

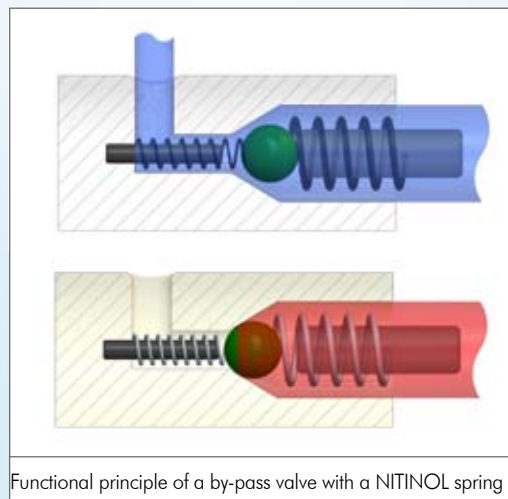
SMART ACTUATORS MADE OF NITINOL

Nickel-Titanium-Alloys with a specific chemical composition show a Shape-Memory-Effect which can be used to directly convert thermal energy into mechanical energy. Thermal actuators react to temperature changes with a shape change and thus combine sensor and actuator in a single unit.

Shape memory actuators exhibit displacement/temperature characteristics similar to those of thermostatic bimetal snap action disks, yet provide much higher work output. This allows the design of actuators which are highly effective and space saving.

We have many years of experience in the design and engineering of thermal actuators and can provide custom-made solutions.

We supply compression, tension, bending and torsion elements in various configurations, e.g. wire segments, cantilever beams and coil springs. Thermal actuators are mass-produced for the automotive and appliance markets. However, small series for niche products are also possible.



Functional principle of a by-pass valve with a NITINOL spring

For further information and / or technical details please contact:

Dr. Jochen Ulmer
Director Sales
Phone +49(0)7231.208.505
jochen.ulmer@euroflex-gmbh.de

Rudolf Möller
Sales Manager
Phone +49(0)7231.208.205
rudolf.moeller@euroflex-gmbh.de