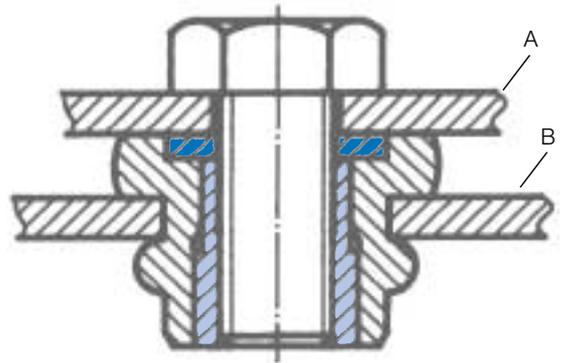


## RIVKLE® Elastic Fasteners for vibrating components

### The principle:

RIVKLE® Elastic is an easy to install fastener, which allows vibrating components to be attached and provides damping at the same time – useful for preventing the transfer of noise. In addition, it provides an electrically insulated screw connection between components A and B.

The fastener consists of a threaded metal insert and a supporting component made of thermoplastic elastomer. The threaded metal insert, in this case brass, is extrusion coated with EPDM-X+PP. The RIVKLE® Elastic fastener is inserted into the mounting hole from the front face of the workpiece. The clamping nodules prevent the fastener from falling out before assembly is completed. As only the bottom part of the brass insert is attached to the elastomer, when a screw is inserted and turned the elastomer forms a bulge, which presses against the underside of the supporting workpiece.

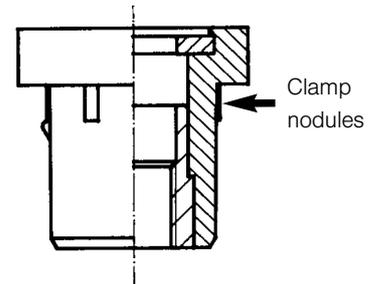


If component A is made from steel with a screw hole in accordance with DIN ISO 273, then RIVKLE® Elastic should be used without a washer. For a component made from plastic or aluminium, or steel with an elongated hole it is preferable to use RIVKLE® Elastic with a washer.

A clamping torque can be specified to suit the compressive strength of the connection components.

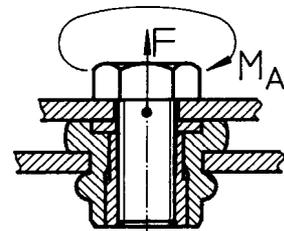
### Advantages:

- can be installed from one side
- absorbs vibrations and dampens the associated noise
- provides thermal and electrical isolation
- a non-positive screw fastening (with metal/metal bearing surfaces) providing the required screw security from the application of a clamping torque



### Technical specification:

The clamping torque  $M_A$  depends on the connected materials and the strength class of the screw. The clamping torque and the axial proof load  $F$  should be tested for each application and adjusted to suit the specific requirements.



### Resistance to thermal ageing\* of the elastomeric part (TPV)

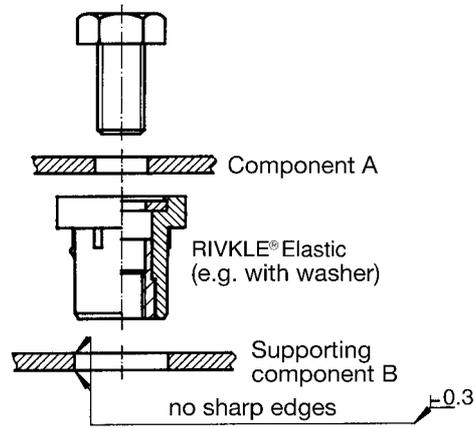
Test-temperature °C	Ageing time, days	100 %-modulus **		Tensile strength at failure **		Hardness Shore A *** 5 sec Alteration
		MPa	% Res	MPa	% Res	
125	41,7 (1.000 h)	2,4	104	6,8	113	+2

\* Thermal ageing in air oven

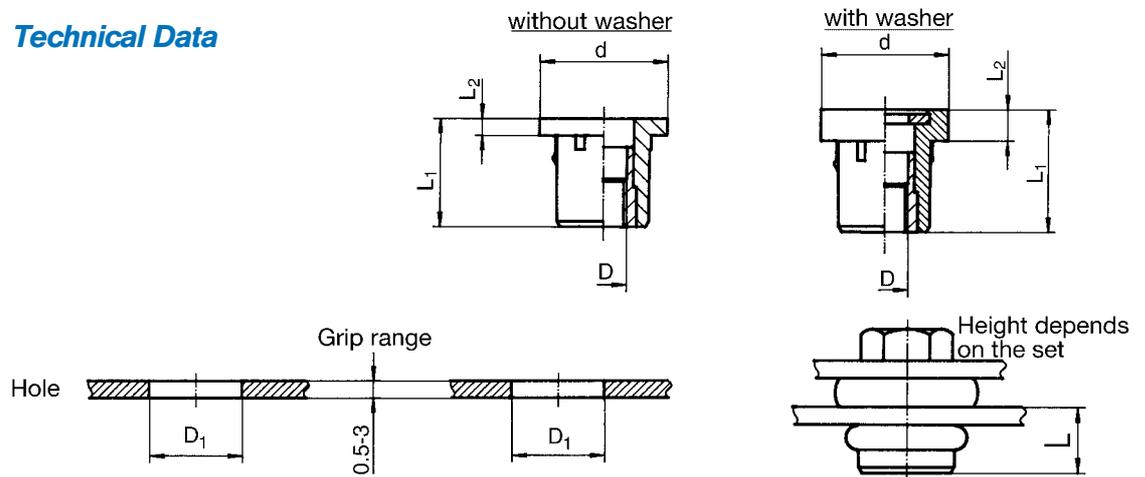
\*\* Stress/strain, ASTM D 412;

\*\*\* Hardness, ASTM D 2240

% Res = % retention of mech.properties



**Technical Data**



Product code	Configuration	D	d	L <sub>1</sub>	L <sub>2</sub>	Hole D <sub>1</sub>	Set height L
2430 004 0300*	without washer	M4	15	15.5	1.5	10.3 + 0.2	9
2431 004 0300	with washer	M4	15			10.3 + 0.2	9
2430 005 0300*	without washer	M5	15	15.5	1.5	10.3 + 0.2	9
2431 005 0300	with washer	M5	15	17.7	3.7	10.3 + 0.2	9
2430 006 0300*	without washer	M6	18	17.0	2.0	13.0 + 0.2	10
2431 006 0300	with washer	M6	18	19.3	4.3	13.0 + 0.2	10
2430 008 0300	without washer	M8	22	19.0	3.0	16.0 + 0.2	11
2431 008 0300	with washer	M8	22	21.6	5.6	16.0 + 0.2	11

\* on request

**Applications**

**Automobile industry**

- Fastenings for filter housings, covers, etc.

**General industry**

- Fastening of fan motors
- Electrostatic isolation of circuit boards
- Attachment of sensitive measuring instruments, switch cabinets, etc.

Example: carbon filter for cars

