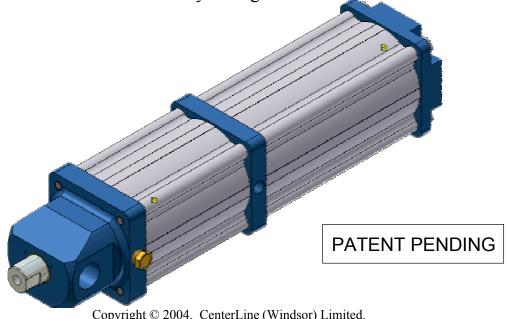
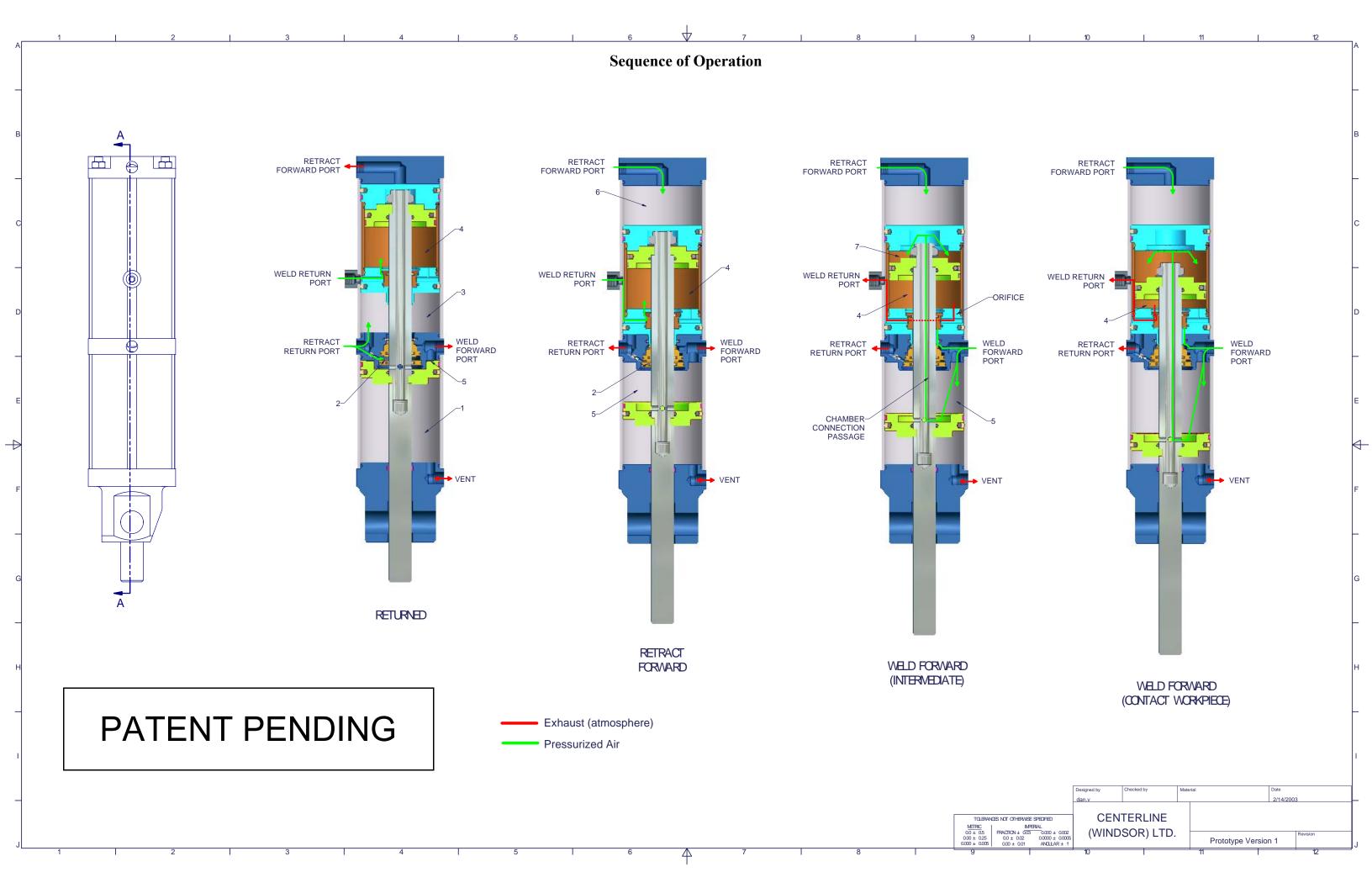


## **Second Generation STAAC**<sup>TM</sup> **Weld Cylinder**

CenterLine's ongoing quest for discovering and developing product improvements has resulted in a second generation STAAC<sup>TM</sup> cylinder. The second generation architecture was specifically developed to **meet and surpass the benefits and performance of the original** STAAC<sup>TM</sup> pneumatic cylinder. The new STAAC<sup>TM</sup> cylinder is designed with a **decreased overall length**, while maintaining the **soft touch (low impact) operation**. The new cylinder will be almost equal in length to pneumatic cylinders without soft touch operation. The updated offering now encompasses a **cushion feature that is effective at all points of the welding stroke**. Additionally, the second generation is available in a **standard four port configuration**. A **push action version in single or dual flange variations** will also be available. The second generation will always include the **retract feature** and can be easily configured and used as a non-retractable cylinder.

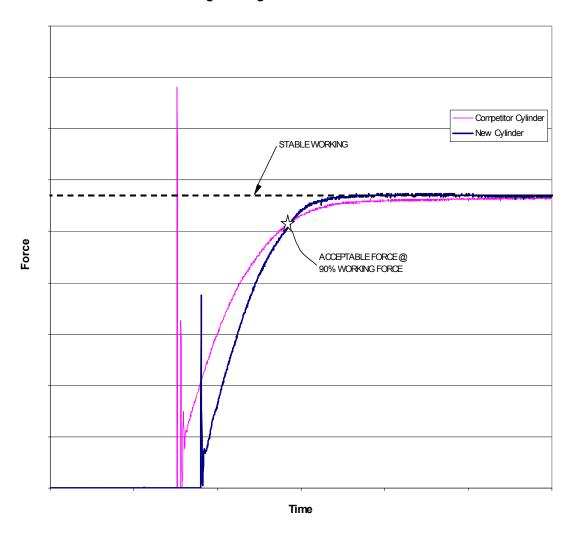






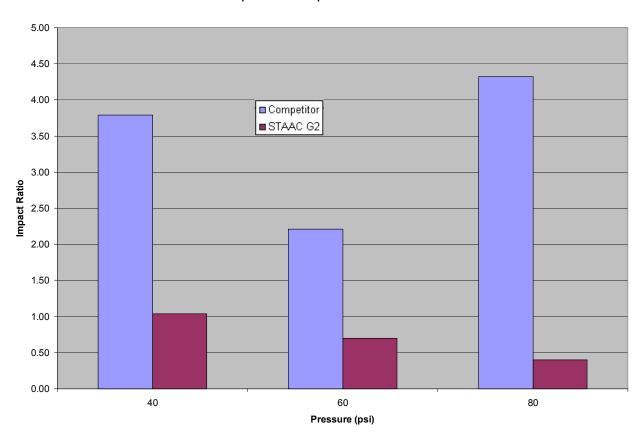
This chart represents a competitive cylinder versus a standard second generation STAAC<sup>TM</sup> cylinder. The STAAC<sup>TM</sup> cylinder takes longer to close, yet with a dramatically lower impact, still reaches an acceptable weld force at the exact same time as the competitor and actually reaches a stabalized true weld force at a faster rate.

## Welding/Working Force Versus Process Time





## Impact Ratio - Competitor vs. STAAC G2



This chart demonstrates the STAAC<sup>TM</sup> cylinder's exceptional advantage in regards to impact. The soft touch low impact enables feature significantly lower impact compared to the competition. It also illustrates that as the pressure increases the impact actually decreases, confirming that the STAAC<sup>TM</sup> cylinder is better suited for high pressure applications.