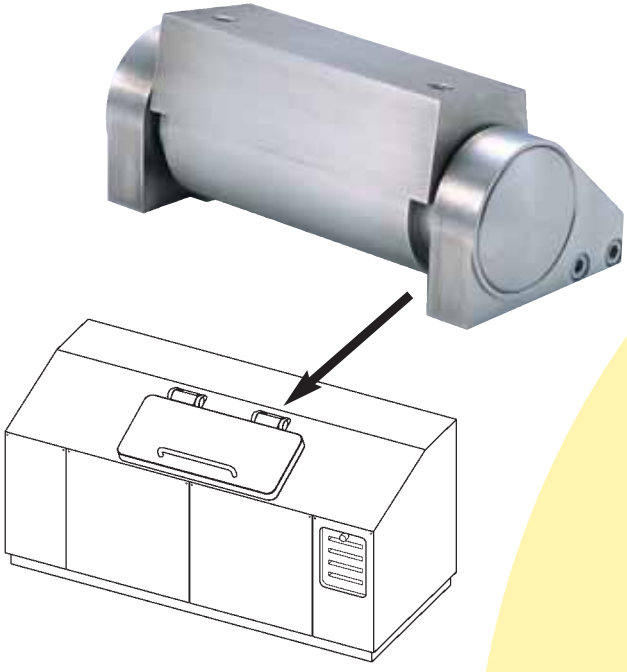
Lift Assist Hinges

stainless steel

Q110



FEATURES:

- Makes door/lid opening easier
- Built-in damper works to absorb energy of lid slamming shut.
- Proven in over 30,000 cycles.

Technical Notes

Maximum torque: 210 Kgf/cm.

Application: Hatch doors, commercial freezers, etc.

Calculation:

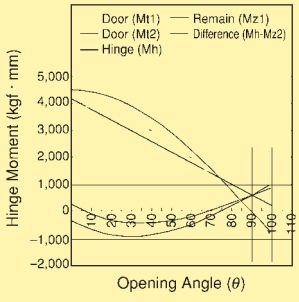
Door moment: Mt = W x L / 2 x cos θ
Hinge moment: Mh = Mm x (1–θ / 105)
Remain moment: Mz = Mh – Mt
Working force: F = Mh – Mt / L

W: Door weight at the gravity point
θ: Door opening angle
L: Door length
Mm: Hinge moment at door closing (maximum moment)

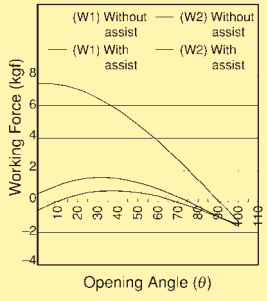
Remain Moment (Mh–Mt):

[–] Forcing in closing direction
[+] Forcing in open direction

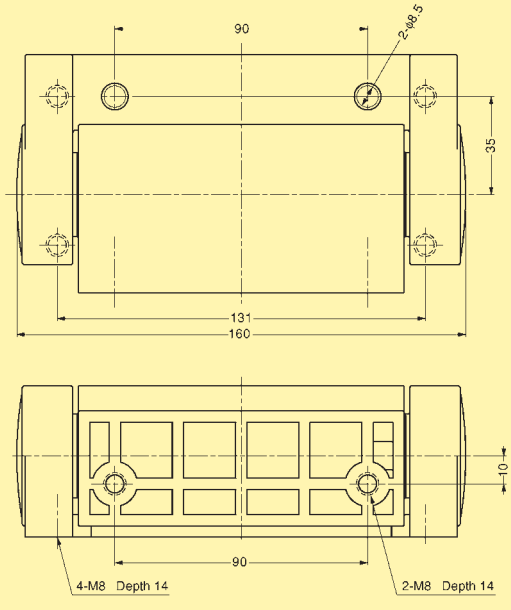
Assist Hinge Moment

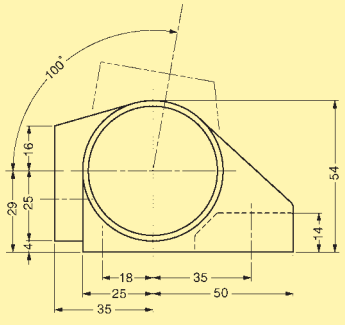


Working Force at Opening Angle



Above graph shows at L = 600mm, W1 = 13kg, W2 = 15kg





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