

**STANLEY®**



D-1610/D-1611 SERIES: DOOR CLOSERS

# D-1610/D-1611 Series

**Door Closers**

**dormakaba** 

Trusted experts. Proven reliability. Simply STANLEY.

# TABLE OF CONTENTS

General Information .....	2, 3
Standard Application .....	4
Parallel Arm Application.....	5

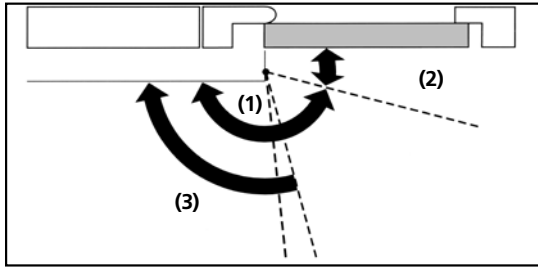
Top Jamb Application .....	6
Track Rail Arm Application.....	7
Accessories .....	8

## General Information

### Introduction

The D-1610 Series is a slim line closer uniquely designed to accommodate the standard aluminum storefront application foot print. The pinion and piston are constructed of cold forged steel maintaining critical tolerances for reliable performance. The nonhanded cylinder body incorporates a robust cast aluminum construction.

**Features** – Controls the door through the entire opening and closing cycles by providing adjustable backcheck upon opening and adjusting general and latch speeds through the closing cycle.



- (1) closing speed range 180° - 10°
- (2) latching speed range 10° - 0°
- (3) backcheck action range 75° - 180°

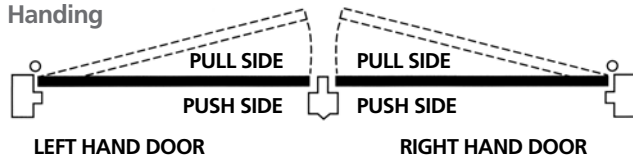
**Non-Handed** – Can be used on RH and LH doors for both push side and pull side mounting.

**Non-Critical Regulation** – The separate adjustments for backcheck, general and latch speeds are equipped with non-critical “V-Slot” regulating valves which allow for fine tuning the closing and latching speeds as well as the backcheck intensity.

**Packing** – All D-1610 Series Door Closers with standard arm sets are packed for mounting on standard, parallel arm or top jamb applications. All closer assemblies are packed 10 per carton. Tracks for track mounted closers are packed separately.

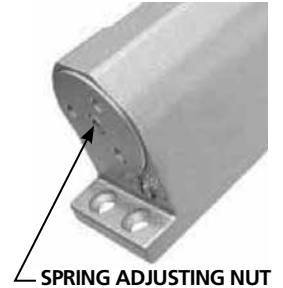
**ANSI/BHMA Specifications** – The D-1610 Series Door Closers has been Certified ANSI/BHMA A156.4 Grade 1, UL10C.

### Handing



### Adjustable Spring Power –

D-1610 series Door Closers are adjustable from size 2 – 5 (3lbf – 11lbf closing force measured at 30” from the door pivot) The D-1611 Series Door Closers are adjustable from size 1 – 4 (2lbf – 8lbf closing force measured 30” from the pivot). The D-1611 Series Door Closers are designed to meet entrance accessibility requirements of 5lbf opening force or less.



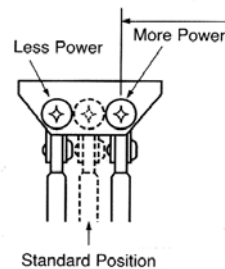
**All Season Fluid** – All season fluid eliminates the need for seasonal adjustment.

**High Impact Cover (Optional)** – Optional high impact self-extinguishing decorative cover is available on all Stanley D-1610 Series Closers.

**Maintenance Free** – Door Closers mounted in accordance with the provided installation instructions are maintenance free from periodic inspection and adjustment.

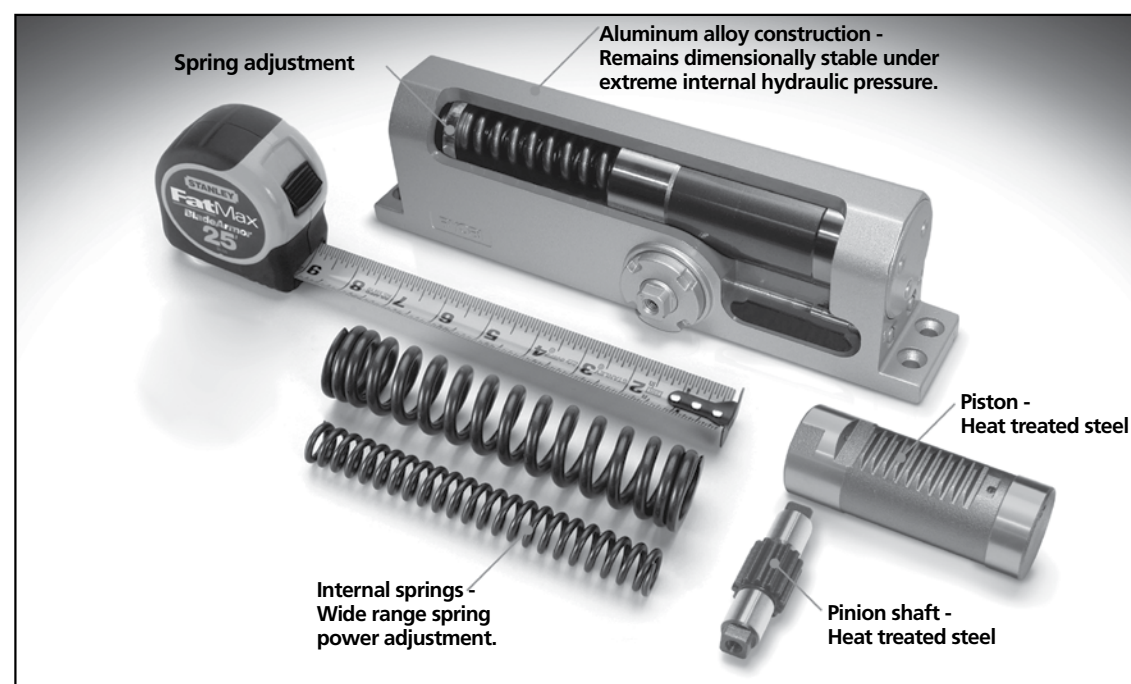
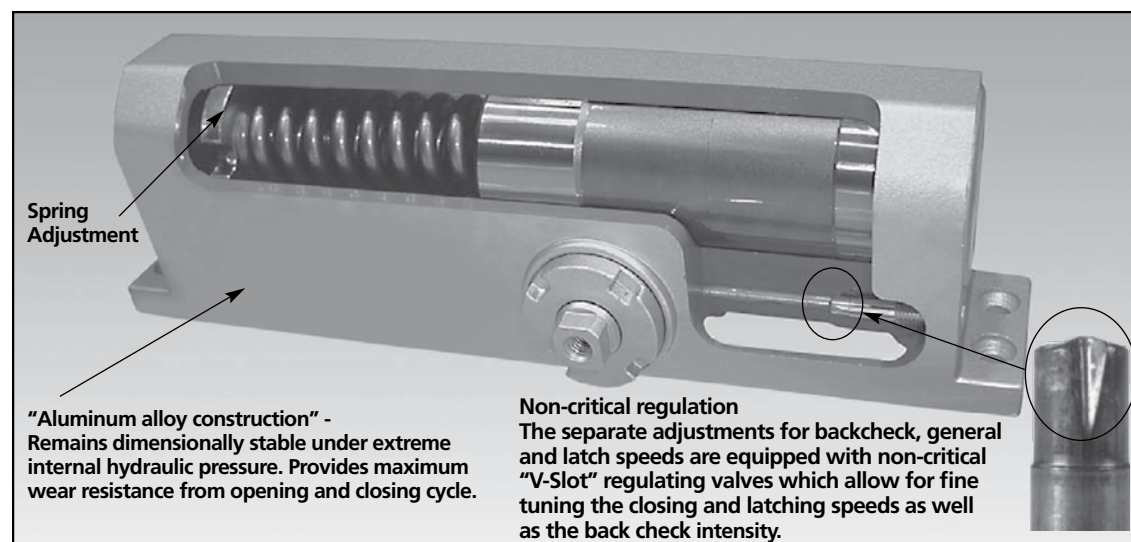
**Through Bolts and Sex Nuts** – When through bolting is ordered, factory will furnish sex nuts for use with the machine screws furnished with the closer. Nuts are sized to accommodate 1-3/8” or 1-3/4” thick doors.

**Closing Power Adjustment** – The D-1610 Series Door Closers have the provision to adjust the leverage of the arms by changing the pivot position of the arm in the foot; thus the closing force at the latch can be increased or decreased.



Arm Options Suffix Description	
L	Long Rod Forearm (Top Jams only)
H	Standard Hold Open
PH	Parallel Hold Open

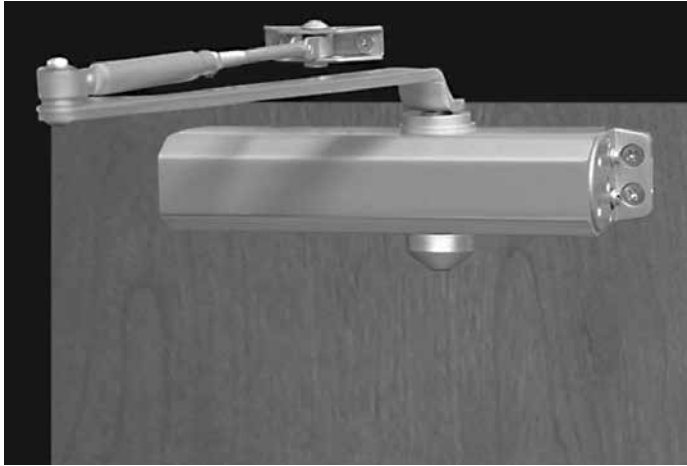
## General Information



## How To Order

D-161	0	PH	FC	689	SN
Model. No.	Size	Arm Type	Cover	Finishes	Fasteners
D-161	1- size 1-4 0- size 2-5	L- Long Rod Forearm (TJ only) H - Standard Hold Open PH - Parallel Hold Open	FC- Option Full Cover	689 690 691 693 695 696	SN - Sex Nuts & Bolts Wood & Machine Screws furnished standard SEC - Security Screws

# Standard Application



Standard D-1610 Door Closer

## D-1610 Series Door Closer Specifications

- Closer mounted on PULL side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.

### Maximum Door Opening

#### 120° Opening

A = 12-3/8" (314 mm)

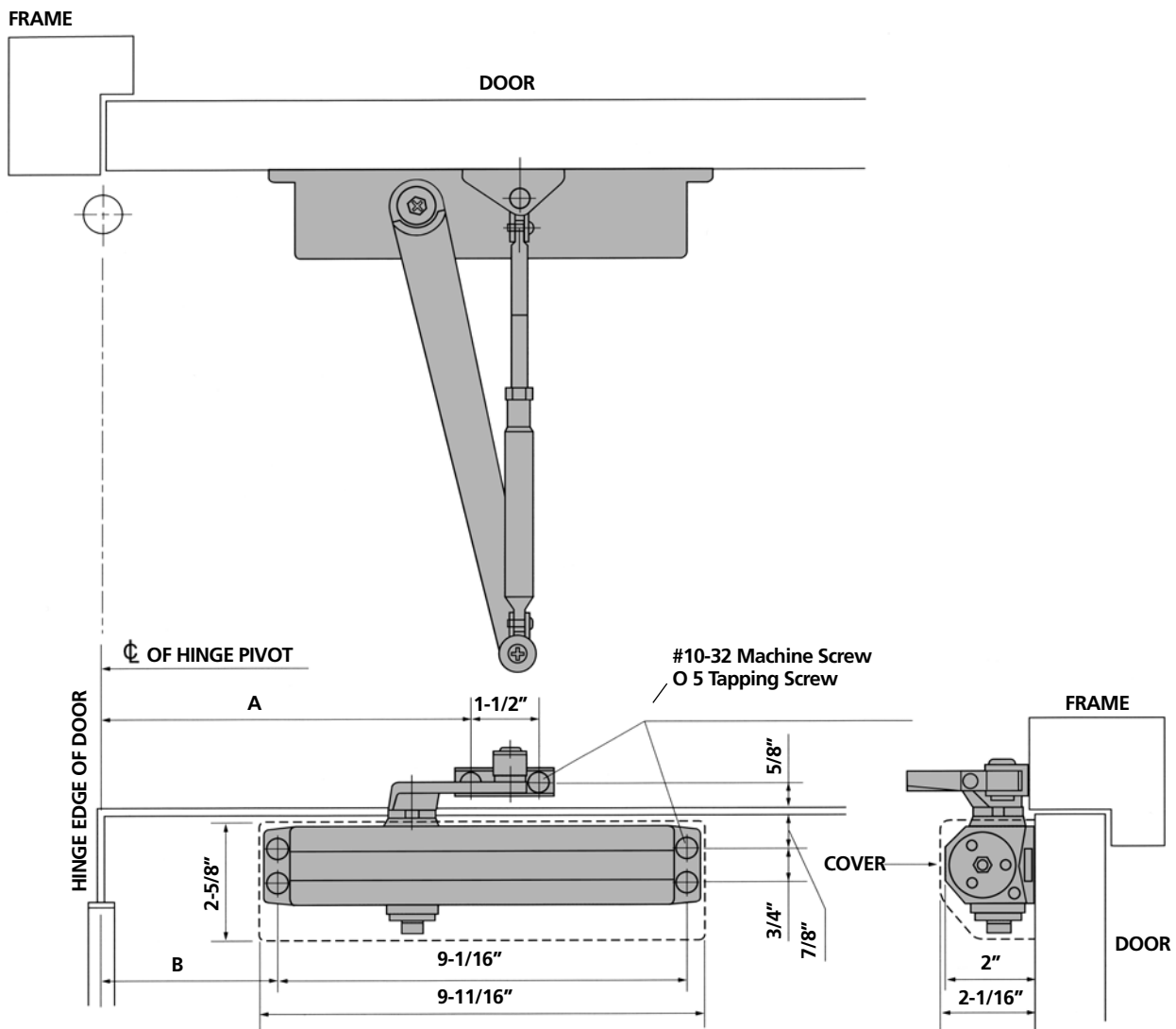
B = 6-3/4" (172 mm)

#### 180° Opening

A = 9-1/2" (241 mm)

B = 3-1/2" (89 mm)

Hold-open points up to maximum door opening with hold open arm.



## Parallel Application

### D-1610 Series Door Closer Specifications

- Closer mounted on PUSH side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.

### Maximum Door Opening

#### 120° Opening

A = 7-3/4" (197 mm)

B = 6-1/8" (156 mm)

#### 180° Opening

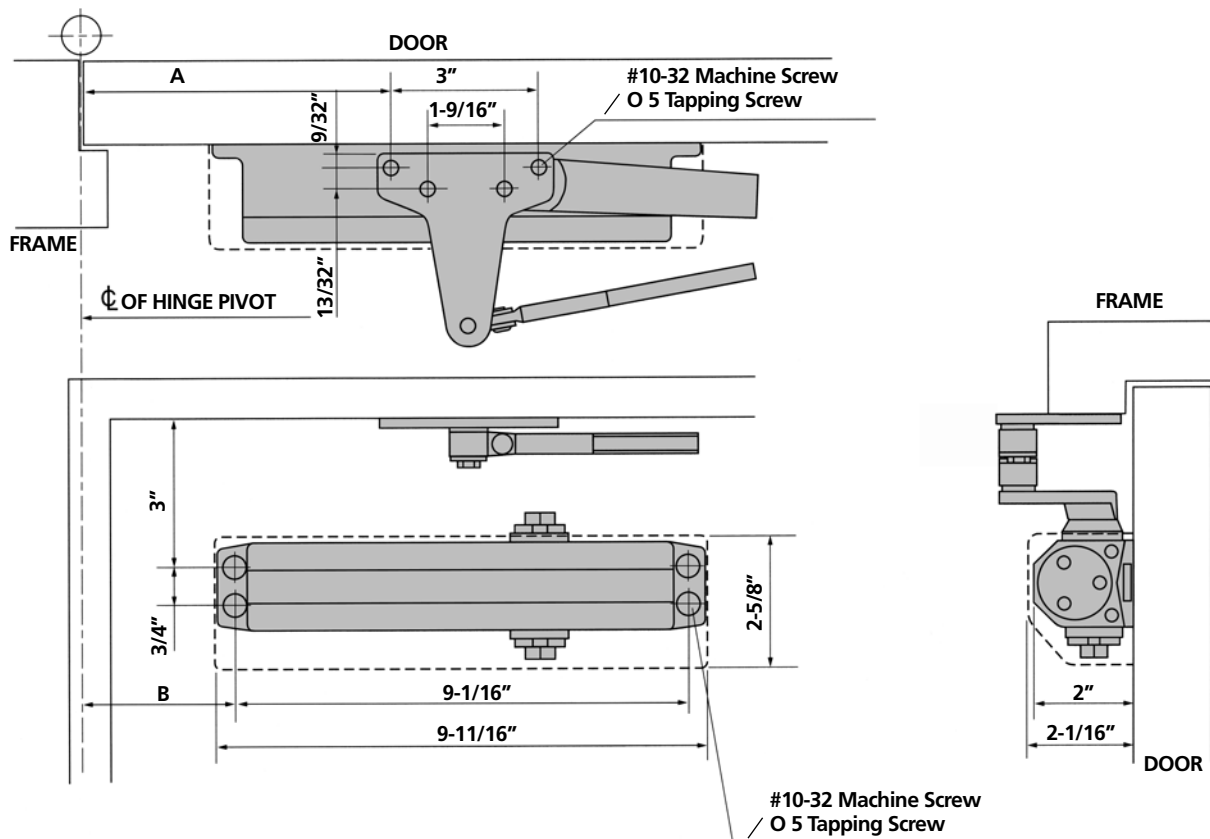
A = 5-3/4" (146 mm)

B = 4-1/8" (105 mm)

Hold-open points up to maximum door opening with hold open arm.



Parallel D-1610 Door Closer



# Top Jamb Application

## D-1610 Series Door Closer Specifications

- Closer mounted on PUSH
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit)
- Standard reveals up to 3-15/32" (88 mm)
- For deeper reveals use long rod and shoe A16-401L (See page 7)
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.

## Maximum Door Opening

### 120° Opening

A = 6-3/4" (172 mm)

B = 12-3/8" (314 mm)

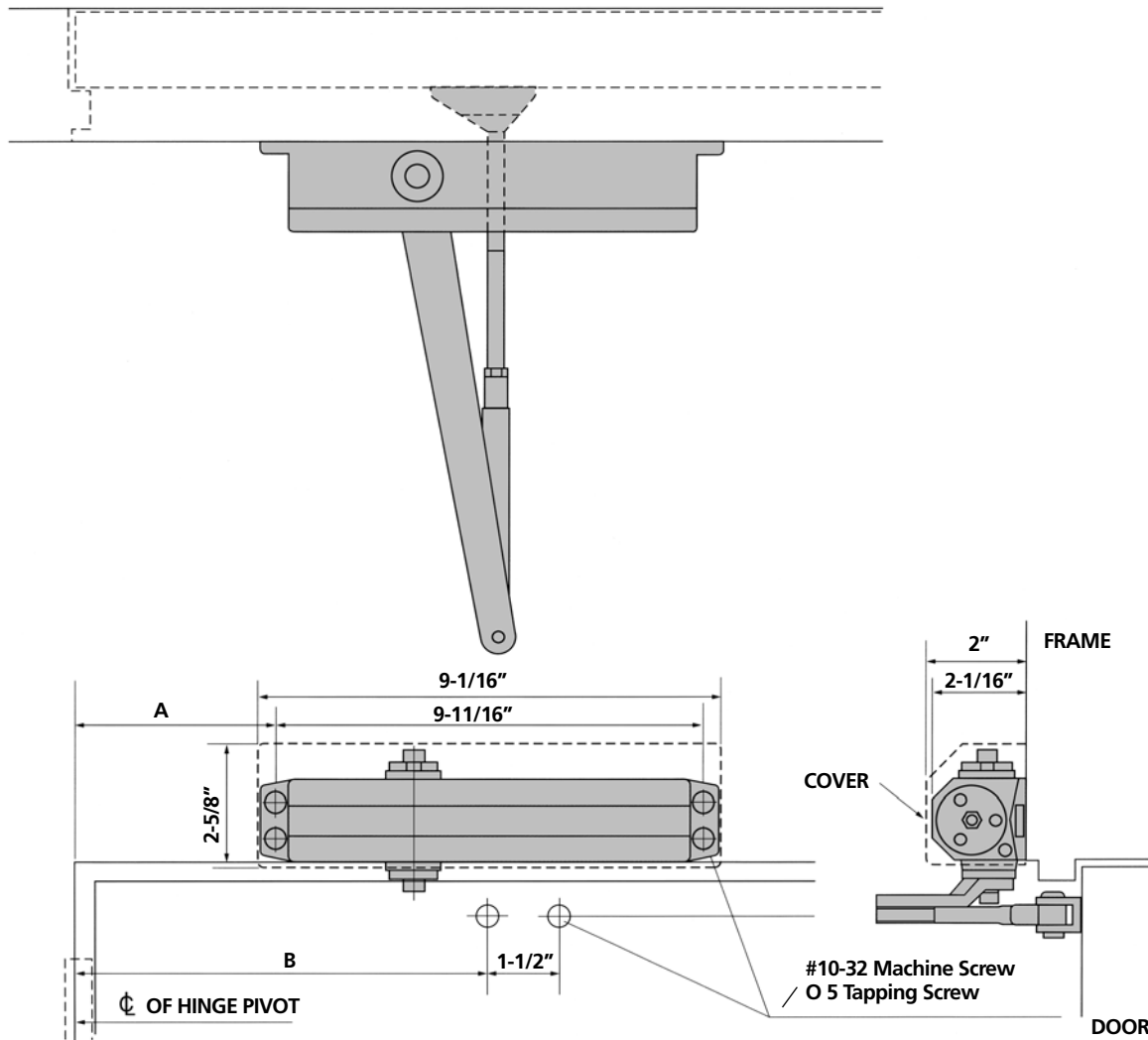
### 180° Opening

A = 3-1/2" (89 mm)

B = 9-1/2" (241 mm)




Top Jamb D-1610 Door Closer



## Installation Tips

### Power Adjustment Chart

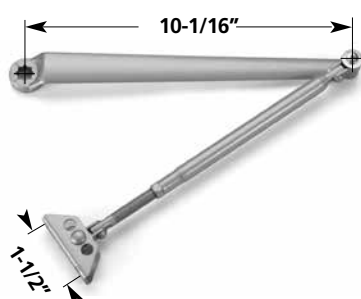
Closer Size	Max. Door Width		Turns of Spring Adjusting Screw							
	Exterior	Interior	D-1610				D-1611			
			From preset		From minimum		From preset		From minimum	
			Maximum Door Opening							
			120°	180°	120°	180°	120°	180°	120°	180°
	—	—	—	—	—	—	—	3	—	3
1	—		—	.1	—	0	—	0	—	6
2	Less than 2'-6" (762mm)	3'-2" (965mm)	0	4	1	5	2	7	8	13
3	2'-6" (762mm)	2'-8" (815mm)	6	13	7	14	10	—	16	—
4	3'-0" (914mm)	3'-8" (1118mm)	14	—	15	—	14	—	20	—
5	3'-6" (1067mm)	4'-0" (1219mm)	19	—	20	—	—	—	—	—

D-1610 Factory preset is 2  
D-1611 Factory preset is 1

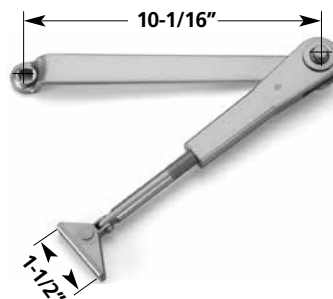
Set closer for 5ft-lbs for ADA compliance using Door Force Gauge: see section 4.13.10 of the ADA Standards for Accessible Design. Application conditions may vary. Properly adjust spring and/or hydraulics to suit application requirements.

## Accessories

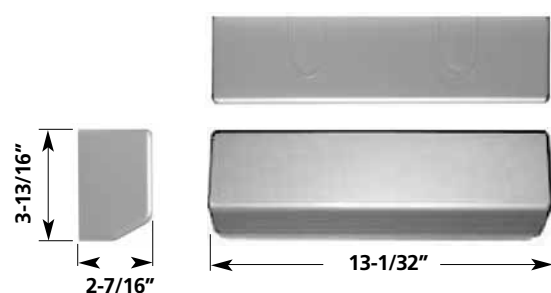
### Standard Arm Set A16-401



### Standard Arm Set A16-401



### Full Cover (Optional) C-165 Plastic



### Standard Arm with Long Rod and Shoe Set A16-401L used on Reveals 3-1/2" – 8"



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**STANLEY®**



D-3550 / D-3551 SERIES: DOOR CLOSERS

# D-3550 / D-3551 Series

**Door Closers**

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# TABLE OF CONTENTS

General Information .....	2, 3
How To Order .....	3
Standard Application .....	4
Parallel Arm Application.....	5

Top Jamb Application .....	6
Heavy Duty Arm Application .....	7
Track Rail Arm Application.....	8
Accessories .....	9-11

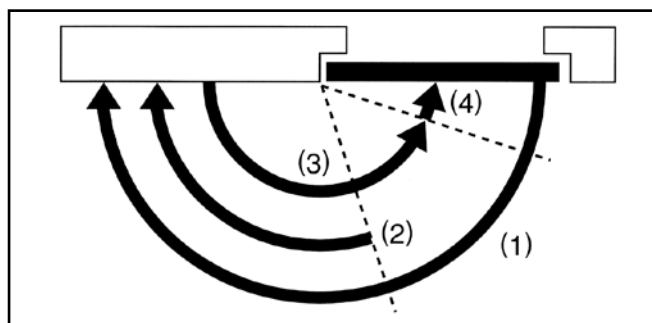
## General Information

### Introduction

The model D3550 Series is Stanley's most versatile Door Closer. The reduced body profile provides ease of installation on a variety of applications. In addition the R-14 Silicon Aluminum construction provides dependable performance under heavy loads associated with high use institutional applications. The D3550 Closer accommodates a variety of standard and heavy-duty arm applications.

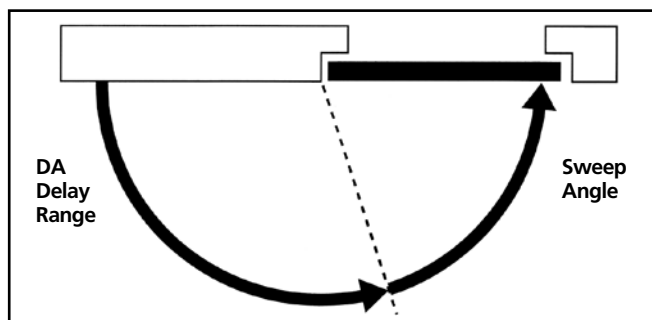
### Features

Controls the door through the entire opening and closing cycles by providing adjustable backcheck upon opening and adjusting general and latch speeds through the closing cycle.



- (1) opening swing, no checking
- (2) backcheck
- (3) general speed
- (4) latch speed

**Delayed Action - Optional** – The D-3550DA/ D-3551DA Series Door Closers are equipped with a separate hydraulic valve adjustment to delay the closing speed from 180 to 70 degrees of door opening range.



**Non-Handed** – Can be used on both RH and LH doors for both push side and pull side mounting.

**Adjustable Spring Power** – The D-3550 Series Door Closers are adjustable from size 2 through 6 with 15% adjustment over size 6. The D-3551 Series Door Closers are adjustable from size 1 through 4. The D-3551 Series Door Closers are designed to meet entrance accessibility requirements of 5 LBF opening force or less.

**Non-Critical Regulation** – The separate adjustments for backcheck, general and latch speeds are equipped with non-critical "V-Slot" regulating valves which allow for fine tuning the closing and latching speeds as well as the backcheck intensity.

**All Season Fluid** – All season fluid eliminates the need for seasonal adjustment. Special High Silicon Aluminum Alloy Housing All D-3550 / D-3551 Series Door Closers are constructed of Stanley R14 HIGH SILICON ALUMINUM ALLOY to exceed the ANSI/BHMAA156.4 Grade 1 requirements.

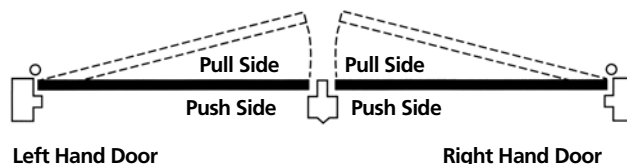
**Forged Arms** – Heavy duty forged arms are interchangeable between the D-3550 and D-4550 Series Door Closers.

**High Impact Cover** – All D-3550 / D-3551 Series Door Closers are shipped with a high impact self-extinguishing decorative cover.

**Special Rust Inhibitor (SRI) - Optional** – For installations where a higher level of corrosive resistance is required.

**Maintenance Free** – Door Closers mounted in accordance with the provided installation instructions are maintenance free from periodic inspection and adjustment.

### Handing



## General Information

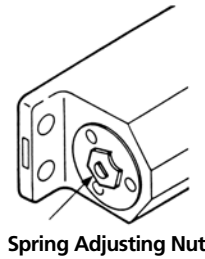
**Closing Power Adjustment – D-3550** – Size 2 – 6 with 15% adjustment over size 6. The D-3550 Series is adjusted to size 3 before leaving the factory.

**D-3551** – Size 1 – 4 with 15% adjustment over size 4. The D-3551 Series Door Closer is specially designed for doors where the door opening forces shall be 5 LBF or less through 90°. The D-3551 Door Closer is adjustable up to a size 4.

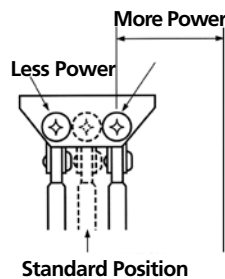
The D-3551 Series is adjusted to size 2 before leaving the factory.

**Latching Power Adjustment –** The D-3550 / D-3551 Series Door Closers have the provision to adjust the leverage of the arms by changing the pivot position of the arm in the shoe. The shoe itself does not have to be removed from the door or jamb.

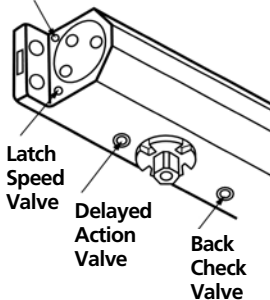
**Delayed Action** – A delayed action feature is available with this series for all applications and arms. The feature permits the door to close very slowly through the delayed action cycle range. To order add suffix DA to closer number.



Spring Adjusting Nut



General Speed Valve



Arm Options Suffix Description		Page
L	Long Rod Forearm (Top Jams only)	9
H	Standard Hold Open	4
PH	Parallel Hold Open	5
EDA	Heavy Duty Arm	7
H-EDA	Heavy Duty Arm w/Hold Open	7
S	Heavy Duty Arm w/Stop	7
CS	Heavy Duty Arm w/Compression Stop	7
HS	Heavy Duty Arm w/Hold Open and Stop	7
HCS	Heavy Duty Arm w/Hold Open & Comp. Stop	7
T	Track Mount	8
HT	Track Mount w/Hold Open	8
TCS	Track Compression Stop	8

**Packing** – All D-3550 / D-3551 Series Door Closers with standard arm sets are packed for mounting on standard, parallel arm or top jamb applications. All closer assemblies are packed 4 per carton. Tracks for track mounted closers are packed separately.

**Through Bolts and Sex Nuts** – When through bolting is ordered, factory will furnish sex nuts for use with the machine screws furnished with the closer. Nuts are sized to accommodate 1-3/8" or 1-3/4" thick doors.

**ANSI and U.L. Specifications** – The D-3550/D-3551 Series Door Closers have been Certified to the requirements of the ANSI/ BHMA Standard A156.4 - 2000 Grade 1.

Listed with Underwriters' Laboratories, Inc. and Underwriters' Laboratories of Canada. "For Self-Closing Doors Without Hold-Open Feature" on R7525(R).

D-3550 / D-3551 Series Door Closers have been certified by UL to be in compliance with UL 10 C and UBC 7.2 (1997).



## How To Order D-3550/D-3551

D-355	0	DA	EDA	689	SN
Model. No.	Size	Options	Arm Type	Finishes	Fasteners
D-355	0– See Closing Power Adjustment page 5 1– See Closing Power Adjustment page 5	DA – Delayed Action (optional)	L– Long Rod Forearm (TJ only) H – Standard Hold Open PH – Parallel Hold Open EDA – Heavy Duty Arm H-EDA – Heavy Duty Arm w/ Hold Open S – Heavy Duty Arm w/ Stop CS – Heavy Duty Arm w/Compression Stop HS – Heavy Duty Arm w/ Hold Open & Stop HCS – Heavy Duty Arm w/ Hold Open & Comp. Stop T – Track Mount HT – Track Mount w/ Hold Open TCS– Track Compression Stop	689 690 691 693 695 696	SN – Sex Nuts & Bolts Wood & Machine Screws furnished standard SEC – Security Screws

# Standard Application

## D-3550 / D-3551 Series Door Closer Specifications

- Closer mounted on PULL side of door
- See installation instructions for additional template options.
- Contact dormakaba for Technical Support.

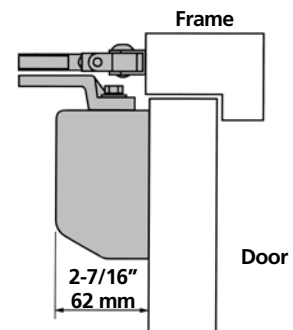
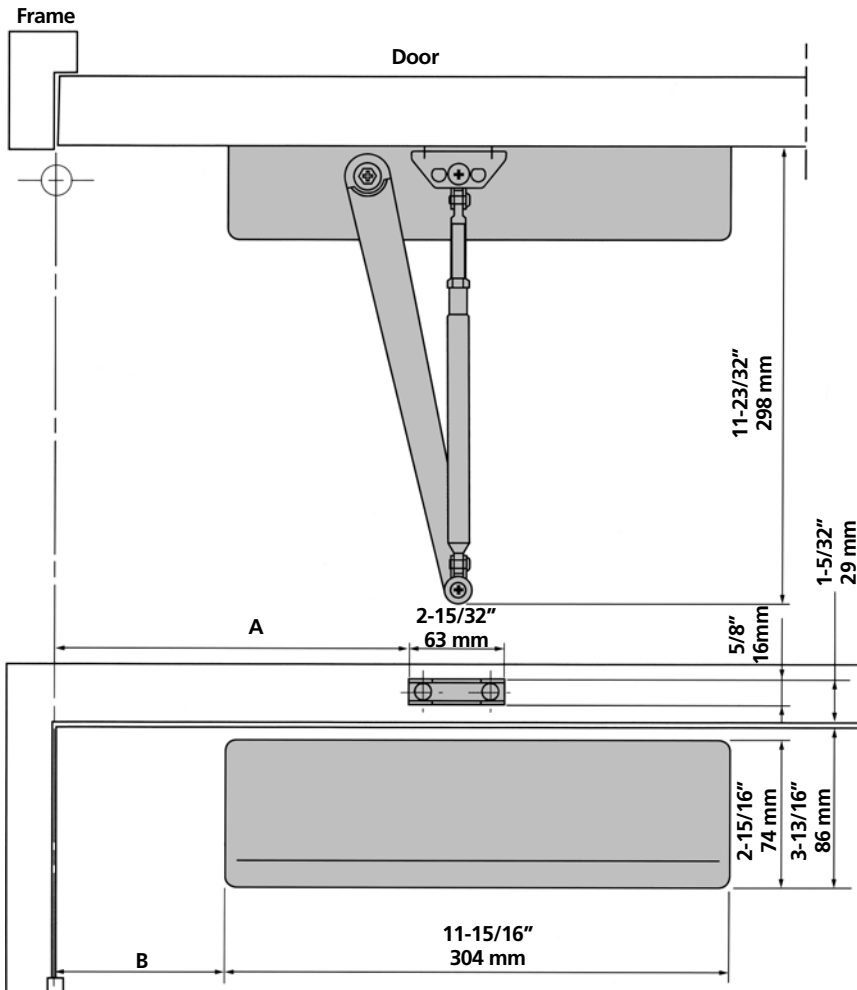
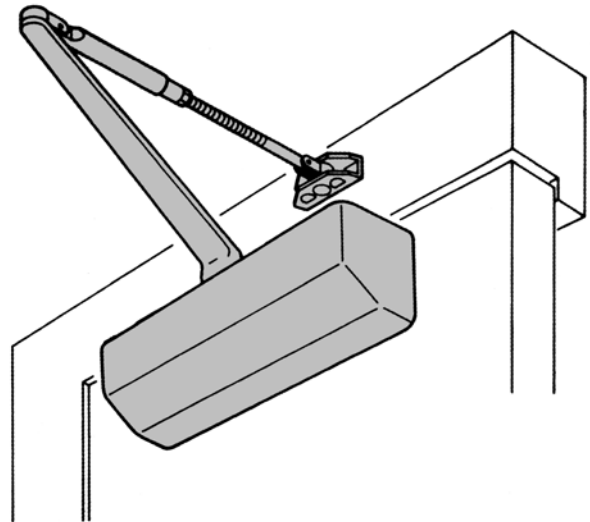
### Maximum Door Opening

#### 180° Opening

A = 9-3/32" (236 mm)

B = 4-3/32" (104 mm)

Hold-open points up to maximum door opening with hold open arm.



## Parallel Arm Application

### D-3550 / D-3551 Series Door Closer Specifications

- Closer mounted on PUSH side of door
- See installation instructions for additional template options.
- Contact dormakaba for Technical Support.

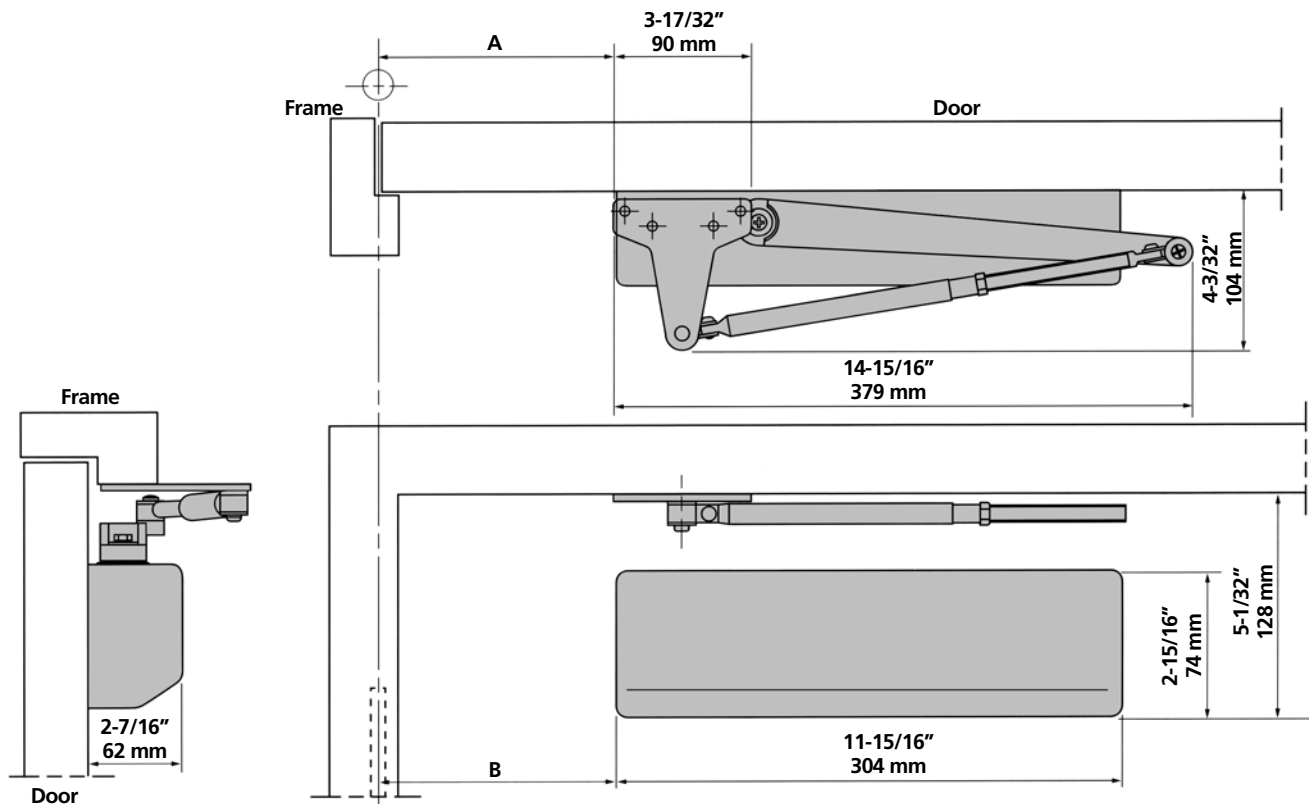
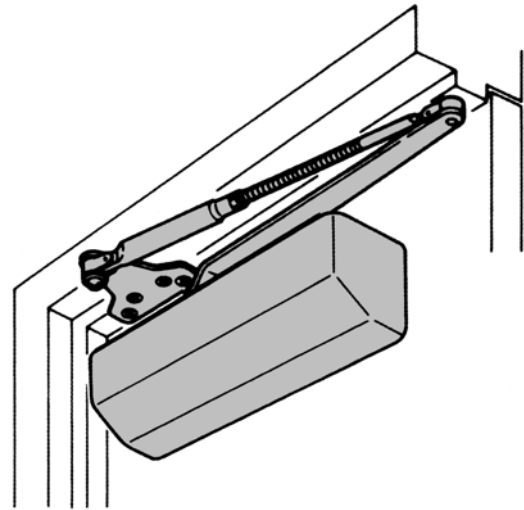
### Maximum Door Opening

#### 180° Opening

A = 6-3/32" (155 mm)

B = 1-15/16" (50 mm)

Hold-open points up to maximum door opening with hold open arm.



# Top Jamb Application

## D-3550 / D-3551 Series Door Closer Specifications

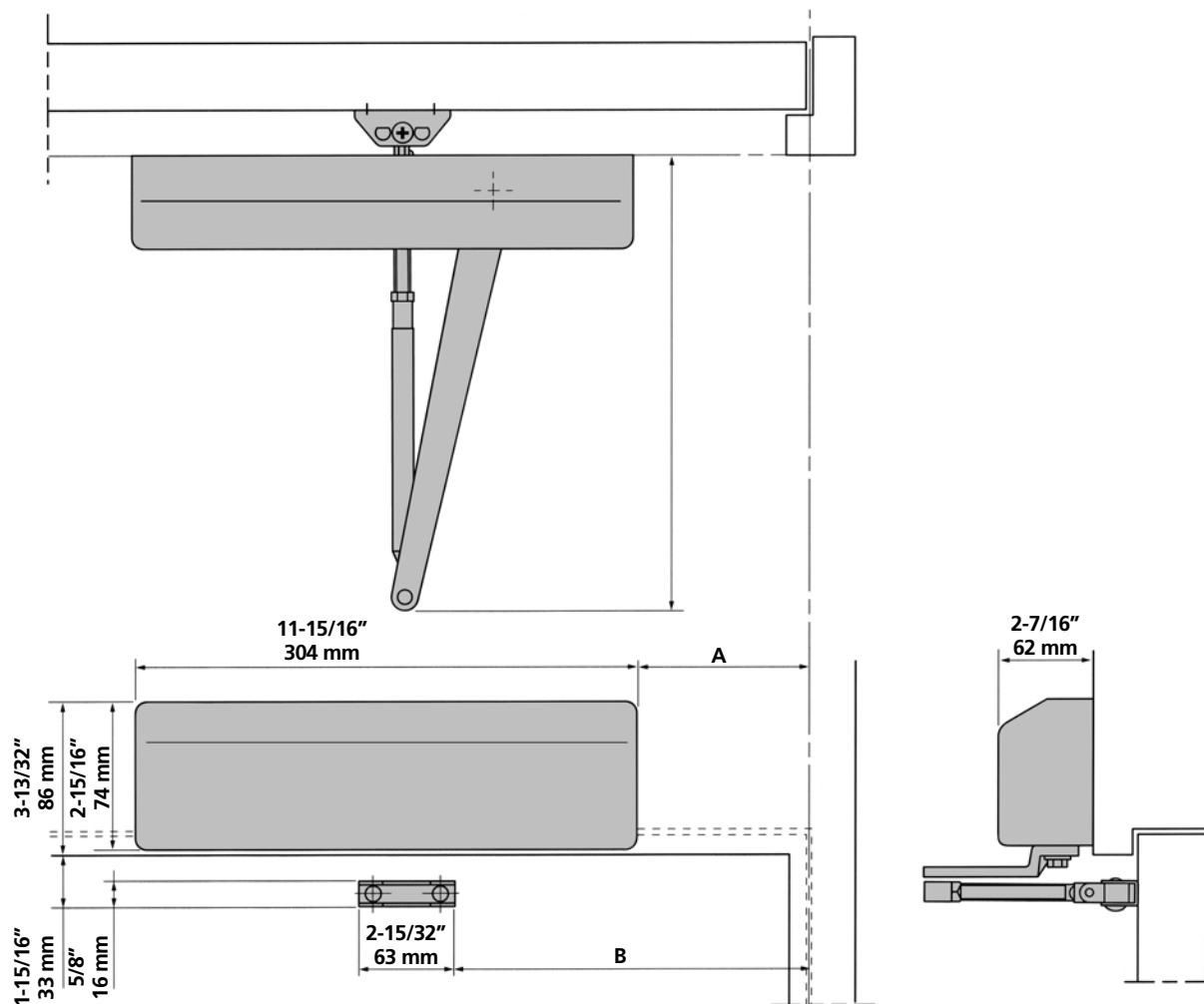
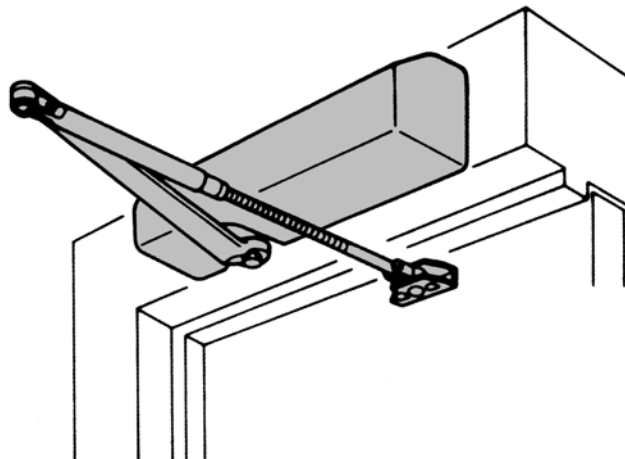
- Closer mounted on PUSH side of door
- See installation instructions for additional template options.
- Standard reveals up to 3-5/32" (78 mm)
- For deeper reveals use long rod and shoe A45-501L (See page 8)
- Contact dormakaba for Technical Support.

## Maximum Door Opening

## 180° Opening

$$A = 4\text{-}3/32'' \text{ (104 mm)}$$

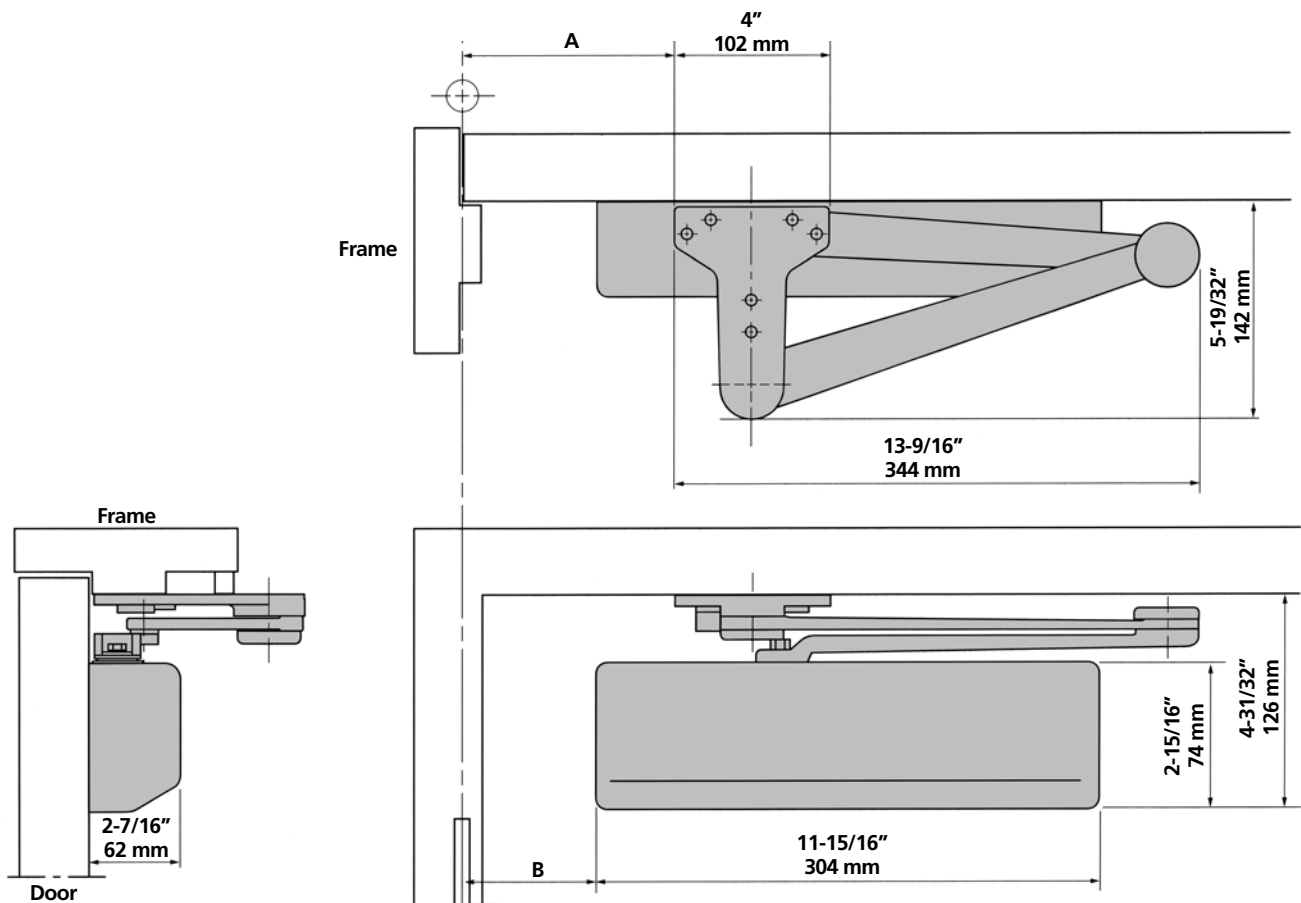
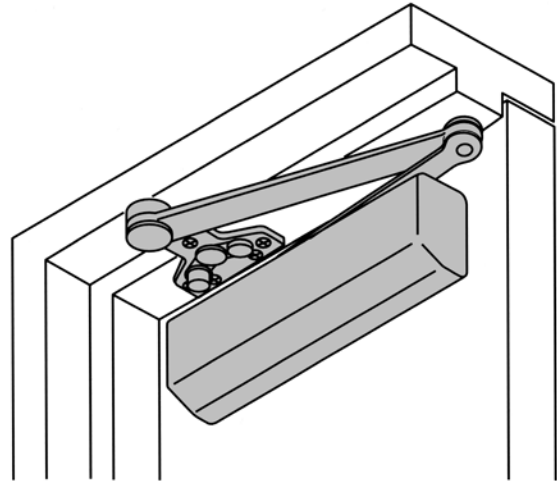
B = 9-9/32" (236 mm)



## Heavy Duty Arm Application

### D-3550 / D-3551 Series Door Closer Specifications

- EDA, H-EDA, S, CS, HS and HCS
- Closer mounted on PUSH side of door
- See installation instructions for additional template options.
- Contact dormakaba for Technical Support.



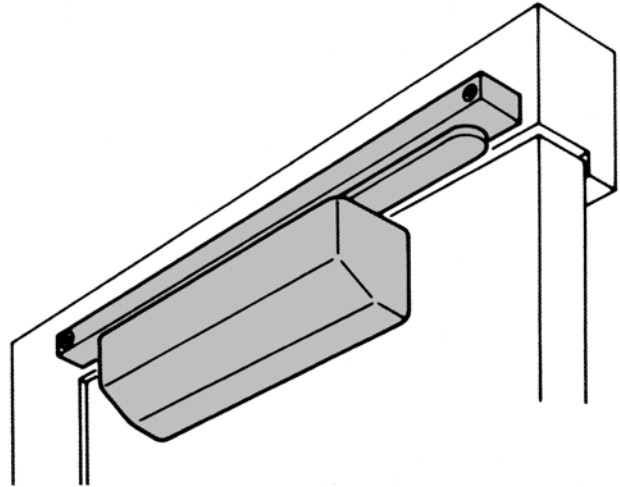
# Track Rail Arm Application

## D-3550 / D-3551 Series Door Closer Specifications

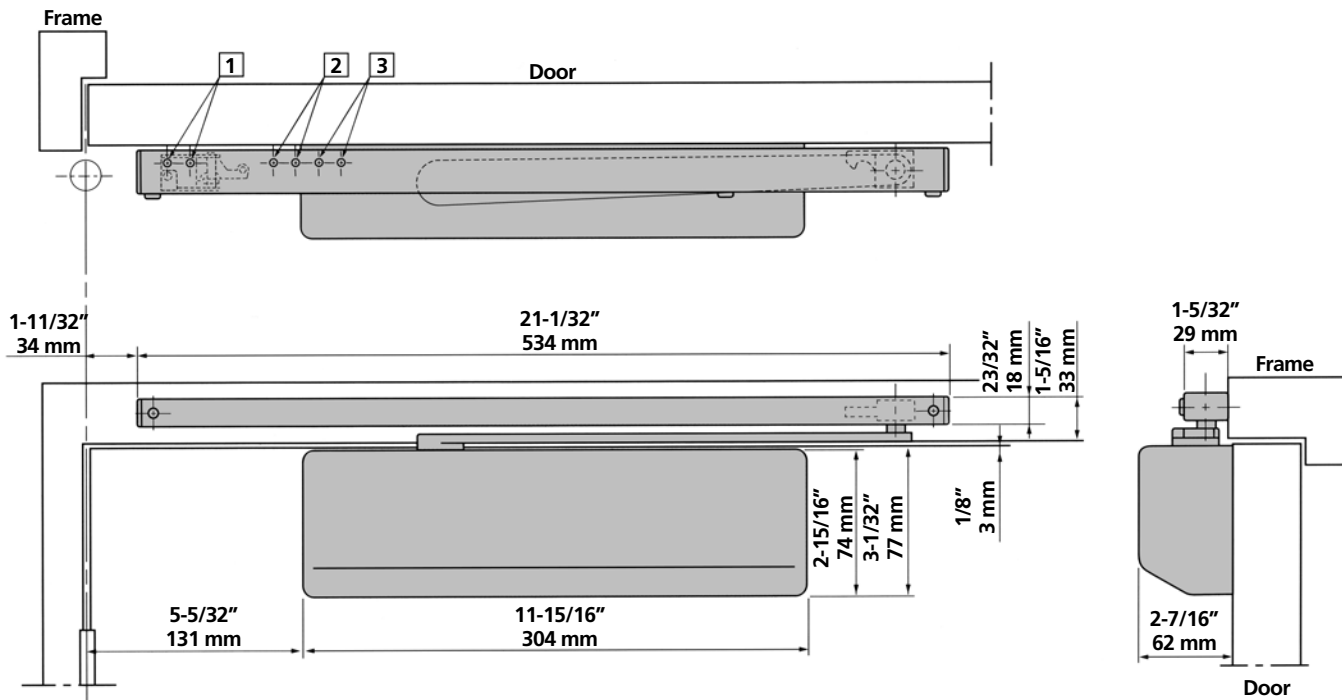
- T, HT, TCS Application
- Closer mounted on PULL side of door
- Contact dormakaba for Technical Support.

### Maximum Door Opening

120° Opening

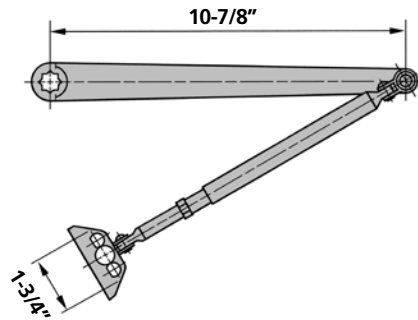


Hold Open Device	1	2	3
Hold Open Angle	108°	87°	81°

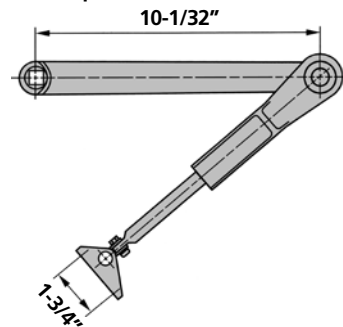


## Accessories

### Standard Arm Set A45-501

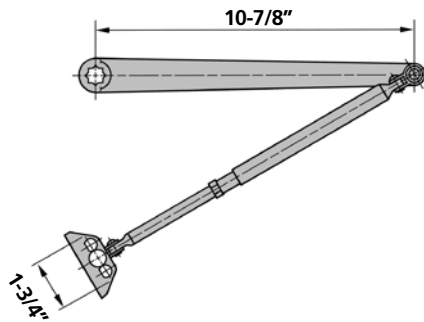


### Standard Hold-Open Arm Set A45-501H



### Standard Arm Set with Long Rod and Shoe Set A45-501L

- For reveals from 2-1/2" to 8"

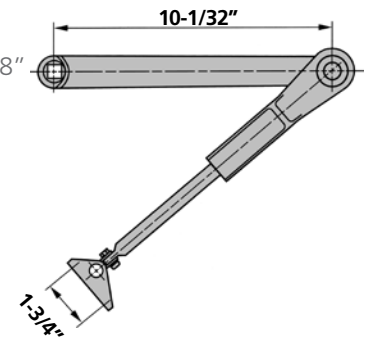


### Standard Hold-Open Arm with Long Rod and Shoe Set A45-501HL

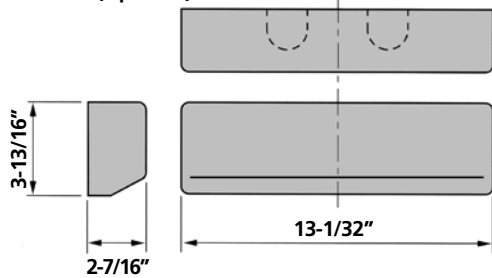
- For reveals from 3-3/16" to 4-13/16"

#### A45-501HXL

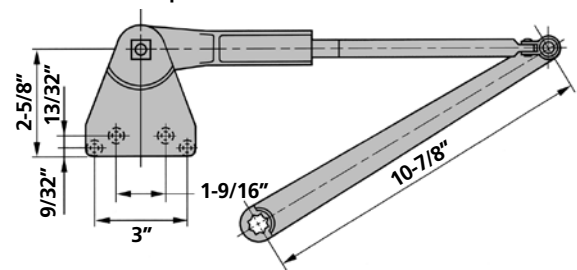
- For reveals from 4-7/8" to 8"



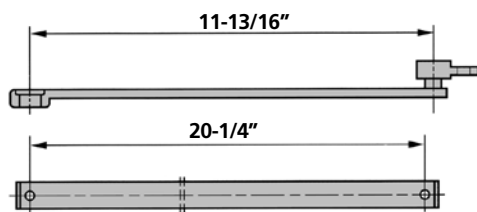
### Full Cover (Optional) C-455 Plastic



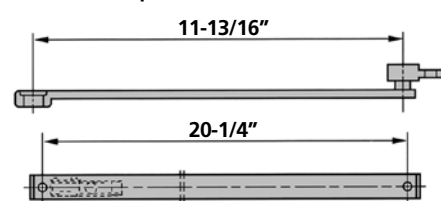
### Parallel Hold-Open Arm Set A45-503H



### Track Rail Arm Set A45-507T

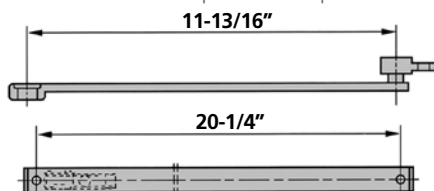


### Track Rail Hold-Open Arm Set A45-507HT



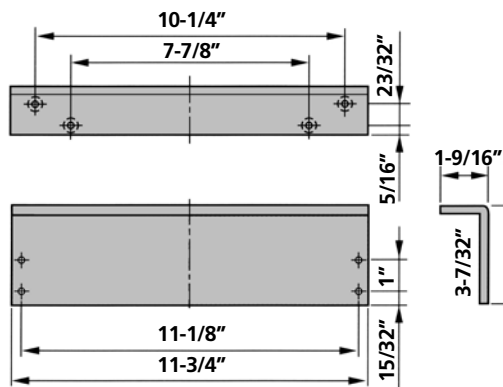
### Track Rail Arm Set A45-507TCS

- Includes internal bumper for compression stop

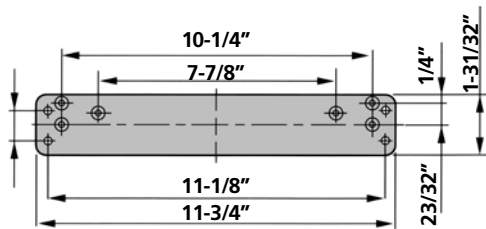


# Accessories

Angle Bracket  
P35-190



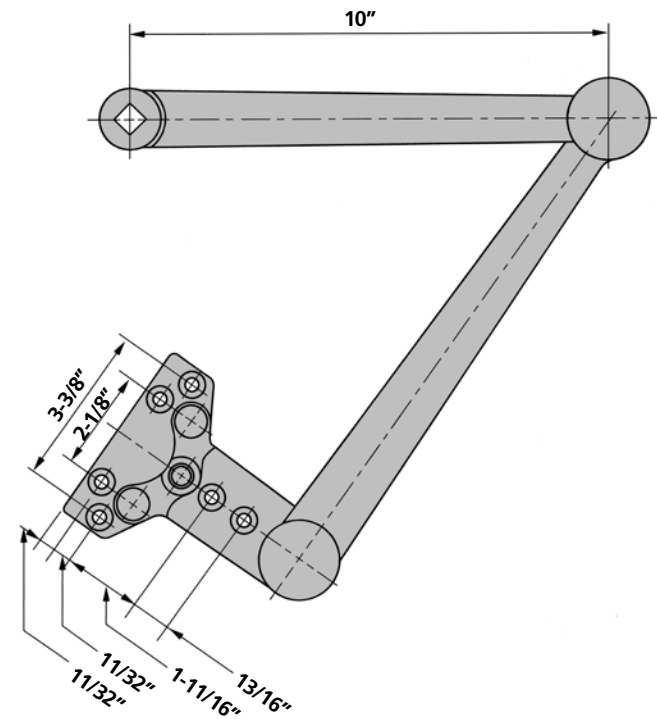
Drop Plate  
P35-180



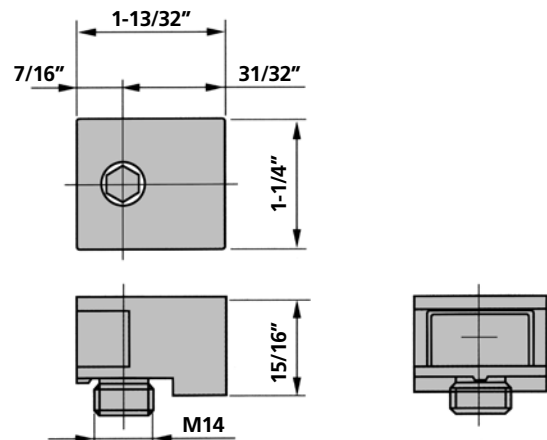
Heavy Duty Parallel Arm Set  
A45-505

Heavy Duty Parallel Arm Set with Stop  
A45-505S

Heavy Duty Parallel Arm Set with Compression Stop  
A45-505CS



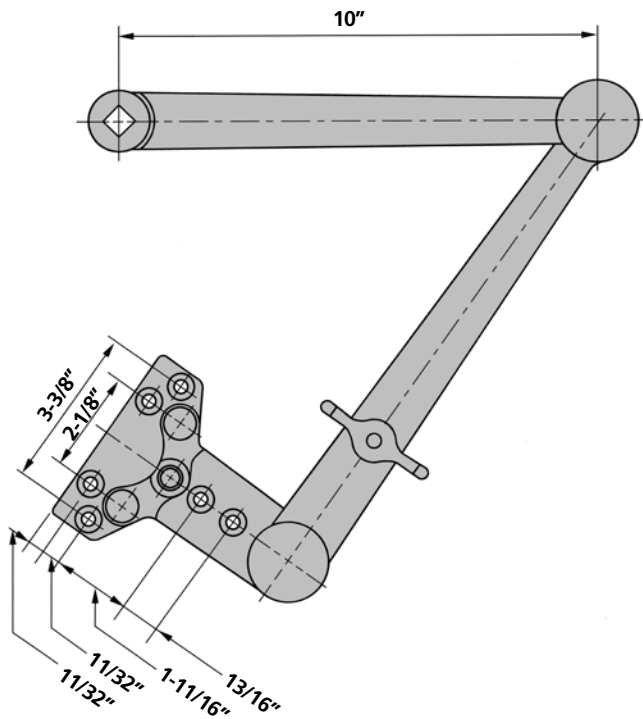
Compression Stop



Heavy Duty Parallel Arm Set with Hold Open  
A45-505H

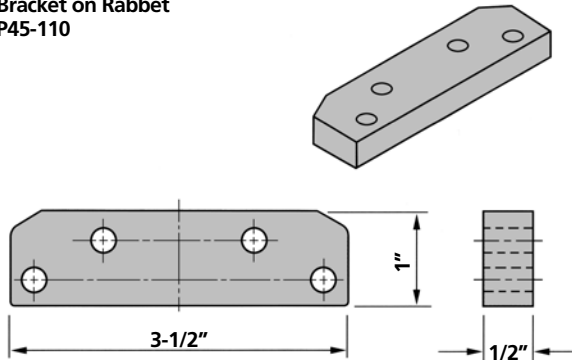
Heavy Duty Parallel Arm Set with Stop and Hold Open  
A45-505HS

Heavy Duty Parallel Arm Set with Compression Stop and Hold Open  
A45-505HCS

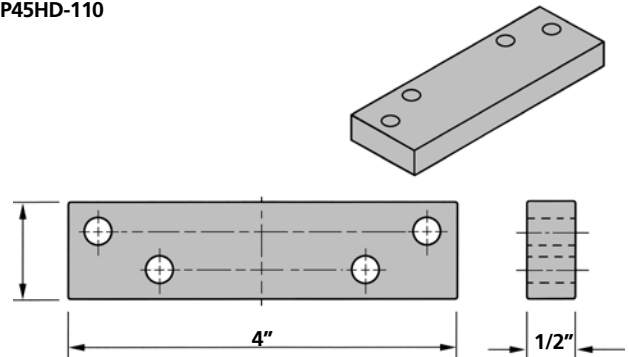


## Accessories

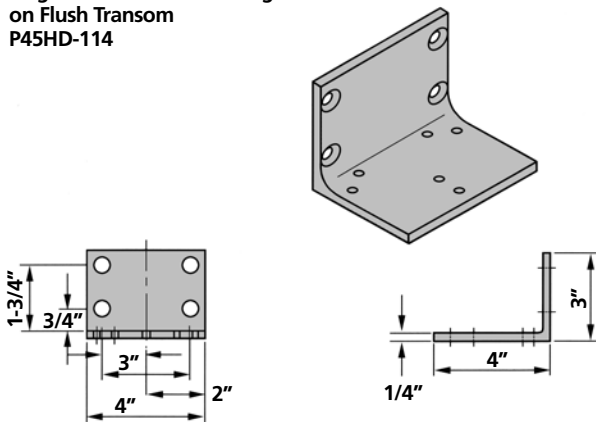
Spacer Block for Mounting PA  
Bracket on Rabbet  
P45-110



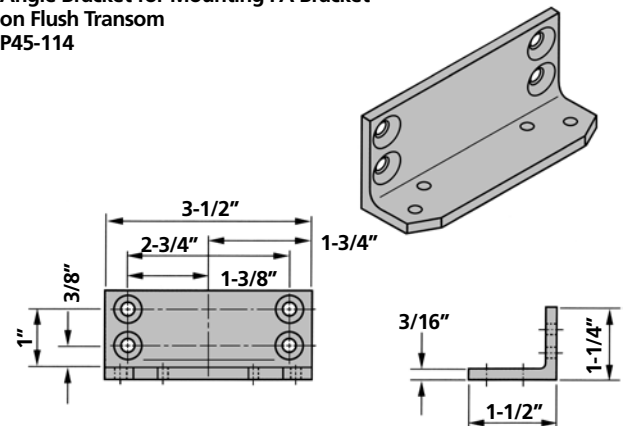
Spacer Block for Mounting HD Arms  
on Rabbet  
P45HD-110



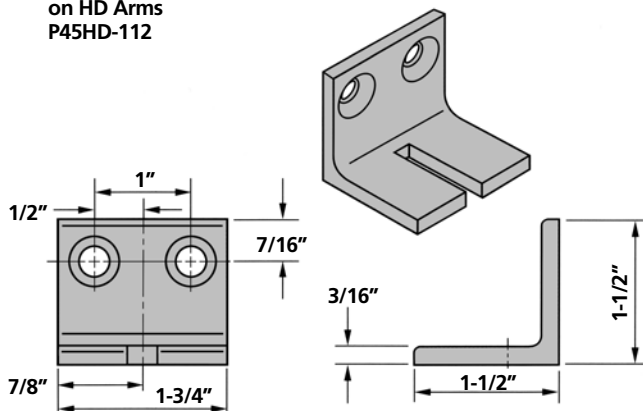
Angle Bracket for Mounting HD Arms  
on Flush Transom  
P45HD-114



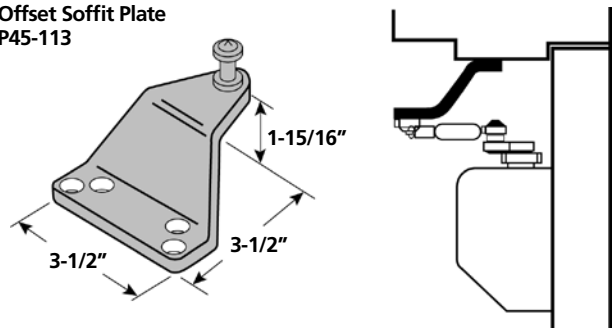
Angle Bracket for Mounting PA Bracket  
on Flush Transom  
P45-114



Angle Bracket for Shoe Support  
on HD Arms  
P45HD-112



Extra-Clearance  
Offset Soffit Plate  
P45-113



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**STANLEY®**



D-4550 / D-4551 SERIES: DOOR CLOSERS

# D-4550 / D-4551 Series

**Door Closers**

**dormakaba** 

Trusted experts. Proven reliability. Simply STANLEY.

# TABLE OF CONTENTS

General Information .....	2-4
How To Order .....	4
Standard (Pull) Application .....	5
Parallel Arm (Push) Application .....	6
Top Jamb (Push) Application .....	7

Heavy Duty Arm (Push) Application.....	8
Track Rail Arm (Pull) Application .....	9
Electronic Hold Open (Push) Applications .....	10
Electronic Hold Open (Pull) Applications .....	11
Accessories .....	12-15

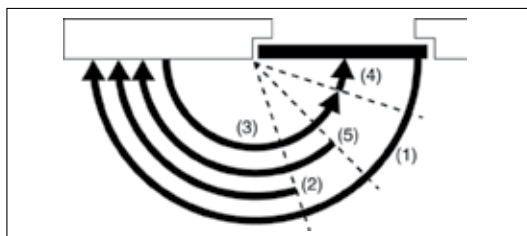
## General Information

### Introduction

The model D4550 Series is Stanley's best performing Heavy Duty Closer. The cylinder body is manufactured using R-14 Silicon Aluminum Alloy providing superior strength and durability on institutional applications. Available in a variety of standard and heavy-duty arm configurations accommodating a broader range of today's growing architectural application requirements.

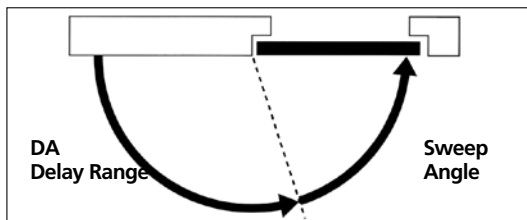
### Features

Fully Hydraulic Checking Controls the door through the entire opening and closing cycles by providing adjustable backcheck upon opening and adjusting general and latch speeds through the closing cycle.



- (1) opening swing, no checking
- (2) backcheck
- (3) general speed
- (4) latch speed
- (5) advanced variable backcheck

**Delayed Action – Optional** – The D-4550DA / D-4551DA Series Door Closers are equipped with a separate hydraulic valve adjustment to delay the closing speed from 180 to 70 degrees of door opening range. To order add suffix DA to closer number.



**Adjustable Spring Power** – The D-4550 / D-4551 Series Door Closers are designed to have the widest range of spring power adjustment available to meet the broadest range of application requirements.

**Advanced Variable Backcheck (AVB) optional** – Cylinder starts backcheck at approximately 45° instead of the normal 75°. Add suffix "AVB" to selected cylinder. When combined with Delayed Action consult factory for special template. (Heavy Duty Arm applications).

**All Season Fluid** – All season fluid eliminates the need for seasonal adjustment.

### Closing Power Adjustment

#### D-4550\* –

Size 2 – 6 with 50% spring power adjustment over size 6.

\* Meets ADA 5lb opening force requirements on all applications except pull-side regular arm mount.

The D-4550 Series is adjusted to size 3 before leaving the factory.

#### D-4551\*\* –

Size 1 – 5 With 35% spring power adjustment over size 5.

\*\* Meets ADA 5lb opening force requirements.

The D-4551 Series is adjusted to size 2 before leaving the factory.

**Delayed Action** – A delayed action feature is available with this series for all applications and arms. The feature permits the door to close very slowly through the delayed action cycle range.

**Forged Arms** – Heavy duty forged arms are interchangeable between the D-4550 and D-3550 Series door closers.

**High Impact Cover** – All D-4550 / D-4551 Series door closers are shipped with a high impact self-extinguishing decorative cover.

**Latching Power Adjustment** – The D-4550 / D-4551 Series door closers have the provision to adjust the leverage of the arms by changing the pivot position of the arm in the shoe. The shoe itself does not have to be removed from the door or jamb.

**Maintenance Free** – Door closers mounted in accordance with the provided installation instructions are maintenance free from periodic inspection and adjustment.

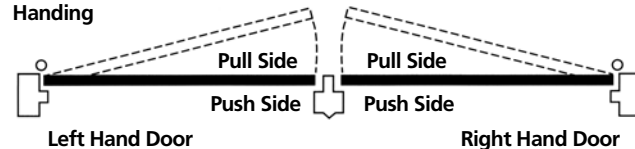
**Metal Cover - Optional** – Optional stainless steel, brushed finish metal cover is available.

**Non-Handed** – Can be used on both RH and LH doors for both push side and pull side mounting.

**Special High Silicon Aluminum Alloy Housing** – All D-4550 / D-4551 Series door closers are constructed of "Stanley's" R14 high silicon aluminum alloy to exceed the ANSI/BHMA 156.4 Grade 1 requirements.

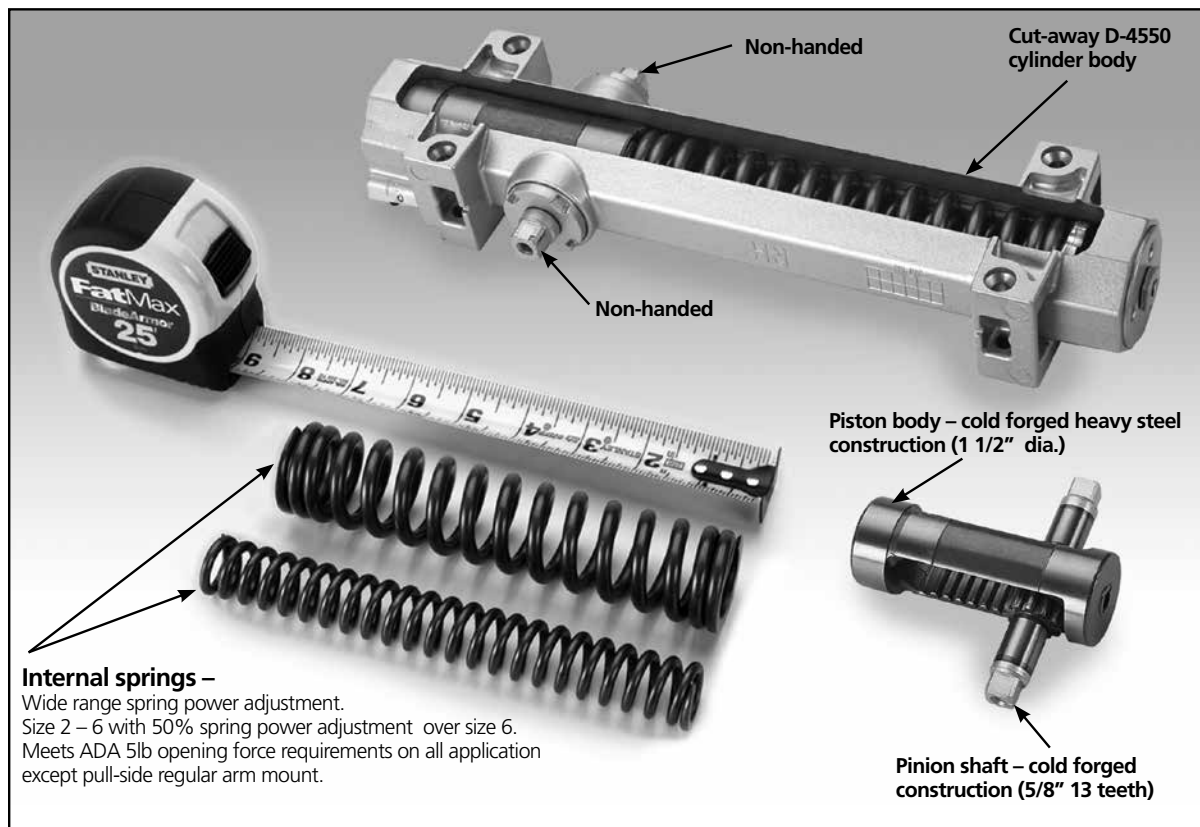
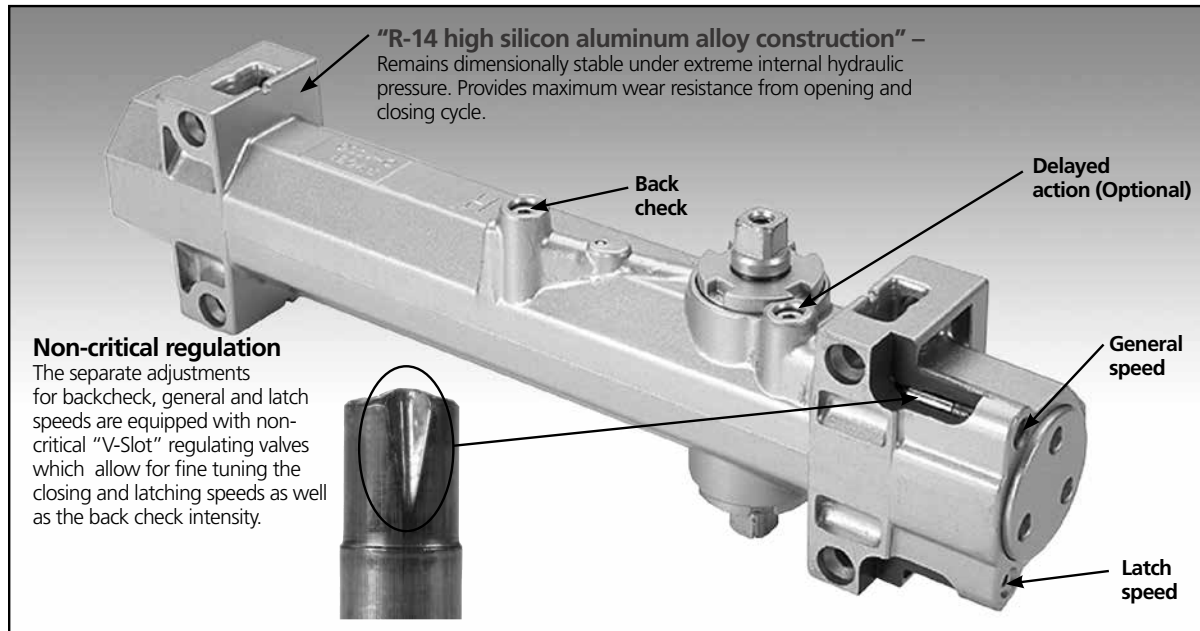
**Special Rust Inhibitor (SRI) - Optional** – For installations where a higher level of corrosive resistance is required.

### Handing



## General Information

Non-handed feature is available in a variety of finishes wide range of spring power adjustment. Standard packaging with tri-pack: regular, top-jamb and parallel arm arrangement. Can be ordered with heavy duty arm assembly. ANSI/BHMA A156.4 Grade 1, U.L. listed U.S. & Canada. The cylinder body is made from R-14 die cast aluminum. This alloy provides wear resistance from contact with the piston during the opening and closing cycle. R-14 wear characteristics are similar to that of cast iron. In addition the R-14 aluminum alloy holds the cylinder body dimensionally stable under extreme internal hydraulic pressures.



## General Information

Arm Options Suffix Description		Page
L	Long Rod Forearm (Top Jams only)	10
H	Standard Hold Open	5
PH	Parallel Hold Open	6
EH	Electronic Hold Open	13, 14
H-EDA	Heavy Duty Arm w/Hold Open	8
S	Heavy Duty Arm w/Stop	8
CS	Heavy Duty Arm w/Compression Stop	8
HS	Heavy Duty Arm w/Hold Open and Stop	8
HCS	Heavy Duty Arm w/Hold Open & Comp. Stop	8
T	Track Mount	10
HT	Track Mount w/Hold Open	10
TCS	Track Compression Stop	10

**Packaging Information** – All D-4550 / D-4551 Series Door Closers with standard arm sets are packed for mounting on standard, parallel arm or top jamb applications. All closer assemblies are packed 4 per carton. Tracks for track mounted closers are packed separately.

**Through Bolts and Sex Nuts** – When through bolting is ordered, factory will furnish sex nuts for use with the machine screws furnished with the closer. Nuts are sized to accommodate 1-3/8" or 1-3/4" thick doors. Mounting screw thread size 12/24.

### Finishes –

- 689– Aluminum painted
- 690– Dark bronze painted
- 691– Light bronze painted
- 693– Black painted
- 695– Dark bronze painted
- 696– Satin brass painted

### ANSI and U.L. Specifications:



The D-4550/D-4551 Series Door Closers have been Certified to the requirements of the ANSI/BHMA Standard A156.4 - 2000 Grade 1. Available in a variety of ANSI/BHMA finishes. The Stanley Door Closer electro-static finishes surpassed over 100 hours of salt spray exposure.

UL listed with Underwriters' Laboratories, Inc. and Underwriters' Laboratories of Canada for "Self Closing Doors Without Hold-Open Feature". (File number 7525R).

### UL10C – UBC 7.2

D-4550/D-4550 closers have been tested and certified to meet the positive pressure criterion of UL10C & UBC 7.2 (1997)

## How To Order: D-4550/D-4551

D-455	0	DA	EDA	689	SN
Model. No.	Size	Options	Arm Type	Finishes	Fasteners
D-455	0– See Closing Power Adjustment page 2 1– See Closing Power Adjustment page 2	AVB – advanced variable backcheck (optional) DA – Delayed Action (optional) MC – Metal Cover (optional)	L– Long Rod Forearm (TJ only) H – Standard Hold Open PH – Parallel Hold Open EDA – Heavy Duty Arm EH – Electronic Hold Open H-EDA – Heavy Duty Arm w/Hold Open S – Heavy Duty Arm w/ Stop CS – Heavy Duty Arm w/Compression Stop HS – Heavy Duty Arm w/ Hold Open & Stop HCS – Heavy Duty Arm w/ Hold Open & Compression Stop Std. Packaging – See packaging above T – Track Mount HT – Track Mount w/ Hold Open TCS – Track Compression Stop	689 690 691 693 695 696	SN – Sex Nuts & Bolts Wood & Machine Screws furnished standard SEC – Security Screws

## Standard (Pull) Application

### D-4550 / D-4551 Series Door Closer Specifications

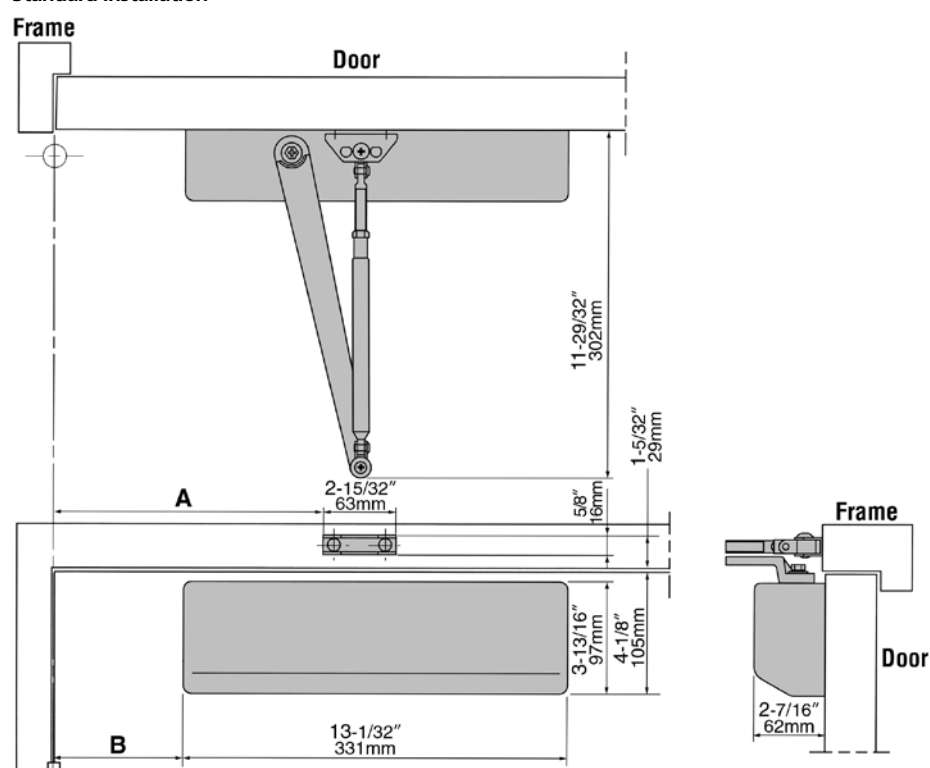
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.

Hold-open points up to maximum door opening with hold open arm.



D-4550/D-4551 Standard Application

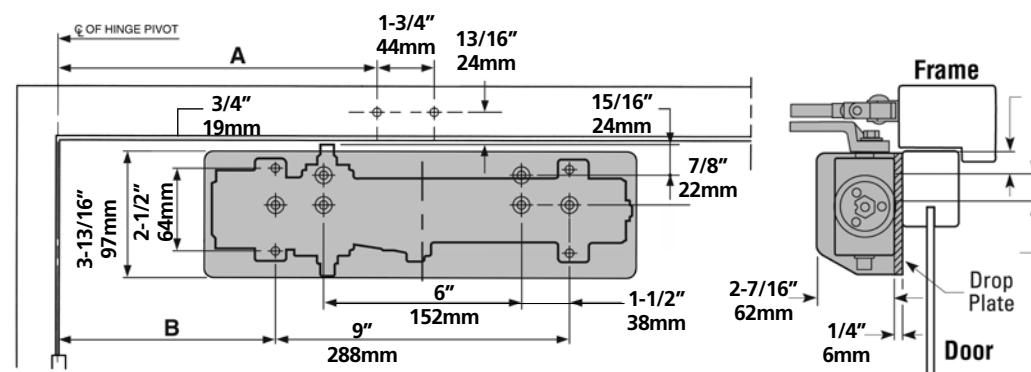
### Standard Installation



### Standard Maximum Door Opening

120° Opening	180° Opening
A = 11-1/4" (286mm)	A = 9-1/4" (235mm)
B = 6-1/2" (165mm)	B = 4-1/2" (114mm)

### Drop Plate Installation P45-180 (For drop plate dimensions see page 13.)



### Standard Maximum Door Opening

120° Opening	180° Opening
A = 11-5/8" (295mm)	A = 9-5/8" (238mm)
B = 8-1/2" (216mm)	B = 6-1/2" (165mm)

# Parallel Arm (Push) Application

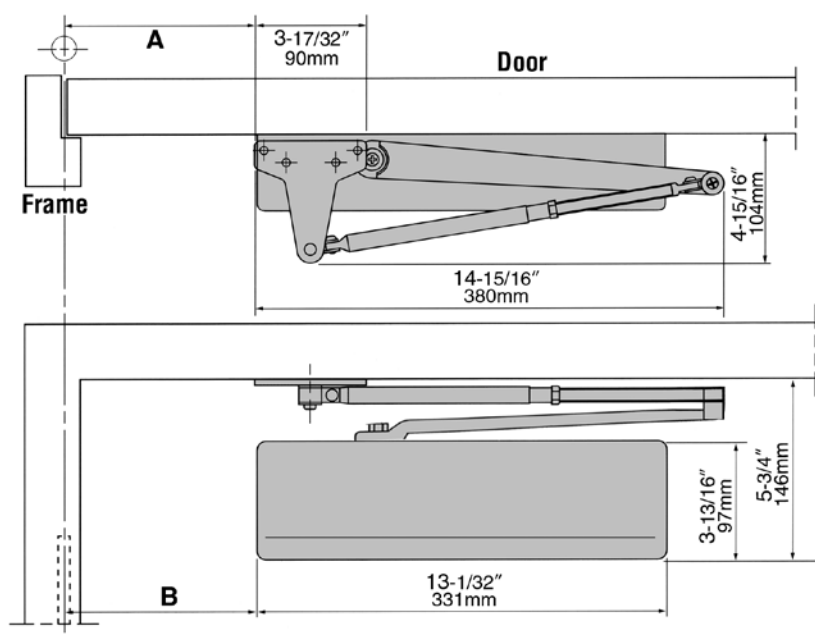
## D-4550 / D-4551 Series Door Closer Specifications

- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
  - Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.
- Hold-open points up to maximum door opening with hold open arm.



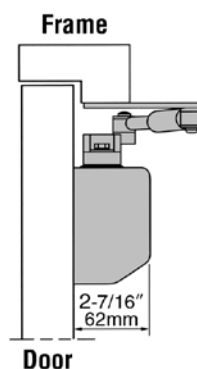
D-4550/D4551 Parallel Arm Application

### Standard Installation

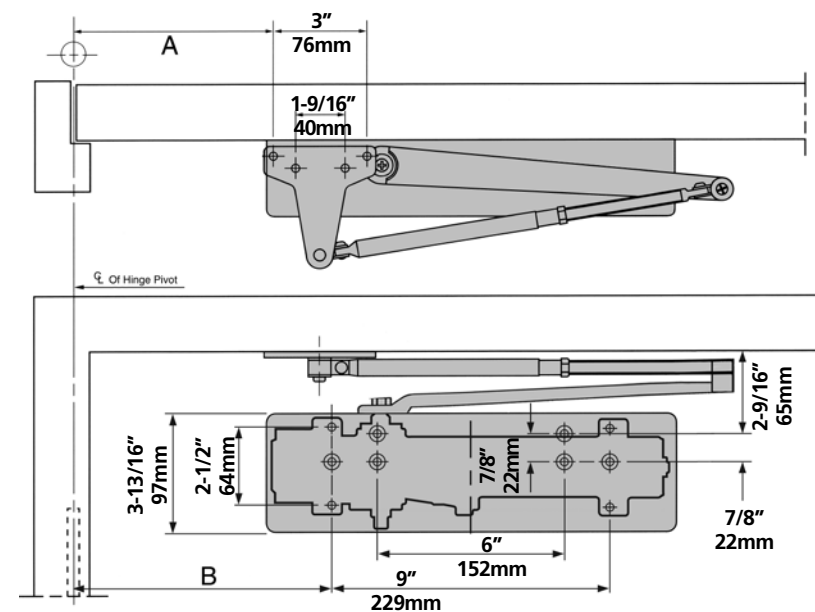


### Standard Maximum Door Opening

120° Opening	180° Opening
A = 8-23/32\"	A = 6-3/32\"
(222mm)	(155mm)
B = 8-27/32\"	B = 6-7/32\"
(224mm)	(158mm)

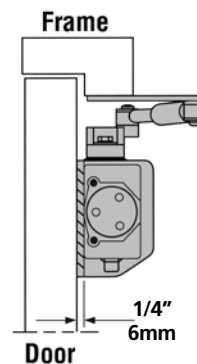


### Drop Plate Installation P45-180 (For drop plate dimensions see page 13.)



### Drop Plate Maximum Door Opening

120° Opening	180° Opening
A = 11-5/8\"	A = 9-3/8\"
(295mm)	(238mm)
B = 5-15/16\"	B = 4-15/16\"
(150mm)	(125mm)



## Top Jamb (Push) Application

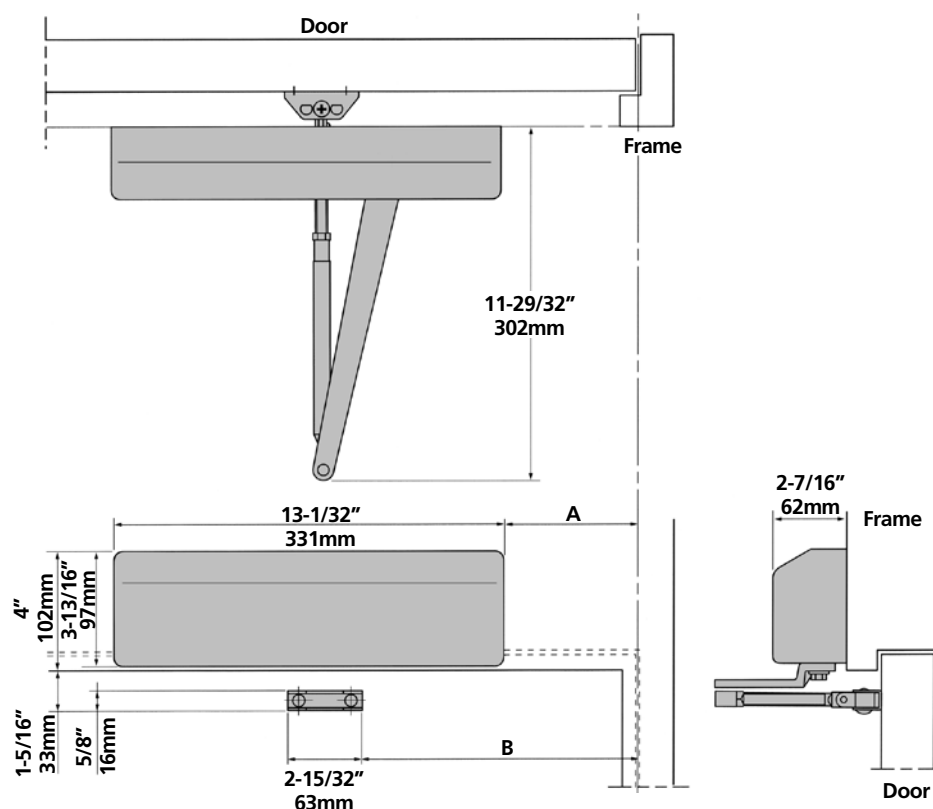
### D-4550 / D-4551 Series Door Closer Specifications

- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Standard reveals up to 3" (76 mm)
- For deeper reveals use long rod and shoe A45-501L (See page 9)
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.



D-4550/D4551 Top Jamb Application

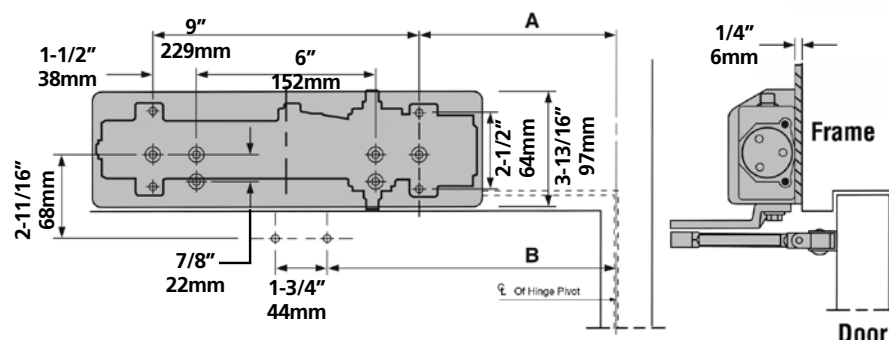
### Standard Installation



### Standard Maximum Door Opening

120° Opening	180° Opening
A = 6-13/32" (163mm)	A = 4-13/32" (112mm)
B = 11-9/32" (286mm)	B = 9-9/32" (236mm)

### Drop Plate Installation P45-180 (For drop plate dimensions see page 13.)



### Drop Plate Maximum Door Opening

120° Opening	180° Opening
A = 8-3/8" (213mm)	A = 6-3/8" (162mm)
B = 11-5/8" (295mm)	B = 9-5/8" (244mm)

# Heavy Duty Arm (Push) Application

## D-4550 / D-4551 Series Door Closer Specifications

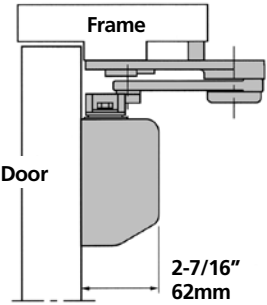
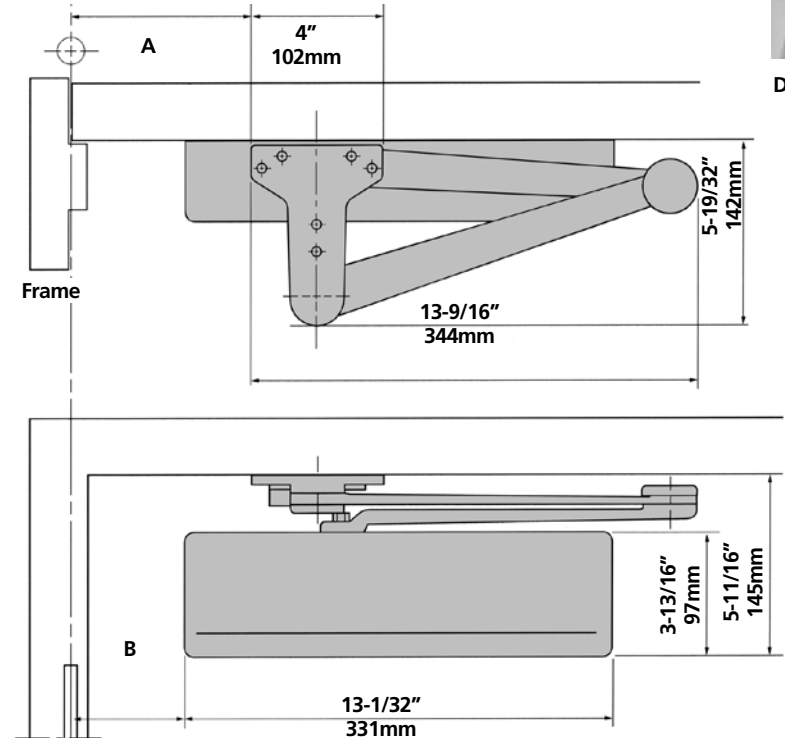
- EDA, H-EDA, S, CS, HS and HCS
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.

Hold-open is approximately 3° less than maximum door opening.



D-4550/D-4551 Heavy Duty Arm Application

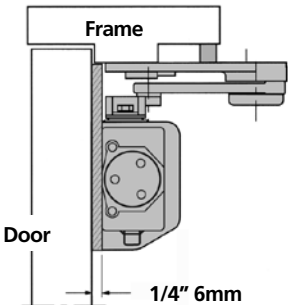
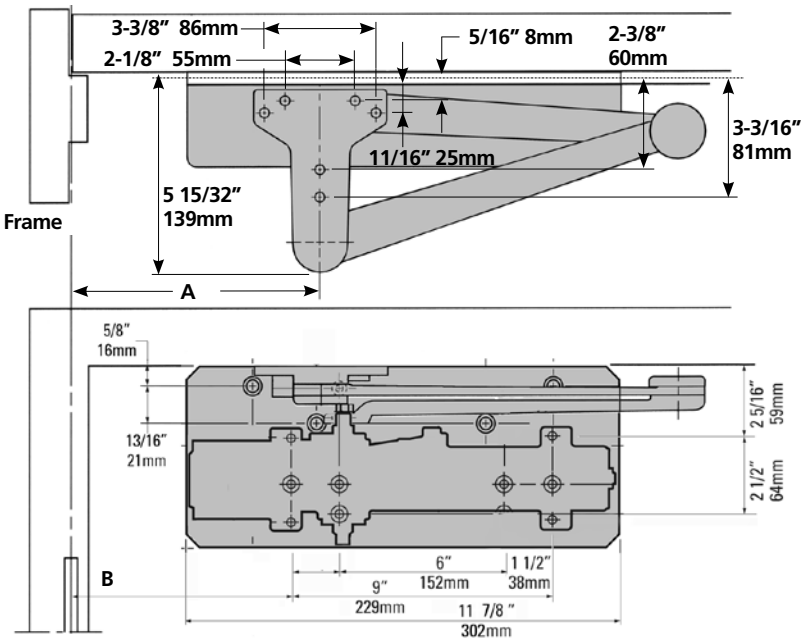
### Heavy Duty Push Installation



### Standard Maximum Door Opening

120° Opening	160° Opening	180° Opening
A = 7-3/8" (187mm)	A = 6-3/32" (155mm)	A = 4-5/8" (117mm)
B = 6-1/2" (165mm)	B = 5-11/32" (136mm)	B = 3-3/4" (95mm)

### Drop Plate Installation P45-180-D (For drop plate dimensions see page 13.)



### Drop Plate Maximum Door Opening

120° Opening	160° Opening	180° Opening
A = 9-3/8" (238mm)	A = 8-1/4" (210mm)	A = 6-5/8" (168mm)
B = 8-1/2" (216mm)	B = 7-3/8" (187mm)	B = 5-3/4" (146mm)

## Track Rail Arm (Pull) Application

### D-4550 / D-4551 Series Door Closer Specifications

- T, HT, TCS Application
- Custom installation template may be available for unusual installation conditions. Contact dormakaba for assistance.

### Maximum Door Opening

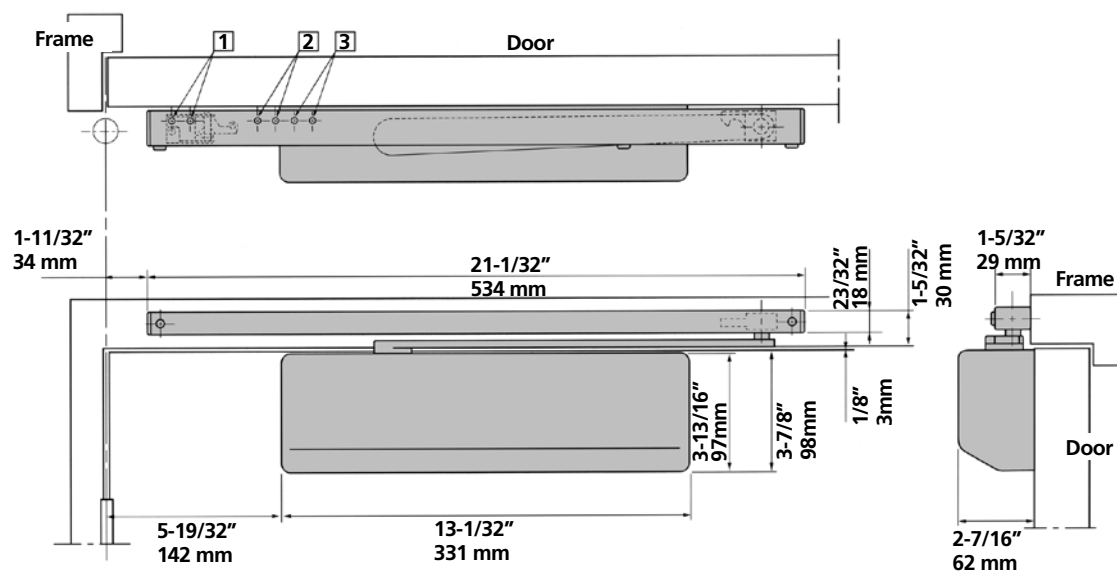
#### 120° Opening

Hold Open Device	1	2	3
Hold Open Angle	106°	86°	80°

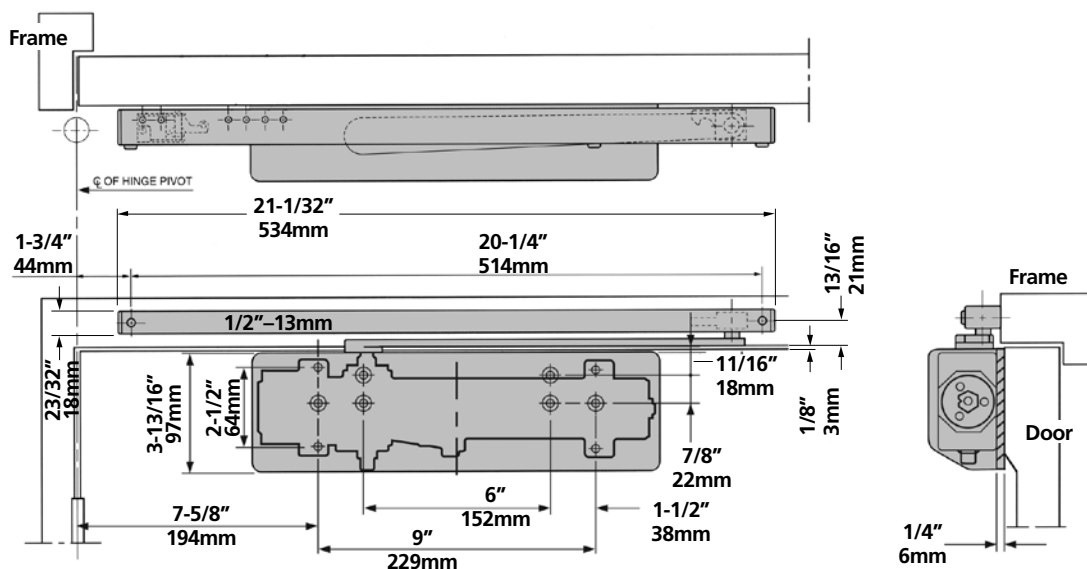


D-4550/D-4551 Track Rail Arm Application

### Track Rail Arm Pull Installation



### Drop Plate Installation P45-180 (For drop plate dimensions see page 13.)



# Single Point Hold-Open (Pull) Application

## D-4550EH Electronic Hold-Open Series Door Closer

The D-4550EH Easy-Set Series provides convenient electronic hold-open features for a variety of swing door applications. When energized, the unit is held at a field selectable degree of hold-open incorporating a 24VDC solenoid located in the track-arm.

### Features

- Field adjustable degree of hold-open
- Non-handed
- Available in six standard finishes
- Smooth safe manual engagement/disengagement
- Convenient system check switch
- Field adjustable hold-open force

### Listings

- UL Listed for smoke barrier or labeled fire doors
- UL Listed for self closing doors without hold-open
- ANSI/BHMA A156.15
- NFPA 101



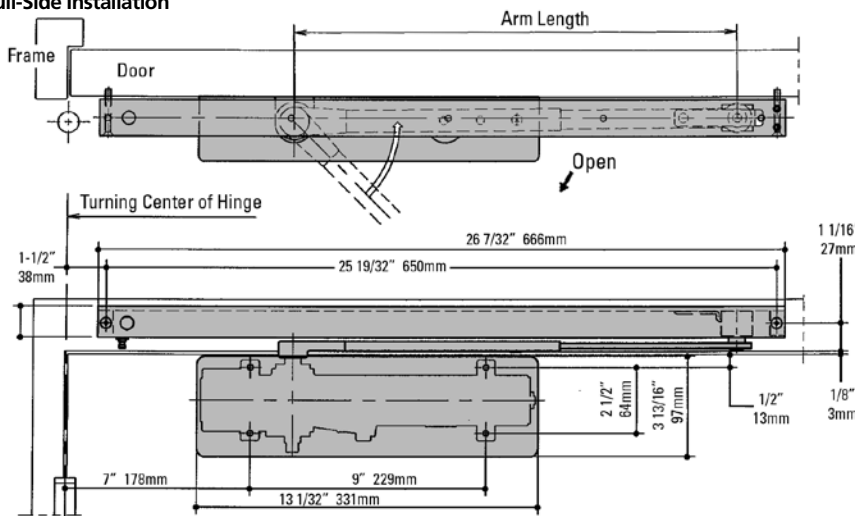
D-4550EH Hold Open (Pull) Application

### Electrical Specifications

Voltage: 24VDC Ampere: 0.15 amperer

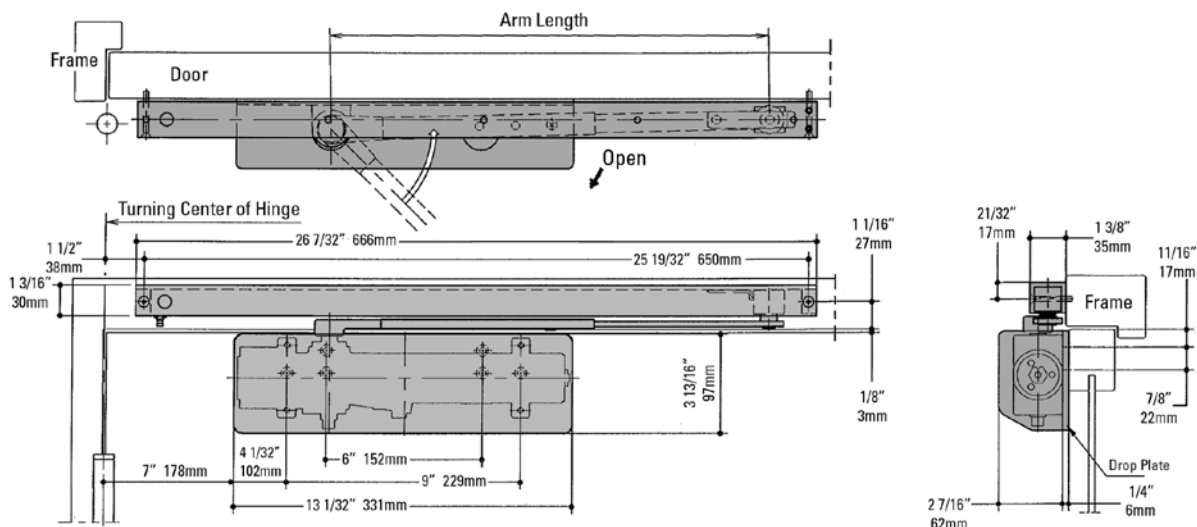
Arm Length	12 23/32"	13 1/16"	13 7/16"	13 25/32"	14 1/8"	14 1/2"	14 27/32"	15 3/16"	15 9/16"	15 29/32"	16 1/4"	16 5/8"	16 31/32"
	323mm	332mm	341mm	350mm	359mm	368mm	377mm	386mm	395mm	404mm	413mm	422mm	431mm
Hold Open Angle	93°	97°	100°	104°	108°	112°	116°	121°	126°	131°	137°	144°	153°

### Pull-Side Installation



**Recommended: Install an auxillary stop at the hold-open angle.**  
(see arm adjustment chart above)

### Drop Plate Installation P45-180 (For drop plate dimensions see page 13.)



## Single Point Hold-Open (Push) Application

### D-4550EH Electronic Hold-Open Series Door Closer

The D-4550EH Easy-Set Series provides convenient electronic hold-open features for a variety of swing door applications. When energized, the unit is held at a field selectable degree of hold-open incorporating a 24VDC solenoid located in the track-arm.

#### Features

- Field adjustable degree of hold-open
- Non-handed
- Available in six standard finishes
- Smooth safe manual engagement/disengagement
- Convenient system check switch
- Field adjustable hold-open force

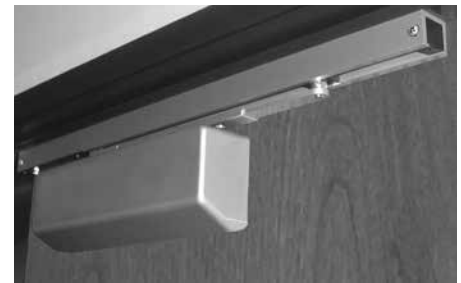
#### Listings

- UL Listed for smoke barrier or labeled fire doors
- UL Listed for self closing doors without hold-open
- ANSI/BHMA A156.15
- NFPA 101



#### Electrical Specifications

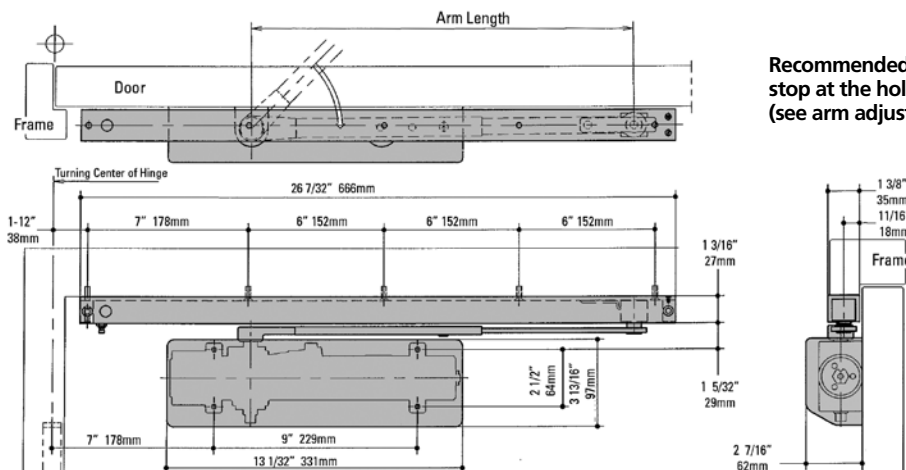
Voltage: 24VDC Ampere: 0.15 amperer



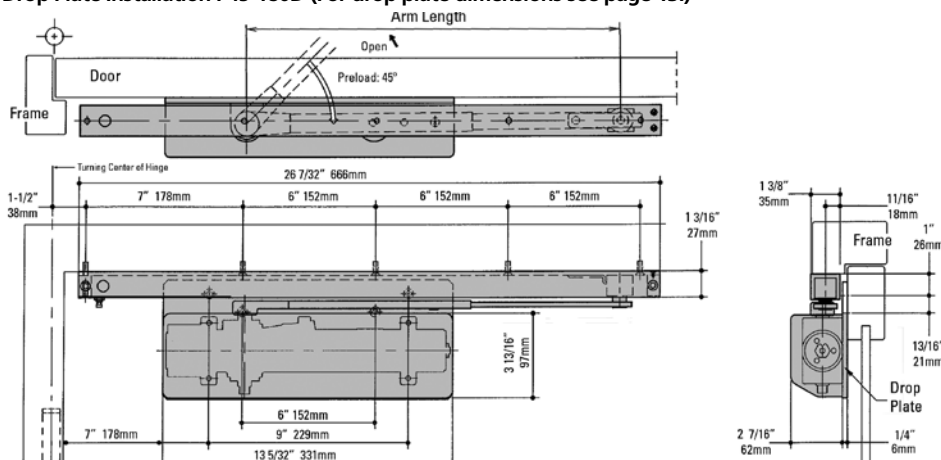
D-4550EH Hold Open (Push) Application

Arm Length	12 23/32"	13 1/16"	13 7/16"	13 25/32"	14 1/8"	14 1/2"	14 27/32"	15 3/16"	15 9/16"	15 55/64"	16 1/4"	16 5/8"	16 31/32"
	323mm	332mm	341mm	350mm	359mm	368mm	377mm	386mm	395mm	404mm	413mm	422mm	431mm
Hold Open Angle	86°	90°	92°	95°	98°	101°	105°	108°	112°	116°	120°	126°	129°

#### Push-Side Installation



#### Drop Plate Installation P45-180D (For drop plate dimensions see page 13.)



## Accessories

### Standard Arm Set A45-501

#### Standard Arm Set with Long Rod and Shoe Set A45-501L

- For reveals from 2-1/2" to 8"



Note: Long Rod used on PUSH side

### Standard Hold-Open Arm Set A45-501H

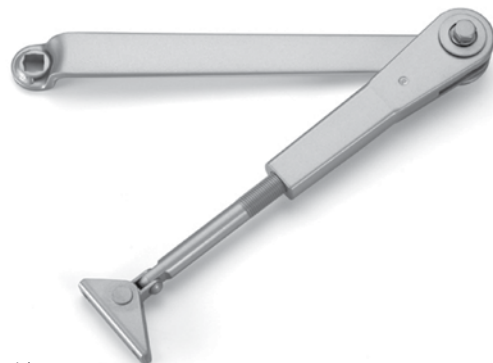
#### Standard Hold-Open Arm with Long Rod and Shoe Set

##### A45-501HL

- For reveals from 3-3/16" to 4-13/16"

##### A45-501HXL

- For reveals from 4-7/8"

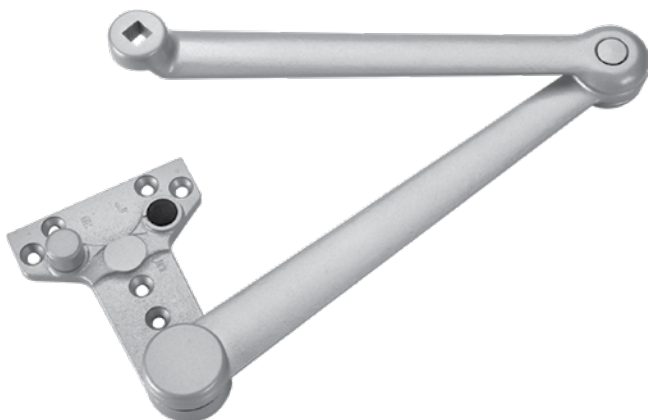


Note: Long Rod used on PUSH side

### Heavy Duty Parallel Arm Set A45-505

#### Heavy Duty Parallel Arm Set with Stop A45-505S

#### Heavy Duty Parallel Arm Set with Compression Stop A45-505CS

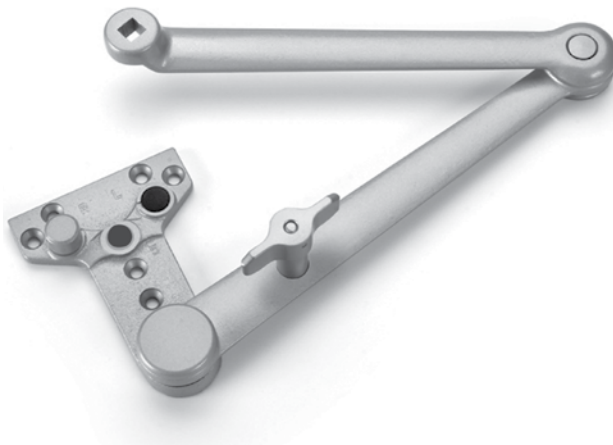


**A45-505S**  
Heavy Duty Parallel Arm Set with Stop

### Heavy Duty Parallel Arm Set with Hold Open A45-505H

#### Heavy Duty Parallel Arm Set with Stop and Hold Open A45-505HS

#### Heavy Duty Parallel Arm Set with Compression Stop and Hold Open A45-505HCS



**A45-505HS**  
Heavy Duty Parallel Arm Set with Stop and Hold Open

### Parallel Hold-Open Arm Set A45-503H

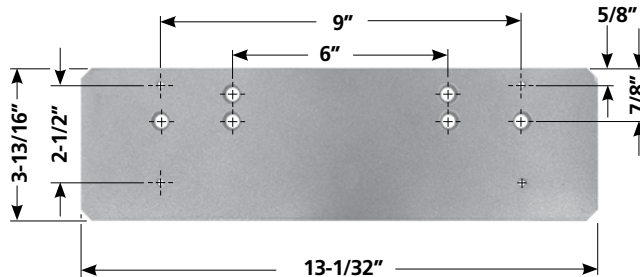


### EH Arm Hold-Open A45-507EH

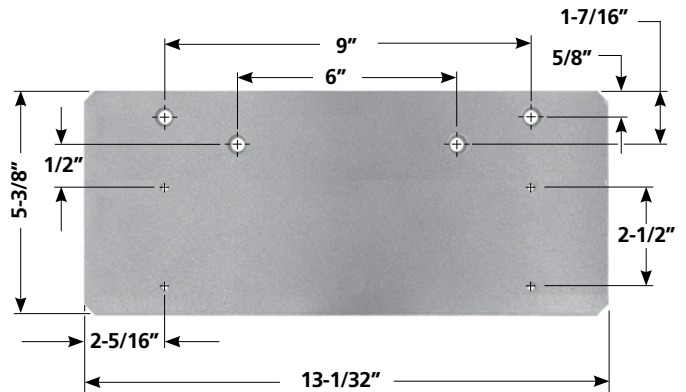


## Accessories

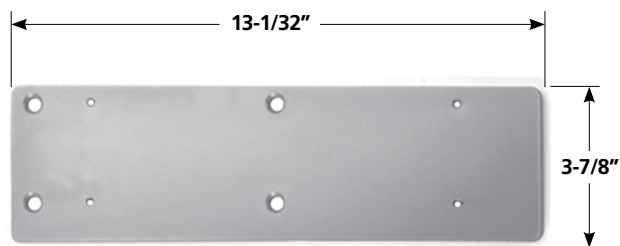
Drop Plate – P45-180



Drop Plate – P45-180-D

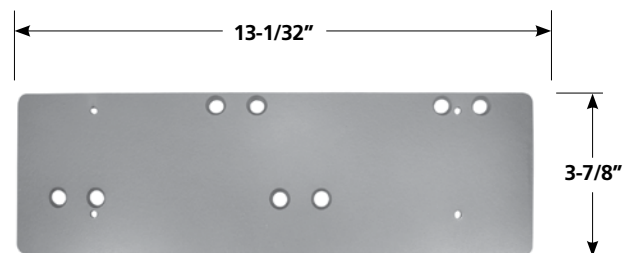


Retrofit Plate to mount to LCN 4111 Hole Pattern (Heavy Duty Arm) – P45-4110 (Non-handed)

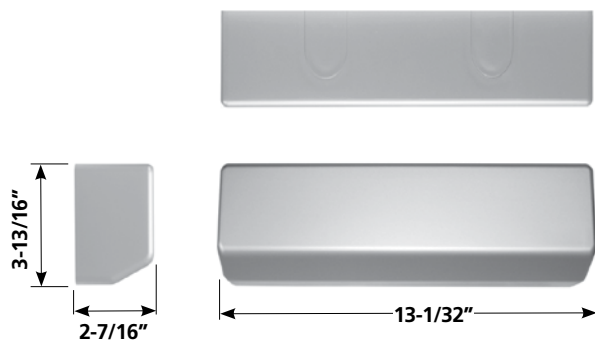


Material Thickness: 3/16"

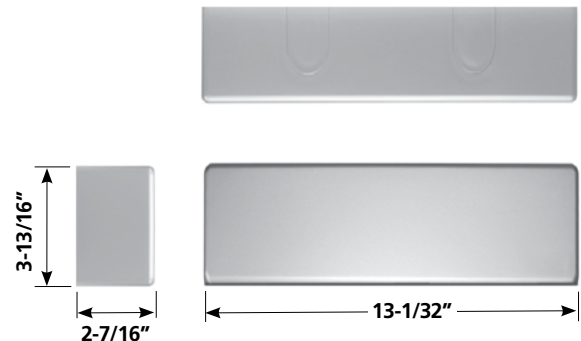
Retrofit Plate to mount to LCN 4040 Hole Pattern (Heavy Duty Arm) – P45-4040 (Non-handed)



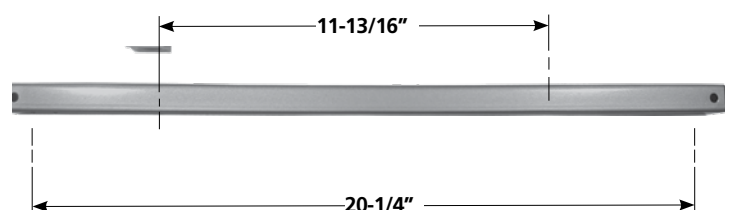
C-455 – Full Plastic Cover



MC-455 – Full Metal Cover (Optional)



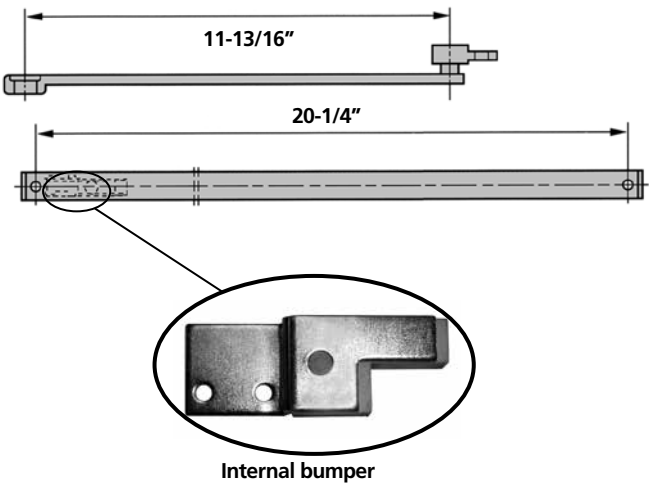
Track Rail Arm Set A45-507T



# Accessories

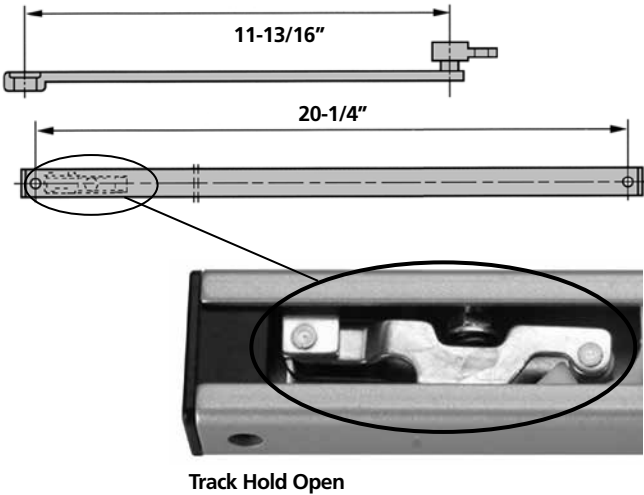
## Track Rail Arm Set A45-507TCS

- Includes internal bumper for compression stop



Internal bumper

## Track Rail Hold-Open Arm Set A45-507HT



Track Hold Open

## Track Rail Electronic Hold-Open Arm Set A45-507EH

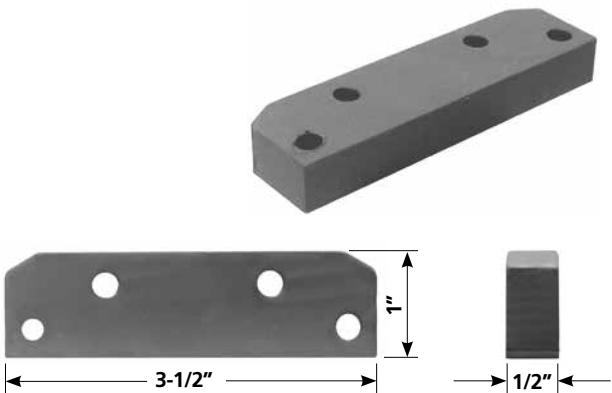


Electronic Hold Open – Side view

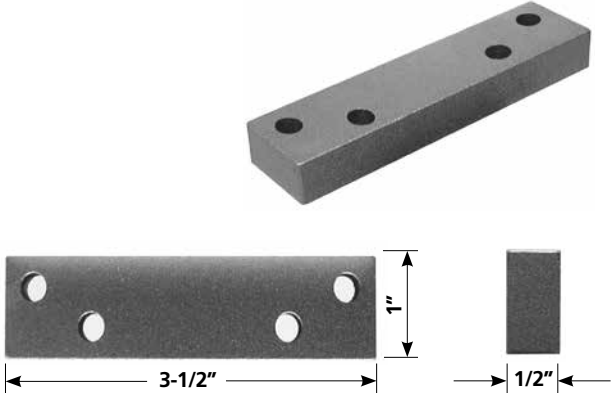


Electronic Hold Open – Top view

## Spacer Block for Standard Arm Mounting PA Bracket on Rabbet – P45-110

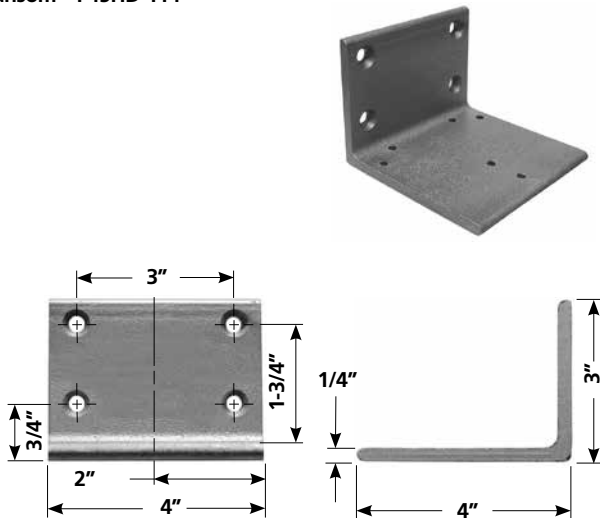


## Spacer Block for Mounting HD PA Bracket on Rabbet – P45HD-110HL

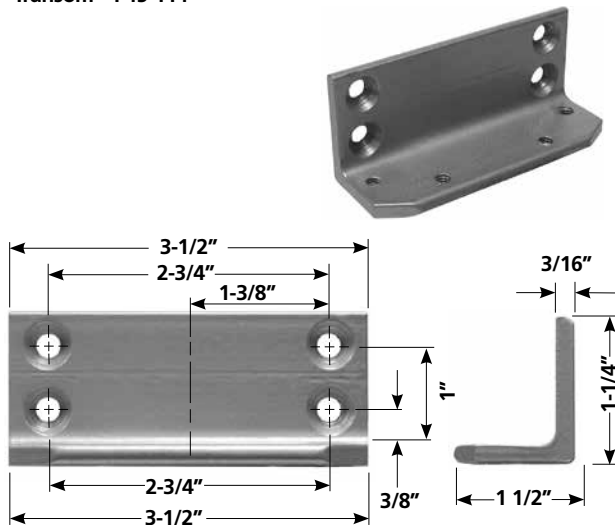


## Accessories

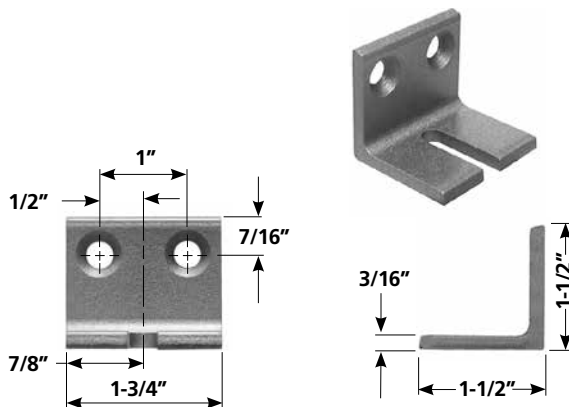
Angle Bracket for Mounting HD PA Bracket on Flush Transom – P45HD-114



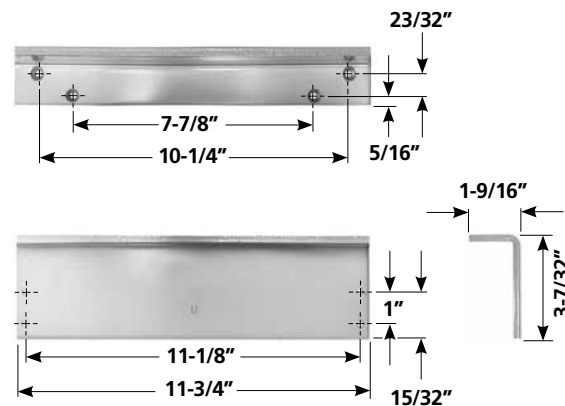
Angle Bracket for Mounting Standard PA Bracket on Flush Transom – P45-114



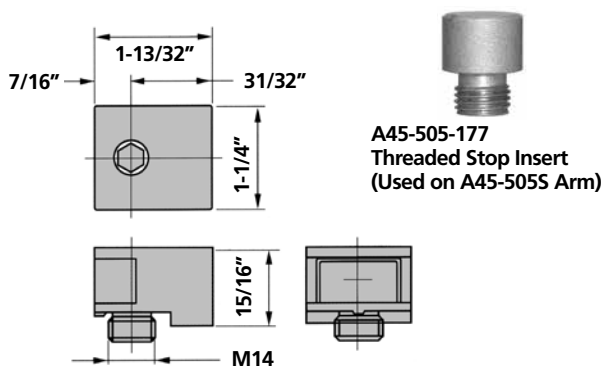
Angle Bracket for Shoe Support on HD Arms – P45HD-112, used as 5th screw on narrow rabbets



Angle Bracket - P45-190 used on top jamb applications without any top jamb

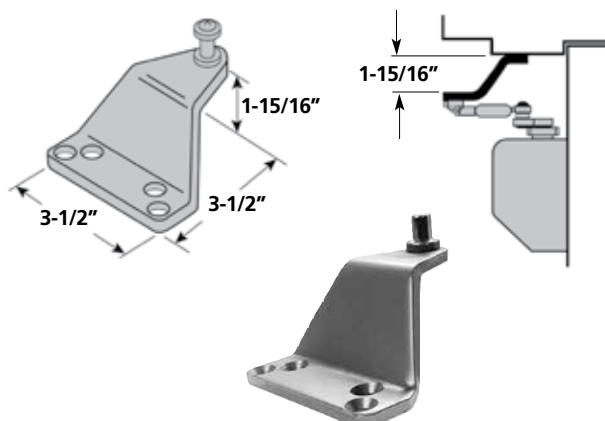


Compression & Threaded Stop



A45-507TCS – Compression Stop  
(Used on A45-505CS Arm)

Extra-Clearance Offset Soffit Plate – P45-113



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