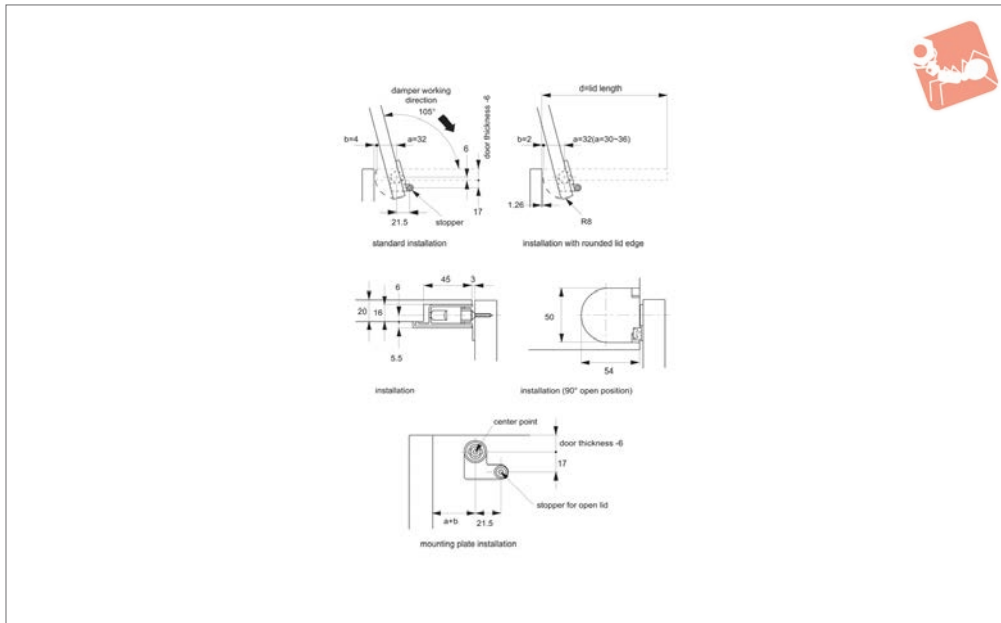




Soft Closing Hinge Set - Complete with torque dampers - 115° operating angle

Torque Dampers



Q1050

TORQUE DAMPERS

Material

Hinge mounting plate: aluminium, black.
Hinge bracket: polyacetal, black.
Face plate: ABS plastic, black or white finish.

Technical Notes

Soft closing damper hinge prevents lids

from slamming shut. 115° operating angle, additional 5° dead angle at start/end position. Temperature range 0° to 40°C.

Tips

For further details of torque damper used in hinge refer to part Q0420.

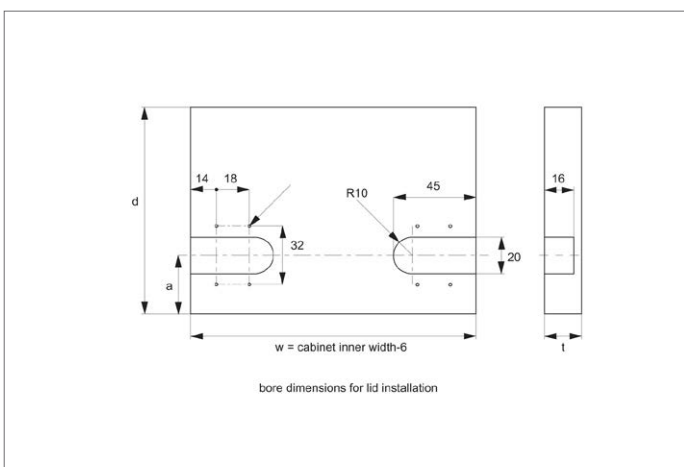
Sold as matching pair (left/right).

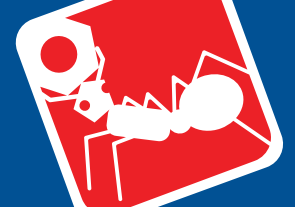
Important Notes

Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.
W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

Order No.	Type	Contains damper	Finish	Torque/pair kgf/cm	Weight/pair g
Q1050.AC0035	Hinge	1 off Q0420.AC0010 & Q420.AC0110	Black	20 - 34	91
Q1050.AC0050	Hinge	1 off Q0420.AC0020 & Q420.AC0120	Black	34 - 50	91
Q1050.AC9010	Face Plate	-	Black	-	12
Q1050.AC9020	Face Plate	-	White	-	12





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

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

$$t \text{ (torque)} = w \times 0.5 \times h$$

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.

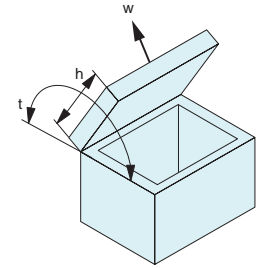


Table of torque dampers: Torque ranges

Part no.	Torque damper range	Torque Kgf.cm	Torque Kgf.cm																									
			10	20	30	40	50	60	70	80	90	100	110	120	130	140	150											
Q0400	Starting position (Dead angle) 5°, Ending position (Dead angle) 115°, 5°	15 - 35																										
Q0420	Starting position (Dead angle) 5°, Ending position (Dead angle) 120°, 5°	10 - 25																										
Q0422	Starting position (Dead angle) 5°, Ending position (Dead angle) 110°, 5°	10 - 35																										
Q0430	Starting position (Dead angle) 5°, Ending position (Dead angle) 125°, 5°	20 - 30																										
Q0440	Starting position (Dead angle) 5°, Ending position (Dead angle) 120°, 125°, 5°	8 - 25																										
Q0460	Starting position (Dead angle) 5°, Ending position (Dead angle) 110°, 5°	10 - 18																										
Q0462	Starting position (Dead angle) 5°, Ending position (Dead angle) 110°, 5°	10 - 30																										
Q1000	Starting position (Dead angle) 5°, Ending position (Dead angle) 115°, 5°	30 - 70																										
Q1002	Starting position (Dead angle) 5°, Ending position (Dead angle) 115°, 5°	60 - 140																										
Q1010	Starting position (Dead angle) 5°, Ending position (Dead angle) 120°, 125°, 5°	30 - 50																										
Q1050	Starting position (Dead angle) 5°, Ending position (Dead angle) 120°, 5°	20 - 50																										
Q1060	Starting position (Dead angle) 5°, Ending position (Dead angle) 120°, 5°	61 - 81																										