



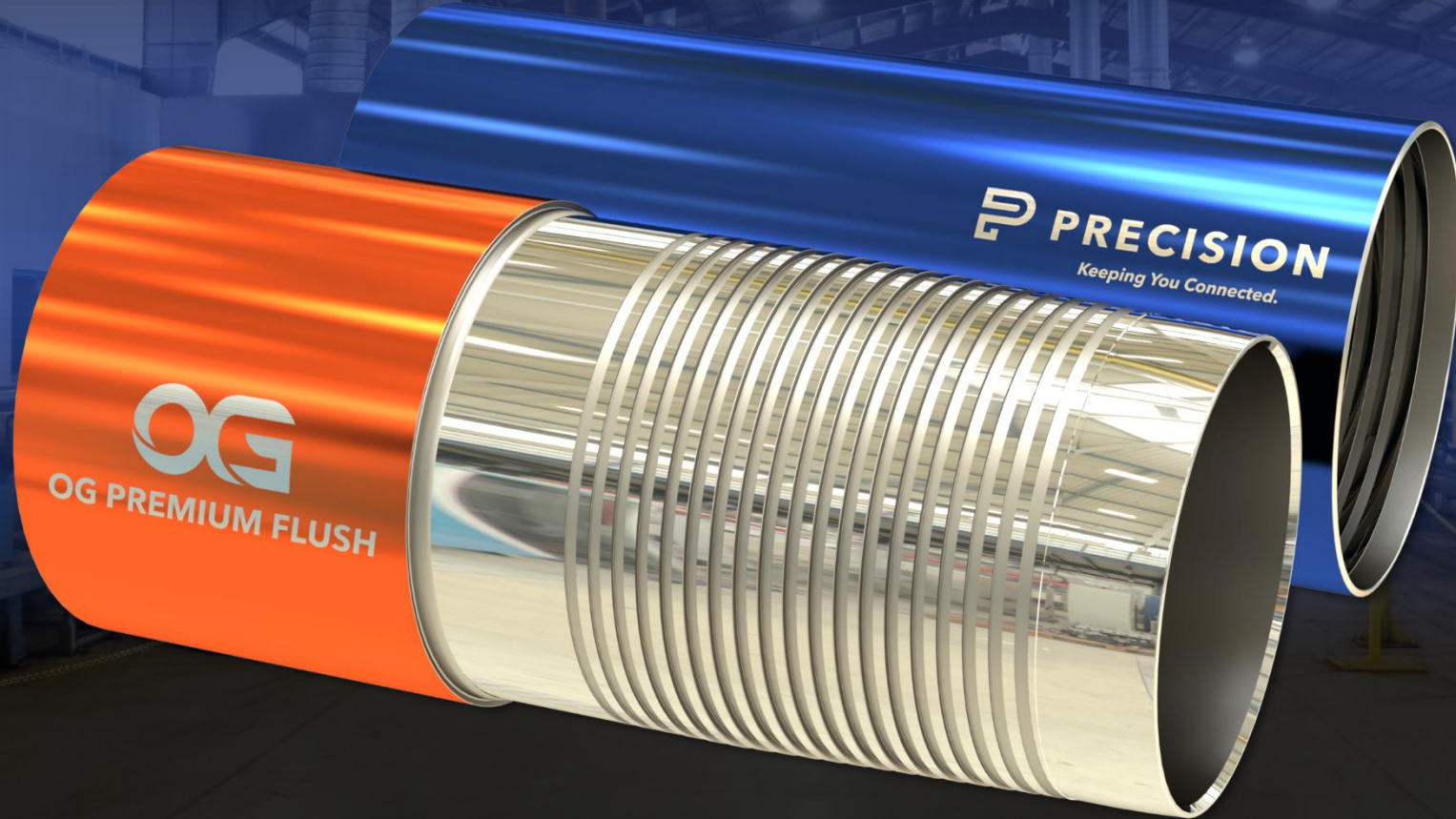
OG PREMIUM FLUSH

For True Premium Gas Tight Metal Sealing



PRECISION

Keeping You Connected.



HELLO

Precision is dedicated to the development of new premium and semi premium connections to meet the challenges of horizontal well completions. We provide classic and innovative ways to keep your tubing and casing connected tighter, safer, and stronger. This allows you to maintain schedules, drastically reduce safety concerns and save on operational costs. Whether you are looking for API couplings, semi-premium or premium connections, we've got you covered.



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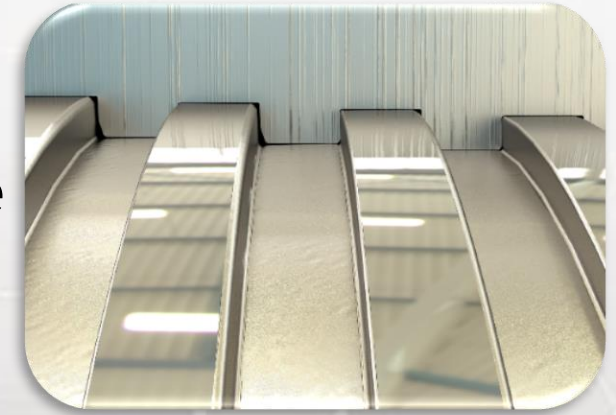


PRECISION

The OG™ FLUSH

Was designed to provide maximum gastight sealing and strength.

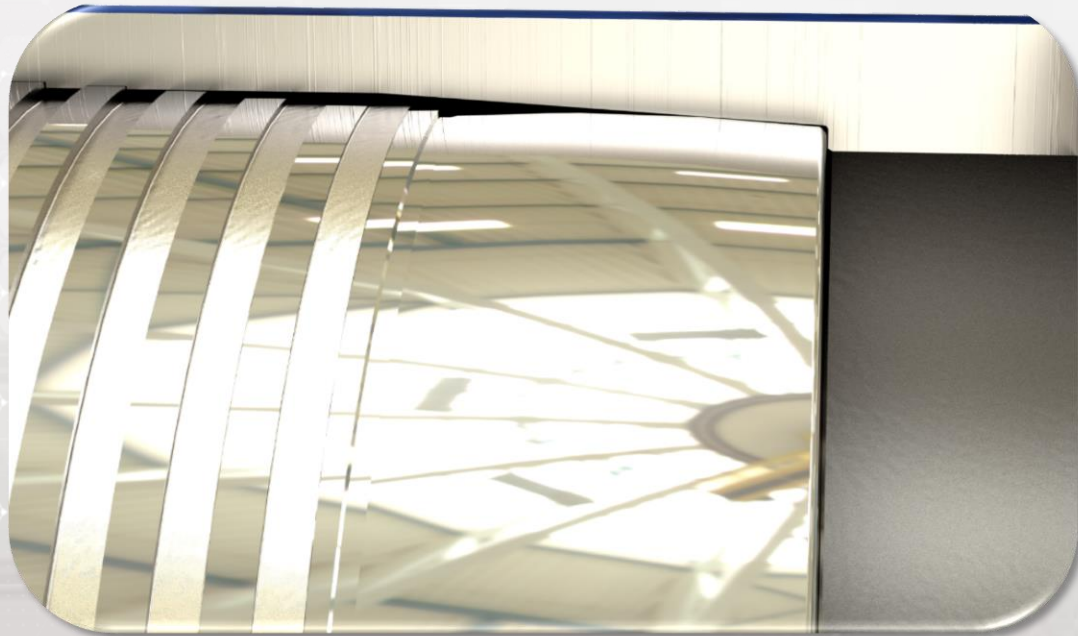
- Designed for plain end pipe with externally and internally flush profiles. The design is swaged to correct the pipe geometry and ensure strength.
- A true double shoulder design for torque capacity. Reduced sensitivity to over-torque.
- Multiple Sealing Mechanisms- Radial Metal pin nose seal, OD metal radial sea and OD reverse angle torque energized seal.





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OG™ FLUSH Inner Seal



Ball on Cone design for proven sealing in high bends.



Large radius pin nose on a low angle box taper to maximize seal contact area.

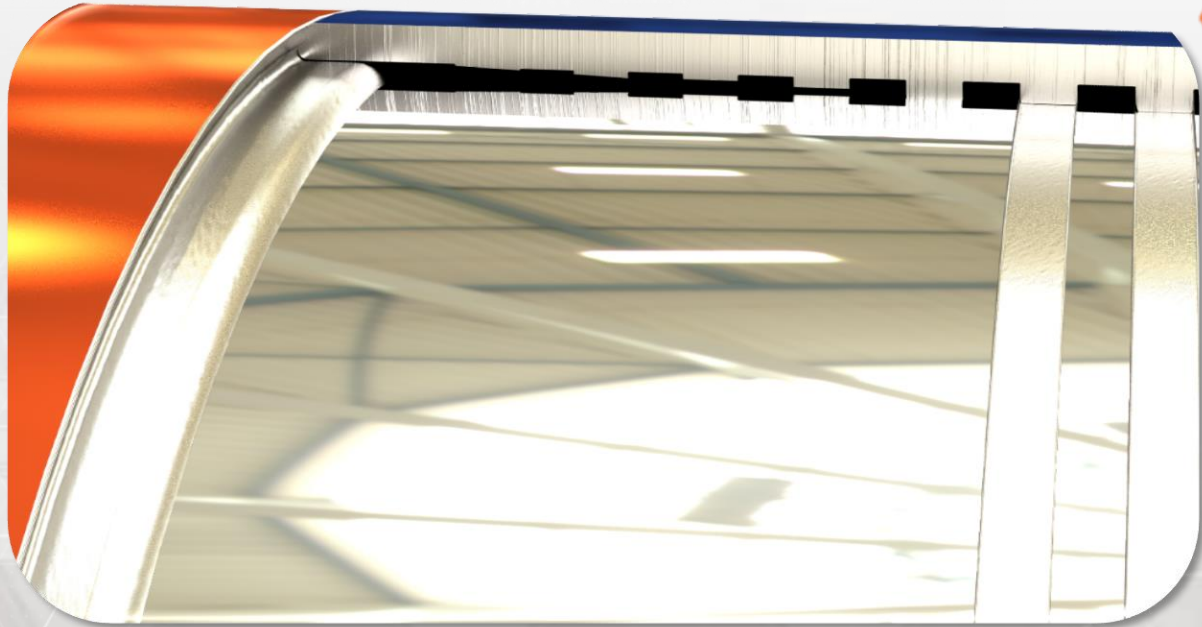


Swaged pin nose to guarantee thickness and sealing.



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OG™ FLUSH Outer Seal



Reverse Angle torque shoulder seal.

Radial Seal Bump for collapse resistance

Reverse angle to create a compressed seal trap against the radial seal bump.



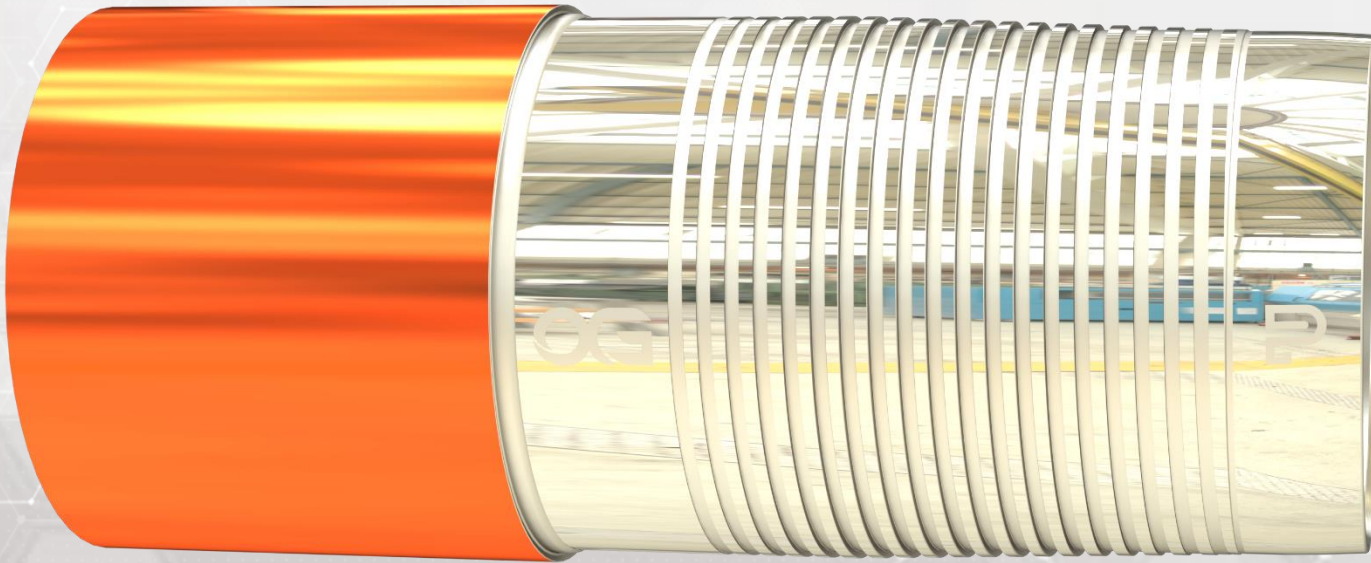


PRECISION

The OG™ FLUSH



Tensile and Compressive strength are designed to 60% to 70% of pipe body ratings depending on wall thickness. Compression may be lower for 3.5" Pipe and smaller due to column buckling. 60% is still good for bending calcs.



Internal Pressure rated to 100% of pipe body internal yield pressure.



Collapse resistance equal to API collapse pressures or rated pipe collapse for proprietary grades.



Boxes and Pins are threaded with tight tolerances and 100% element inspection.



OG PREMIUM FLUSH



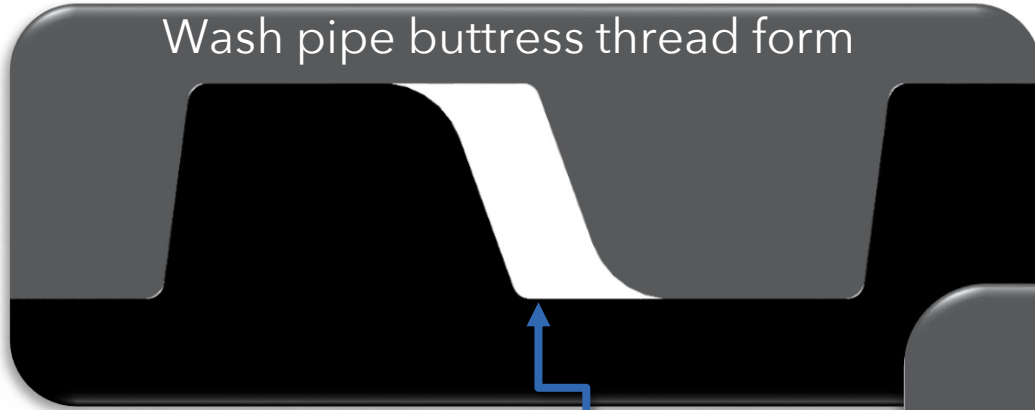
Pins are swaged, stress relieved and threaded to ensure maximum strength.



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Patented Leak Tight Thread Form

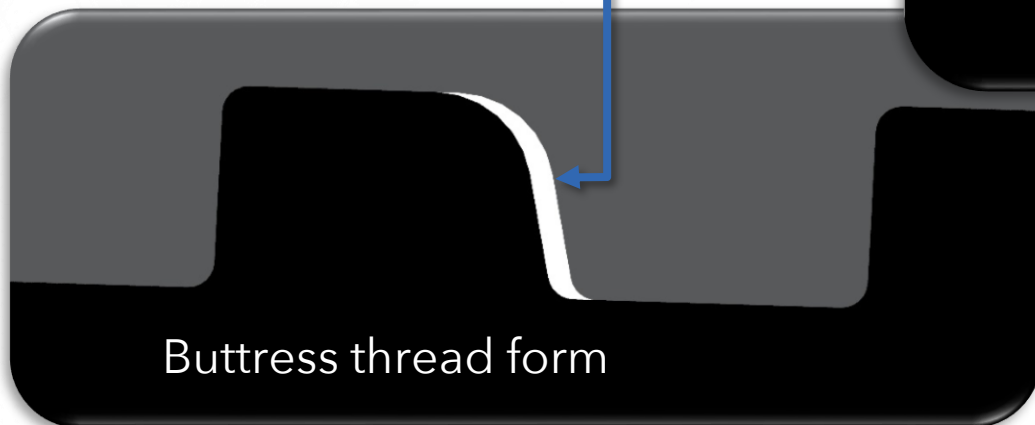
Wash pipe buttress thread form



GAP
Leak Path

Reduces thread gap and Splits the thread compound into 2 flow path regions.

Buttress thread form



Patent No.: US 9,593,786

Non contacting separation at the apex to restrict flow and aid sealing.





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Patented Leak Tight Thread Form

Tight Contact: Contacts on 3 of the 4 possible mating surfaces. 

Square threads for deep stabbing and easy make up. 

Tight thread spacing for sealing. 

 Tight to restrict movement in a bend or compression.



 Uses taller Square Stepped Threads. Flat Crests and Roots.

 Negative load flanks for bending and jumpout resistance.





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Thread Assembly

Square stepped threads assemble quickly. They are resistant to bind up.

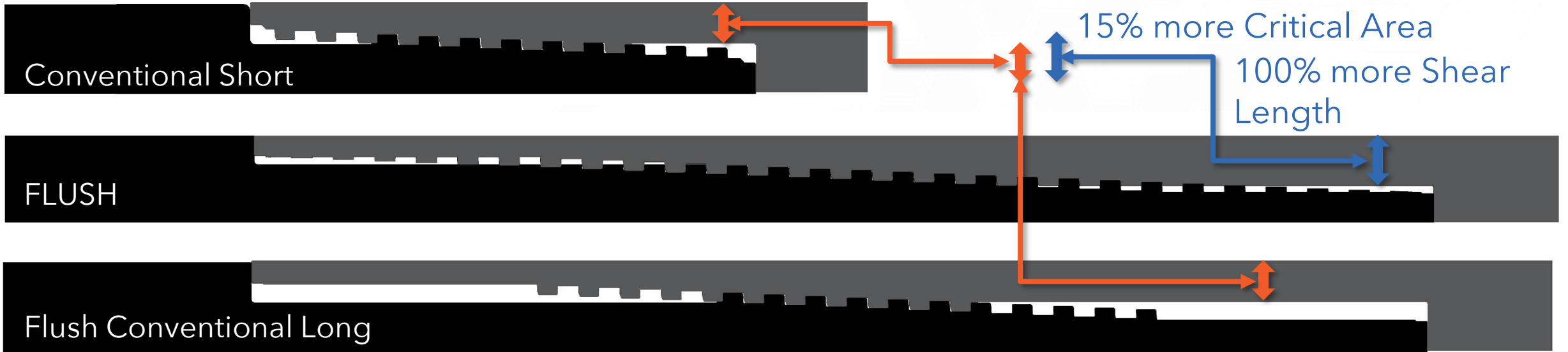
They stab deep just like tapered threads for stable make ups.

Fewer threads per inch for a faster stab and makeup.

Thin Wall: 8 pitch VS 10.
Medium Wall: 6 pitch VS 8.
Thick Wall: 5 pitch VS 4.



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Specialized Run-In/Run Out threads:

Maximize critical area. From 45% to 60%.

Increase compressive and tensile & shear strength.

Allow taller threads, steeper tapers and fewer threads per inch.

Require square threads for proper interlocking.



PRECISION

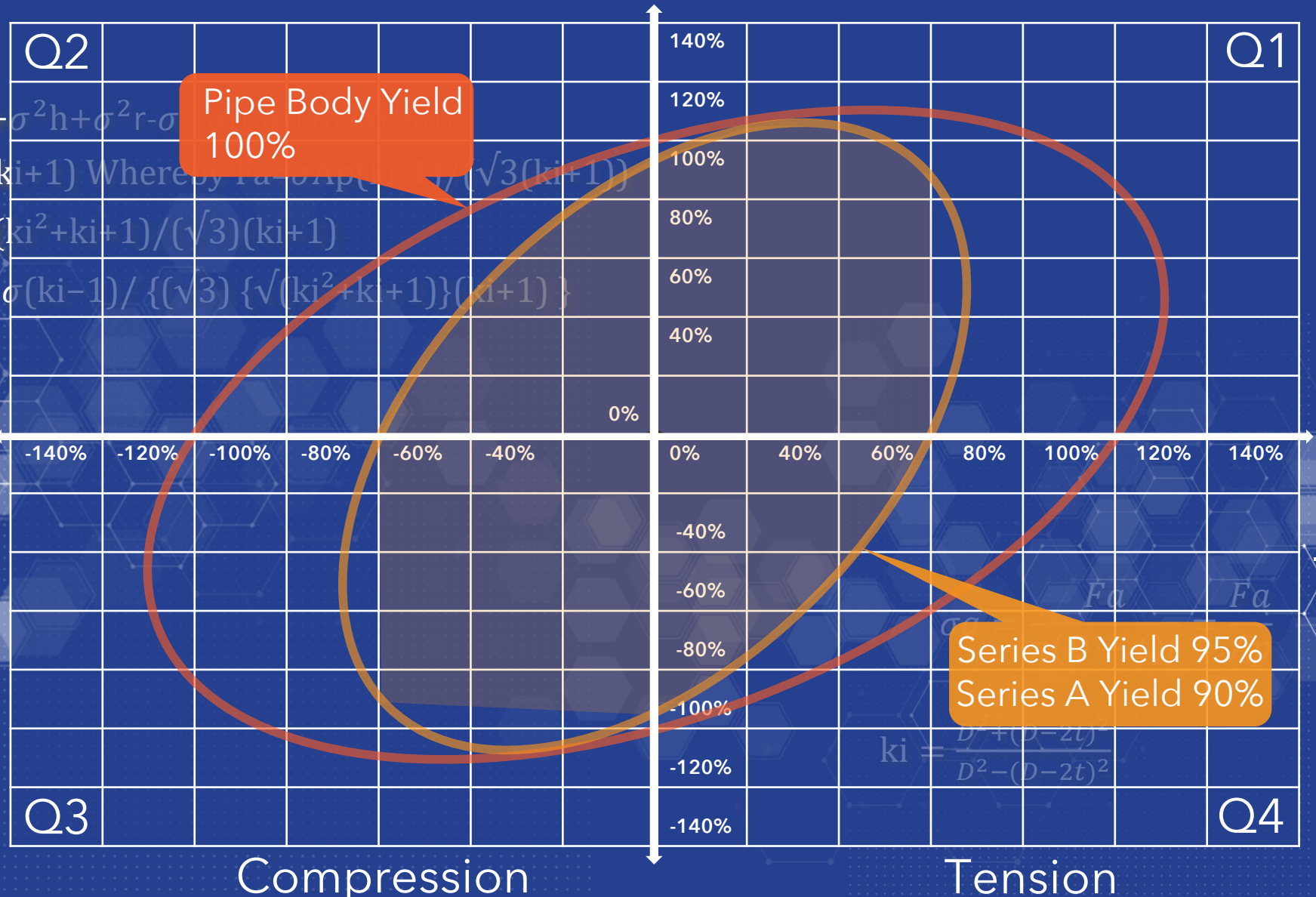
Combined Load Service Envelope CAL 1 API 5C5

$$\sigma V = \sqrt{(\sigma^2 a + \sigma^2 h + \sigma^2 r - \sigma^2 p)}$$

$$P_{i, max} = 2\sigma / (\sqrt{3})(k_i + 1) \text{ Whereby } p_i = \sigma / \sqrt{3}(k_i + 1)$$

$$F_{a, max} = 2\sigma A_p \sqrt{(k_i^2 + k_i + 1) / (\sqrt{3})(k_i + 1)}$$

Whereby $p_i = \sigma (k_i - 1) / \{(\sqrt{3}) \sqrt{(k_i^2 + k_i + 1)}(k_i + 1)\}$



Series B Yield 95%
Series A Yield 90%

Pipe Body Yield
100%

Series B : Internal Pressure and Bending Q1 and Q2.
Series A: Internal and external pressure all quadrants.

$$k_i = \frac{D^2 + (D - 2t)^2}{D^2 - (D - 2t)^2}$$



Applications

◆ CASING

- ◆ Liners
- ◆ Casing Repair
- ◆ Side Tracking
- ◆ Screens
- ◆ Special Clearance
- ◆ Premium Flush/Semi-Flush cutoff & rethread
- ◆ Disposal Wells

◆ TUBING

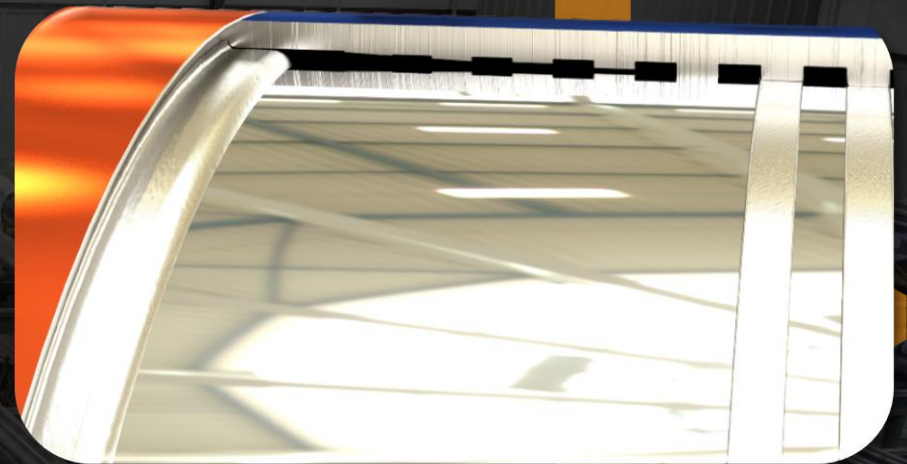
- ◆ Worn Upset Reclamation
- ◆ De-liquefaction
- ◆ Tail Pipe
- ◆ Wash Pipe
- ◆ Special Clearance
- ◆ Premium Flush/Semi-Flush cutoff & rethread

MORI SEIKI SL-603

FOR YOUR SAFETY
AUTHORISED PERSON ONLY



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OG PREMIUM FLUSH

QUESTIONS?

THANK YOU.

CONNECT WITH PRECISION TODAY.
713.678.8900