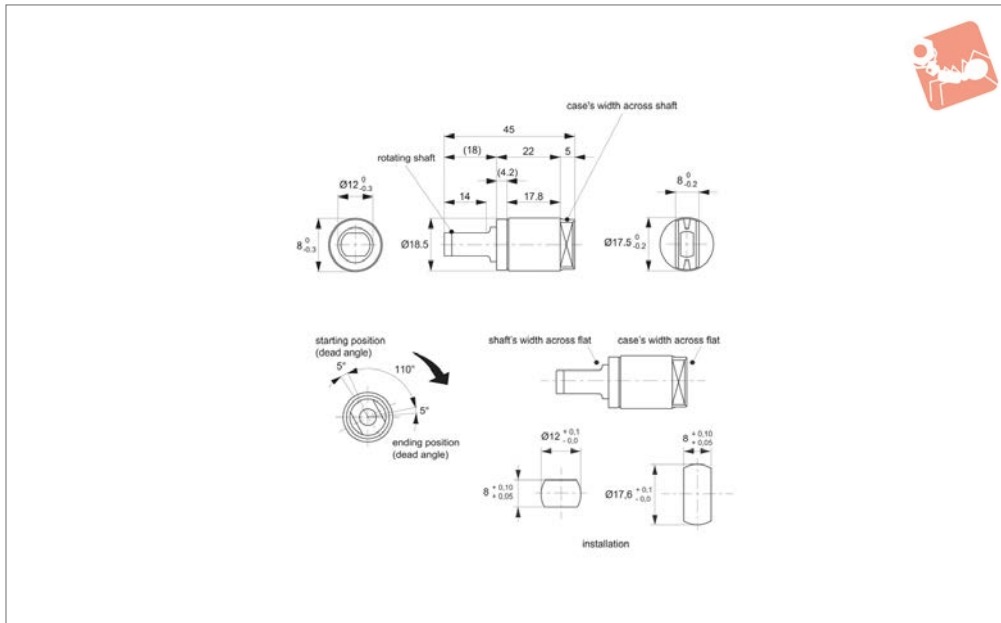




Torque Dampers - Compact uni-directional - 110° operating angle

Torque Dampers



Q0460

TORQUE DAMPERS

Material

Body: polybutylene terephthalate (PBT).
Shaft: polybutylene sulphide (PPS). White for anti-clockwise version, black for clockwise version.
Oil: silicone oil.

Tips

Provides smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

Important Notes

Rated torques measured at rotation speed

of 20rpm, at 23°C.
Values ±20%.
Max. rotation speed 50rpm.
Max. cycle rate 10 cycle/min.
Operating temperature, -5° to 50°C.
Design tested to 50,000 cycles.

Torque calculation:

$T(\text{Kgf.cm}) = W(\text{Kg}) \times H(\text{cm}) \times 9.8/2$.
W(Kg) is weight of cover/lid, H(cm) is distance between fulcrum and cover/lid's opening edge.

Q0460 is designed to generate a large torque just before a lid, closing from a vertical position; comes to full closure. See diagram a.

Q0460 should not be used for a lid closing from a horizontal start position, as the damper torque generated, just prior to closing, is too great causing the lid not to fully close. See diagram b.

Order No.	Damping direction	Shaft colour	Operating angle	Damping torque kgf/cm	Return damping torque kgf/cm	Weight g
Q0460.AW0110	Clockwise	Black	110°	10	3	10
Q0460.AW0010	Anti-clockwise	White	110°	10	3	10
Q0460.AW0115	Clockwise	Black	110°	15	5	10
Q0460.AW0015	Anti-clockwise	White	110°	15	5	10
Q0460.AW0118	Clockwise	Black	110°	18	8	10
Q0460.AW0018	Anti-clockwise	White	110°	18	8	10

