HEAVY DUTY DOOR CLOSER

RYOBI D-4550 SERIES DOOR CLOSERS

WHENEVER YOU LOOK FOR HIGH QUALITY CLOSERS CHOOSE RYOBI FOR ITS VALUE AND PERFORMANCE.

RYOBI EXCEEDS YOUR EXPECTATIONS FOR DOOR CLOSERS.
GENERAL INFORMATION

D-4550/D-4551 Features

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

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.

Adjustable Spring Power
The D-4550 Series Door Closers are adjustable from size 1 through 6 with more than 50% adjustment over size 6. The D-4551 Series Door Closers are adjustable from size 1 through 4 more than 20% adjustment over size 4. The D-4551 Series Door Closers are designed to meet entrance accessibility requirements of 5LBF opening force or less.

Non-Handed
Can be used on both 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.

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

Special High Silicon Aluminum Alloy Housing
All D-4550/D-4551 Series Door Closers are constructed of RYOBI'S R14 HIGH SILICON ALUMINUM ALLOY to exceed the ANSI/BHMA A 156.4 Grade 1 requirements.

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

High Impact Cover
All Ryobi D-4550/D-4551 Series Door Closers are shipped with a high impact self-extinguishing decorative cover.

Maintenance Free
Ryobi Door Closers mounted in accordance with Ryobi installation instructions are maintenance free from periodic inspection and adjustment.
# HOW TO ORDER

## CLOSERS

Add suffix:
*DA* Delayed Action (optional)

Size: 0-size 1-6 with 50% adjustment
1-size 1-4

Model No. ________

### ARM TYPE (add suffix)
- "L"-Long Rod Forearm (TJ only)
- "H"-Standard Hold Open
- "PH"-Parallel Hold Open
- "EDA"-Extra Duty Arm
- "HEDA"-Hold Open Extra Duty Arm
- "C2"-Extra Duty Arm with Stop
- "C"-Extra Duty Arm with Compression Stop
- "HS"-Extra Duty Arm with Hold Open and Stop
- "HCS"-Extra Duty Arm with Hold Open and Compression Stop
- "T"-Track Mount
- "HT"-Track Mount with Hold Open

### LOOK HERE

Fastener : "SN" Screw Nuts & Bolts
"WMS" Wood and Machine Screws

### ACCESSORIES

Example: P45-180 DROP PLATE

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## HANDLING

**PULL SIDE**

**PUSH SIDE**

**LEFT HAND DOOR**

**RIGHT HAND DOOR**

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## CLOSING POWER ADJUSTMENT

The D-4550 Series Door Closer can provide adjustable closing force of 50% over a size 6. The D-4550 Series is adjusted to size 3 before leaving the factory.

The D-4551 Series Door Closer is specially designed for doors where required opening forces are required through 90°. The D-4551 Door Closer is adjustable up to a size 4. The D-4551 Series is adjusted to size 2 before leaving the factory.

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## 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 foot. The foot itself does not have to be removed from the door or jamb.

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## 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, suffix DA to closer number.

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## PACKING

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 packaged 6 per carton. Tracks for track mounted closers are packaged separately.

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## THRU BOLTS AND HEX NUTS

When thru bolting is ordered, factory will furnish hex 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.

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## ANSI AND U.L. SPECIFICATIONS

The D-4550/D-4551 Series Door Closers far exceed the requirements of the ANSI/BHMA Standard A156.4-1991 Grade 1.

Underwriters' Laboratories and Canada Underwriters' Laboratories Listing.

"For Self-Closing Door Without Hold-Open Feature" on R7526(R).
CLOSER MOUNTED ON PULL SIDE OF DOOR

MAXIMUM DOOR OPENING
Can be templated for either 120°
A=11 1/4" (286mm)
B=6 1/2" (165mm)
Or 180° (when butt, frame and wall conditions permit)
A=9 1/4" (235mm)
B=4 1/2" (114mm)

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

CLOSER MOUNTED ON PUSH SIDE OF DOOR

MAXIMUM DOOR OPENING

Can be templated for either 120°
A=8 23/32"(222mm)
B=8 27/32"(224mm)
Or 180° (when butt, frame and wall conditions permit.)
A=6 3/32"(155mm)
B=6 7/32"(158mm)

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

FRAME

DOOR

2.7/16" 62mm

A 3 17/32" 90mm

B 13 1/32" 331mm

14 15/16" 380mm

4 3/32" 104mm

5 3/4" 148mm
D-4550/D-4551 SERIES DOOR CLOSERS

TOP JAMB APPLICATION

CLOSER MOUNTED ON PUSH SIDE OF DOOR

MAXIMUM DOOR OPENING
Can be templated for either 120°
A=8 1/2" (165mm)
B=11 1/4" (286mm)
Or 180° (when butt, frame and wall conditions permit.)
A=4 1/2" (114mm)
B=9 1/4" (235mm)

• Standard reveals up to 3 5/32" (80mm)
• For deeper reveals specify forearm extender (see page 9)
• Hold-open points up to maximum door opening with hold open arm.

RYOBI
HEAVY DUTY ARM APPLICATION
EDA, H-EDA, S, CS, HS and HCS

CLOSER MOUNTED ON PUSH SIDE OF DOOR

MAXIMUM DOOR OPENING
Can be templated for either 160° or 120° with Stop
• Hold-open is approximately 3 degrees less than maximum door opening.

RYOBI
CLOSER MOUNTED ON PULL SIDE OF DOOR

MAXIMUM DOOR OPENING

Maximum door opening is 120°

<table>
<thead>
<tr>
<th>HOLD OPEN DEVICE</th>
<th>1</th>
<th>2</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>HOLD OPEN ANGLE</td>
<td>106°</td>
<td>86°</td>
<td>80°</td>
</tr>
</tbody>
</table>

11\(\frac{1}{32}\)^\prime = 34\text{mm}

21\(\frac{1}{32}\)^\prime = 534\text{mm}

15\(\frac{1}{2}\)^\prime = 40\text{mm}

5\(\frac{19}{32}\)^\prime = 142\text{mm}

13\(\frac{1}{32}\)^\prime = 331\text{mm}

HOLE 2.7/16\(^\prime = 62\text{mm}\)
### OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Notes</th>
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<tbody>
<tr>
<td>STANDARD ARM SET</td>
<td>A45-501</td>
<td><img src="image" alt="Image of STANDARD ARM SET" /></td>
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<tr>
<td>STANDARD HOLD-OPEN ARM SET</td>
<td>A45-501H</td>
<td><img src="image" alt="Image of STANDARD HOLD-OPEN ARM SET" /></td>
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<tr>
<td>STANDARD ARM WITH LONG ROD AND SHOE SET</td>
<td>A45-501L</td>
<td><img src="image" alt="Image of STANDARD ARM WITH LONG ROD AND SHOE SET" /></td>
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<tr>
<td>STANDARD HOLD-OPEN ARM WITH LONG ROD AND SHOE SET</td>
<td>A45-501HL</td>
<td><img src="image" alt="Image of STANDARD HOLD-OPEN ARM WITH LONG ROD AND SHOE SET" /></td>
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<tr>
<td></td>
<td>A45-501HXL</td>
<td>For reveals from 6 1/2&quot; to 8&quot;</td>
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<tr>
<td>FULL COVER</td>
<td>C-455</td>
<td><img src="image" alt="Image of FULL COVER" /></td>
</tr>
<tr>
<td>PARALLEL HOLD-OPEN ARM SET</td>
<td>A45-503H</td>
<td><img src="image" alt="Image of PARALLEL HOLD-OPEN ARM SET" /></td>
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<tr>
<td>TRACK RAIL ARM SET</td>
<td>A45-507T</td>
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<tr>
<td>TRACK RAIL HOLD-OPEN ARM SET</td>
<td>A45-507HT</td>
<td><img src="image" alt="Image of TRACK RAIL HOLD-OPEN ARM SET" /></td>
</tr>
</tbody>
</table>

*RYOBI*
OPTIONAL ACCESSORIES

ANGLE BRACKET
P45-190

DROP PLATE
P45-180

• 3 5/8" minimum top rail for Parallel Arm applications.
• 3 5/8" minimum top rail for Heavy Duty Parallel Arm applications.

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

HEAVY DUTY PARALLEL ARM SET
WITH HOLD OPEN A45-505H
HEAVY DUTY PARALLEL ARM SET
WITH STOP & HOLD OPEN A45-505HS
HEAVY DUTY PARALLEL ARM SET WITH
COMPRESSION STOP & HOLD OPEN A45-505HCS

COMPRESSON STOP
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