

PRODUCT INFORMATION**SLOTTED LINK OPTION**

The “slotted link” option is one of the most misunderstood features offered on a Heise product; perhaps because its name describes its form rather than its function.

The main link connects the Bourdon tube tip assembly to the microslide/sector gear assembly. It is through this connection that deflection of the Bourdon tube (due to pressure input) results in actuation of the movement and pointer. The standard “solid” link serves as a rigid connection which guarantees that the movement and pointer respond instantly to both upscale and downscale changes in pressure.

In most applications, instant pointer response in both directions is a desirable attribute. However, in burst or tensile testing applications, the immediate release of pressure may cause damage to the movement of the gauge. As the Bourdon tube “snaps” back to its zero position, it will “yank” the movement in unison, which will eventually result in damage to the gear teeth, damage to the calibration adjustments or pointer slippage.

By replacing the “solid” link with a “slotted” link (and reversing the hair spring), pressure input may be instantly released without harm to the movement. The long slot in the link allows the movement to ease back to zero under hair spring power alone, independent of the Bourdon tube. This design allows the slotted link to protect the movement in the downscale direction only. The gauge will not be protected against damage due to sudden increases or surges in pressure. The slotted link may increase the potential for “pointer bounce,” especially on 12” and 16” gauges and, therefore, is not recommended in applications where pressure pulsation or excessive vibration is prevalent. The slotted link is available on all Heise dial gauges except straight vacuum gauges or gauges with a range of 15 psi absolute or equivalent.

In the right applications, the slotted link is an extremely important option to customers who may otherwise cause damage to their valuable Heise gauges.

