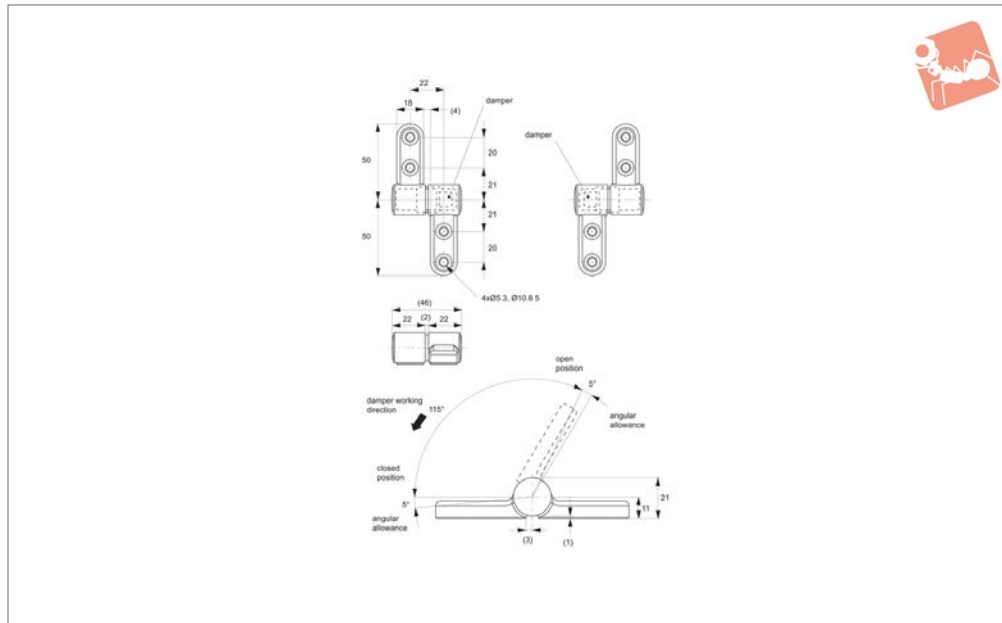




Soft Closing Hinge Set - Complete with torque dampers - 115° operating angle

Torque Dampers



Q1010

TORQUE DAMPERS

Material

Body: stainless steel, AISI 316.

Technical Notes

Soft closing damper hinge prevents lids from slamming shut. 115° operating , additional 5° dead angle at start/end posi-

tion. Temperature range 0° to 40°C.

Tips

For further details of torque damper used in hinge refer to part Q0440.
Sold as a 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.

Q1010.AC0050

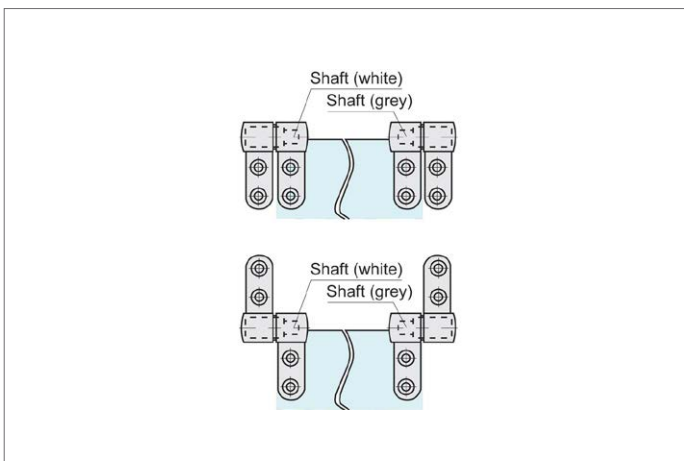
Contains damper

1 off Q0440.AC0010 & Q0440.AC0110

Torque/pair

kgf/cm

30 - 51





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.

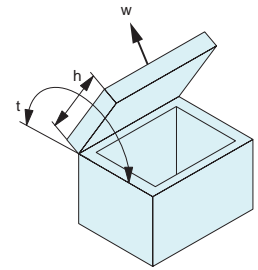


Table of torque dampers: Torque ranges

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° 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) 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															