

6.20.4. Electropneumatic Positioner Type 3730-3 with HART® communication ESD version

The shutdown function in the event of emergency can also be implemented with the positioner certified acc. to IEC 61508.

Emergency Shutdown (ESD) is a positioner function with extended firmware and partial stroke testing for the predictive, status-oriented detection of malfunctions in pneumatic shut-off valves in **safety instrumented systems (SIS)**. The testing and diagnostic functions are completely integrated into the positioner.

ESD functions can be parameterized and the test results can be read on site at the positioner and over SSP (SAMSON interface protocol) and HART® communication interfaces. The user interface is integrated into TROVIS-VIEW software and FDT/DTM engineering tools, which makes operation easier to learn.

TROVIS-VIEW: Operator interface to configure and parameterize various SAMSON devices

FDT: Field device tool for the manufacturer-independent integration of field devices

DTM: Device type manager to describe the device properties

DD: Device description for integration into process control systems and asset management systems.



Figure 6.20.4.-1: Positioner and pneumatic rotary actuator

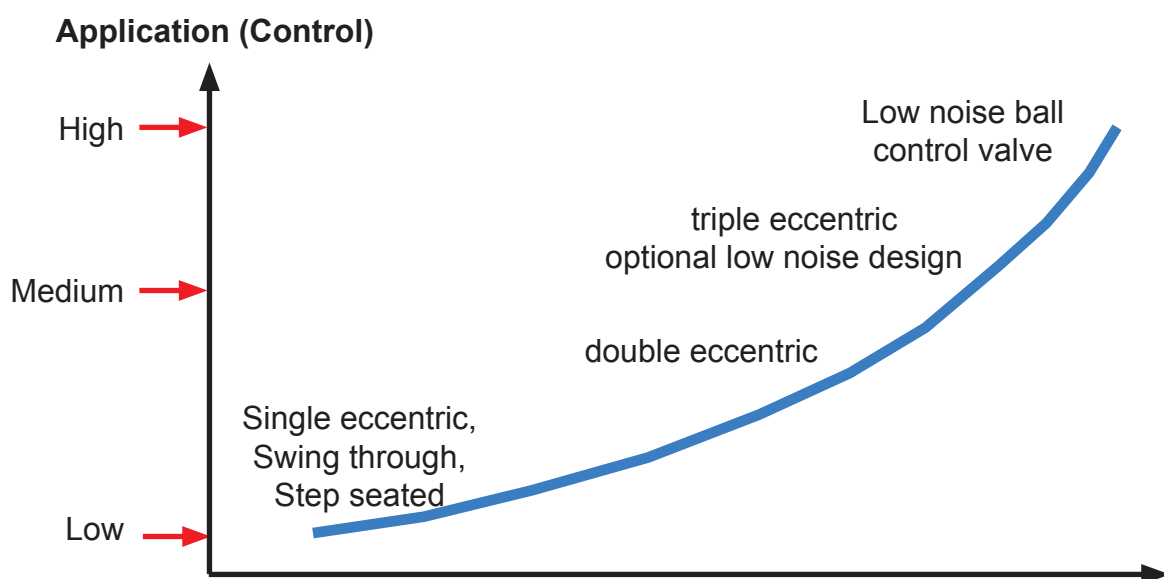


Figure 6.20.4.-2: Application