

(13)

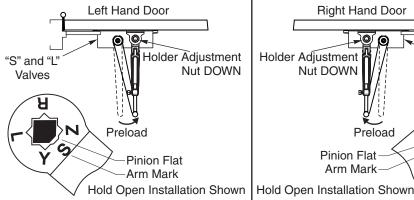
#### Notes:

1. Do not scale drawing.



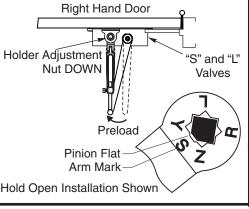
- 2. Left hand door shown.
- 3. Dimensions given in inches (millimeters).
- 4. Door swing may be limited by door, frame, wall or hardware conditions.
- 5. Hollow metal doors require channel or box type reinforcement when thru-bolt mount is specified.
- 6. Sleeve nuts and bolts may be required for wood or plastic faced fire door mounting.
- 7. Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.
- 8. Hold open arm door closers without fusible-link release are not permitted to be used on fire doors.

# Position of Arm and Pinion Flat



8-1/2

(216)



2-3/4

(70)

1 - 3/4

(44.5)

Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32"(7.00mm.) thru 3/8"(9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer

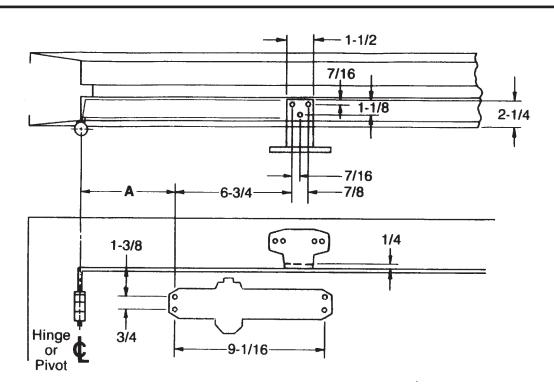
1600 or 1600H Series Door Closers **Corner Bracket Application With 1647 Corner Bracket** Non Hold Open or Hold Open Arm Individually Sized Units 3 and 4 & Multi-size Unit 1-6

NORTON RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7316-1149

01/22



- Do not scale drawing.
- Right hand door shown.
- Dimensions shown in inches.
   Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A
To 100°	7
100° to 120°	6
Over 120°	3-1/2

METRIC CONVERSION					
inches	mm.	inches	mm.	inches	mm.
1/4	6.4	1-1/8	28.6	3-1/2	89
7/16	11.1	1-3/8	35	6	152
3/4	19.1	1-1/2	38.1	6-3/4	171
7/8	22.2	2-1/4	57.2	7	178
				9-1/16	230.2

PREPARATION FOR FASTENERS				
FASTENER	DOOR or FRAME DRILL			
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>		
1/4-20 machine screw	metal	#7 (.201" dia.) or 5.10mm. drill 1/4-20 tap		
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer		
	aluminum or wood	3/8" (9.50mm.) thru		
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer		



1600H Series Door Closers

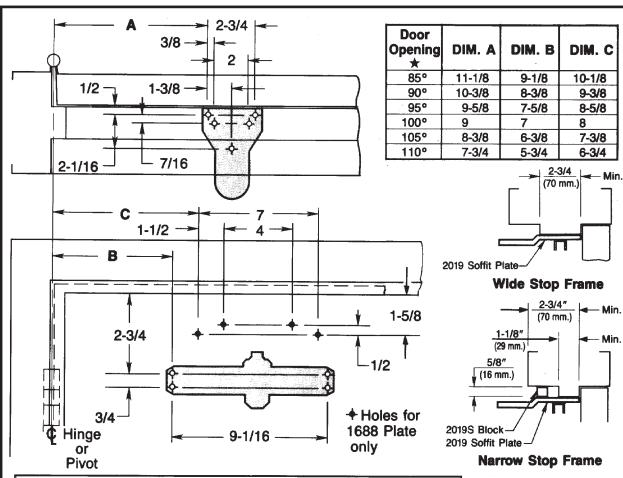
Regular Arm Application With 80 Bracket for Molded or Bullnose Frame
Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

RIXSON

ASSA ABLOY

TEMPLATE NUMBER
7316-1112

4 | 12/21



★ Template dimensions are for hold-open/door stop within ±2° of charted door openings. Doors may overtravel up to 5° beyond the rest 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.

Hold Open Arm door closers 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.

Maximum width hinges for this template are 5" (127mm)

in.	mm.	in.	mm.	in.	mm.	in.	mm.
		2	50.8	7-3/8	187	9-1/16	230.2
3/8	9.5	2-1/16	52.4	7-5/8	194	9-1/8	232
7/16	11.1	2-3/4	69.9	7-3/4	197	9-3/8	238
1/2	12.7	4	101.6	8	203	9-5/8	244
3/4	19.1	5-3/4	146	8-3/8	213	10-1/8	257
1-3/8	34.9	6-3/8	162	8-5/8	219	10-3/8	264
1-1/2	38.1	6-3/4	171	9	229	11-1/8	283
1-5/8	41	7	177.8				

Top View Typical Installation				
Left Hand Door	Right Hand Door			
Stop "S" an Valv				
Pinion Flat	Pinion Flat			

Fastener	Frame	Door	Drill
#14 type "A" sheet metal screw	wood	none	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	none	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	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



CLP-1600(BC) Series CloserPlus<sup>®</sup>
CPS-1600 (BC) Series CloserPlus Spring<sup>™</sup> Arm
Parallel Arm Application With or Without 1688 Drop Plate
Arm Function: Stop Only or Stop & Hold Open Arm ("T" Suffix)
Power Sizes 1-6, 3BC, 4BC

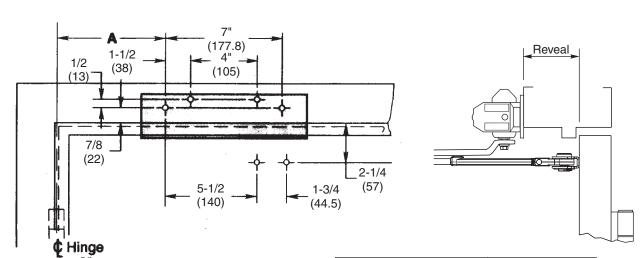
Approved 2022-02-25

RIXSON

ASSA ABLOY

TEMPLATE NUMBER **7316-2302** 

4 | 12/21

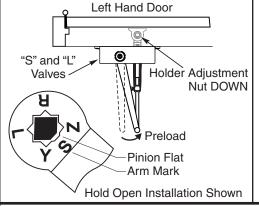


Opening	Dimension "A"
To 100°	<u>8"</u> (203)
101° to 120°	6-1/2" (165)
over 120°	4" (105)

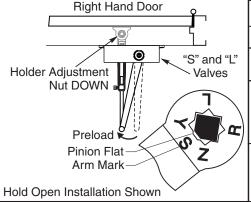
Reveal	Closer Series
0 to 3" (0 to 76)	1600
3" to 7" (76 to 178)	J1600
0 to 2-1/4" (0 to 57)	1600H/1600HFL
2-1/4" to 5" (57 to 127)	J1600H/J1600HFL

- 1. Do not scale drawing.
- 2. Left hand door shown.
- 3. Dimensions given in inches (millimeters).
- Door swing may be limited by door, frame, wall or hardware conditions.
- Hollow metal doors require channel or box type reinforcement when thru-bolt mount is specified.
- Sleeve nuts and 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) unless otherwise noted.
- Hold open arm door closers without fusible-link release are not permitted to be used on fire doors.

## Position of Arm and Pinion Flat



**Pivot** 



Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32"(7.00mm.) thru 3/8"(9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer



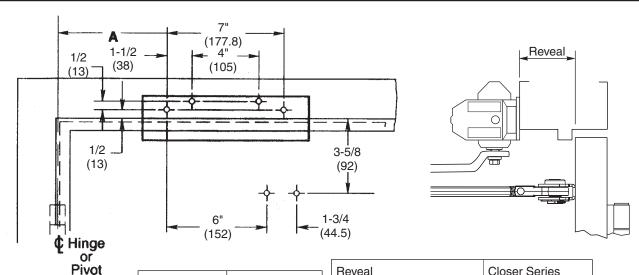
(J)1600 and (J)1600H Series Door Closers
Top Jamb Application With 1687 Drop Plate
Non Hold Open or Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

NORTON

ASSA ABLOY

TEMPLATE NUMBER **7316-1158** 

REV DATE **4 01/22** 



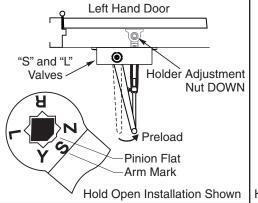
Dimension "A" Opening To 100° (203)6-1/2" 101° to 120° (165)over 120° (105)

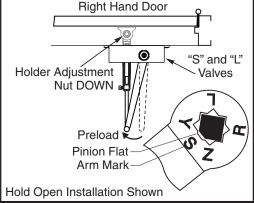
Reveal	Closer Series
0 to 3" (0 to 76)	1600
2-7/8" to 7" (73 to 178)	J1600
0 to 2-3/4" (0 to 70)	1600H/1600HFL
2-3/4" to 6-3/4" (70 to 171)	J1600H/J1600HFL

#### Notes:

- 1. Do not scale drawing
- 2. Left hand door shown.
- 3. Dimensions given in inches (millimeters).
- 4. Door swing may be limited by door, frame, wall or hardware conditions.
- 5. Hollow metal doors require channel or box type reinforcement when thru-bolt mount is specified.
- 6. Sleeve nuts and bolts may be required for wood or plastic faced fire door mounting.
- 7. Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.
- 8. Hold open arm door closers without fusible-link release are not permitted to be used on fire doors.

## Position of Arm and Pinion Flat





Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4"20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer



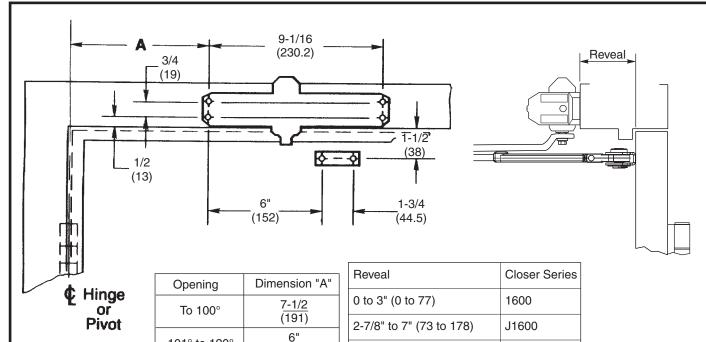
(J)1600 and (J)1600H Series Door Closers **Top Jamb Application With 1688 Drop Plate** Non Hold Open or Hold Open Arm Individually Sized Units 3 and 4 & Multi-size Unit 1-6 RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7316-1160

Approved 2022-02-25

01/22



- 1. Do not scale drawing.
- 2. Left hand door shown.
- 3. Dimensions given in inches (millimeters).
- 4. Door swing may be limited by door, frame, wall or hardware conditions.
- 5. Hollow metal doors require channel or box type reinforcement when thru-bolt mount is specified.
- 6. Sleeve nuts and bolts may be required for wood or plastic faced fire door mounting.
- 7. Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.
- 8. Hold open arm door closers are not permitted to be used on fire doors.

## Position of Arm and Pinion Flat

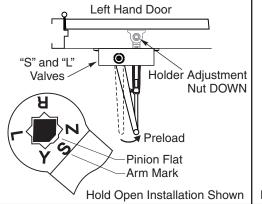
(152)

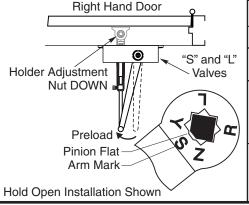
3-1/2

(89)

101° to 120°

over 120°





0 to 2-3/4" (0 to 70)

2-3/4" to 6-3/4" (70 to 171)

1600H

J1600H

Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer

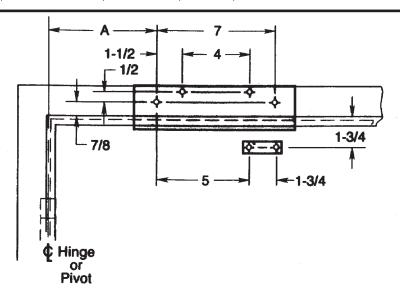


(J)1600 and (J)1600H Series Door Closers **Top Jamb Application** Non Hold Open or Hold Open Arm Individually Sized Units 3 and 4 & Multi-size Units 1-6 RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7316-1152

01/22





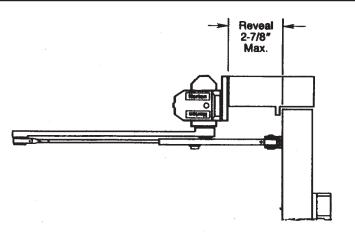
- Do not scale drawing.
- Left hand door shown.
- Maximum reveal in 2-7/8 inches.
- Dimensions are in inches.
   See conversion chart for metric dimensions.

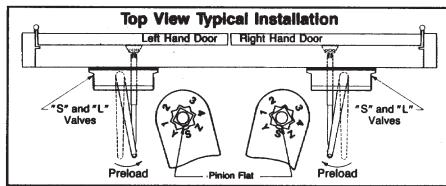
Opening	Dim. A
To 100°	8-1/2
100° to 120°	7
Over 120°	4-1/2

inches	mm.	inches	mm.
1/2	12.7	4-1/2	114
7/8	19.1	5	127
1-1/2	38.1	7	177.8
1-3/4	44.5	8-1/2	216
4	101.6		

Door swing may be limited by door, frame, wall or hardware conditions. Hollow-metal doors require channel or box-type reinforcement when thrubolt mount is specified.

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.) unless otherwise noted.





Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4*20 tap
SNB (optional)	hoflow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32"(7.00mm.) thru 3/8"(9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer

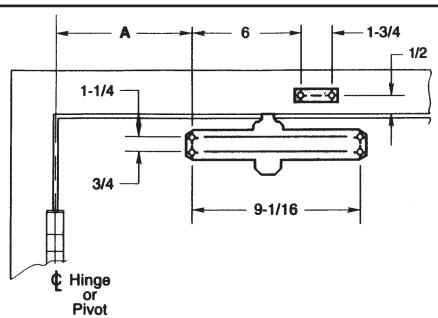


(J)1680 Series Door Closers With Low Profile Arm Top Jamb Application With 1687 Drop Plate Non Hold Open Arm Individually Sized Units 3 and 4 & Multi-size Unit 1-6 RIXSON

ASSA ABLOY

TEMPLATE NUMBER **7316-1162** 

PEV DATE 12/21



Opening	Dim. A
To 100°	7
100° to 120°	6
Over 120°	3-1/2

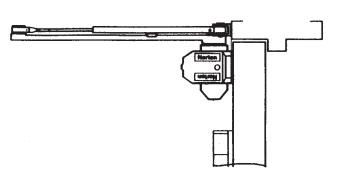
- Do not scale drawing.
- Right hand door shown.
- Dimensions are in inches.
   See conversion chart formetric dimensions.

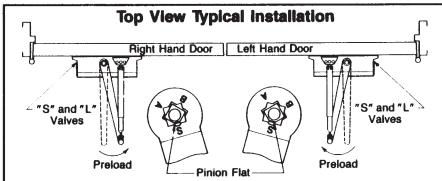
inches	mm.	inches	mm.
1/2	13	3-1/2	89
3/4	19.1	6	152
1-1/4	32	7	178
1-3/4	44.5	9-1/16	230.2

Door swing may be limited by door, frame, wall or hardware conditions. Hollow-metal doors require channel or box-type reinforcement when thrubolt mount is specified.

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.) unless otherwise noted.





Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4*20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32"(7.00mm.) thru 3/8"(9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer



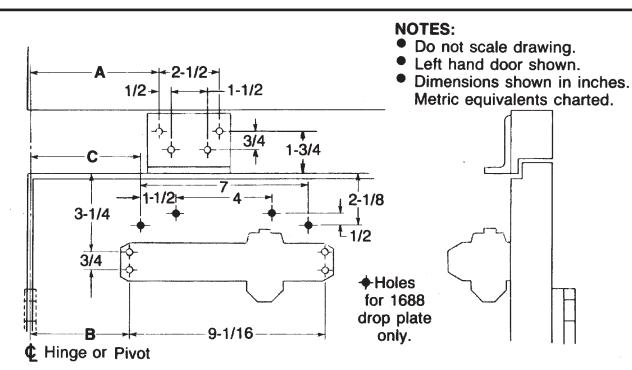
1600 Series Door Closers With Low Profile Arm
Regular Arm Application
Non Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

RIXSON

ASSA ABLOY

TEMPLATE NUMBER **7316-1106** 

4 12/21



- 1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- Hold Open Arm door closers without Fusible-link release are not permitted to be used on fire doors.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A	DIM. B	DIM. C
To 100°	9-3/8	7-5/8	8-5/8
100° to 130°	7-7/8	6-1/8	7-1/8
Over 130°	5-7/8	4-1/8	5-1/8

METRIC CONVERSION					
inches	mm.	inches	mm.	inches	mm.
1/2	12.7	4	101.6	7-1/8	181
3/4	19.1	4-1/8	105	7-5/8	194
1-1/2	38.1	5-1/8	130	7-7/8	200
1-3/4	44	5-7/8	149	8-5/8	219
2-1/8	54	6-1/8	156	9-1/16	230.2
2-1/2	63.5	7	177.8	9-3/8	238
3-1/4	83				

PREPARATION FOR FASTENERS			
FASTENER DOOR or FRAME DRILL			
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>	
1/4-20 machine screw	metal	#7 (.201" dia.) or 5.10mm. drill 1/4-20 tap	
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer	
	aluminum or wood	3/8" (9.50mm.) thru	
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer	



(P)1600 and (P)1600H Series Door Closers
Parallel Arm Applications with 2022 Flush Transom Bracket
and with or without 1688 Drop Plate
Non Hold Open or Hold Open Arm
Individually Sized Units 3 and 4 & Multi-sized Unit 1-6

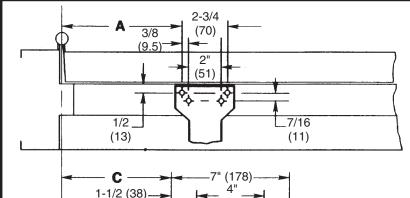
RIXSON

**ASSA ABLOY** 

TEMPLATE NUMBER

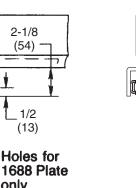
REV DATE **12/21** 

7316-1208



101.6)

Opening	Dim. "A"	Dim. "B"	Dim. "C"
To 100°	9-1/4"	7 <u>-5/8</u> "	8-5/8"
	(235)	(194)	(219)
101° to 130°	7 <u>-3/4</u> "	6-1/8"	7 <u>-1/8</u> "
	(197)	(156)	(181)
over 130°	5-3/4"	4-1/8"	5-1/8"
	(146)	(105)	(130)



2-1/8

(54)

1/2 (13)

→ Holes for

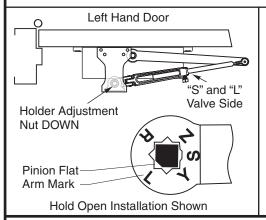
only

#### Notes:

- 1. Do not scale drawing.
- 2. Left hand door shown.
- 3. Dimensions given in inches (millimeters).
- 4. Door swing may be limited by door, frame, wall or hardware conditions.
- 5. Hollow metal doors require channel or box type reinforcement when thru-bolt mount is specified.
- 6. Sleeve nuts and bolts may be required for wood or plastic faced fire door mounting.
- 7. Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.
- 8. Hold open arm door closers are not permitted to be used on fire doors.

# Position of Arm and Pinion Flat

(230.2)

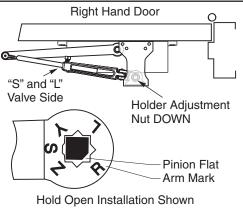


3-1/4

(83)

Hinge<sup>(19)</sup>

Pivot



Fastener	Door or Frame	Drill	
#14 type "A" sheet metal screw	wood	7/32" (5.5mm)	
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap	
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer	
	aluminum or wood	3/8" (9.50mm.) thru	
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer	



(P)1600 and (P)1600H Series Door Closers Parallel Arm Applications with or without 1688 Drop Plate Non Hold Open or Hold Open Arm Individually Sized Units 3 and 4 & Multi-sized Unit 1-6

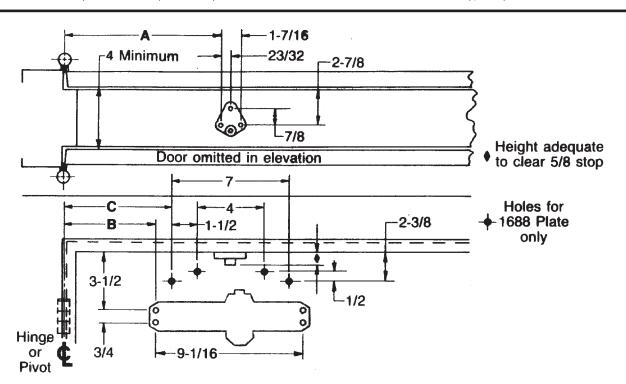
NORTON RIXSON

ASSA ABLOY

7316-1202

TEMPLATE NUMBER

01/22



- Do not scale drawing.
- Left hand door shown.
- Dimensions shown in inches. Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A	DIM. B	DIM. C
To 100°	9-7/8	7-5/8	8-5/8
100° to 130°	8-3/8	6-1/8	7-1/8
Over 130°	6-3/8	4-1/8	5-1/8

	METRIC CONVERSION				
inches	mm.	inches	mm.	inches	mm.
1/2	12.7	2-3/8	60	6-3/8	162
5/8	16	2-7/8	73	7	177.8
23/32	18.3	3-1/2	89	7-1/8	181
3/4	19.1	4	101.6	7-5/8	194
7/8	22.2	4-1/8	105	8-3/8	213
1-7/16	36.5	5-1/8	130	8-5/8	219
1-1/2	38.1	6-1/8	156	9-1/16	230.2
				9-7/8	251

PREPARATION FOR FASTENERS				
FASTENER	DOOR or FRAME	DRILL		
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>		
1/4-20 machine screw	metal	#7 (.201" dia.) <i>or 5.10mm</i> . drill 1/4-20 tap		
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer		
	aluminum or wood	3/8" (9.50mm.) thru		
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer		



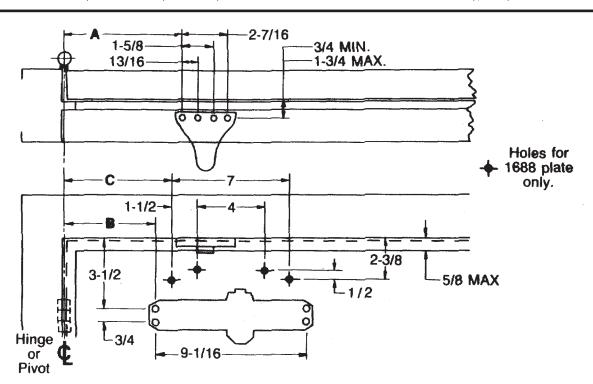
(P)1600 Series Door Closers
Parallel Arm Application With 2018 Soffit Plate & With or Without 1688 Drop Plate
Non Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

ASSA ABLOY

RIXSON

7316-1214

12/21



- Do not scale drawing.
- Left hand door shown.
- Dimensions shown in inches.
   Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A	DIM. B	DIM. C
To 100°	9-1/4	7-5/8	8-5/8
100° to 130°	7-3/4	6-1/8	7-1/8
Over 130°	5-3/4	4-1/8	5-1/8

	METRIC CONVERSION				
inches	mm.	inches	mm.	inches	mm.
1/2	12.7	2-7/16	61.9	7	177.8
5/8	16	3-1/2	89	7-1/8	181
3/4	19.1	4	101.6	7-5/8	194
13/16	20.6	4-1/8	105	7-3/4	197
1-1/2	38.1	5-1/8	130	8-5/8	219
1-5/8	41.3	5-3/4	146	9-1/16	230.2
1-3/4	45	6-1/8	156	9-1/4	235
2-3/8	60				

PREPARATION FOR FASTENERS					
FASTENER DOOR or FRAME DRILL					
#14 type "A" sheet metal screw	wood	7/32" (5.5mm)			
1/4-20 machine screw	metal	#7 (.201" dia.) or 5,10mm. drill 1/4-20 tap			
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer			
	aluminum or wood	3/8" (9.50mm.) thru			
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer			



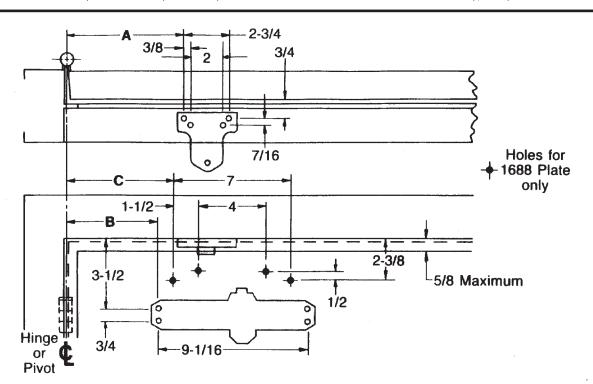
(P)1600 Series Door Closers
Parallel Arm Application With 2018B Soffit Plate & With or Without 1688 Drop Plate
Non Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

RIXSON

**ASSA ABLOY** 

TEMPLATE NUMBER **7316-1212** 

PEV DATE **12/21** 



- Do not scale drawing.
- Left hand door shown.
- Dimensions shown in inches.
   Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A	DIM. B	DIM. C
To 100°	9-1/4	7-5/8	8-5/8
100° to 130°	7-3/4	6-1/8	7-1/8
Over 130°	5-3/4	4-1/8	5-1/8

	METRIC CONVERSION				
inches	mm.	inches	mm.	inches	mm.
3/8	9.5	2-3/8	60	6-1/8	156
7/16	11.1	2-3/4	69.9	7	177.8
1/2	12.7	3-1/2	89	7-1/8	181
5/8	16	4	101.6	7-5/8	194
3/4	19.1	4-1/8	105	7-3/4	197
1-1/2	38.1	5-1/8	130	8-5/8	219
2	50.8	5-3/4	146	9-1/16	230.2
				9-1/4	235

PREPARATION FOR FASTENERS				
FASTENER DOOR or FRAME DRILL				
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>		
1/4-20 machine screw	metal	#7 (.201" dia.) or 5.10mm. drill 1/4-20 tap		
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer		
	aluminum or wood	3/8" (9.50mm.) thru		
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer		



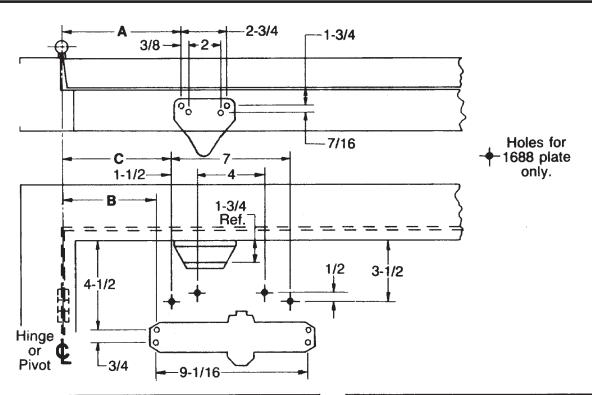
(P)1600 Series Door Closers
Parallel Arm Application With 2018D Soffit Plate & With or Without 1688 Drop Plate
Non Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

RIXSON

**ASSA ABLOY** 

TEMPLATE NUMBER **7316-1216** 

REV DATE **12/21** 



- Do not scale drawing.
- Left hand door shown.
- Dimensions shown in inches. Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A	DIM. B	DIM. C
To 100°	9-1/4	7-5/8	8-5/8
100° to 130°	7-3/4	6-1/8	7-1/8
Over 130°	5-3/4	4-1/8	5-1/8

	METRIC CONVERSION				
inches	mm.	inches	mm.	inches	mm.
3/8	9.5	2-3/4	69.9	6-1/8	156
7/16	11.1	3-1/2	89	7	177.8
1/2	12.7	4	101.6	7-1/8	181
3/4	19.1	4-1/8	105	7-5/8	194
1-1/2	38.1	4-1/2	114	7-3/4	197
1-3/4	45	5-1/8	130	8-5/8	219
2	50.8	5-3/4	146	9-1/16	230.2
				9-1/4	235

PREPARATION FOR FASTENERS				
FASTENER DOOR or FRAME DRILL				
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>		
1/4-20 machine screw	metal	#7 (.201" dia.) or 5.10mm. drill 1/4-20 tap		
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer		
	aluminum or wood	3/8" (9.50mm.) thru		
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer		



(P)1600 Series Door Closers

Parallel Arm Application With 2018S Offset Soffit Plate & With or Without 1688 Drop Plate

Non Hold Open Arm

Individually Sized Units 3 and 4 & Multi-size Unit 1-6

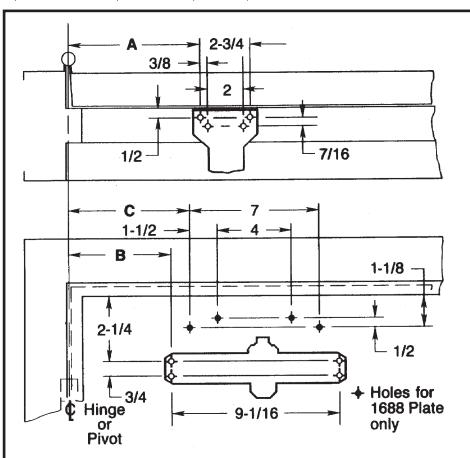


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TEMPLATE NUMBER

REV

7316-1210



Opening	Dim. A	Dim. B	Dim.C
To 100°	9-1/4	7-5/8	8-5/8
100° to 130°	7-3/4	6-1/8	7-1/8
Over 130°	5-3/4	4-1/8	5-1/8

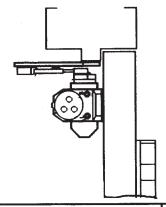
inches	mm.	inches	mm.	inches	mm.
		2-1/4	57	7	177.8
3/8	9.5	2-3/4	69.9	7-1/8	181
7/16	11.1	4	101.6	7-5/8	194
1/2	12.7	4-1/8	105	7-3/4	197
1-1/8	28.6	5-1/8	130	8-5/8	219
1-1/2	38.1	5-3/4	146	9-1/16	230,2
2	50.8	6-1/8	156	9-1/4	

- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches.
   See conversion chart for metric dimensions.
- Minimum top rail with 5/8" (16mm.) frame stop 4" (102mm.).

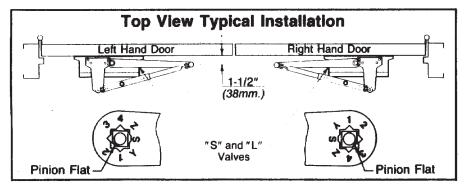
Door swing may be limited by door, frame, wall or hardware conditions.

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

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.) unless otherwise noted.



Fastener	Door or Frame	Drill	
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>	
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4*20 tap	
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer	
	aluminum or wood	3/8" (9.50mm.) thru	
TBGN (optional)	all	9/32"(7.00mm.) thru 3/8"(9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer	



**TRADEMARK** 

(P)1680 Series Door Closers With Low Profile Arm
Parallel Arm Application With or Without 1688 Drop Plate
Non Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

NORTON RIXSON ASSA ABLOY

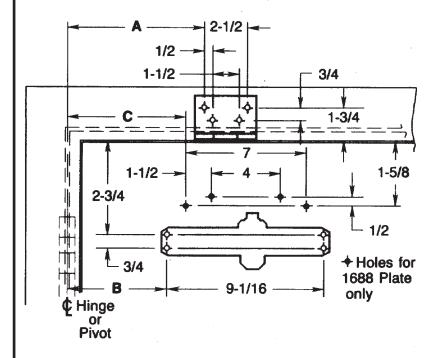
TEMPLATE NUMBER REV

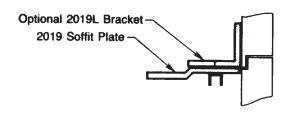
7316-1206

12/21

Opening	Dim. A	Dim. B	Dim.C
To 100°	9-3/4	7-5/8	8-5/8
100° to 130°	8-1/4	6-1/8	7-1/8
Over 130°	6-1/4	4-1/8	5-1/8

-						
Ш	inches	mm.	inches	mm.	inches	mm.
1	1/2	12.7	2-3/4	69.9	7-1/8	181
	3/4	19.1	4	101.6	7-5/8	194
l	1-1/2	38.1	4-1/8	105	8-1/4	210
ł	1-5/8	41	5-1/8	130	8-5/8	219
	1-3/4	44	6-1/8	156	9-1/16	230.2
1	2-1/2	63.5	6-1/4	159	9-3/4	248
			7	177.8		





- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches.
   See conversion chart for metric dimensions.

Door swing may be limited by door, frame, wall or hardware conditions.

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

Hold Open Arm door closers without Fusible-link release 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.) unless otherwise noted.

Top View Typical Installation						
Left Hand Door	Right Hand Door					
"S" and "L" Valves						
Pinion Flat Hold Open Inst	Pinion Flat					

Fastener	Frame	Door	Drill
#14 type "A" sheet metal screw	wood	none	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	none	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	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



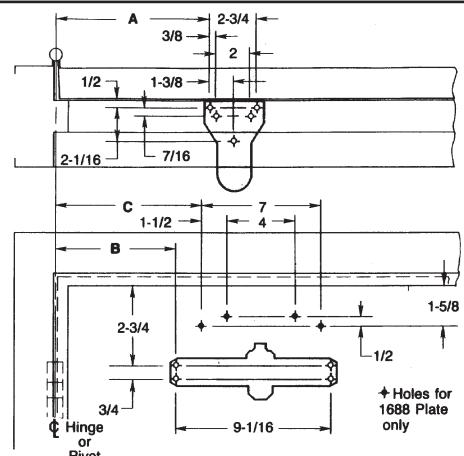
Pr1600 or PR1600H Series Door Closers
Parallel Rigid Arm Application With 2019L Flush Transom Bracket and
With or Without 1688 Drop Plate
Non Hold Open or Hold Open Arm
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

TEMPLATE NUMBER 7316-1256

REV DATE **12/21** 

RIXSON

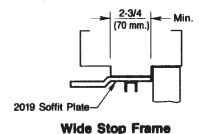
ASSA ABLOY

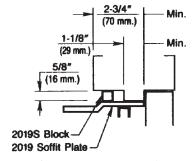


Pivot	
Top View Typical Installation	
Left Hand Door   Right Hand Door	¬
	<b>-</b>
"S" and "L" Valves	
Pinion Flat Hold Open Installation Shown Pinion Fla	ıt

**TRADEMARK** 

Opening	Dim. A	Dim. B	Dim.C
To 100°	9-5/8	7-5/8	8-5/8
100° to 130°	8-1/8	6-1/8	7-1/8
Over 130°	6-1/8	4-1/8	5-1/8





Narrow Stop Frame

inches	mm.	inches	mm.	inches	mm.
		1-5/8	41	7	177.8
3/8	9.5	2	50.8	7-1/8	181
7/16	11.1	2-1/16	52.4	7-5/8	194
1/2	12.7	2-3/4	69.9	8-1/8	206
3/4	19.1	4	101.6	8-5/8	219
1-3/8	34.9	4-1/8	105	9-1/16	230.2
1-1/2	38.1	5-1/8	130	9-5/8	244
		6-1/8	156		

## **Notes:**

- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches.
   See conversion chart for metric dimensions.

Door swing may be limited by door, frame, wall or hardware conditions.

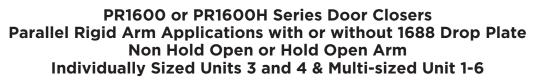
Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Hold Open Arm door closers without Fusible-link release 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.) unless otherwise noted.

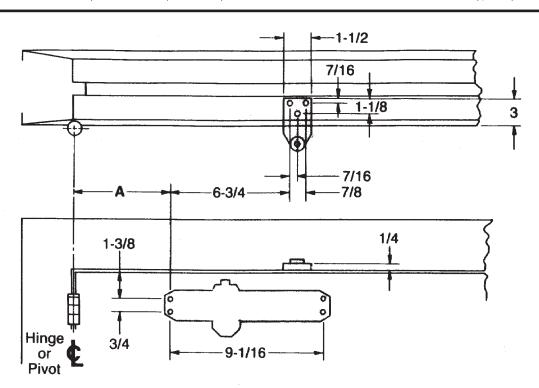
Fastener	Frame	Door	Drill
#14 type "A" sheet metal screw	wood	none	7/32" <i>(5.5mm)</i>
1/4-20 machine screw	metal	none	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	none	hollow metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
		aluminum or wood	3/8" (9.50mm.) thru



NORTON RIXSON ASSA ABLOY

TEMPLATE NUMBER
7316-1252

REV DATE **12/21** 



- Do not scale drawing.
- Right hand door shown.
- Dimensions shown in inches.
   Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A
To 100°	7
100° to 120°	6
Over 120°	3-1/2

METRIC CONVERSION					
inches	mm.	inches	mm.	inches	mm.
1/4	6.4	1-1/8	28.6	3-1/2	89
7/16	11.1	1-3/8	35	6	152
3/4	19.1	1-1/2	38.1	6-3/4	171
7/8	22.2	3	76.2	7	178
				9-1/16	230.2

PREPARATION FOR FASTENERS							
FASTENER DOOR or FRAME DRILL							
#14 type "A" sheet metal screw	wood	7/32" (5.5mm)					
1/4-20 machine screw	metal	#7 (.201" dia.) <i>or 5.10mm.</i> drill 1/4-20 tap					
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer					
	aluminum or wood	3/8" (9.50mm.) thru					
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer					



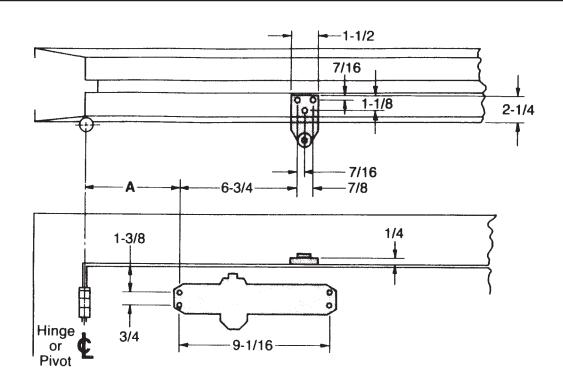
1600 Series Door Closers
Regular Arm Application With 2403 3/4 Bracket
Non Hold Open Arm for Molded or Bullnose Frame
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

RIXSON

ASSA ABLOY

TEMPLATE NUMBER **7316-1110** 

PEV DATE **12/21** 



- Do not scale drawing.
- Right hand door shown.
- Dimensions shown in inches.
   Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A
To 100°	7
100° to 120°	6
Over 120°	3-1/2

METRIC CONVERSION					
inches	mm.	inches	mm.	inches	mm.
1/4	6.4	1-1/8	28.6	3-1/2	89
7/16	11.1	1-3/8	35	6	152
3/4	19.1	1-1/2	38.1	6-3/4	171
7/8	22.2	2-1/4	57.2	7	178
				9-1/16	230.2

PREPARATION FOR FASTENERS							
FASTENER DOOR or FRAME DRILL							
#14 type "A" sheet metal screw	wood	7/32" <i>(5.5mm)</i>					
1/4-20 machine screw	metal	#7 (.201" dia.) or 5.10mm. drill 1/4-20 tap					
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8" (9.50mm.) door face opposite to closer					
	aluminum or wood	3/8" (9.50mm.) thru					
TBGN (optional)	all	9/32" (7.00mm.) thru 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer					



1600 Series Door Closers
Regular Arm Application With 2403 Bracket
Non Hold Open Arm for Molded or Bullnose Frame
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

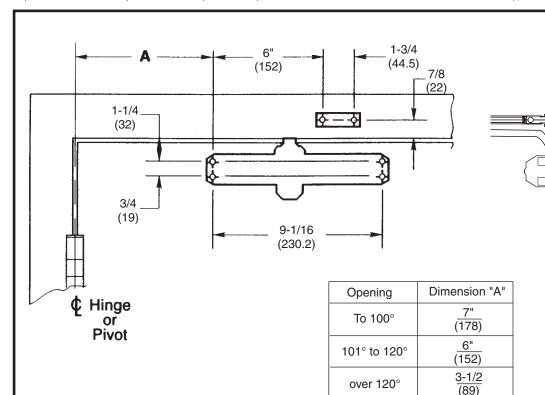
RIXSON

ASSA ABLOY

TEMPLATE NUMBER

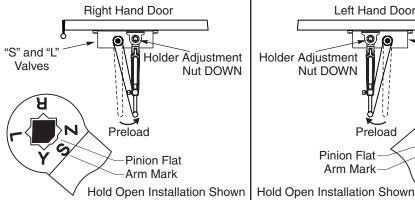
REV DATE **12/21** 

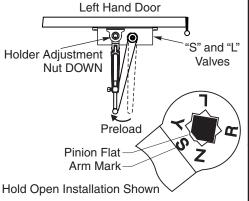
7316-1108



- 1. Do not scale drawing.
- 2. Right hand door shown.
- 3. Dimensions given in inches (millimeters).
- 4. Door swing may be limited by door, frame, wall or hardware conditions.
- 5. Hollow metal doors require channel or box type reinforcement when thru-bolt mount is specified.
- 6. Sleeve nuts and bolts may be required for wood or plastic faced fire door mounting.
- 7. Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.
- 8. Hold open arm door closers are not permitted to be used on fire doors.

# Position of Arm and Pinion Flat





Fastener	Door or Frame	Drill
#14 type "A" sheet metal screw	wood	7/32" (5.5mm)
1/4-20 machine screw	metal	#7 (.201 dia.) or 5.10mm. drill 1/4"-20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32"(7.00mm.) thru 3/8"(9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer



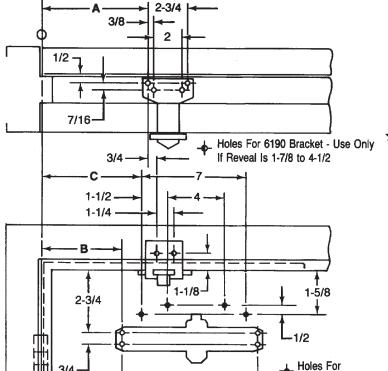
**1600 Series Door Closer Regular Arm Application** Non Hold Open or Hold Open Arm Individually Sized Units 3 and 4 and Multi-size Unit 1-6

RIXSON ASSA ABLOY

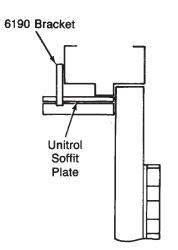
TEMPLATE NUMBER

7316-1102

01/22



Openii	ng	D	<u> </u>	D' 0	
Hold Open ★	Stop	Dim. A	DIM. B	Dim. C	
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	



## **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.

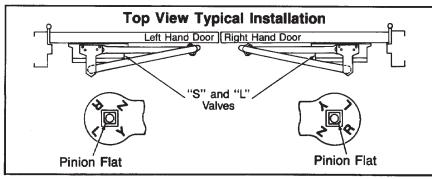
Models with a Hold Open arm suffix are not permitted to be used on fire doors.

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
IIICHES	THIII.		mm.		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



Hinge or Pivot

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

RIXSON

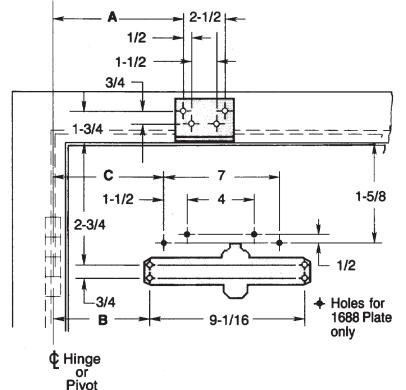
ASSA ABLOY

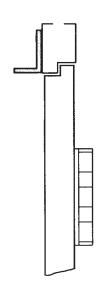
TEMPLATE NUMBER
7316-2354

REV DATE **12/21** 

Approved 2022-02-25

1688 Plate Only





Openi	ng	Dim A	Dim D	Dim. O	
Hold Open★ Stop		Dim. A	DIM. B	Dim. C	
85°	90°	15-1/8	13-1/4	14-1/4	
90°	95°	14-3/8	12-1/2	13-1/2	
95°	100°	13-3/4	11-7/8	12-7/8	
100°	105°	13-1/8	11-1/4	12-1/4	
105°	110°	12-5/8	10-3/4	11-3/4	
110°	115°	12-1/8	10-1/4	11-1/4	

### 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).

For metric dimensions follow Conversion Chart.

inches	mm.	inches	mm.	inches	mm.
1/2	13	9-1/16	230	12-7/8	327
3/4	19	10-1/4	260	13-1/8	333
1-1/2	38	10-3/4	273	13-1/4	337
1-5/8	41	11-1/4	286	13-1/2	343
1-3/4	44.5	11-3/4	298	13-3/4	349
2-1/2	63.5	11-7/8	302	14-1/4	362
2-3/4	70	12-1/8	308	14-3/8	365
4	101.5	12-1/2	318	15-1/8	384
7	178	12-5/8	321		

Top View Typical Installation					
Left Hand Door Right Hand Door					
"S" and "L" Valves					
Pinion Flat	Pinion Flat				

Fastener	Door or Frame	Drill		
SNB	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 42" to 48" (1.05-1.20m) Wide
With 2022 Flush Transom 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

TEMPLATE NUMBER

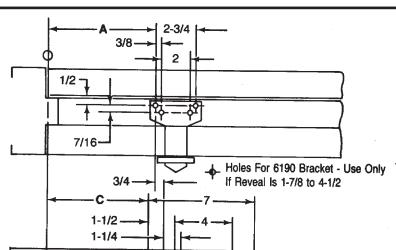
7316-2362

RIXSON

ASSA ABLOY

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12/21



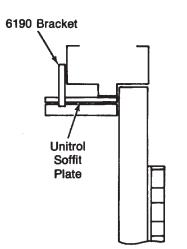
1-1/8-

2-3/4

Pivot

Opening		Di A	Di D	Di o	
Hold Open ★	Stop	Dim. A	Dim. B	Dim. C	
85°	90°	15	13-1/4	14-1/4	
90°	95°	14-1/4	12-1/2	13-1/2	
95°	100°	13-5/8	11-7/8	12-7/8	
100°	105°	13	11-1/4	12-1/4	
105°	110°	12-1/2	10-3/4	11-3/4	
110°	115°	12	10-1/4	11-1/4	

★ Door must be free to swing 5° beyond holdopen 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.

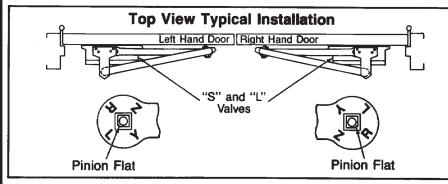
Models with a Hold Open arm suffix are not permitted to be used on fire doors.

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	12-1/4	311
3/8	9.5	4	101.5	12-1/2	317.5
7/16	11	4-1/2	114	12-7/8	327
1/2	13	7	178	13	330
3/4	19	9-1/16	230	13-1/4	336.5
1-1/8	28.5	10-1/4	260	13-1/2	342.5
1-1/4	31.5	10-3/4	273	13-5/8	346
1-1/2	38	11-1/4	285.5	14-1/4	361.5
1-5/8	41	11-3/4	298	15	380.5
1-7/8	47.5	11-7/8	301.5		
2	51	12	304.5		



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	9/32" (7.00mm.) hollow-metal 9/32" (7.00mm.) doo opposite to clos	
		aluminum or wood	3/8" (9.50mm.) thru



UNI-1600 or UNI-1600H Series Unitrol Door Closers
Parallel Arm Application for Doors 42" to 48" (1.05-1.02m) 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

RIXSON

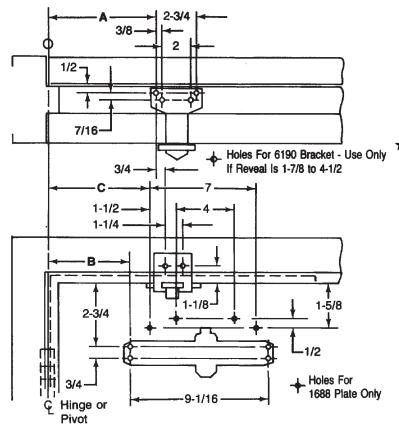
ASSA ABLOY

TEMPLATE NUMBER
7316-2356

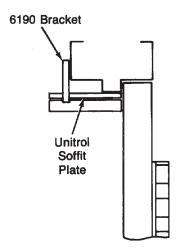
12/21

Approved 2022-02-25

Holes For 1688 Plate Only



Opening		Di- A	Dim D	DI 0
Hold Open ★	Stop	Dim. A	DIMI. B	Dim. C
85°	90°	12-5/8	11	12
90°	95°	12	10-3/8	11-3/8
95°	100°	11-3/8	9-3/4	10-3/4
100°	105°	10-7/8	9-1/4	10-1/4
105°	110°	10-3/8	8-3/4	9-3/4
110°	115°	10	8-3/8	9-3/8



#### 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.

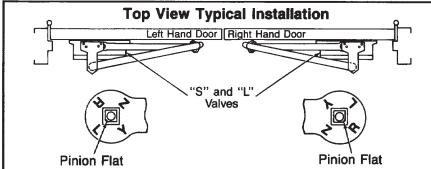
Models with a Hold Open arm suffix are not permitted to be used on fire doors.

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	10-1/4	260
3/8	9.5	4	101.5	10-3/8	263.5
7/16	11	4-1/2	114	10-3/4	273
1/2	13	7	178	10-7/8	276
3/4	19	8-3/8	212.5	11	279.5
1-1/8	28.5	8-3/4	222	11-3/8	288.5
1-1/4	31.5	9-1/16	230	12	304.5
1-1/2	38	9-1/4	235	12-5/8	320.5
1-5/8	41	9-3/8	238		
1-7/8	47.5	9-3/4	247.5		
2	51	10	254		



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



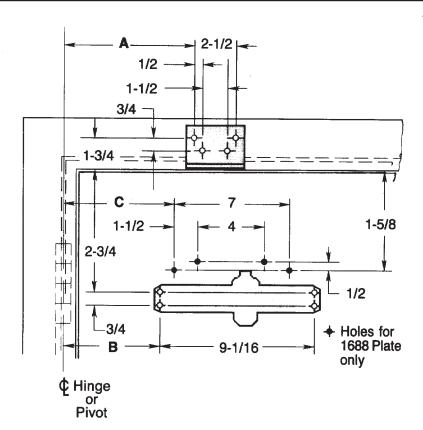
UNI-1600 or UNI-1600H Series Unitrol Door Closers
Parallel Arm Application for Doors 33" to 41" (0.85-1.0m) Wide
With Standard 6190 Bracket & With or Without 1688 Drop Plate
Non Hold Open or Hold Open Arm - All Arms With Spring Cushioned Stop
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

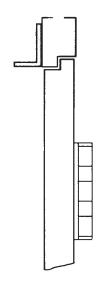
NORTON

ASSA ABLOY

TEMPLATE NUMBER
7316-2355

REV DATE **12/21** 





Opening		Dim A	D: D	D: 0		
Hold Open ★	Stop	Dim. A	Dim. B	Dim. C		
85°	90°	10-5/8	8-5/8	9-5/8		
90°	95°	9-7/8	8	9		
95°	100°	9-3/8	7-1/2	8-1/2		
100°	105°	9	7-1/8	8-1/8		
105°	110°	8-5/8	6-3/4	7-3/4		
110°	115°	8-1/4	6-3/8	7-3/8		

### 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.

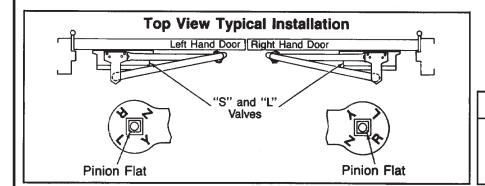
Sex bolts may be required for wood or plastic faced fire-door mounting.

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

For metric dimensions follow Conversion Chart.

inches	mm.	inches	mm.	inches	mm.
1/2	13	6-3/4	171	8-1/2	216
3/4	19	7	178	8-5/8	219
1-1/2	38	7-1/8	181	9	228.5
1-5/8	41	7-3/8	187	9-1/16	230
1-3/4	44.5	7-1/2	191	9-3/8	238
2-1/2	63.5	7-3/4	197	9-5/8	244
2-3/4	70	8	203	9-7/8	251
4	101.5	8-1/8	206	10-5/8	270
6-3/8	162	8-1/4	209.5		

Fastener	Door or Frame	Drill
SNB	hollow-metal	9/32" (7.00mm.) thru 3/8"(9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru



**TRADEMARK** 

UNI-1600 or UNI-1600H Series Unitrol Door Closers
Parallel Arm Application for Doors 28" to 32" (0.70-0.80m) Wide
With 2022 Flush Transom 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

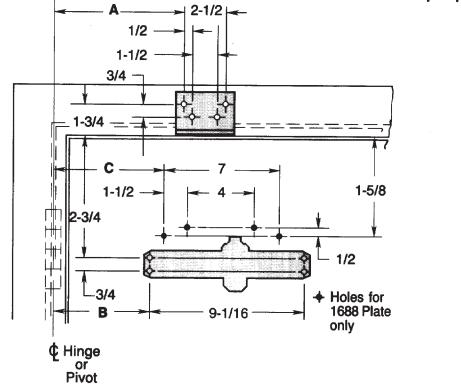
RIXSON

ASSA ABLOY

TEMPLATE NUMBER
7316-2360

REV DATE **12/21** 





Opening		Dim A	D'			
Hold Open ★	Stop	Dim. A	DIM. R	Dim. C		
85°	90°	12-3/4	11	12		
90°	95°	12-1/8	10-3/8	11-3/8		
95°	100°	11-1/2	9-3/4	10-3/4		
100°	105°	11	9-1/4	10-1/4		
105°	110°	10-1/2	8-3/4	9-3/4		
110°	115°	10-1/8	8-3/8	9-3/8		
Notes:						
Do not scale	e drawi	ng.				

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.

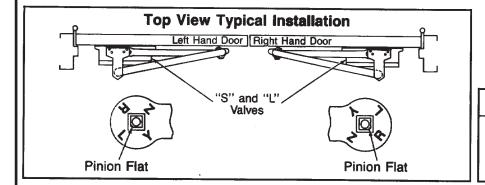
Sex bolts may be required for wood or plastic faced fire-door mounting.

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

For metric dimensions follow Conversion Chart.

	er meane amortelene tenear Gentreleit Chart.						
inches	mm.	inches	mm.	inches	mm.		
1/2	13	8-3/8	213	10-1/2	267		
3/4	19	8-3/4	222	10-3/4	273		
1-1/2	38	9-1/16	230	11	279		
1-5/8	41	9-1/4	235	11-3/8	289		
1-3/4	44.5	9-3/8	238	11-1/2	292		
2-1/2	63.5	9-3/4	248	12	305		
2-3/4	70	10-1/8	257	12-1/8	308		
4	101.5	10-1/4	260	12-3/4	324		
7	178	10-3/8	263.5				

		78	10-1/4	263.5	12-3/4	324
Fastener	Door or Frame	•		Dr	ill	
SNB	hollow-metal		9/32" (7.00mm.) thru 3/8"(9.50mm.) door fac opposite to closer		ace	
	aluminum or wood	į	3/	B" (9.50a	mm.) thr	u



**TRADEMARK** 

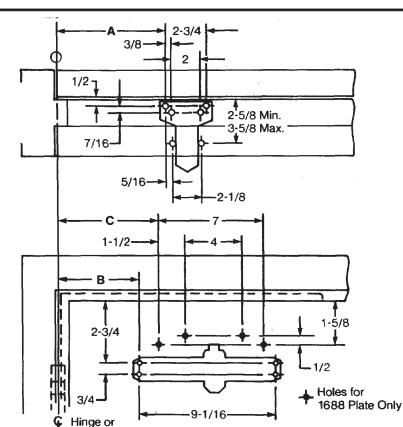
UNI-1600 or UNI-1600H Series Unitrol Door Closers
Parallel Arm Application for Doors 33" to 41" (0.85-1.0m) Wide
With 2022 Flush Transom Bracket & With or Without 1688 Drop Plate
Non Hold Open or Hold Open Arm - All Arms With Spring Cushioned Stop
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

ASSA ABLOY

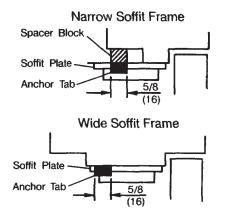
RIXSON

7316-2361

12/21



Openir	ng	Di- A	Di B	Dim. C	
Hold Open ★	Stop	Dim. A	DIM. B		
85°	90°	15	13-1/4	14-1/4	
90°	95°	14-1/4	12-1/2	13-1/2	
95°	100°	13-5/8	11-7/8	12-7/8	
100°	105°	13	11-1/4	12-1/4	
105°	110°	12-1/2	10-3/4	11-3/4	
110°	115°	12	10-1/4	11-1/4	



### 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.

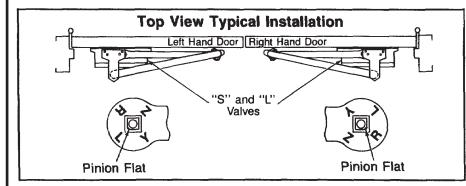
Models with a Hold Open arm suffix are not permitted to be used on fire doors.

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	12-1/4	311
3/8	9.5	4	101.5	12-1/2	317.5
7/16	11	4-1/2	114	12-7/8	327
1/2	13	7	178	13	330
3/4	19	9-1/16	230	13-1/4	336.5
1-1/8	28.5	10-1/4	260	13-1/2	342.5
1-1/4	31.5	10-3/4	273	13-5/8	346
1-1/2	38	11-1/4	285.5	14-1/4	361.5
1-5/8	41	11-3/4	298	15	380.5
1-7/8	47.5	11-7/8	301.5		
2	51	12	304.5		



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



**Pivot** 

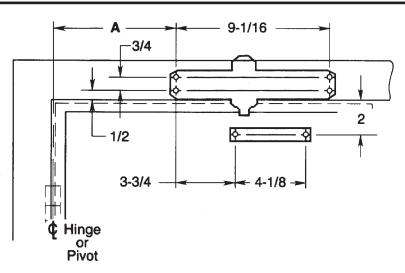
UNI-1600 or UNI-1600H Series Unitrol Door Closers
Parallel Arm Application for Doors 42" to 48" (1.05-1.20m) Wide
With 6191 Reinforcing Kit & With or Without 1688 Drop Plate
Non Hold Open or Hold Open Arm - All Arms With Spring Cushioned Stop
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

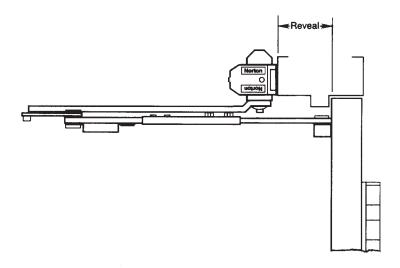
RIXSON

ASSA ABLOY

TEMPLATE NUMBER
7316-2368

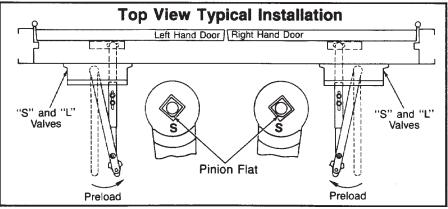
PREV DATE **12/21** 





Openin	Dim A	
Hold Open ★	Stop	Dim. A
85°	90°	9-1/8
90°	95°	8-3/8
95°	100°	7-3/4
100°	105°	7-3/8
105°	110°	6-3/4
110°	115°	6-1/2

inches	mm.	inches	mm.
1/2	13	6-3/4	171.5
3/4	19	7-3/8	187
2	51	7-3/4	196.5
3-3/4	95	8-3/8	212.5
4-1/8	104.5	9-1/16	230
6-1/2	165	9-1/8	232



### Notes:

Do not scale drawing.

Left hand door shown.

Dimensions are in inches.

See conversion chart for metric dimensions.

Door swing may be limited by door, frame, wall or hardware conditions.

Hollow-metal doors require channel or boxtype 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).

Fastener	Frame	Door	Drill
1/4-20 machine screw	metal	none	#7 (.201) <i>or 5.10mm</i> . drill 1/4-20 tap
#14 type "A" sheet metal screw	wood	none	7/32" (5.5mm)
SNB		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-J1600 or UNI-J1600H Series Unitrol Door Closers

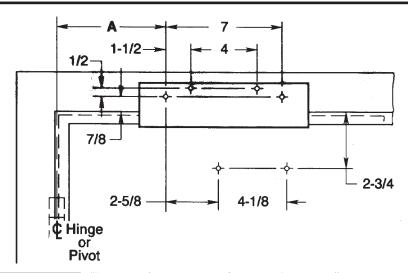
Top Jamb Application

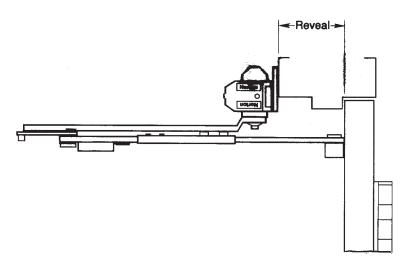
Non Hold Open or Hold Open Arm - All Arms With Spring Cushioned Stop
Individually Sized Units 3 and 4 & Multi-size Unit 1-6

ASSA ABLOY

TEMPLATE NUMBER
7316-2402

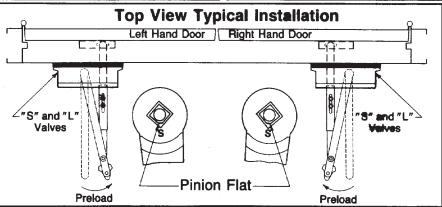
REV DATE **12/21** 





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

7	inches	mm.	inches	mm.
	1/2	13	7	178
	7/8	22	7-1/2	190.5
	1-1/2	38	7-3/4	196.5
	2-5/8	66.5	8-3/8	212.5
	2-3/4	70	8-3/4	222
	4	101.5	9-3/8	238
	4-1/8	104.5	10-1/8	257



## Notes:

Do not scale drawing. Left hand door shown.

Dimensions are in inches.

See conversion chart for metric dimensions.

Door swing may be limited by door, frame, wall or hardware conditions.

Hollow-metal doors require channel or boxtype 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).

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



UNI-J1600 or UNI-J1600H Series Unitrol Door Closers
Top Jamb Application With 1687 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

RIXSON

ASSA ABLOY

TEMPLATE NUMBER
7316-2404

PEV DATE **12/21**