumatic testing
- Patented wedge gripping system and self-energizing design increases grip under pressure
- One plug fits multiple pipe schedules—lowering rental costs.
- Replaces welded end caps and temporary test hardware, reducing labor, cost, and risk.
- Fast installation and removal

TYPICAL APPLICATIONS:

- Large-diameter fabricated pipe spools
- EPC construction and modular fabrication yards
- Refining, petrochemical, LNG, and industrial piping
- Projects where hydrotesting is restricted
- Pneumatic testing and moisture-sensitive piping

RESULTS:

By reducing test volume, GripSafe XL helps project teams:

- Improve personnel safety
- Accelerate testing and fabrication schedules
- Reduce rework and cleanup
- Maintain confidence in pressure test results

KEY FEATURES:

WORLDS MOST ADVANCED ENGINEERED PIPE PLUG

- 21 patents & 7 trademarks – protecting innovation in U.S. and Global markets
- Patented technology supercedes old fashioned design used for the past 65+ years

INDEPENDENTLY ACTUATING WEDGE SYSTEM

- Equal loading across all wedges ensures optimal surface contact & holding capabilities
- Smart auto-grip technology — instant locking upon insertion
- Self-energized Design — as force increases, the wedge's hold becomes stronger against the pipe wall

“F” DESIGN GRIPPING WEDGES

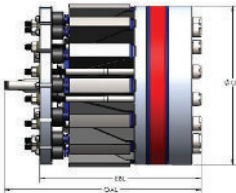
- Secure gripping with proprietary Gritlock® technology — non-contaminating coating, engineered to work with all alloy piping varieties
- Leaves pipe with virtually no surface damage

TRIPLY® SEALS

- Multi-durometer design prevents seal deformation
- Expands beyond traditional urethane seals to deliver a stronger, more adaptable grip

LESS WEIGHT

- Aviation-grade aluminum – superior strength without the excess weight
- Uncompromising durability that performs when conditions are at their toughest



GSXL
OUTBOARD RETRACTION BLOCKING (ORB)
ISOLATION & TEST PLUG
36” - 48” SPECIFICATIONS

Nominal Pipe Size (in)	W.T. Range (in)	Part Number	Tool Diameter (in)	Pipe ID Range* (in)	Approx. Tool Weight (lbs)	Torque Range (ft-lbs)		Comp. Hex Nut Socket Size (in)	Fill Port Thread	Back Pressure Vent Thread	Back Pressure Rating (PSI)	O.A.L. (in)	E.B.L. Energized Body Length
						Norm	Max.						
36	.375 - .750	GSSTXL-I-S-3600-0750WT	34.125	34.5-35.25	3,250	250	600	1-7/8	2 MNPT	1 MNPT	3,000	38.50	31.63
	.875 - 1.250	GSSTXL-I-S-3600-1250WT	33.125	33.5-34.25	3,150								
	1.375 - 1.750	GSSTXL-I-S-3600-1750WT	32.125	32.5-33.25	2,800								
	1.875 - 2.250	GSSTXL-I-S-3600-2250WT	31.125	31.5-32.25	2,700								
42	.375 - .750	GSSTXL-I-S-4200-0750WT	40.125	40.5-41.25	4,400	250	600	1-7/8	2 MNPT	1 MNPT	2,500	38.50	31.63
	.875 - 1.250	GSSTXL-I-S-4200-1250WT	39.125	39.5-40.25	4,300								
	1.375 - 1.750	GSSTXL-I-S-4200-1750WT	38.125	38.5-39.25	3,950								
	1.875 - 2.250	GSSTXL-I-S-4200-2250WT	37.125	37.5-38.25	3,850								
48	.375 - .750	GSSTXL-I-S-4800-0750WT	46.125	46.5-47.25	5,450	250	600	1-7/8	2 MNPT	1 MNPT	2,000	38.50	31.63
	.875 - 1.250	GSSTXL-I-S-4800-1250WT	45.125	45.5-46.25	5,350								
	1.375 - 1.750	GSSTXL-I-S-4800-1750WT	44.125	44.5-45.25	5,200								
	1.875 - 2.250	GSSTXL-I-S-4800-2250WT	43.125	43.5-44.25	5,000								

* Larger sizes and custom configurations available upon request.
In general, a PRD is strongly recommended for all pipes 10/10S and thinner walled.

Have questions? Need more information? Call the USA Industries Engineering Team—we're here to help.
• **NEVER EXCEED THE MAXIMUM RATED PRESSURE OF THE LOWEST RATED COMPONENT IN THE SYSTEM.**
• DATA IS SUBJECT TO CHANGE. Consult manufacturer to verify that this document is the latest release.

