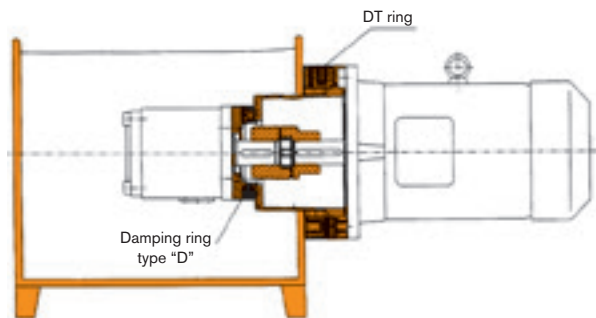
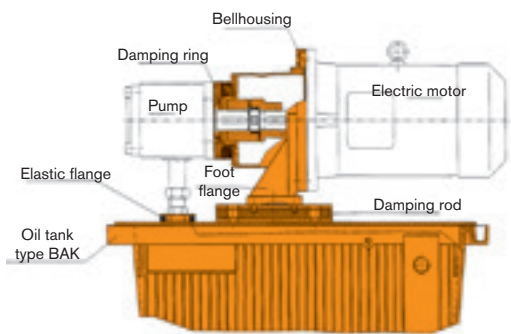


Damping elements



KTR has a sound measuring room integrated in the R + D test center allowing for low-reflecting testing conditions. Comparative measurements are performed on a realistic hydraulic power pack to test and optimize the efficiency of KTR damping elements. In addition to stationary measuring in the laboratory the efficiency of the damping measures used can be proven locally.

Examples of application



Potential noise reductions compared to the rigid arrangement:

- | | |
|--|------------|
| a) Damping ring only: | 3 – 6 dBA |
| b) Damping rod only: | 3 – 4 dBA |
| c) Damping ring and damping rod: | 6 – 8 dBA |
| d) Damping ring, damping rod and elastic flange: | 7 – 10 dBA |
| e) Damping ring type DT/DTV: | 3 – 6 dBA |
| f) DT/DTV damping ring and damping ring: | 6 – 8 dBA |

Efficiency:

The efficiency of the KTR damping elements is based on the reflection of the structure-borne noise vibrations by means of the vulcanized, non-prestressed rubber layer in the acoustic frequency range from about 200 Hz. The reduction of the structure-borne noise vibrations causes a reduced radiation of the airborne noise produced by the power pack.

Result of a noise measurement

Test data:

Electric motor: Rotary current asynchronous 180M
18,5 kW, n = 1450 rpm
type B 3 / B 5

Pump: Axial piston pump

Coupling: ROTEX® 42 - 92 Shore A

