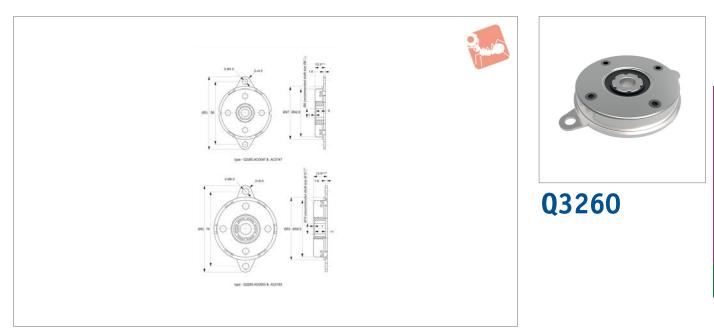


Disk Dampers



Material

Body: steel Socket: nylon with glass fibre. Operating fluid: silicone oil.

Technical Notes

Shaft specifications: Min hardness - 55HRC (min 0.5mm depth). Surface roughness - 1.0µm. End chamfering - R0.2/R0.3.

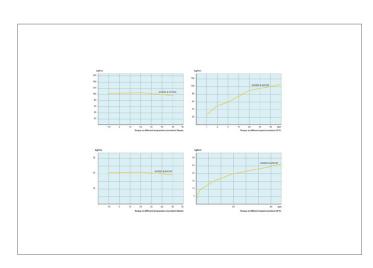
Tips

For graphs of torque at varying temperature and speed, see Torque Closing Speed Graphs earlier in this section. When inserting shaft, insert by rotating shaft in the opposite direction of the dampening direction. Damper can only take torque load.

Important Notes

Temperature range -10°C to +50°C. Rotational speed 50rpm max. Cycle rate 12 cycles/ min. External support for shaft required.

| Order No. | Damping direction | Damping torque kgf/cm | For shaft dia. mm 0 -0.03 | Weight capacity kg max. | Weight g |
|--------------|-------------------|--------------------------|---------------------------------|-------------------------------|-------------|
| Q3260.AC0047 | Clockwise | 20 | 6 | 0.12 | 55 |
| Q3260.AC0147 | Counter Clockwise | 20 | 6 | 0.12 | 55 |
| Q3260.AC0063 | Clockwise | 85 | 10 | 0.12 | 115 |
| Q3260.AC0163 | Counter Clockwise | 85 | 10 | 0.12 | 115 |





Q3200 - Q3260

DISK DAMPERS

Disk Dampers bi or uni-directional continuous rotation



| Solution for controlled opening and closing motion | Wixroyd disk dampers offer controlled opening and closing of lids, drawers, covers and much they provide a range of solutions for a variety of applications creating smooth movement and function. Though unnoticed in many applications, disk dampers are a vital part of many produbringing quality, safety and durability. Disk dampers provide quality movement enhancing both touch and feel. Available in uni-dire (single) dampening, or bi-directional (double) version. Image: the state of the st | d ucts | | |
|---|---|---|--|--|
| Disk dampers | | | | |
| Introduction | Disk dampers utilise the principle of fluid resistance to reduce the speed of moving parts. The viscosity is utilised to provide the "braking force" of the damper. The torque or "braking force adjusted by changing the viscosity of the oil. | | | |
| Applications | Loading trays for CD, DVD, VCR, MD players. Arm rests, ashtrays, center consoles, glove boxes, handles and storage compartments in passenger vehichles. Camcorders, cellular phones and small personal devices. | | | |
| Operating principle and general specification | of fluid forced from one chamber to another via a rotor. Dampening speed is dependent upon the viscosity of the fluid and the diameter of the fluid aperture. Through the use of toothed plastic rack no. Q3150, disk dampers can be used to dampen on a linear plane rather than the normal | to Q3260 Orpm vcles/min 20rpm, C (73°F) to 50°C - 122F°) to 60°C to 60°C to 140°F) | | |
| Torque calculation Note Dampening direction is determined whilst looking directly onto the output shaft. Important Avoid side loading of the disk damper output shaft in order to maximise effectiveness. | are necessary. are necessary. t (torque) = w x 0.5 x h h = length from pivot point to end of lid (cm) w = weight of the lid (Kg) Torque force stated per product (see individual product pages), | | | |

