



Installer may have to counterbore backplate for sex-nut head clearance

NOTES:

1. Do not scale drawing.
2. Right hand door shown.
3. All dimensions given in inches (mm).

Caution: Door swing may be limited by door, frame, wall or hardware conditions (including closer projection).

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm) unless otherwise noted.

Opening	Dimension "A"	
	inches	mm
To 100°	7-5/8	194
100° to 120°	6-5/8	168
120° to 150°	4-5/8	117
150° to 180°	4-1/8	105

Preparation for Fasteners			
	Fasteners	Door or Frame	Drill Sizes
Standard	Self-Drilling screw	Aluminum or Metal	No drill required
		Wood (see Note)	Pilot hole required 3/16" (4.30 mm)
	1/4"-20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4"-20
Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
		Aluminum or Wood	3/8" (9.5 mm) through
	Through-bolts and grommet nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer

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**400 and 4400 Series Door Closers
with 486OH Back Plate
For Clearance of Overhead Stop / Stop and Holder**

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7344-0111
Sheet: 1 of 1
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