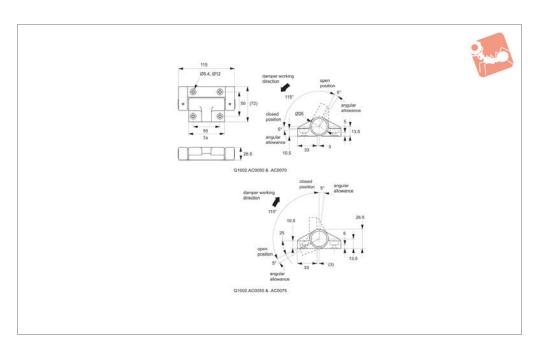


Soft Closing Hinge - Complete with torque dampers - 115° operating angle







Q1002

Material

Body: stainless steel, AISI 304. Pin: PBT plastic.

Bracket: PBT plastic with polypropylene can

Technical Notes

115° operating angle, additional 5° dead angle at start/end position.

Tested to over 100,000 cycles. Temperature range -20° to 60°C.

Tips

Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc. For further details of torque damper used in hinge refer to part Q0400.

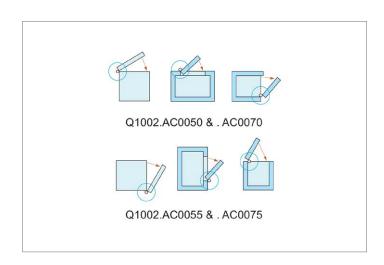
Sold as individual piece.

Important Notes

Torque calculation:

T (Kgf.cm) = W (Kg) X 0.5 x H (cm). W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

Order No.	Damping direction	Contains damper	Damping action	Operating angle	Torque/pair kgf/cm
Q1002.AC0050	Anti-Clockwise	1 off Q0400.AC0010 & Q0400.AC0110	Closing	115°	60 - 100
Q1002.AC0055	Anti-Clockwise	1 off Q0400.AC0010 & Q0400.AC0110	Opening	115°	60 - 100
Q1002.AC0070	Clockwise	1 off Q0400.AC0020 & Q0400.AC0120	Closing	115°	100 - 140
Q1002.AC0075	Clockwise	1 off Q0400.AC0020 & Q0400.AC0120	Opening	115°	100 - 140





Wixroyd Torque Dampers

with partial rotation angle



Wixroyd torque dampers offer controlled opening and closing of lids, drawers, covers and much more, they provide a wide range of solutions for a variety of applications creating smooth movement and function.

Though unnoticed in many applications, torque dampers are a vital part of many products bringing quality, safety and durability. Torque dampers provide quality movement enhancing both touch and feel.

Operating principle

Torque dampers utilise the movement 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.

Torque calculation

TORQUE DAMPERS

To calculate the torque for your application, the following measurements are necessary.

 $t (torque) = w \times 0.5 \times h$

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), is the maximum torque to which the specified part can be exposed before the dampening force yields and hence dampening is overcome.

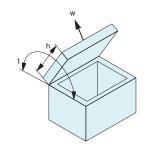


Table of torque dampers: Torque ranges



