

PACT*ware*TM

Positioner
features

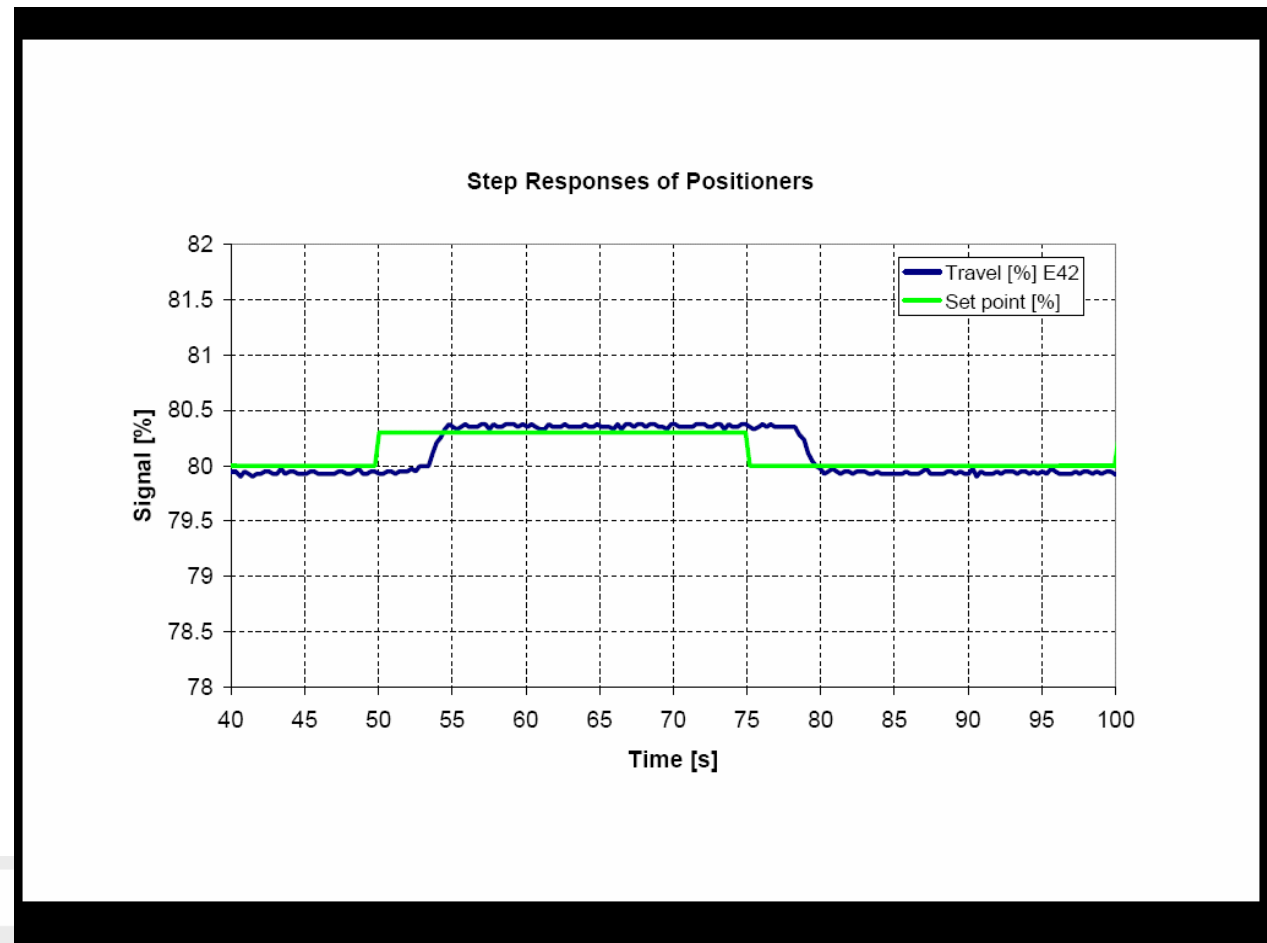
Step response

Partial stroke



Customer requirements

- Process requires extremely quick response:
50% valve travel in 2 sec. with 0% overshoot
- At the same time:
0,1% accuracy
in 10 sec.





Required hard-ware

- Quick response tends to overshoot
- Advanced pneumatic system necessary
- Still it takes extended research and testing
- Step response function replaces external sensors: DTM shows the results (and enables the client to verify the quality!)

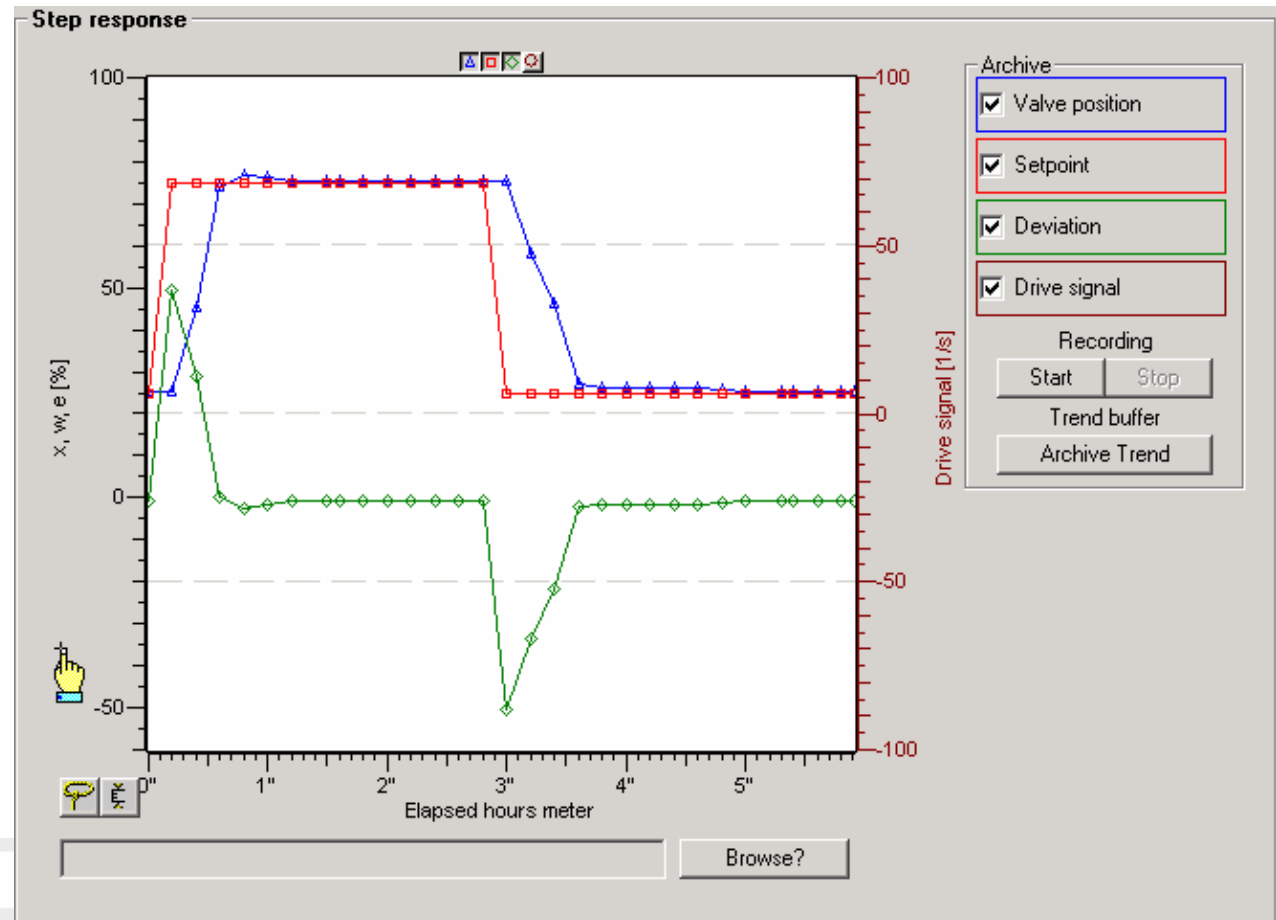




Step response in DTM view

- Enter step boundaries
- Start the test
- Load from device

- Get graph and detailed evaluation

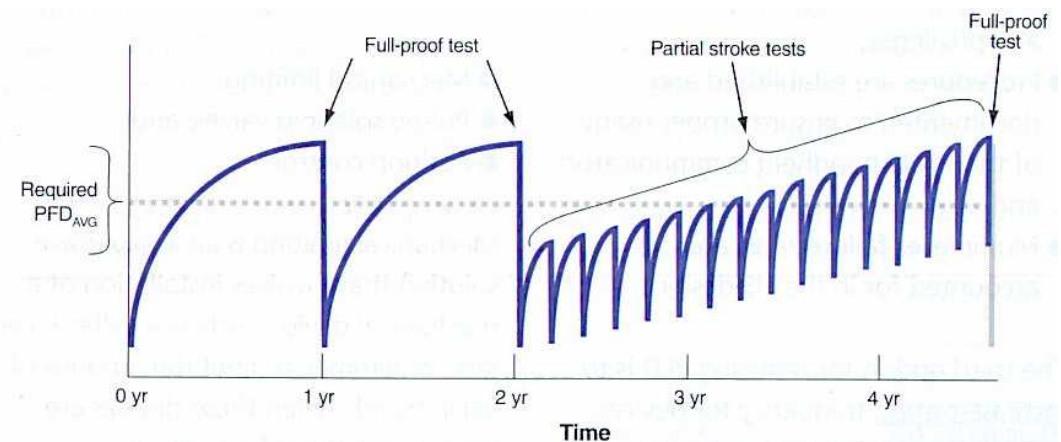
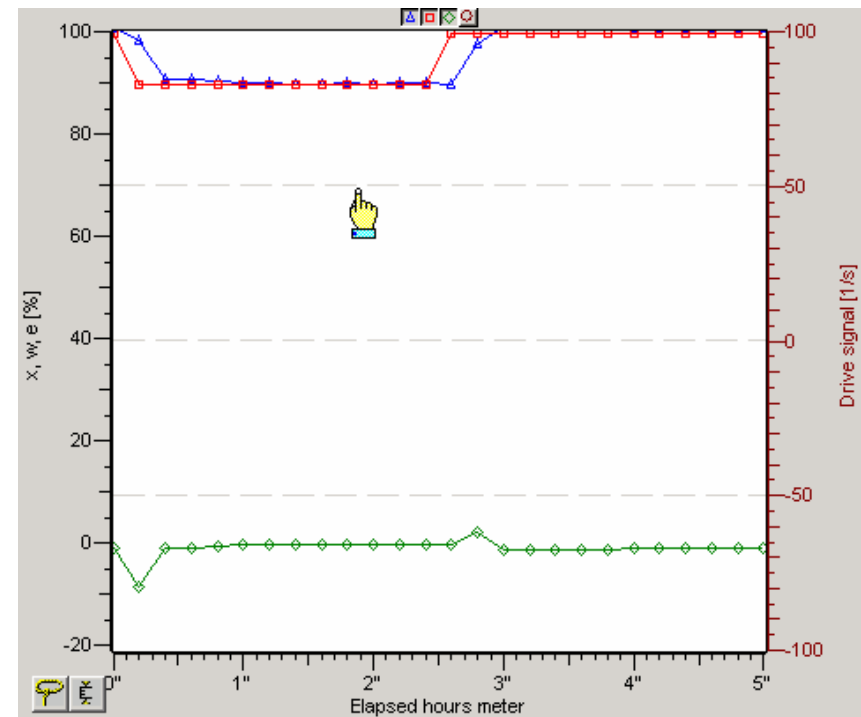




Integrated partial stroke test (PST)

- Partial stroke test without shut-down (typically: between 100 and 90 %)
- Frequently at fixed test intervals
- Ramp function with selectable slope
- Protects against overshoots due to friction
- Avoids stucked safety valve (e.g. corrosion, sedimentation of medium)
- Goal: Less full-proof tests, longer production periods

$$\text{PFD}_{\text{avg}} = \frac{1}{2} * \lambda_{\text{du}} * T_i$$





Bopp & Reuther
Messtechnik GmbH



VEGA

tyco / *Flow Control*



TM

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