

# Wixroyd Torque Dampers

## with partial rotation angle

**Q0400 - Q1060**  
Rotary & Torque Dampers

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.

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.

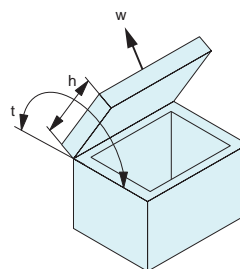
To calculate the torque for your application, the following measurements are necessary.

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

$h$  = length from pivot point to end of lid (cm)

$w$  = weight of the lid (Kg)



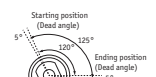


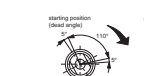

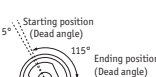

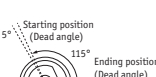

Torque force stated per product (see individual product pages), is the maximum torque to which the specified part can be exposed before the dampening force yields and hence dampening is overcome.



### Operating principle

### Torque calculation

### 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	
	<b>Q0400</b> 	15 - 35																
	<b>Q0420</b> 	10 - 25																
	<b>Q0422</b> 	10 - 35																
	<b>Q0430</b> 	20 - 30																
	<b>Q0440</b> 	8 - 25																
	<b>Q0460</b> 	10 - 18																
	<b>Q0462</b> 	10 - 30																
	<b>Q1000</b> 	30 - 70																
	<b>Q1002</b> 	60 - 140																
	<b>Q1010</b> 	30 - 50																
	<b>Q1050</b> 	20 - 50																
	<b>Q1060</b> 	61 - 81																