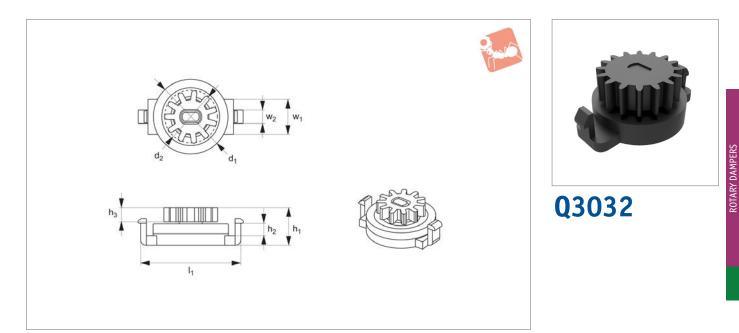


Rotary Dampers bi-directional - continuous rotation - up to 100gf.

Rotary Dampers



Material

Polycetal (POM), polycarbonate (PC)

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

Tips Create smooth movement and dampening

Order No.	Туре	Torque gf∙cm	No. of teeth	th Gear module		tch circle diameter P.C	Pressure angle	
Q3032.AC0100	With gear	50-100	11	0.8		8.8		20°
Order No. Q3032.AC0100	Ι ₁ 19.65	d ₁ 15	d ₂ 10.4	h ₁ 7.55	h ₂ 2.52	h ₃ 2.9	w ₁ 7	w ₂ 2.9



Rotary & Torque Dampers

Rotary Dampers

product selection chart



Product selection chart		David wa	Damping	Torque	Rotary dampers Torque gf.cm
	-	Part no.	Damping direction	gf.cm	
	- MAN	Q3000	Two way	10 - 40	
	(Ind)	Q3020	Two way	20 - 100	
		Q3022	Two way	50 - 150	
		Q3024	Two way	50 - 150	
		Q3026	Two way	15 - 50	
		Q3027	Two way	15 - 50	
		Q3028	Two way	15 - 50	
	3	Q3029	Two way	70 - 150	
	(ten)	Q3031	Two way	50 - 150	
	in the second	Q3032	Two way	50 - 100	
	and the second	Q3033	Two way	50 - 150	
		Q3036	Two way	15 - 50	
		Q3040	One/two way	200 - 300	
	\$	Q3042	Two way	100 - 400	
		Q3044	Two way	100 - 400	
		Q3060	One/two way	500 - 1500	



wixroyd.com



03000 - 03060 **Rotary & Torque Dampers**

Solution for

controlled opening

and closing motion

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

Though unnoticed in many applications, rotary dampers are a vital part of many products bringing quality, safety and durability. Rotary dampers provide quality movement enhancing both touch and feel. Available in unidirectional (single) dampening, or bi-directional (double) version. Also available with or without gears.

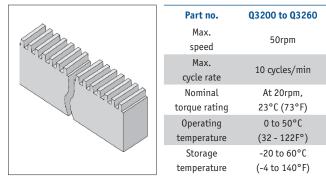


Rotary dampers utilise the principle of fluid resistance to reduce the speed of moving parts. The oil viscosity is utilised to provide the "braking force" of the damper. The torque or "braking force" can be adjusted by changing the viscosity of the oil. The advantages of the rotary type dampers are their compact size.

- Loading trays for CD, DVD, VCR, MD players.
- Arm rests, ashtrays, center consoles, glove boxes, handles and storage compartments in passenger vehicles.
- Camcorders, celular phones and small personal devices.

Rotary 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.

Through the use of toothed plastic rack no. Q3150, rotary dampers with gears can be used to dampen on a linear plane rather than the normal dampening directly at the shaft.



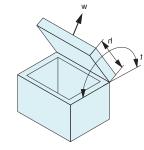
To calculate the torgue for your application, the following measurements are necessary.

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



Torgue 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.

Important note: Once calculation has been made choose a disk damper from our range which can accommodate the newly calculated torque of the application. Use the damper closing speed graphs opposite to confirm that the rpm given at the corresponding torque value matches the desired lid closing speed. If the desired rpm is beyond the capacity of the selected damper, then select another damper with a higher torgue rating and re-test. If the rpm is too slow select another damper with a lower torque rating and re-test.



Applications

Operating principle

Rotary dampers

3

ov-WQ3000-A-T-WQ3060-A-T-rotary-dampers-rnh- Updated -21-10-2022