

# SAE-FITTINGS FOR HIGH PRESSURE CONNECTIONS

## Benefit from leak-free performance in high-pressure and high-vibration for fluid and gas handling applications

- **Markets:** Construction, Military Ground Systems, Aerial Lift, Agriculture, Material Handling, Military Marine, Machine Tool, Transportation, Alternative Energy, Off-Shore/Oil & Gas, Mining, Forestry
- **Application:** Hydraulic fluid and gas handling connections, hydrogen (SAE connections are mainly used in America and the UK).
- **Systems and processes:**  
O-Lok® and Triple-Lok®  
Parflange® Flaring process

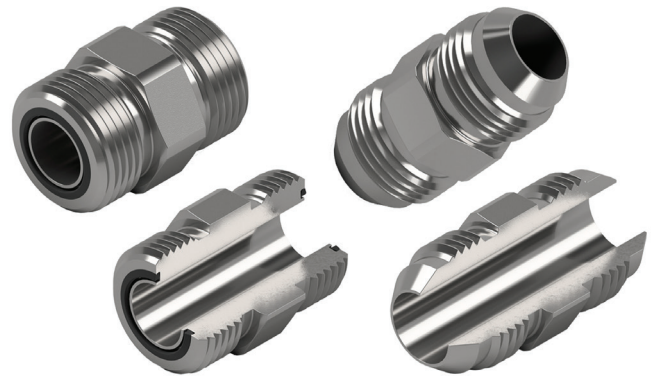
### Advantages:

- **Flexibility:** Fast tool changes and easy set-up make small batches economical to reduce WIP (work in progress) and inventory costs. The wide range of wall thicknesses and adaptability to inch tube, metric tube and hose, further supports a high level of flexibility.
- **Ease of assembly:** Lower tightening torque required for equivalent size threaded port, therefore smaller wrenches and wrench swing clearances needed, providing ease of assembly in tight quarters. Split clamps further facilitate disassembly process.
- **Superior vibration resistance:** Unlike conventional flaring, the Parflange® process results in a rigid connection of the O-Lok sleeve on the tube-end. Parflange®/O-Lok® connections perform much better under reversed bending stress conditions.

### Benefits:

- **Reduced costs:** The enhanced performance through TSP technology exceeds the SAE corrosion hour requirements for red rust, lasting up to 3,000 hours without red rust as found by an independent test facility (tested to ASTM B117/ISO 9227). This provides customers with a competitive advantage through less downtime and extended equipment life, leading to increased revenues and reduced warranty costs. Furthermore, orbital flanging is much less time and energy consuming compared to brazing or welding. Special tube preparation and finishing are not necessary and only a fraction of the energy needed for brazing or welding is needed, leading to reduced costs for volume manufacture by more than half.
- **Time saving:** 9 to 12 times the speed of comparable induction brazing thanks to patent-pending FastSeal connection technology, which is a new way to make fast, leak-free ORFS tube connections without brazing or

flange equipment.



Type	O-Lok® Metal seal bite type	Triple-Lok® Soft seal bite type
Sealing method	Elastomeric seal	Metal seal
Performance seal reliability	Excellent	Very good
Available sized (Tube O.D.)	Tube O.D. 6 to 50 mm Tube O.D. 1/4" to 2"	Tube O.D. 6 to 42 mm Tube O.D. 1/8" to 2"
Typical applications	General use in high pressure-hydraulic	General use in hydraulic, pneumatic, lubrication and coupling systems
	Mobile equipment Injection Molding Hydraulic presses Heavy machinery Ship building	Agricultural equipment Process engineering
Unique advantage	Zero clearance necessary ( easy maintenance)	Tolerates slight angular deviation during installation

#### Disclaimer:

Please note that the before-mentioned benefits are not specific for one Series only. Individual series may have other characteristics that lead to different benefits.

#### Interested?

Contact your local Parker Hannifin distributor today to learn more about how SAE fittings can elevate the performance and reliability of your hydraulic systems.

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