Dashpots

ROTARY DASHPOTS

Kinetrol rotary dashpots

Kinetrol rotary dashpots are precision fluid damping devices which give a smooth resistance to shaft rotation which increases with angular velocity. Two types of dashpot are available to suit a wide range of applications.

Vane dashpots

Vane dashpots give a restricted travel and high damping rate suitable for applications with reciprocating motions.

Continuous rotation dashpots

Continuous rotation dashpots give less damping rate but unlimited travel.

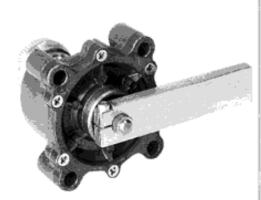
- Silicone Fluid (Polydimethyl Siloxane DC200 or equivalent)
 Silicone fluid is used as the damping medium because of its stable viscous properties. Dashpots are normally vacuum filled and sealed for life.
- □ Rigorous 100% inspection

Kinetrol's rigorous quality programme, approved to ISO 9002, ensures that each unit is manufactured to high standards. Every dashpot is tested to ensure that it gives the specified rate.



Certificate No. FM 22163

VANE DASHPOTS



Angle of travel:

60° (model KD)

215° (model LA)

240° (model LB)

Maximum torque:

28 Nm (model KD)

40 Nm (model LA)

160 Nm (model LB)

Maximum rate:

450 Nm/rad/s (model KD)

300 Nm/rad/s (model LA)

400 Nm/rad/s (model LB)

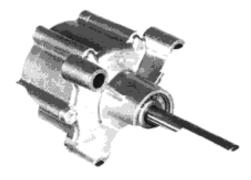
Adjustable versions

The vane dashpot is a displacement damper. As the vane on the shaft rotates between fixed vanes on the body, silicone fluid is displaced



through controlled clearances from one side of the vane to the other. Damping can be in both directions or valves can be fitted to give damping in one direction only. On the KD unit, shaft sealing is by a cylindrical rubber seal which is bonded both to the shaft and to the body to give a hermetic seal. The LA and LB dashpots use a lip seal.

CONTINUOUS ROTATION DASHPOTS



Unlimited travel

Effective rate:

up to 20 Nm/rad/s (T-CRD)

Adjustable versions

Continuous rotation dashpots give viscous damping by shearing thin layers of silicone fluid between the concentric surfaces of a rotor and a



fixed stator. Damping is normally in both directions. The shaft is sealed with a lip seal. Damping is adjusted by varying the effective thickness of the sheared layer of fluid by moving the stator relative to the rotor.