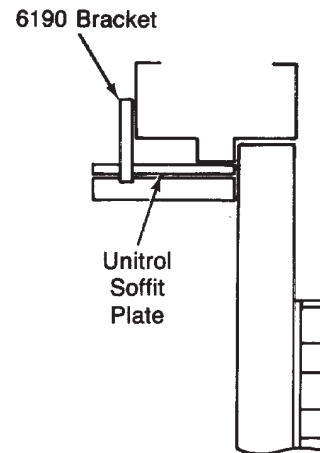


| Opening     |      | Dim. A | Dim. B | Dim. C |
|-------------|------|--------|--------|--------|
| Hold Open ★ | Stop |        |        |        |
| 85°         | 90°  | 10-1/2 | 8-5/8  | 9-5/8  |
| 90°         | 95°  | 9-3/4  | 8      | 9      |
| 95°         | 100° | 9-1/4  | 7-1/2  | 8-1/2  |
| 100°        | 105° | 8-7/8  | 7-1/8  | 8-1/8  |
| 105°        | 110° | 8-1/2  | 6-3/4  | 7-3/4  |
| 110°        | 115° | 8-1/8  | 6-3/8  | 7-3/8  |

★ Door must be free to swing 5° beyond hold-open position.



**Notes:**

Do not scale drawing.

Left hand door shown.

Dimensions are in inches.

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

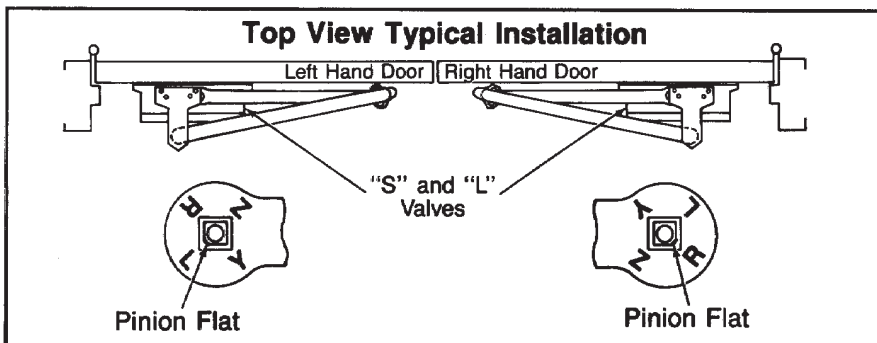
Models with a Hold Open arm suffix are not permitted to be used on fire doors.

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

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

Follow Conversion Chart for metric dimensions.

| inches | mm.  | inches | mm.   | inches | mm.   |
|--------|------|--------|-------|--------|-------|
|        |      | 2-3/4  | 70    | 8-1/8  | 206   |
| 3/8    | 9.5  | 4      | 101.5 | 8-1/2  | 215.5 |
| 7/16   | 11   | 4-1/2  | 114   | 8-5/8  | 219   |
| 1/2    | 13   | 6-3/8  | 162   | 8-7/8  | 225   |
| 3/4    | 19   | 6-3/4  | 171.5 | 9      | 228.5 |
| 1-1/8  | 28.5 | 7      | 178   | 9-1/16 | 230   |
| 1-1/4  | 31.5 | 7-1/8  | 181   | 9-1/4  | 235   |
| 1-1/2  | 38   | 7-3/8  | 187   | 9-5/8  | 244.5 |
| 1-5/8  | 41   | 7-1/2  | 190.5 | 9-3/4  | 247.5 |
| 1-7/8  | 47.5 | 7-3/4  | 196.5 | 10-1/2 | 266.5 |
| 2      | 51   | 8      | 203   |        |       |



| Fastener                       | Frame | Door             | Drill  |
|--------------------------------|-------|------------------|--|
| 1/4-20 machine screw           | metal | none             | #7 (.201" dia.) or 5.10mm. drill. 1/4-20 tap                     |
| #14 type "A" sheet metal screw | wood  | none             | 7/32" (5.5mm)  |
| SNB                            | none  | hollow-metal     | 9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer |
|                                |       | aluminum or wood | 3/8" (9.50mm.) thru  |

**UNI-1600 or UNI-1600H Series Unitrol Door Closers**  
 Parallel Arm Application for Doors 28" to 32" (0.70-0.80m) Wide  
 With Standard 6190 Bracket & With or Without 1688 Drop Plate  
 Non Hold Open or Hold Open Arm - All Arms With Spring Cushioned Stop  
 Individually Sized Units 3 and 4 & Multi-size Unit 1-6



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