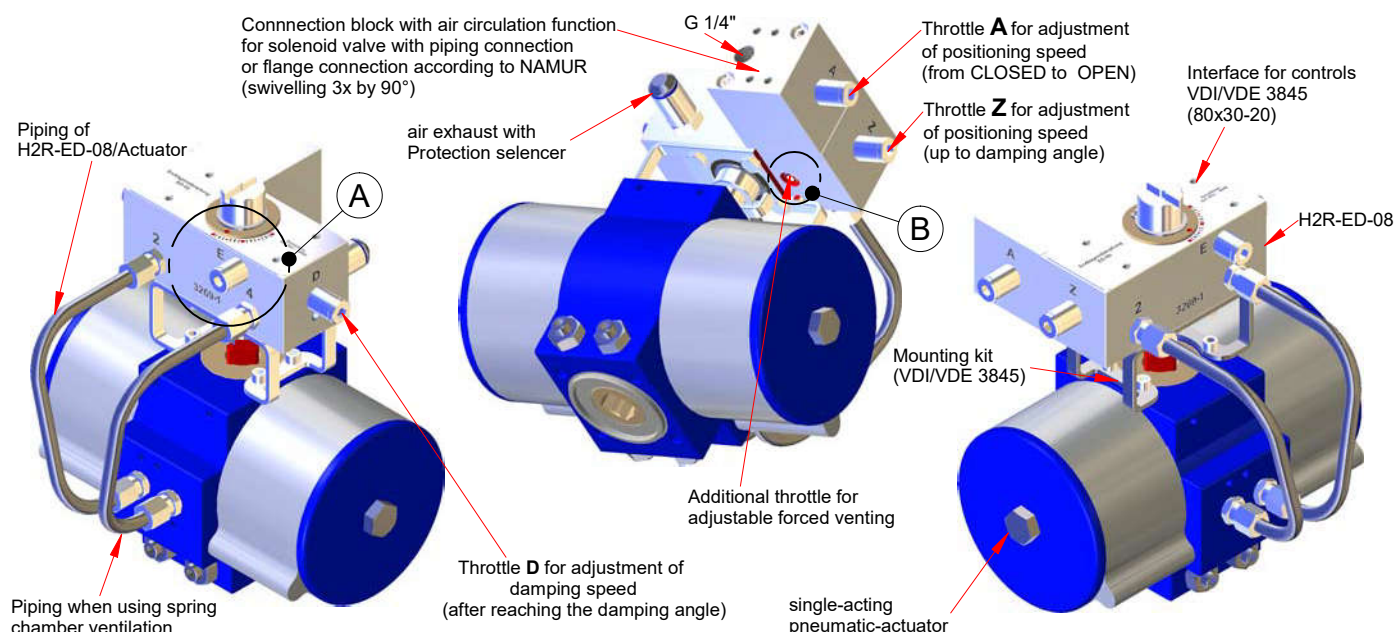


End position damping with freely selectable adjustment option of the damping path and the damping speed in end position for single-acting pneumatic actuators of type H2R-ED-08

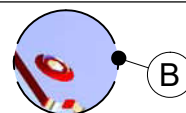


Mounting / Commissioning

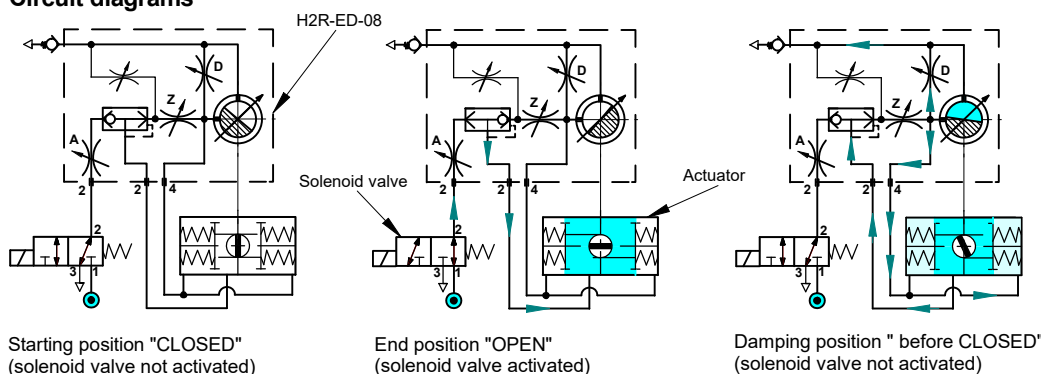
The end position damping is mounted on top of the actuator using a mounting kit according to standard NAMUR VDI/VDE 3845 (NAMUR=German User Association of Automation Technology in Process Industries-standard - 3845-VDI=Association of German Engineers / VDE=German Association for Electrical, Electronic & Information Technologies).

1. Fasten the H2R-ED-08 control on top of the actuator by means of a mounting kit according to VDI/VDE.
2. Attach a suitable pipe or hose coupling between connection **2** at the end position damping and connection **2** at the pneumatic actuator
3. When using the spring chamber ventilation, attach a suitable pipe or hose coupling between connection **4** at the end position damping and connection **4** at the pneumatic actuator.
4. Mount or connect a control (solenoid) valve to the connection block of the ED-08.
5. Loosen the locking screw (at inlet **E**) and adjust the desired damping angle by turning the adjusting screw behind with an Allen key (SW5).
6. Loosen the locking screw (at throttle **D**) and adjust the desired positioning time of the end position damping by turning the regulator screw behind with an Allen key (SW4).
7. Switch on the solenoid valve (the actuator runs from the starting position to the specified end position undamping).
8. Switch off the solenoid valve (the actuator runs in the direction of the starting position up to the adjusted point of the desired damping phat undamped. From there, the actuator runs to the starting position with the damping speed adjusted).
9. If a specific positioning time from the end position up to reaching the damping angle is desired, this can be adjusted via throttle **Z**. A specific time from the starting position to the end position can be adjusted via throttle **A**. (Please refer to procedure for adjustments at throttles **Z** & **A** as described under item 6.)

10. To ensure the availability of a safety-related positioning element (such as safety position "Closed"), there is an option of forced venting of the entire system via an adjustable exhaust throttle. The desired venting time can be adjusted by authorised personnel with a regulator screw (Allen key SW3, bottom ED-08) as shown in detail "B".



Circuit diagrams



Template with scale as a guide for adjusting the damping angle

