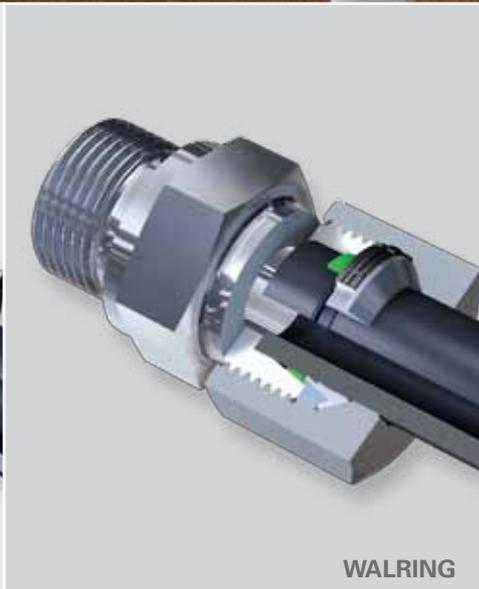


Eaton's Walterscheid Trilogy

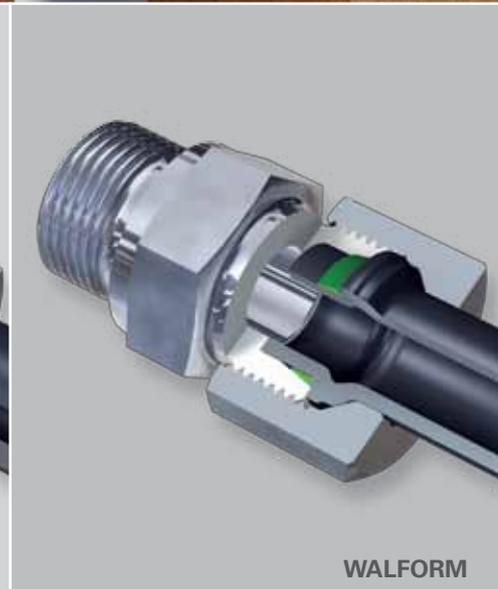
Tube connections for all hydraulic systems



WALPRO



WALRING



WALFORM



Powering Business Worldwide

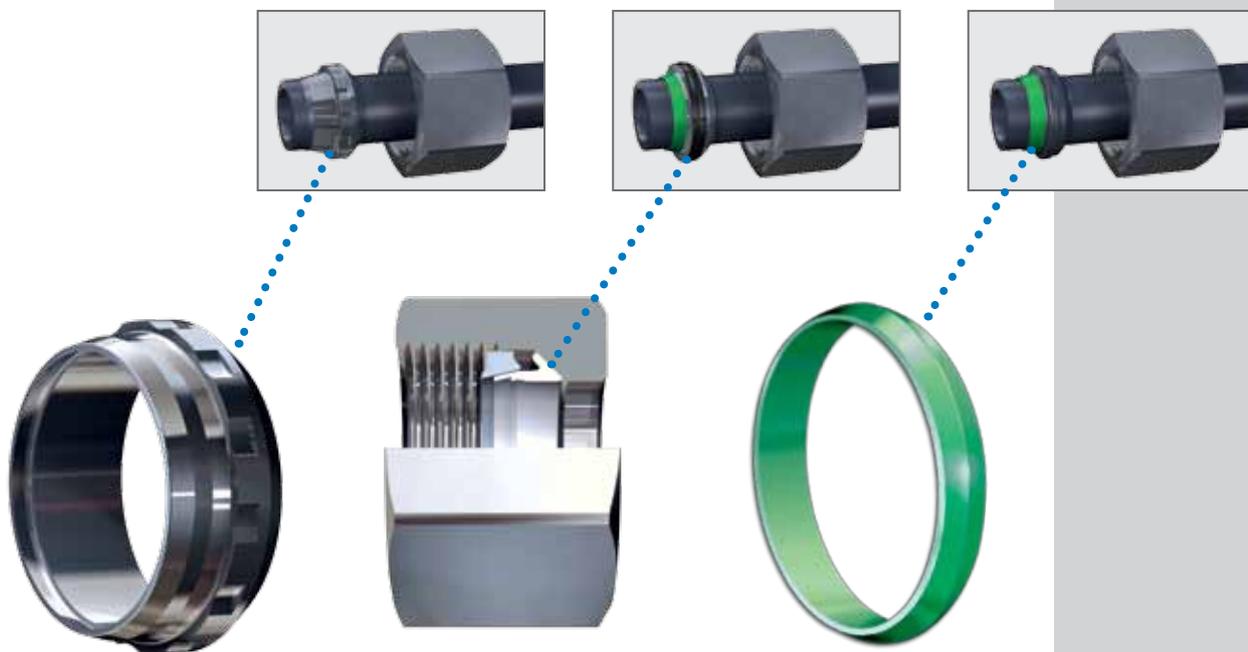
Eaton's Walterscheid Trilogy

- Simple final in service assembly with prefabricated tube ends
- Best in class performance
- Maximum system stability and safety
- Superior quality
- Global availability



Performance

- All parts built to DIN EN ISO 8434-1 for 24° fittings
- Available in 6-42 mm tube diameters
- Unsurpassed pressure resistance
- L Series up to 500 bar/7,250 psi
- S Series up to 800 bar/11,600 psi
- 4:1 Safety factor



WALPRO

WALRING

WALFORM

Technology

Two-edge cutting ring (profile ring), controlled final assembly

Two-edge cutting ring with captive seal, machine assembly

Cold reshaping of the tube end with captive seal

System features

Force closure, combined sealing and retaining functions

Force closure, separate sealing and retaining functions

Form closure, separate sealing and retaining functions

Sealing principle

Metal-on-metal

Elastomeric + Metal-on-metal

Elastomeric + Metal-on-metal

Prefabrication

Assembly machine

Assembly machine

Reshaping machine

Tightening travel for final in service assembly

30°–60° after controlled final assembly

30°–60° after machine assembly

Up to the point of resistance

Torque reduction

≈ 25% compared to manual assembly

≈ 25% compared to manual assembly of a cutting ring

> 25% compared to manual assembly of a cutting ring

Risk of assembly related failures

Minimal with controlled final assembly machine

Minimal with machine pre-assembly

Minimal

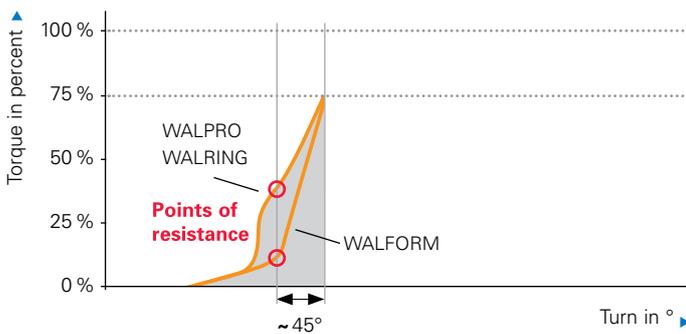
Which system for which application?



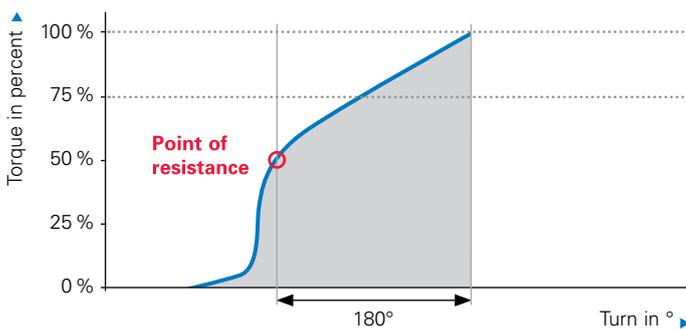
All three tube fitting systems of the Eaton Walterscheid Trilogy meet the requirements of the most demanding applications including those in the Agriculture, Alternative Energy, Construction, Manufacturing, Mobile Material Handling, Offshore & Marine, Oil & Gas, and Transportation industry segments.

Which system is best suited for your product or project, depends on many application variables including; final in service assembly access, required pressure resistance, fluid medium, external mechanical stresses, operating environment, acquisition cost, and operating conditions. Additionally, the final in service assembly and operational environment needs consideration. The Eaton Walterscheid Trilogy is engineered to deliver the best not only in terms of performance, but also in ease of installation.

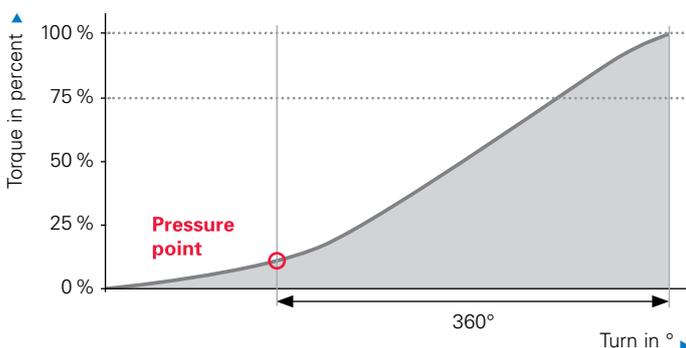
Final in service assembly after prefabrication (All Walterscheid systems)



Final in service assembly after standard pre-assembly (WALPRO)



Complete manual assembly (WALPRO)



The assembly factor

Assembly and reshaping machines minimize the installation error and effort

Improper assembly constitutes the greatest risk of failure with any tube interface. Exclusive Eaton Walterscheid machines create the optimum installation conditions reducing the risk of failure at point of final in service assembly. The Eaton Walterscheid Trilogy prefabrication solutions reduce the final in service assembly tightening travel to a maximum 1/6 of a turn, and required torque by 25%. This results in indisputable advantages for installation especially in confined spaces.

Unmistakable pressure points indicate the end of assembly

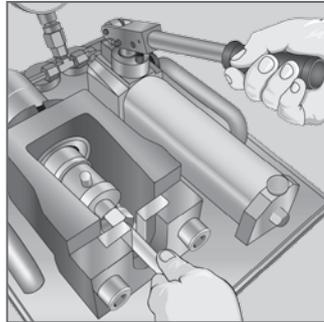
The cold reshaping of the tube itself (WALFORM), or the machine assembly of the two-edge cutting rings (WALPRO and WALRING), creates an unmistakable pressure point that clearly indicates the end of the assembly travel. Excessive or insufficient tightening is virtually impossible. This technology is engineered into each of the Eaton Walterscheid Trilogy systems offering maximum assembly reliability.

WALPRO and WALRING

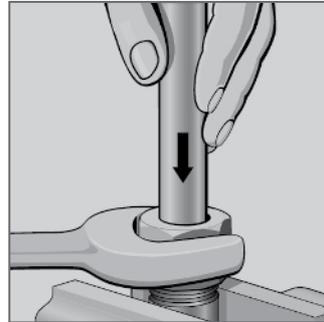
Assembly with the MEG-R6 offers optimised performance and installation advantages resulting in the short tightening travel and reduced force required at final in service assembly. However, manual assembly methods can also be used for low volume production, in the event of repairs, or if no power supply is available.



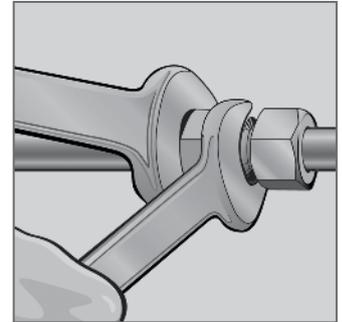
Fully automated assembly with the MEG-R6



Assembly with the MHH-R manual pre-assembly unit



Standard manual assembly using the pre-assembly adapter



Complete manual assembly in the fitting body



WALFORM

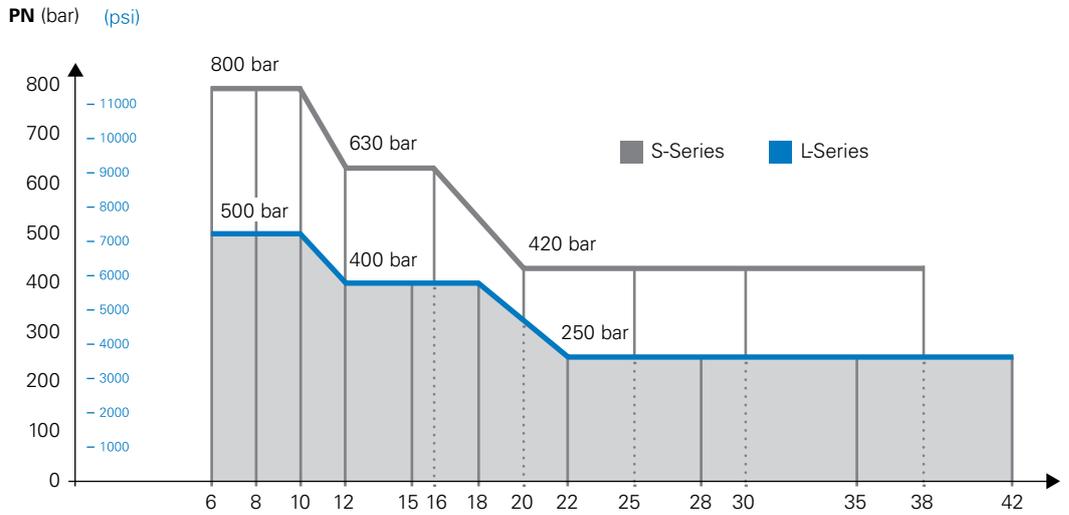
The WALFORM cold reshaping machine creates a profile ring in the tube itself resulting in the recognized pressure point felt during in service assembly.



The pressure resistance factor

L Series up to 500 bar, S Series up to 800 bar

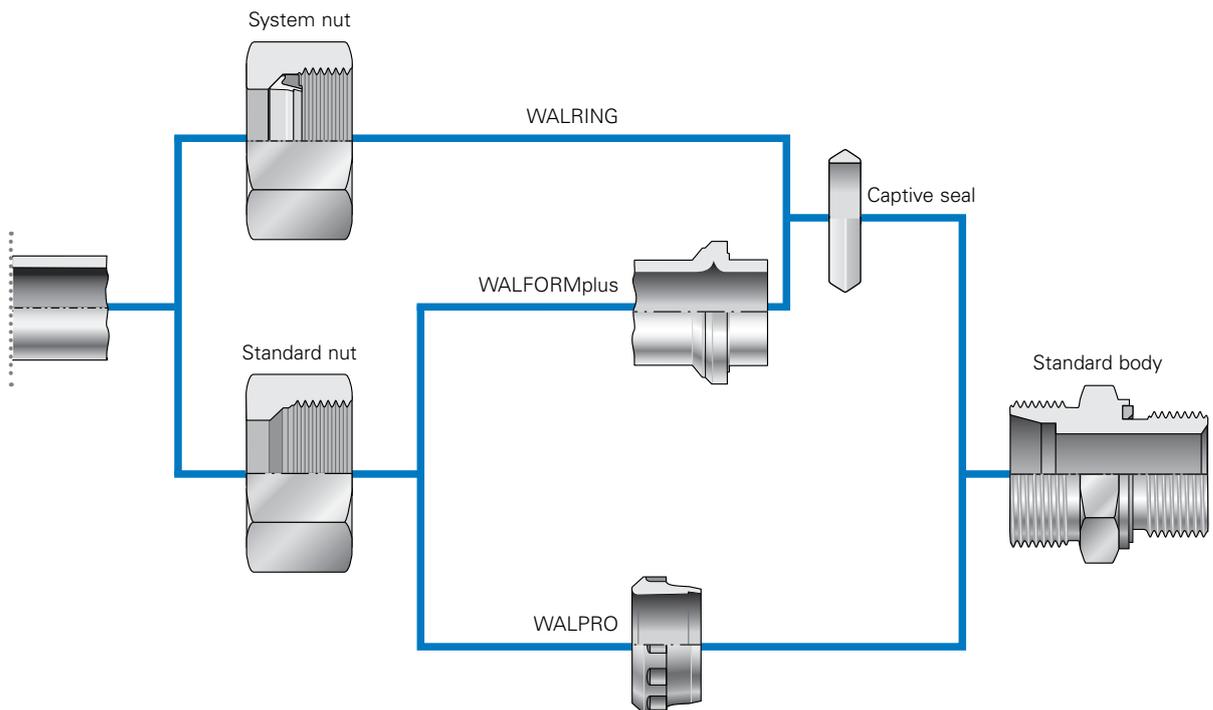
All the systems of the Eaton Walterscheid Trilogy withstand the highest pressures and are available in both the L Series and the S Series.



The component factor

Globally available DIN parts

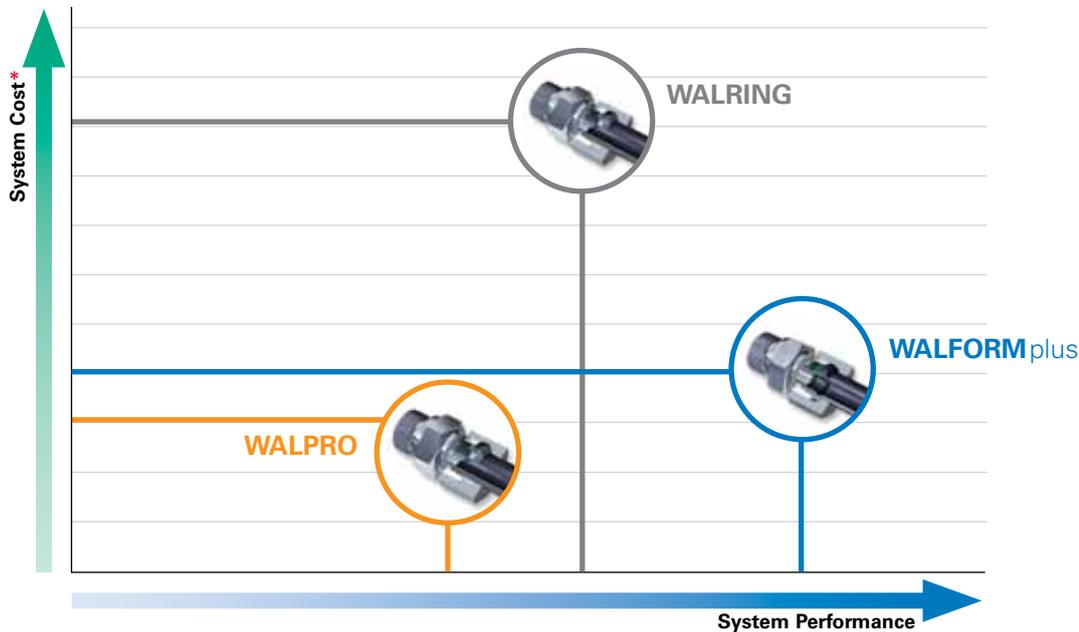
All three systems adhere to the principle of using commonized parts, offering inventory and logistical advantages. The Eaton Walterscheid Trilogy is based on globally available DIN/ISO bodies and nuts.



The cost and performance factor

Quality and reliability are priceless

Eaton Walterscheid offers high-performance tube fittings at competitive prices – that pay for themselves by minimizing the risk of failure. The associated system cost and performance differences of the Eaton Walterscheid Trilogy compare as follows:



*The one-off acquisition costs for the machines were not taken into account.

Eaton Walterscheid services



- Proposals for optimising stocking strategy
- Solutions for critical installation conditions and applications involving the most stringent safety requirements
- Answers relating to the selection and installation of tubing
- Assistance with trial tubing
- Training of assembly staff
- Multiple inventory management services

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