

**Mounting Instruction  
for pneumatic actuator  
on Clorius valves**

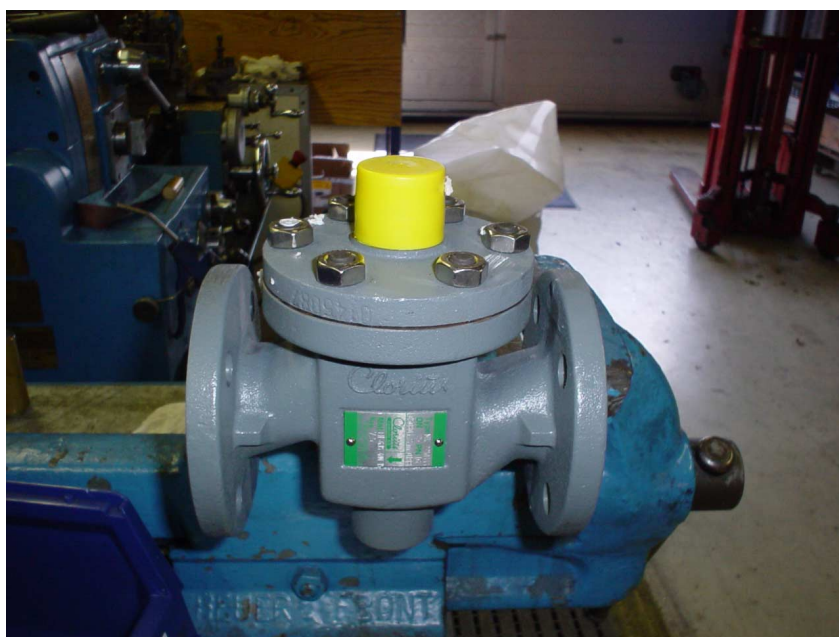


Fig. 1. Valve with protection cap

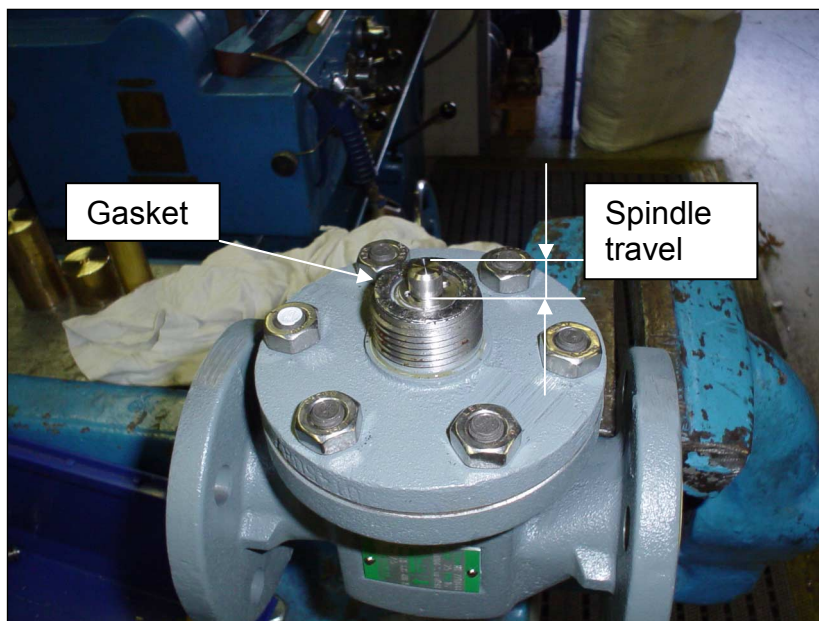


Fig. 2. Valve with gasket ready for assembly of actuator

- The travel of the valve spindle to be measured and verified on the datasheet.

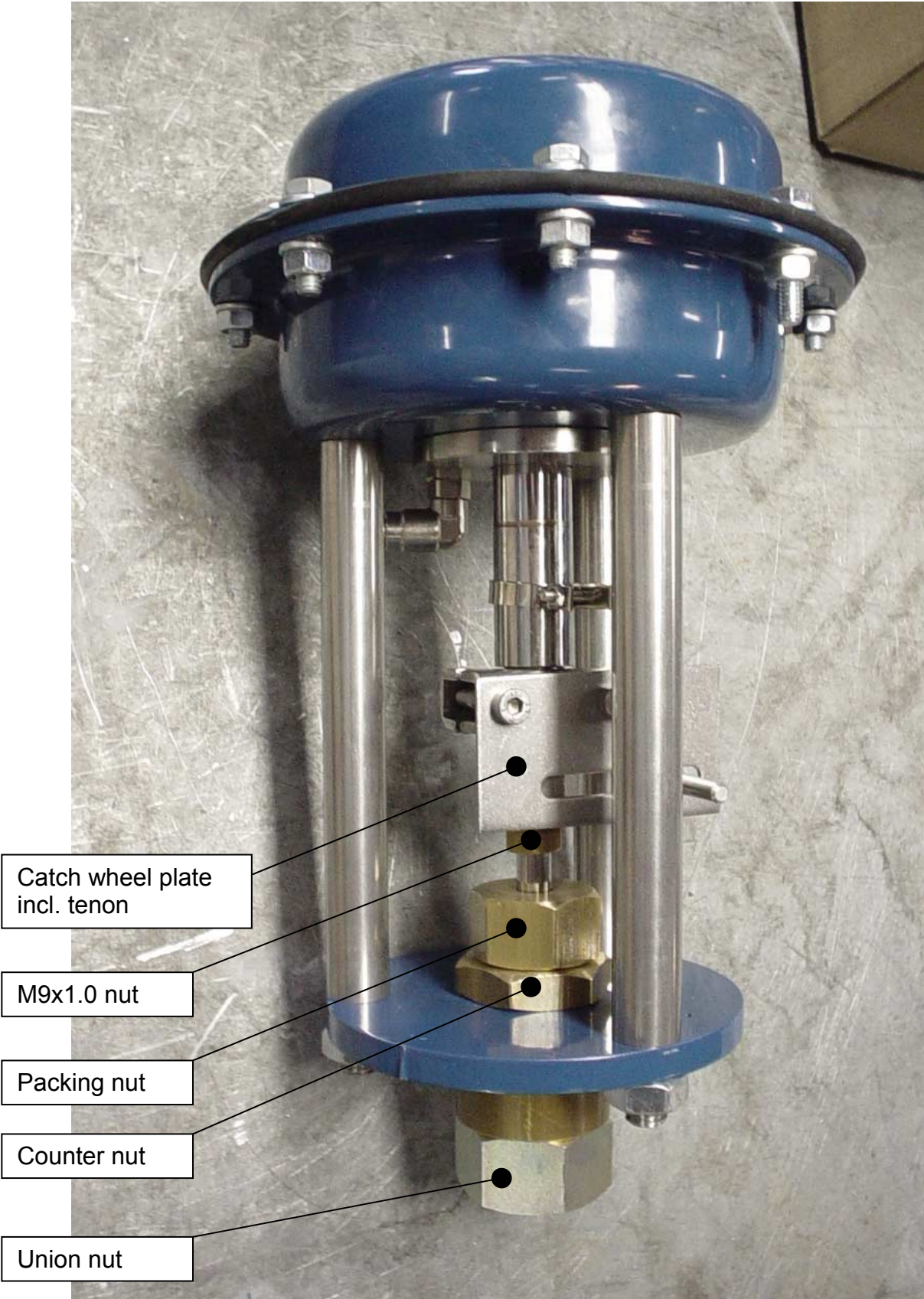


Fig. 3. Actuator with stuffing box and catch wheel plate (and tenon)

- The actuator is mounted on the valve with the gasket, and the union nut is tightened (fig. 4).



Fig. 4

- The actuator is turned till the catch wheel plate is facing the direction from which the positioner is operated. The counter nut is tightened. It is important that the valve closes completely, which is the case if the actuator spindle is lifted a little (1-7 mm) as the counter nut is tightened. If the actuator spindle is not lifted, loosen the coupling, loosen the M9x1,0 nut, then unscrew the adjusting collar from the spindle until the actuator spindle is lifted 1-3 mm. The M9x1,0 nut and the coupling is tightened.
- The packing nut is tightened completely and then loosened  $\frac{1}{4}$  turn (fig. 5).

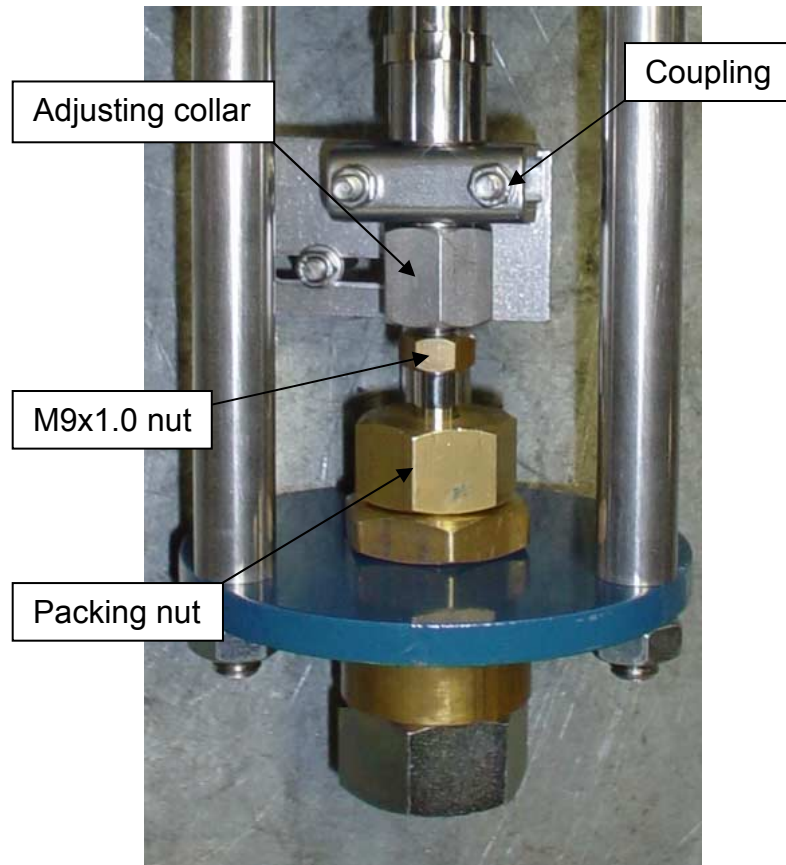


Fig. 5

- The positioner is mounted with the gauge in horizontal position (fig. 6).

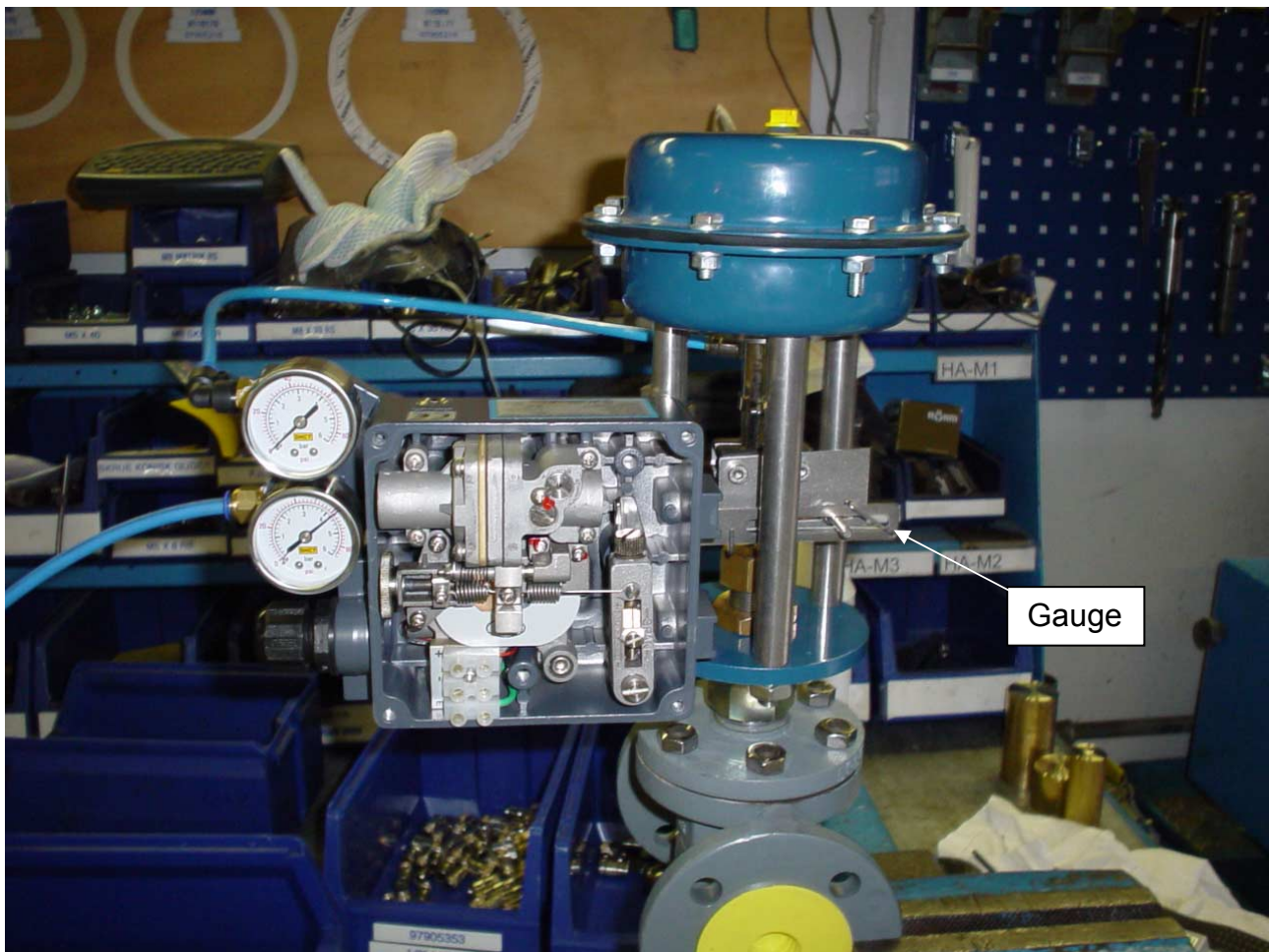


Fig. 6

- Air is connected: upper connection is for the actuator, and the lower connection is the supply.

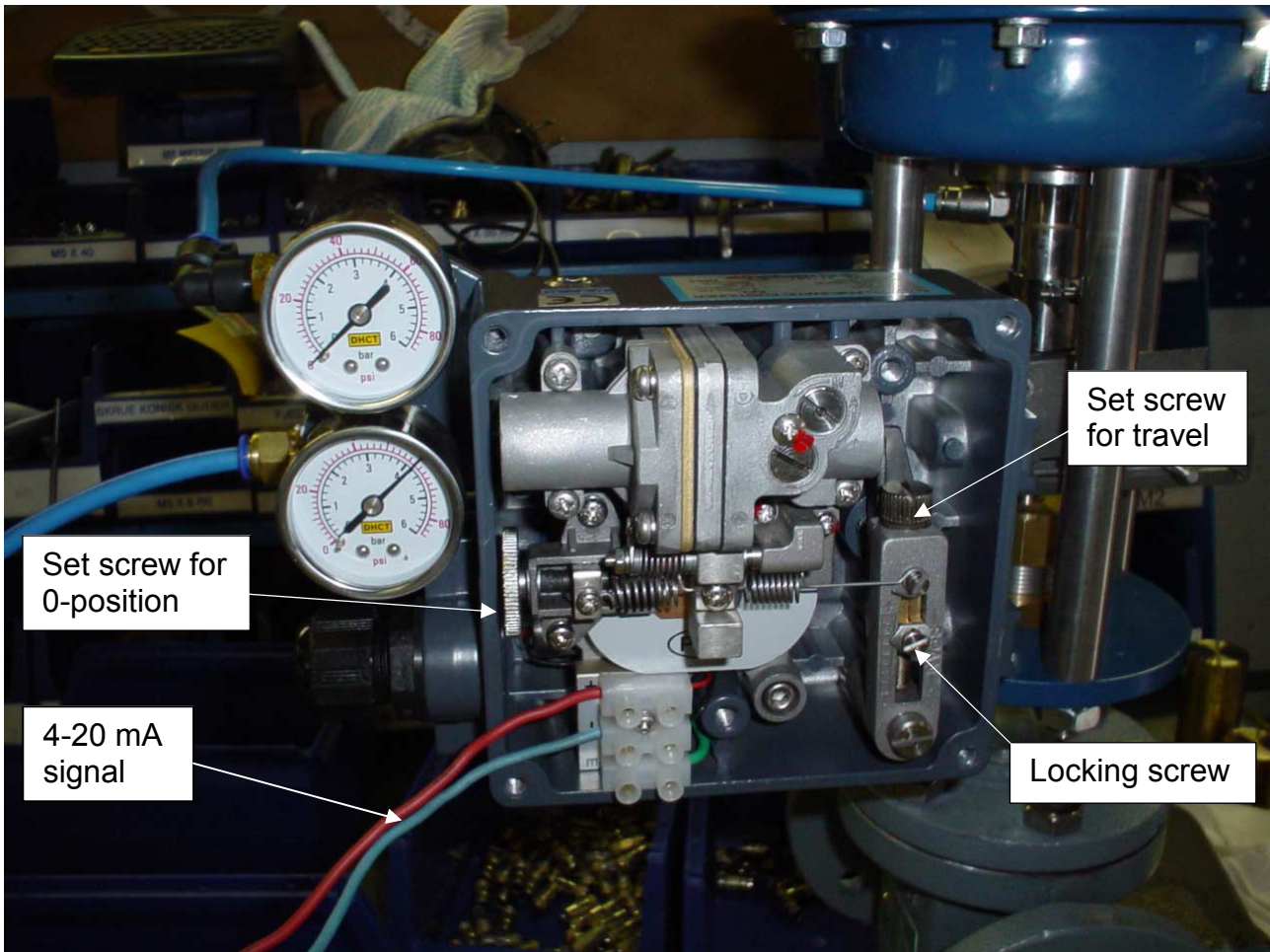


Fig. 7

- Adjustment of the actuator: control signal is connected (4-20 mA), supply air is adjusted to 4 bar.
- Adjusting the 0- position: the signal is set to 4 mA, the set screw is turned clockwise until the positioner is just about to supply air to the actuator (upper manometer to show 0 bar).
- Adjusting the valve spindle travel: the signal is set to 20 mA, the locking screw is loosened  $\frac{1}{4}$  turn, and the set screw for adjusting the valve spindle travel is turned clockwise until the actuator has opened the valve spindle travel (the valve spindle travel must be measured before assembling valve and actuator). If the actuator has opened too much, the set screw is turned anti-clockwise. The locking screw is tightened again.
- Check that the actuator is "air free" at 4 mA (0 bar on upper manometer). Check that the actuator has opened the whole travel of the valve spindle at 20 mA.
- Mount the lid of the positioner.



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