



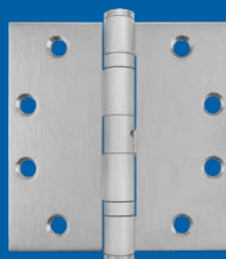
ARCHITECTURAL DOOR HARDWARE



DOOR CLOSERS



GEARED HINGES



BUTT HINGES



CYLINDRICAL LOCKS



DEADBOLTS



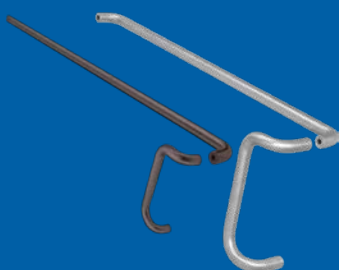
MORTISE LOCKSETS



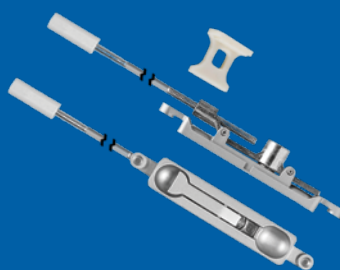
KEYPADS



MAGLOCKS



STOREFRONT HARDWARE



FLUSHBOLTS



EXIT DEVICES



METAL DOORS/FRAMES

MORE PRODUCTS INSIDE — SEE TABLE OF CONTENTS

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HOW TO USE THIS CATALOG

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Where a product page includes a linked document title, select it to open the available installation instructions, templates, drawings, or specifications.

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DOOR CLOSERS – SURFACE MOUNTED

Grade 1 Certified Heavy Duty Commercial Door Closer

N181-6BC

COMPLIANCE & CERTIFICATION

- UL & cUL Listed; conforms to UL 10C fire-rating standards
- ADA compliant for barrier-free accessibility
- Certified ANSI/BHMA A156.4 Grade 1, ensuring maximum durability and reliability

ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6), versatile control
- Standard adjustable sweep & latching speeds
- Standard adjustable backcheck ensures smooth and controlled operation

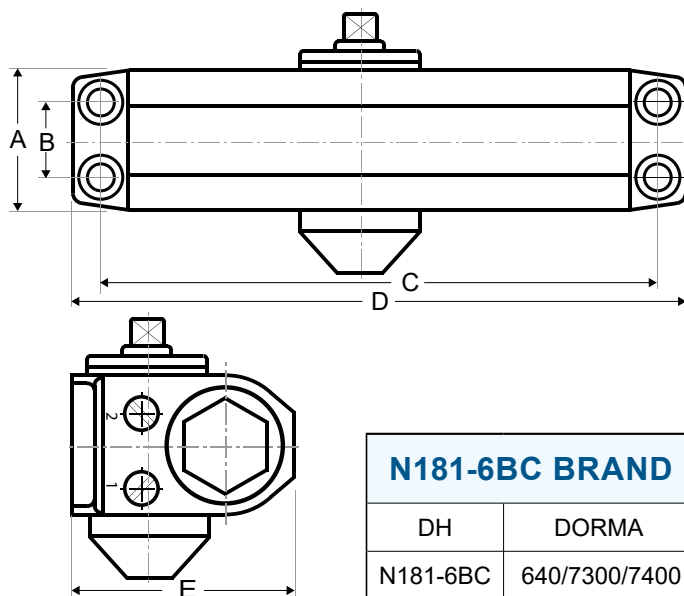
MATERIAL & DURABILITY

- Robust cast-aluminum body combined with a heavy-duty forged steel arm for enhanced durability
- Durable impact-resistant plastic cover protects internal components, extending product lifespan

INSTALLATION & MOUNTING VERSATILITY

- Tri-pack installation: Regular arm, top jamb, or parallel arm mounting options included
- Standard self-tapping and self-drilling screws for straightforward installation

DIMENSIONED DRAWINGS



WARRANTY

- Lifetime warranty, full assurance of quality & reliability

FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

DESCRIPTION	DIMENSIONS
A. Closer Body Height	1 13/16" (46 mm)
B. Vertical Mounting Holes	3/4" (19 mm)
C. Horizontal Mounting Holes	9 1/16" (230.2 mm)
D. Length of Closer Body	9 3/4" (247.7 mm)
E. Projection from Door	2 3/4" (69.9 mm)

N181-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	DORMA	HAGER	LCN	NORTON	PARKER	SARGENT	YALE
N181-6BC	640/7300/7400	5300	1070/1370	1600	900	1130	50

SPECIFICATIONS / INSTALLATION / ACCESSORIES — see page 4

DOOR CLOSERS – SURFACE MOUNTED

Grade 1 Certified Heavy Duty Commercial Door Closer

N19S1-6BC

COMPLIANCE & CERTIFICATION

- UL & cUL Listed; conforms to UL 10C fire-rating standards
- Fully ADA compliant, ensuring accessibility
- ANSI/BHMA A156.4 Grade 1 Certified for exceptional quality and reliability

ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6), versatile control
- Standard adjustable sweep & latching speeds
- Built-in adjustable backcheck cushions the door during opening

MATERIAL & DURABILITY

- Die-cast aluminum body provides robust, corrosion-resistant performance
- Durable forged-steel arm for long-term strength
- Heavy-duty, impact-resistant plastic cover protection

INSTALLATION & MOUNTING VERSATILITY

- Standard tri-pack for versatile installation options: regular arm, top jamb, and parallel arm mounting
- Standard self-tapping and self-drilling screws for easy and convenient installation



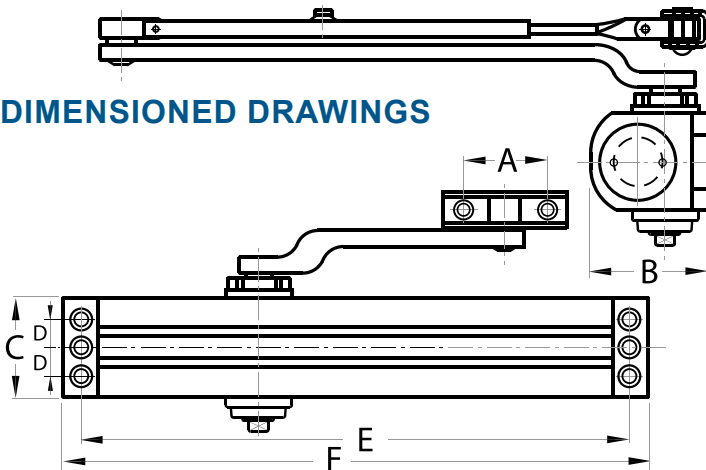
WARRANTY

- Lifetime warranty, full assurance of quality & reliability

FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

DIMENSIONED DRAWINGS



DESCRIPTION	DIMENSIONS
A. Arm Shoe Spacing	1 3/4" (44.5 mm)
B. Projection from Door	2 3/8" (60.3 mm)
C. Closer Body Height	2" (50.8 mm)
D. Vertical Mounting Holes	9/16" (14.3 mm)
E. Horizontal Mounting Holes	11 1/8" (282.6 mm)
F. Length of Closer Body	11 7/8" (301.6 mm)

N19S1-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	DORMA	FALCON	HAGER	LCN	NORTON	SARGENT	YALE
N19S1-6BC	8600	SC80	5200	1460	8501	1431	3501

SPECIFICATIONS / INSTALLATION / ACCESSORIES — see page 4

DOOR CLOSERS – SURFACE MOUNTED

Grade 1 Certified Heavy Duty Commercial Door Closer

N18S1-6BC

COMPLIANCE & CERTIFICATION

- UL and cUL Listed, UL 10C fire-rated
- ANSI/BHMA A156.4 Grade 1 Certified
- Meets ADA accessibility standards

ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6)
- Independently adjustable sweep & latching speeds
- Adjustable backcheck for enhanced door control

MATERIAL & DURABILITY

- Cast aluminum closer body
- Heavy-duty forged steel arm
- Durable impact-resistant plastic cover included
- Includes self-tapping & drilling screws
- Lifetime warranty for added assurance



- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black



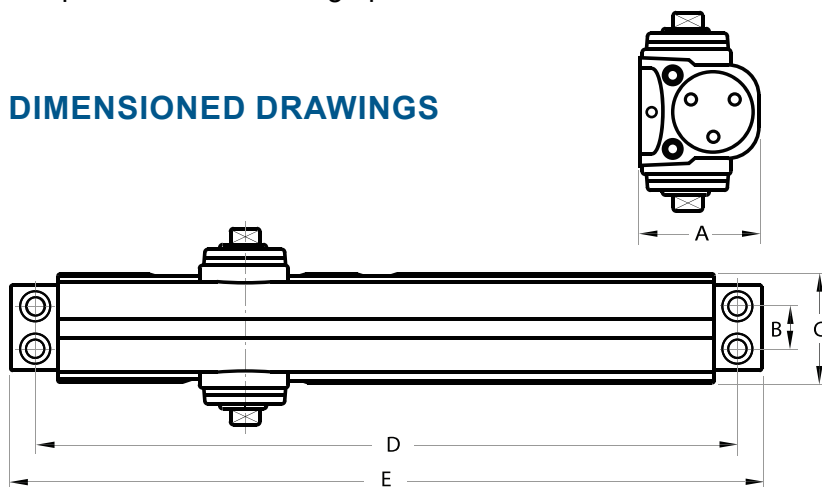
INSTALLATION & MOUNTING VERSATILITY

- Tri-pack installation: Regular arm, top jamb, or parallel arm mounting options included

WARRANTY

- Lifetime warranty, full assurance of quality & reliability

DIMENSIONED DRAWINGS



DESCRIPTION	DIMENSIONS
A. Projection from Door	2 1/32" (51.6 mm)
B. Vertical Mounting Holes	3/4" (19 mm)
C. Closer Body Height	1 7/8" (47.6 mm)
D. Horizontal Mounting Holes	12" (304.8 mm)
E. Length of Closer Body	12 3/4" (323.9 mm)

N18S1-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	CORBIN	DORMA	DOR-O-MATIC	HAGER	LCN	NORTON	RUSSWIN	SARGENT	YALE
N18S1-6BC	DC3200 x M76	8600	SC80	5200SLC	1460 Series	8301	9000	1430	3301

SPECIFICATIONS / INSTALLATION / ACCESSORIES — see page 4

Surface Mounted Door Closer Accessories / Bracket, Plate and Arm

(Orange links below open PDF drawings and installation instructions).

FOR N19S1-6BC

N19SLDP Large Drop Plate



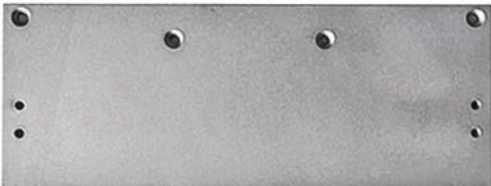
N19SNDP Narrow Drop Plate



[N19S1-6BC Door Closer Installation Templates](#)

FOR N18S1-6BC

N18SLDP Large Drop Plate



[Specs & Drawings](#)

N18SNDP Narrow Drop Plate



[Specs & Drawings](#)

[LDP/NDP Drop Plate Installation Guide](#)

FOR N181-6BC

N505LDP Large Drop Plate



[Specs & Drawings](#)

N505NDP Narrow Drop Plate



[Specs & Drawings](#)

[LDP/NDP Drop Plate Installation Guide](#)

FOR N18S1-6BC AND N181-6BC



N1816HOARM Hold Open Arm

[Specs & Drawings](#)

[HOARM Mounting Instructions](#)

[HOARM Installation Diagram](#)

[N181-6BC Door Closer Full Installation Manual](#)

DOOR CLOSERS – SURFACE MOUNTED

Grade 1 Certified Heavy Duty Commercial Door Closer

N18CI-1-6BC

COMPLIANCE & CERTIFICATION

- UL & cUL Listed; meets UL 10C fire-rating requirements
- Compliant with Federal Accessibility standards
- ANSI A156.4 Grade 1 Certified

ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6)
- Independently adjustable sweep & latching speeds
- Adjustable backcheck cushions the door during opening

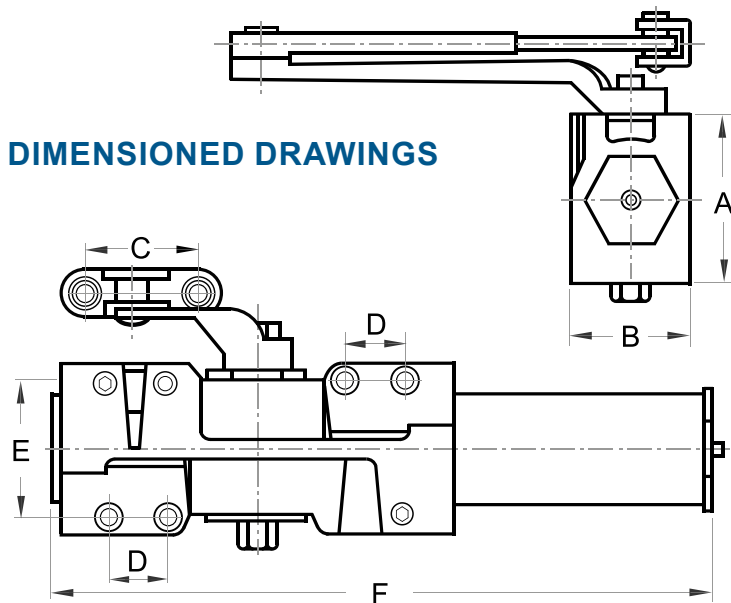
MATERIAL & DURABILITY

- Heavy-duty cast-iron closer ensures long-lasting durability
- Forged-steel arm provides strength and reliability
- Durable impact-resistant plastic cover included

INSTALLATION & MOUNTING VERSATILITY

- Standard tri-pack included for regular arm, top jamb, and parallel arm mounting options
- Supplied with standard self-tapping and drilling screws for easy installation

DIMENSIONED DRAWINGS



WARRANTY

- Covered by a lifetime warranty for added peace of mind

FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

DESCRIPTION	DIMENSIONS
A. Closer Body Height	2 3/4" (69.9 mm)
B. Projection from Door	2" (50.8 mm)
C. Arm Shoe Spacing	1 15/16" (49.2 mm)
D. Horizontal Mounting Holes	1" (25.4 mm)
E. Vertical Mounting Holes	2 1/4" (57.2 mm)
F. Length of Closer Body	11" (279.4 mm)

N18CI-1-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	AMERICAN EAGLE	CORBIN RUSSWIN	DESIGN HARDWARE	DOR-O-MATIC	HAGER	LCN	NORTON	SARGENT	YALE
N18CI-1-6BC	7100	DC3000/DC6200	1070/1370	1600	900	4040	50	281/350	4400

Surface Mounted Door Closer Accessories / Bracket, Plate and Arm

(Orange links below open PDF drawings and installation instructions).

N18CI DROP PLATES

N18CI-A1 Drop Plate

[Specs & Drawings](#)



N18CI-A2 Drop Plate

[Specs & Drawings](#)



N18CI-A3 Drop Plate

[Specs & Drawings](#)



N18CI-A4 Drop Plate

[Specs & Drawings](#)



[DROP PLATE INSTALLATION](#)

N18CIHDHOARM Heavy Duty Hold Open Arm

[Specs & Drawings](#)



N18CIHDARM Heavy Duty Arm

[Specs & Drawings](#)



N18CIHDCUARM
Heavy Duty Spring Cush Arm

[Specs & Drawings](#)



N18CIHDCUHOARM
Heavy Duty Spring Cush Hold Open Arm

[Specs & Drawings](#)



[Heavy-Duty Hold-Open Arm Installation](#)

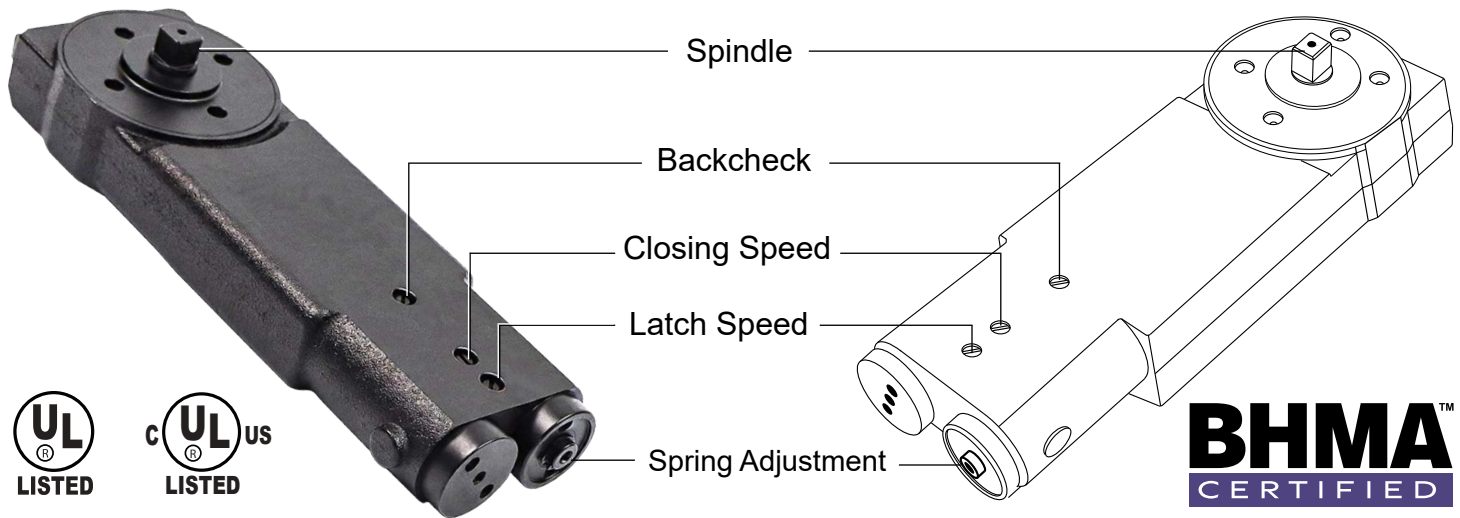
[Standard Heavy-Duty Arm Installation](#)

[Spring-Cush Heavy-Duty Arm Installation](#)

DOOR CLOSERS – OVERHEAD CONCEALED

Grade 1 Certified Overhead Concealed Door Closer / Adjustable with Backcheck

DHC2000-BC Series — ADJUSTABLE SPRING CLOSER



COMPLIANCE & CERTIFICATION

- UL & cUL Listed; meets UL 10C fire-rating standards for non-hold open
- ANSI/BHMA A156.4 Grade 1 certified for maximum quality assurance

DOOR COMPATIBILITY & APPLICATIONS

- Suitable for center-hung & offset doors (double/single acting)
- Accommodates wood, metal, or aluminum doors over 1 3/4" (44.5 mm) thick
- Fits neatly inside standard aluminum frame headers, enhancing aesthetics and security
- Standard opening angles of 90° and 105°, available with optional hold-open features
- Interchangeable with common hole patterns from other leading brands

PERFORMANCE & ADJUSTABILITY

- Features fully adjustable closing speed, latch speed, and backcheck functions
- All-weather fluid for reliable performance under varying climatic conditions
- Adjustable spring power settings (sizes 1–3 or 3–5)

CONSTRUCTION & DURABILITY

- Constructed from durable cast iron, ensuring long-term reliability
- Equipped with a standard heavy-duty 1/2" (12.7 mm) spindle for added strength

WARRANTY

- Lifetime warranty against defects, ensuring customer peace of mind

Item No.	Max Door	Door Weight Opening	Power Size	Maximum Opening	Remark
DHC2013-90-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	90°	NON-HOLD OPEN 90°, UL LISTED
DHC2013-90H-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	90°	HOLD OPEN 90°
DHC2013-105-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	105°	NON-HOLD OPEN 105°, UL LISTED
DHC2013-105H-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	105°	HOLD OPEN 105°
DHC2035-90-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	90°	NON-HOLD OPEN 90°, UL LISTED
DHC2035-90H-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	90°	HOLD OPEN 90°
DHC2035-105-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	105°	NON-HOLD OPEN 105°, UL LISTED
DHC2035-105H-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	105°	HOLD OPEN 105°

ACCESSORIES – OVERHEAD CONCEALED DOOR CLOSER

Photo	Item No.	Description
	DHC2000-DUMMY	OHC Dummy Closer — Non-functional unit, serves as pivot only
	DHOHC-2000-FS	Anchor Set (Included with standard packing)
	DHARM-2000-A	"A" Type End Load Arm — For 1" deep top rail
	DHARM-2000-K	"K" Type End Load Arm — For 5/8" (16 mm) deep top rail
	DHARM-2000-PT	"PT" Type End Loading Top Arm Assembly — For 7/8" (22 mm) deep top rail
	DHARM-2000-S	"S" Type Side Load Arm — For 1/2" deep top rail
	DHARM-2000-SA	"A" Type Short End Load Arm — For 1" deep top rail
	DHARM-2000-JO	"JO" Type Offset Arm — For 9/16" (14 mm) narrow top rail
	DHARM-2000-VO	"VO" Type Offset Arm — For 7/8" (22 mm) deep top rail
	DHOHC-2000-G	Adjustable Floor-Mount Bottom Pivot Set (Optional)
	DHOHC-2000-GE	Adjustable Threshold-Mount Bottom Pivot Set (Optional)
	DHOHC-2000-DP	Adjustable Dual-Purpose Bottom Pivot Set (Standard)

HEAVY WEIGHT ALUMINUM CONTINUOUS GEARED HINGES

Direct Hardware Heavy Weight Aluminum Continuous Geared Hinges are designed for durability and reliable performance in high-traffic environments. Unlike traditional pin-based hinges, our geared design features a rotating joint that evenly distributes weight across the entire length of the frame—reducing stress and significantly minimizing wear over time.

DHHD157



DHHD210



DHHD112



DHHD053



Item No.	Type	Size	Finish	QTY
DHHD053	Half-Surface	83"	Alum / BLK / Duro	1
DHHD053	Half-Surface	95"	Alum / BLK / Duro	1
DHHD053	Half-Surface	119"	Alum / BLK / Duro	1
DHHD057	Full-Surface	83"	Alum / BLK / Duro	1
DHHD057	Full-Surface	95"	Alum / BLK / Duro	1
DHHD057	Full-Surface	119"	Alum / BLK / Duro	1
DHHD157	Full-Surface	83"	Alum / BLK / Duro	1
DHHD157	Full-Surface	95"	Alum / BLK / Duro	1
DHHD157	Full-Surface	119"	Alum / BLK / Duro	1
DHHD210	Full-Surface	83"	Alum / BLK / Duro	1
DHHD210	Full-Surface	95"	Alum / BLK / Duro	1
DHHD210	Full-Surface	119"	Alum / BLK / Duro	1
DHHD111	Full-Mortise	83"	Alum / BLK / Duro	1
DHHD111	Full-Mortise	95"	Alum / BLK / Duro	1
DHHD111	Full-Mortise	119"	Alum / BLK / Duro	1
DHHD112	Full-Mortise	83"	Alum / BLK / Duro	1
DHHD112	Full-Mortise	95"	Alum / BLK / Duro	1
DHHD112	Full-Mortise	119"	Alum / BLK / Duro	1
DHHD224	Full-Mortise	83"	Alum / BLK / Duro	1
DHHD224	Full-Mortise	95"	Alum / BLK / Duro	1
DHHD224	Full-Mortise	119"	Alum / BLK / Duro	1

CROSS-REFERENCE CHART

DH	ABH	IVES	MCKINNEY	NGP	PEMKO	ROTON	SELECT	STANLEY	ZERO
DHHD053	A530HD	053XY		HD5300		780-053HD	SL53 HD600	679HD	925DB
DHHD057	A571HD					780-057HD	SL60 HD600		
DHHD111	A111HD		MCK-14HD	HD1800	FMSLIHD	780-111HD	SL18 HD600		
DHHD112	A110HD	112HD	MCK12HD	HD1100	FMSLFHD	780-112HD	SL11 HD600	661HD	910DB
DHHD157	A570HD	157XY	MCK58HD	HD5700	FSCPHD	780-157HD	SL57 HD600	664HD	935DB
DHHD210	A210HD	210XY	MCK22HD	HD2100	FSHD	780-210HD	SL21 HD600	665HD	930DB
DHHD224	A240HD	224HD	MCK25HD	HD2400	FMHD	780-224HD	SL24 HD600	662HD	914DB

CONTINUOUS GEARED HINGES

Full-Mortise Aluminum Continuous-Geared Hinges / Heavy-Duty

DHHD111 and DHHD112 are aluminum continuous geared concealed-leaf hinges.

DHHD111 has a 1/8" (3.18 mm) door inset; DHHD112 is flush door.

Both models fit standard frames without hinge prep and can be installed with or without reinforcements depending on door weight. Provide a minimum 5/16" (7.94 mm) clearance between the door's hinge edge and the frame rabbet.

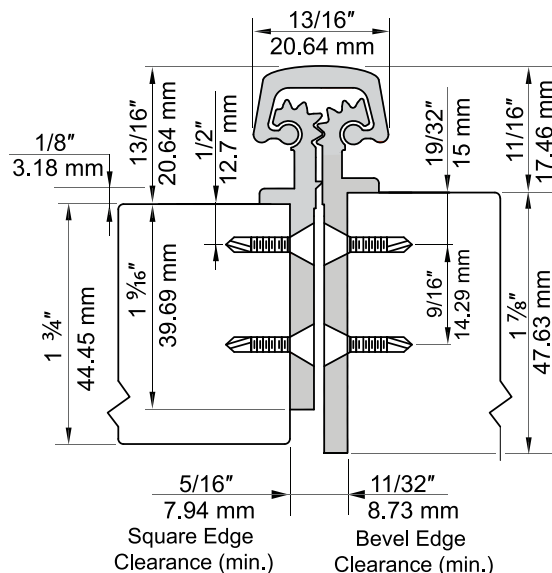


Fig. 1 — DHHD111

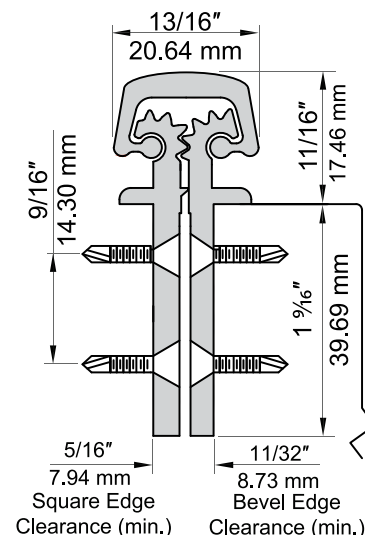


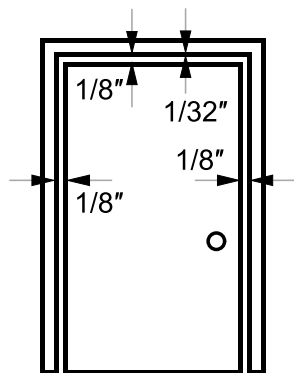
Fig. 2 — DHHD112

Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than the nominal door height to avoid interference with thresholds or carpet. If field-trimming is required, first confirm the handing and hinge orientation. Mark and trim from the bottom only.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

Door Clearance Required

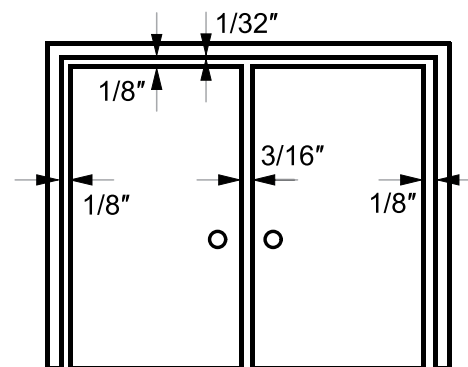


SINGLE DOOR

Hinge thickness: 5/16" (7.94 mm)
 Allowance for frame irregularities: 1/32" (0.79 mm)
 Typical latch-side clearance: 1/8" (3.18 mm)
 Total: 15/32" (11.90 mm)

DOUBLE DOORS

First hinge thickness: 5/16" (7.94 mm)
 First Allowance for frame irregularities: 1/32" (0.79 mm)
 Typical clearance between doors: 3/16" (4.78 mm)
 Second hinge thickness: 5/16" (7.94 mm)
 Second allowance for frame irregularities: 1/32" (0.79 mm)
 Total: 7/8" (22.23 mm)



Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 5/16" (7.94 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

What to Order

Specify: • Model (DHHD111 or DHHD112) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

DHHD111 AND DHHD112 INSTALLATION INSTRUCTIONS

Frame Preparation (See Fig. 3)

1. With the hinge open, place the frame leaf against the frame rabbet so the alignment rib is flush with the frame face along its full length. Position the top of the hinge 1/16" below the header (max 1/8"). Tip: use a 1/16" shim to allow for initial bearing settling.
2. Mark and center-punch all screw-hole locations accurately.
3. Metal frames: 16-gauge: no pilot holes required with the supplied #12 self-drilling screws. Thicker than 16-gauge: drill and tap all holes #12-24 before installing screws.
4. Do not attach the hinge to the frame yet.

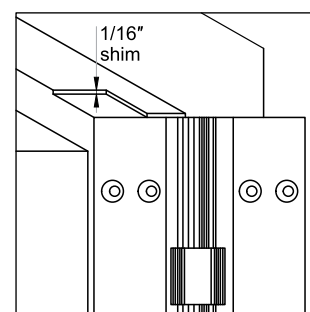


Fig. 3 — Frame Preparation

Door Preparation (See Fig. 4)

1. With the hinge open, place the door leaf at the door edge so the alignment rib is flush with the door face along its full length. Align the top of the hinge with the top edge of the door.
2. Metal doors:
 - 16-gauge hollow metal: no pilot holes required with the supplied #12 self-drilling screws.
 - Thicker than 16-gauge: drill and tap all holes #12-24 before installing screws.
 Wood doors: if using the optional #12 wood screws (included with LL models), pre-drill with a 5/32" (4 mm) bit.
3. Attach the hinge to the door. Metal doors: use the supplied #12 self-drilling screws (recommended driver speed 1,900–2,500 RPM). Wood doors: use the optional #12 wood screws.

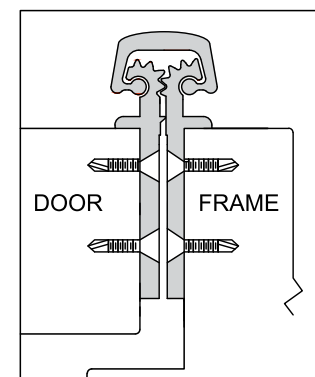


Fig. 4 — Door Preparation

Hanging the Door (See Fig. 5)

1. With the hinge attached to the door, set the door at 90° to the frame and fasten the frame leaf to the rabbet. Metal frames: use the supplied #12 self-drilling screws (driver speed 1,900–2,500 RPM). Wood frames: use the optional #12 wood screws.
2. Perform a gentle trial swing and verify smooth operation and proper clearances.

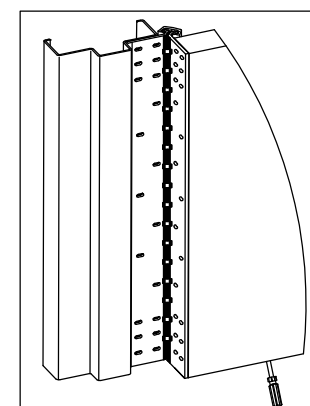


Fig. 5 — Hanging the Door

Adjusting the Door

1. If lateral adjustment is required due to excessive or uneven door/frame clearance, shim as needed:
 - a) Minor adjustment: Use 1½" (38.1 mm) wide cloth duct tape as shim material. Apply the tape in stepped layers beneath the frame leaf where adjustment is needed, building up to the required shim thickness.
 - b) Shift entire door: insert a continuous aluminum shim strip under the frame leaf (available in 1/16" and 1/8" thicknesses).
2. Re-tighten all screws and perform a final swing test to confirm smooth operation and correct clearances.

Material	Pilot Holes	Screw Type	Notes
16-ga metal frame/door	Not required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
>16-ga metal	Drill & tap #12-24	#12-24 machine screw	Tap all mounting holes
Wood frame/door	Drill 5/32" (4 mm)	#12 wood screw (optional)	Included with leaf-cover (LL) models

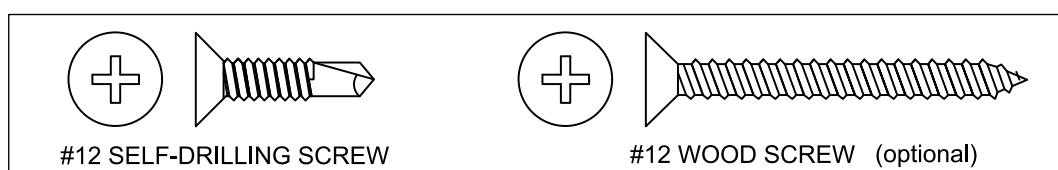
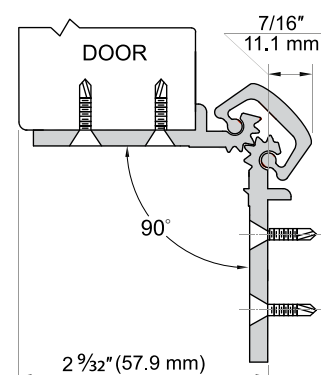


Fig. 6 — Door Open 90° / Clearance Dimensions

CONTINUOUS GEARED HINGES

Full-Mortise Aluminum Continuous-Geared Hinges / Heavy-Duty

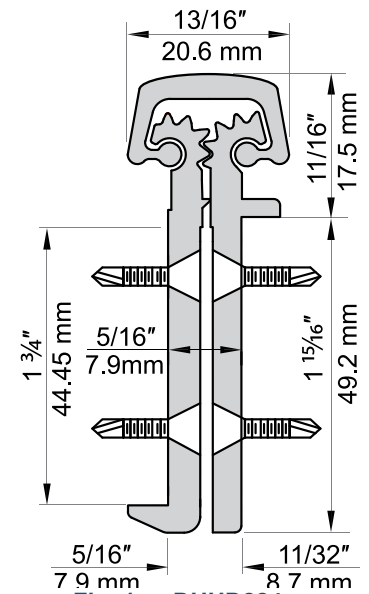
DHHD224 · Full-Mortise Hinge is an aluminum continuous-geared, concealed-leaf hinge engineered for durability and smooth operation. This model provides a 1/16" (1.59 mm) door inset and is compatible with standard frames—no hinge prep required. It may be installed with or without reinforcements, depending on door weight. Maintain a minimum clearance of 5/16" (7.94 mm) between the door's hinge edge and the frame rabbet. Hinges are supplied with bearings.

Hinge Length

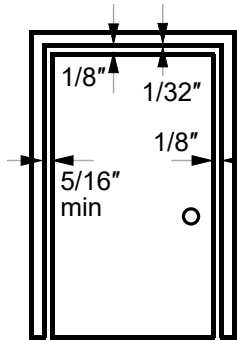
Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than the nominal door height to avoid interference with thresholds or carpet.

If field-trimming is required, first confirm the handing and hinge orientation. Mark and trim from the bottom only.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS



Door Clearance Required

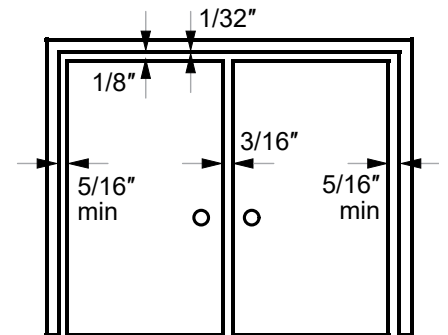


SINGLE DOOR

Hinge thickness: 5/16" (8 mm)
Allowance for frame irregularities: 1/32" (0.8 mm)
Typical latch-side clearance: 1/8" (3.2 mm)
Total: 15/32" (11.9 mm)

DOUBLE DOORS

First hinge thickness: 5/16" (8 mm)
First Allowance for frame irregularities: 1/32" (0.8 mm)
Typical clearance between doors: 3/16" (4.8 mm)
Second hinge thickness: 5/16" (8 mm)
Second allowance for frame irregularities: 1/32" (0.8 mm)
Total: 7/8" (22.2 mm)



Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 5/16" (7.94 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

What to Order

Specify: • Model (DHHD224) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

Quick-Specs

Door Inset	1/16" (1.59 mm)
Handing	LH/RH (or Non-handed)
Clearances	5/16" (8 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

DHHD224 INSTALLATION INSTRUCTIONS

Frame Preparation (See Fig. 2)

1. With the hinge open, place the frame leaf against the frame rabbet. Keep the alignment rib flush against the frame face along the full length of the hinge.
2. Position the top of the hinge 1/16" (1.59 mm) below the header, with a maximum clearance of 1/8". Use a 1/16" shim to establish the initial clearance.
3. Mark and center-punch all mounting-hole locations accurately.
 - Metal frames, 12 gauge or thinner: No pre-drilling is required when using the supplied #12 self-drilling screws.
 - Metal frames thicker than 12 gauge: Drill and tap all mounting holes for #12-24 threads before installing screws.
 - Wood frames: Pre-drill with a #18 (0.1695" / 4.3 mm) drill bit for the optional #12 wood screws.
4. Do not attach the hinge to the frame at this stage.

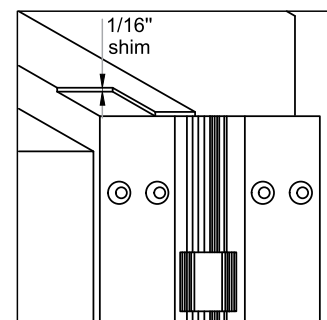


Fig. 2 — Frame Preparation

Door Preparation (See Fig. 3)

1. With the hinge open, place the door leaf against the door edge. Keep the alignment rib flush against the door face along the full length of the hinge.
2. Align the top of the hinge with the top edge of the door.
3. Mark and center-punch all mounting-hole locations accurately.
 - Hollow-metal doors, 12 gauge or thinner: No pre-drilling is required when using the supplied #12 self-drilling screws.
 - Metal doors thicker than 12 gauge: Drill and tap all mounting holes for #12-24 threads before installing screws.
 - Wood doors: Pre-drill with a #18 (0.1695" / 4.3 mm) drill bit for the optional #12 wood screws.
4. Attach the hinge to the door using the appropriate fasteners.

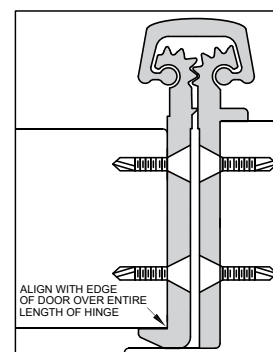


Fig. 3 — Door Preparation

Hanging the Door (See Fig. 4)

1. With the hinge attached to the door, position the door at 90° to the frame.
2. Fasten the frame leaf to the frame rabbet using the appropriate fasteners.
3. Carefully swing the door to check for smooth operation and proper clearances.

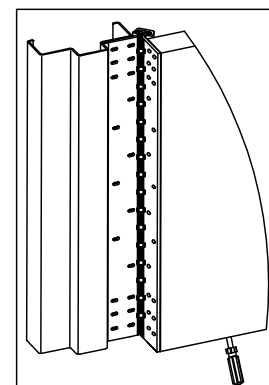


Fig. 4 — Hanging the Door

Adjusting the Door

1. If the clearance between the door and frame is excessive or uneven, adjust by shimming beneath the frame leaf:
 - a) For minor adjustments, use 1½" (38.1 mm) wide cloth duct tape. Apply it in stepped layers where adjustment is needed, building up to the required shim thickness.
 - b) To shift the entire door, insert a continuous aluminum shim beneath the frame leaf.
2. Retighten all screws and carefully swing the door again to verify proper operation and clearances.

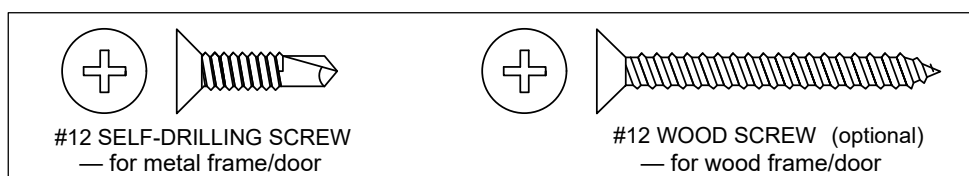
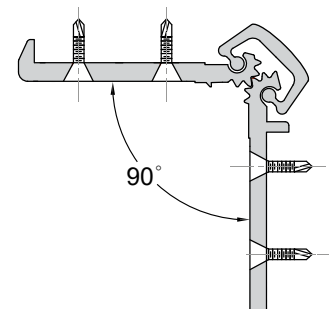


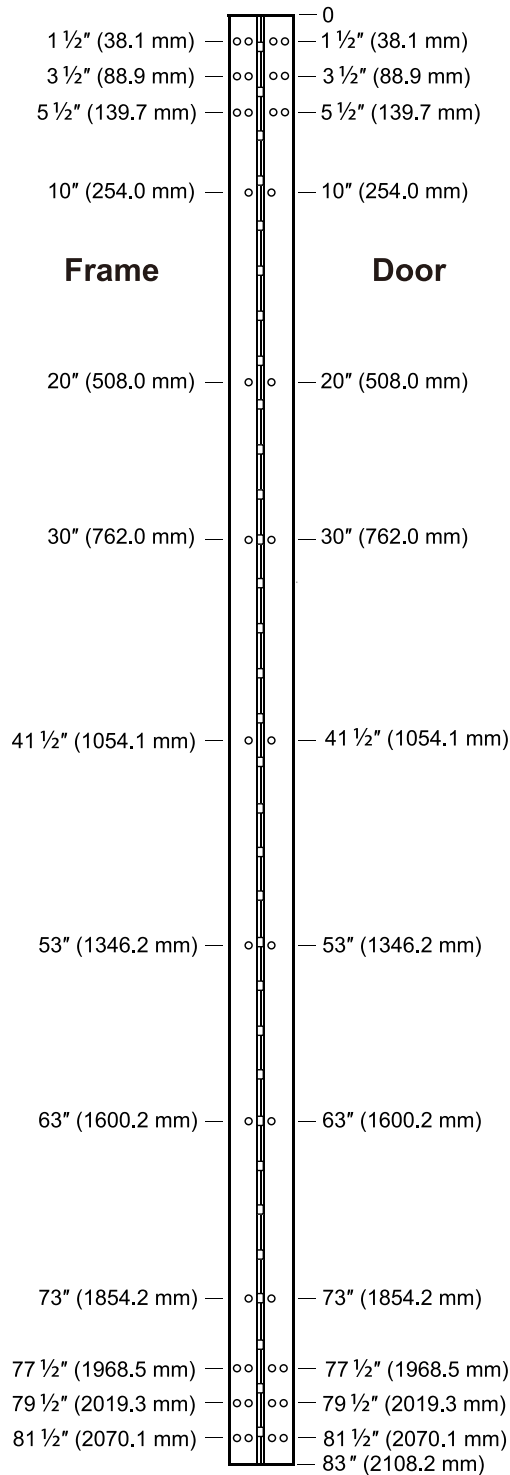
Fig. 5 — Door Open 90°

DHHD224 TEMPLATES & CROSS REFERENCES

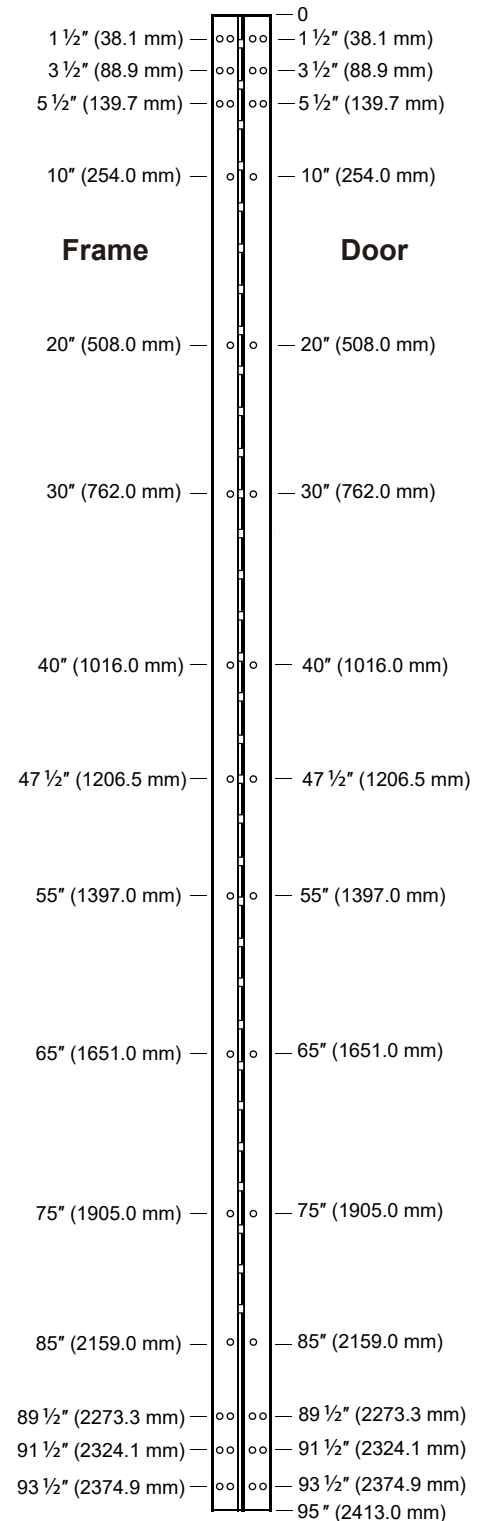
DHHD224 Templates

(See Fig.1 - Fig.5) Frame/door leaf hole positions are the same.

83" Template: 38 fasteners and 32 bearings



95" Template: 42 fasteners and 36 bearings



Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD224	A240HD	224HD	FM2011	MCK25HD	HD2400	FMHD	CH31	780-224HD	SL24 HD600	662HD	914DB

DHHD053 INSTALLATION INSTRUCTIONS

Attach Hinge to Frame (See Fig. 2)

1. Open the hinge and shim its top $1/16"$ (1.59 mm) below the header rabbet, maximum $1/8"$ (3.2 mm). Seat the frame-leaf alignment flange firmly against the frame face.
2. Mark and center-punch all mounting holes. Prepare and fasten according to frame material:
 - Metal, 12 gauge or thinner: No pre-drilling required.
 - Metal thicker than 12 gauge: Drill and tap all holes #12-24.
 - For both metal conditions, use supplied #12 self-drilling screws at 1,900–2,500 RPM.
 - Wood: Pre-drill #18 (0.1695" / 4.3 mm) pilot holes and fasten with optional #12 wood screws.

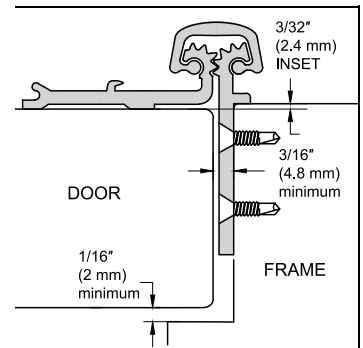


Fig. 2 — Attach Hinge to Frame

Door Preparation (See Fig. 3)

1. Swing the hinge leaf aside and shim the door in position. Allow $1/16"$ top clearance, plus an additional $1/32"$ at the latch side for settling.
2. Secure the door and rotate the hinge leaf against the door face.
3. Mark and center-punch the holes for the selected mounting method:
 - Through-bolts: Use the larger hole locations. Swing the leaf aside and drill $3/8"$ (9.5 mm) holes squarely through the door.
 - Optional screw mounting: Use the smaller hole locations. For metal doors, use optional #12 self-drilling screws. For wood doors, pre-drill #18 (0.1695" / 4.3 mm) pilot holes for optional #12 wood screws.

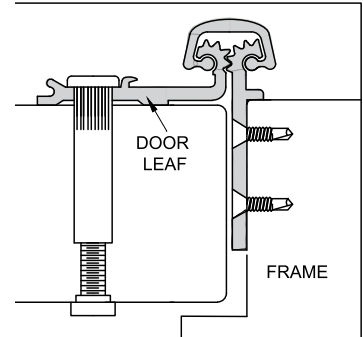


Fig. 3 — Door Preparation & Attachment

Attach Door to Hinge (See Fig. 3)

1. Fasten door to the door leaf as shown; adjust frame for smooth operation & proper alignment.
2. Complete fastening to the hinge; re-check alignment and remove all shims/wedges.
3. Secure the door to the door leaf with barrel nuts and $1/4$ -20 sex bolts.

Install Leaf Cover on Door Leaf (See Fig. 4)

1. With the supplied $5/64"$ (1.98 mm) hex key, locate and loosen the molding's retaining set screw.
2. Align the long leg of the molding along the outer edge of the door leaf for full-length contact with the hinge.
3. Starting at the top, press—or gently tap—the short leg into place using a rubber mallet or a hammer with a wood block.
4. Re-tighten the retaining set screw securely.

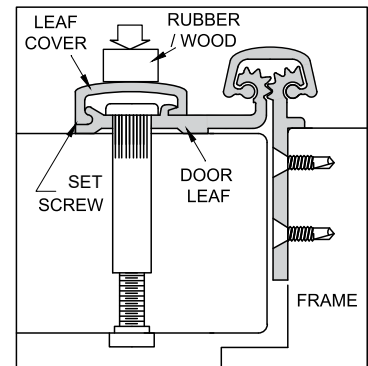


Fig. 4 — Install Leaf Cover on Door Leaf

Material/App	Hole Preparation	Fastener	Notes
Metal frame, 12 gauge or thinner	No pre-drilling required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
Metal frame thicker than 12 gauge	Drill & tap #12-24	#12 self-drilling screw (supplied)	Prepare all mounting holes
Wood frame / optional wood-door screw mounting	#18 drill, 0.1695" (4.3 mm)	Optional #12 wood screw	Pilot holes for wood screws
Door, standard through-bolt mounting	$3/8"$ (9.5 mm) through-holes	$1/4$ -20 sex bolts and barrel nuts	Drill squarely through the door

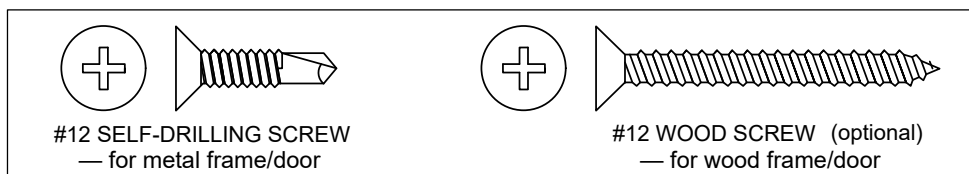
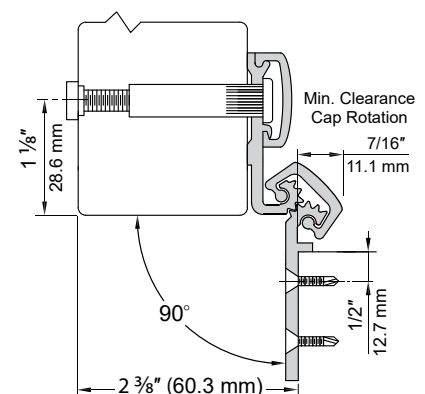
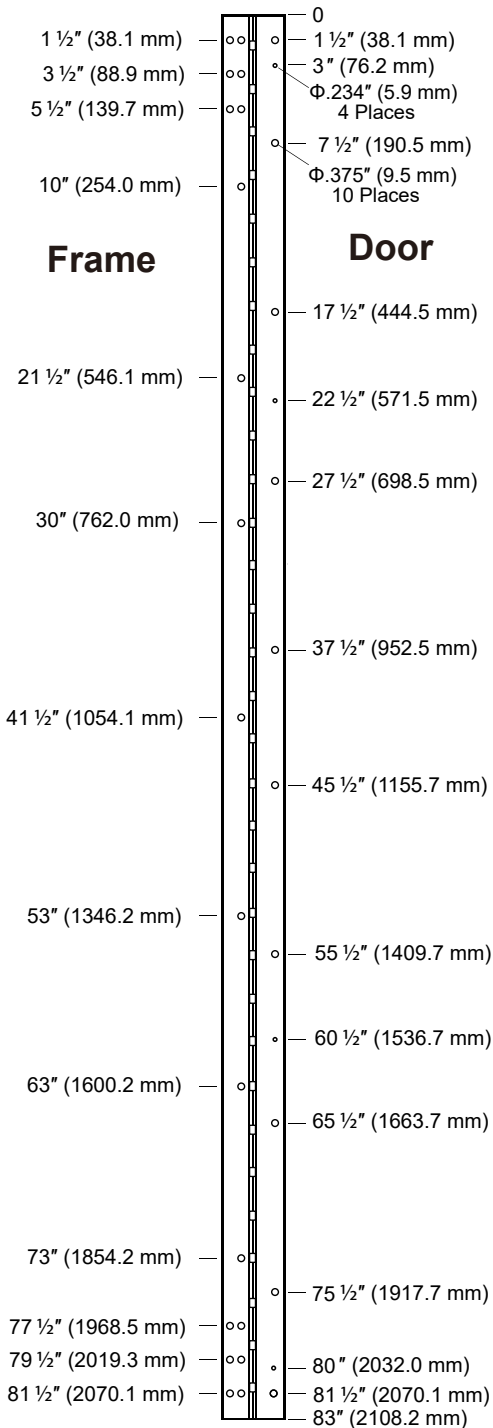


Fig. 5 — Door Open 90° / Clearance Dimensions

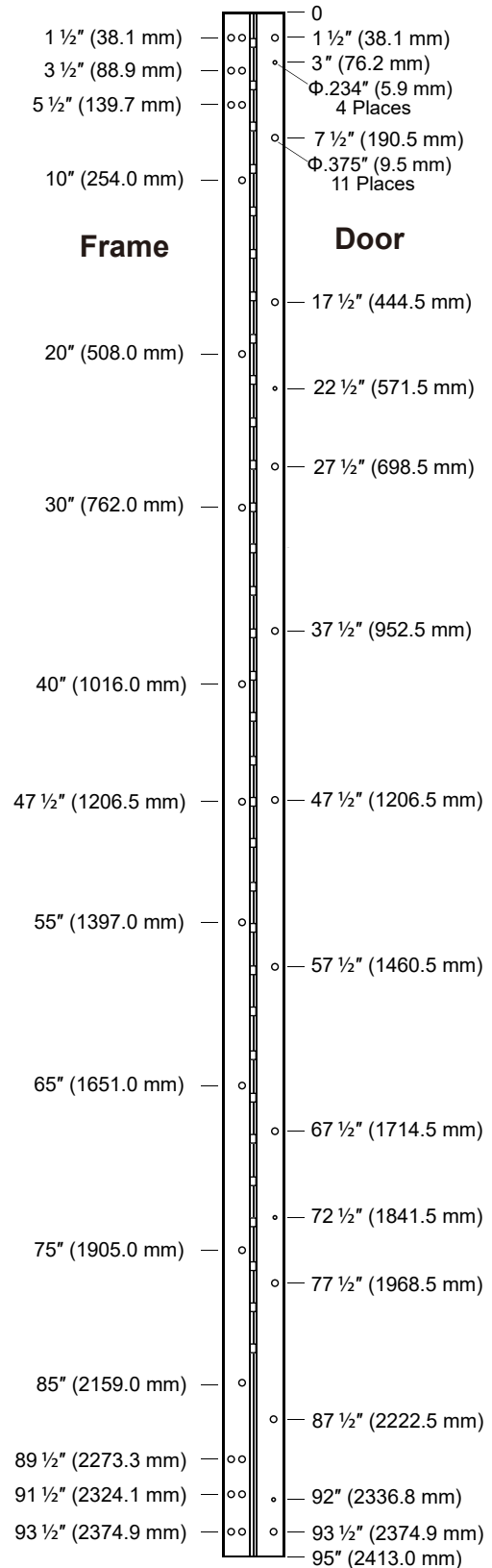
DHHD053 TEMPLATES & CROSS REFERENCES

DHHD053 Templates / Leaf Hole Positions

83" Template: 29 fasteners and 32 bearings



95" Template: 33 fasteners and 36 bearings



Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD053	A530HD	053XY			HD5300	CH31	780-053HD	SL53 HD600	679HD	925DB

CONTINUOUS GEARED HINGES

Full-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

DHHD210 / Full-Surface Hinge is an aluminum, continuous geared, full-surface hinge designed for a 1/32" (0.8 mm) door inset. It installs on standard frames without hinge preparations and may be used with or without reinforcements, depending on door weight. The frame face must provide a flat bearing surface at least 1 5/8" (41.3 mm) wide. A clearance of 1/16" (1.6 mm) is required between the door's hinge edge and the frame rabbet. Hinges are supplied with bearings.

Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than nominal door height

to avoid interference at thresholds or carpet. If shortening is required, first confirm door handing and hinge orientation. Mark and trim from the bottom only—do not cut the top.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

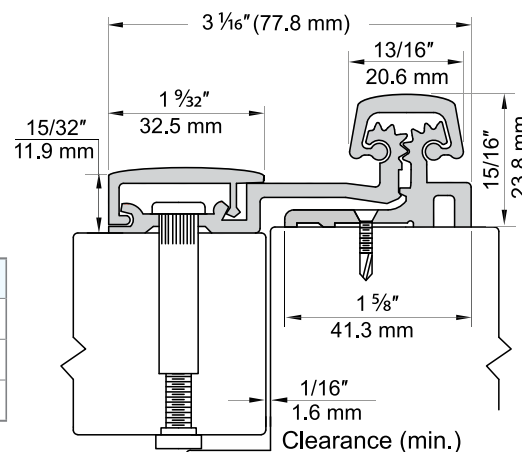
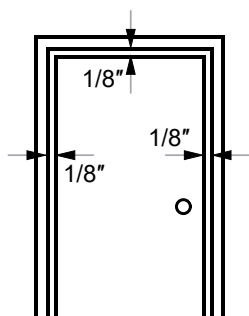


Fig. 1 — DHHD210

Door Clearance Required

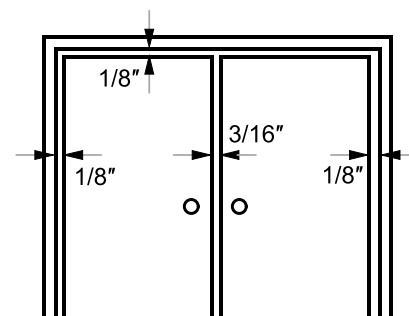


SINGLE DOOR

Typical hinge-side clearance: 1/8" (3.2 mm)
Typical latch-side clearance: 1/8" (3.2 mm)
Total: 1/4" (6.4 mm)

DOUBLE DOORS

First hinge-side clearance (typical): 1/8" (3.2 mm)
Clearance between doors (typical): 3/16" (4.8 mm)
Second hinge-side clearance (typical): 1/8" (3.2 mm)
Total: 7/16" (11.1 mm)



Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 1/16" (1.6 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

Note: If the cut length coincides with a set screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

What to Order

Specify: • Model (DHHD210) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

Quick-Specs

Door Inset	1/32" (0.8 mm)
Handing	LH/RH (or Non-handed)
Clearances	1/16" (1.6 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

DHHD210 INSTALLATION INSTRUCTIONS

Attach Hinge to Frame (See Fig. 2)

1. Ensure the frame face provides a flat bearing surface at least $1\frac{5}{8}$ " (41.3 mm) wide. Mark a reference line on the frame face $1\frac{3}{4}$ " (44.5 mm) from the gap centerline between the door and jamb. (For a standard $1/8$ " hinge-side gap, this reference is $1\frac{3}{4}$ " from the gap centerline.)
2. Align the outer edge of the frame-side leaf to the reference line. Set the top of the hinge $1/16$ " (1.6 mm) below the header rabbet, max. $1/8$ " (3.2 mm).
3. Swing the door-side leaf away to expose the fastener locations; mark and center-punch each hole.
4. Fastening by substrate:
 - a) Metal frames, 16 ga: no pilot holes required with the provided #12 self-drilling screws.
 - b) Metal frames, thicker than 16 ga: drill and tap all mounting holes for #12-24 threads before installing screws.
 - c) Wood frames: pre-drill $5/32$ " (4.0 mm) pilot holes for optional #12 wood screws.
5. Secure the hinge to the frame face. For metal frames, install the provided #12 self-drilling screws at a recommended drill/driver speed of 1,900–2,500 RPM. For wood frames, use the optional #12 wood screws.

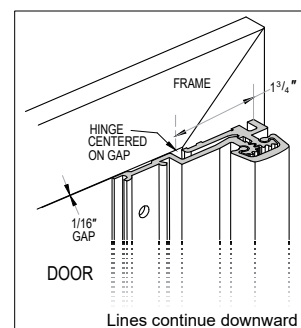


Fig. 2 — Attach Hinge to Frame

Door Preparation (See Fig. 3)

1. With the hinge leaf swung aside, position the door in the frame. Use shims or wedges to achieve the required clearances on all sides.
2. Provide an additional $5/32$ " (4.0 mm) of clearance at the top of the latch edge to accommodate possible settling or frame twist after shims are removed and the door's weight is transferred to the frame.
3. Secure the door in place, then rotate the hinge leaf into contact with the door face.
4. Choose one of the following mounting methods for the door-side leaf:
 - a) Standard sex-bolt mounting: mark and center-punch locations for $3/8$ " (9.53 mm) through-holes; swing the leaf away; drill through the door at each mark using a $3/8$ " (9.53 mm) bit.
 - b) Mounting without sex bolts: mark and center-punch locations for $7/32$ " (5.56 mm) pilot holes. For metal doors, use optional #12 self-drilling screws; for wood doors, pre-drill $5/32$ " (4.0 mm) pilot holes and use optional #12 wood screws.

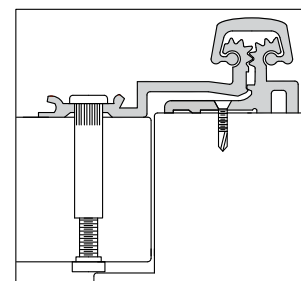


Fig. 3 — Door Preparation

Attach Door to Hinge (See Fig. 4)

1. Fasten the hinge to the door as shown. For added security on the push face, sex bolts may be installed in reverse; note that once the molding is installed, reversed sex bolts are no longer accessible for service or removal.
2. Remove all shims and wedges. Gently swing the door to verify smooth operation, correct alignment, and adequate clearances.

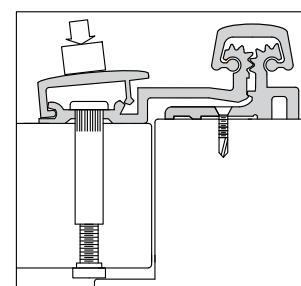


Fig. 4 — Attach Door to Hinge

Install Leaf Cover on Door Leaf (See Fig. 5)

1. Using the supplied $5/64$ " (1.98 mm) hex key, locate and loosen the retaining set screw on the molding edge. Position the long leg of the molding beneath the outer edge of the door leaf, aligning it along the full length of the hinge.
2. Starting at the top and working downward, press or lightly tap the short leg of the molding into place using a rubber mallet—or a hammer with a wood block as a protector.
3. Tighten the retaining set screw securely.

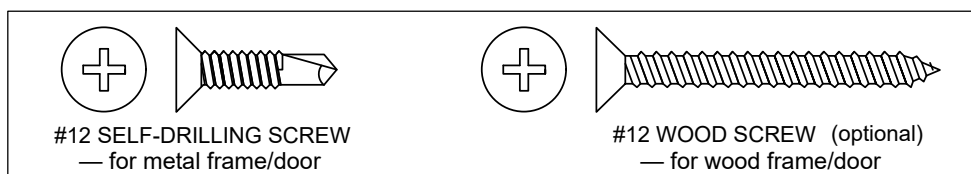
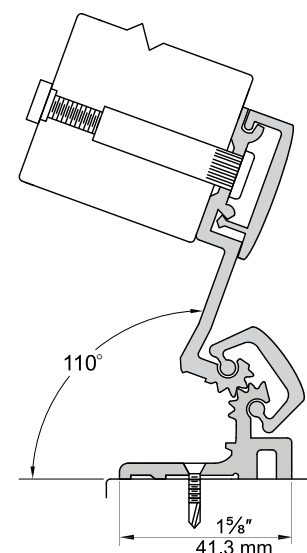
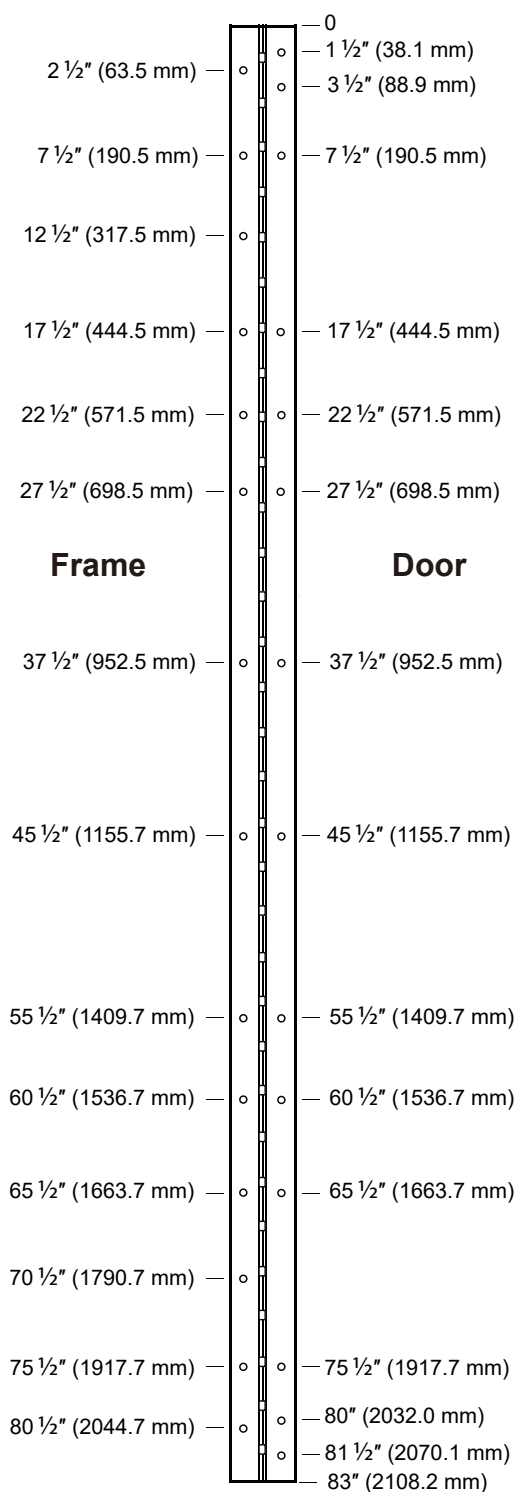


Fig. 5 — Install Leaf Cover on Door Leaf

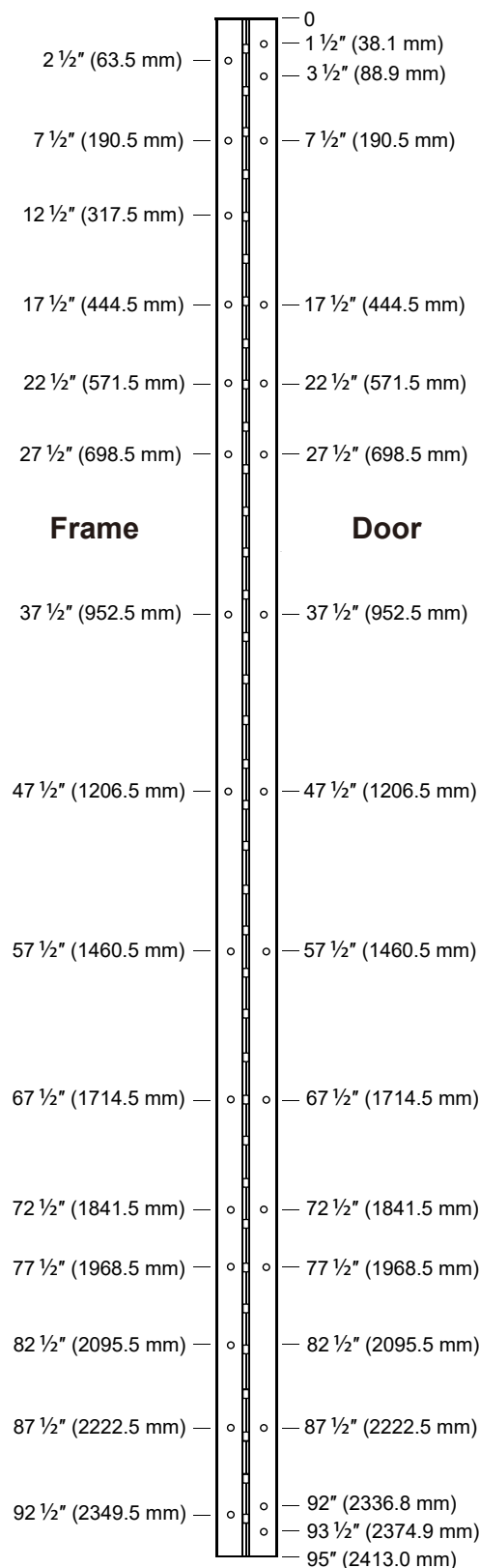
DHHD210 TEMPLATES & CROSS REFERENCES

DHHD210 Templates / Leaf Hole Positions

83" Template: 24 fasteners and 32 bearings



95" Template: 26 fasteners and 36 bearings



Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD210	A210HD	210XY	FM2009	MCK22HD	HD2100	FMHD	CG33C	780-210HD	SL21 HD600	665HD	930DB

CONTINUOUS GEARED HINGES

Full-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

DHHD057 / Full-Surface Hinge is an aluminum, continuous-geared, full-surface hinge designed for installation on standard frames without hinge preparations. It may be installed with or without reinforcements, depending on door weight. The frame face must provide a flat surface at least $1 \frac{3}{16}$ " (30.2 mm) wide. A clearance of $1/16$ " (1.6 mm) is required between the door's hinge edge and the frame rabbet.

Hinges are supplied with bearings.

Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to $1 \frac{5}{16}$ " (33.3 mm) shorter

than nominal door height to avoid interference at thresholds or carpet. If shortening is required, first confirm door handing and hinge orientation. Mark and trim from the bottom only—do not cut the top.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

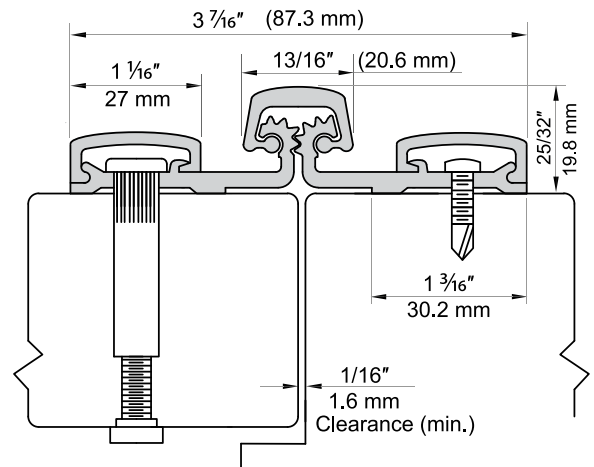
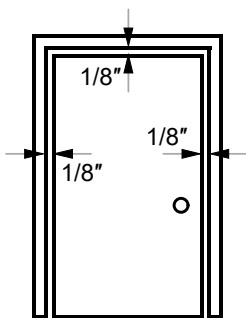


Fig. 1 — DHHD057

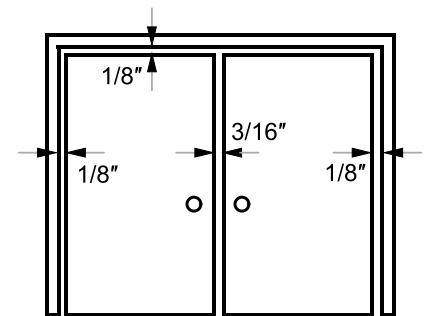
Door Clearance Required



SINGLE DOOR

Typical hinge-side clearance: $1/8$ " (3.2 mm)
 Typical latch-side clearance: $1/8$ " (3.2 mm)
 Total: $1/4$ " (6.4 mm)

DOUBLE DOORS
 First hinge-side clearance (typical): $1/8$ " (3.2 mm)
 Clearance between doors (typical): $3/16$ " (4.8 mm)
 Second hinge-side clearance (typical): $1/8$ " (3.2 mm)
 Total: $7/16$ " (11.1 mm)



Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain $1/16$ " (1.6 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

Note: If the cut length coincides with a set screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

What to Order

Specify: • Model (DHHD057) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

Quick-Specs

Door Inset	$1/16$ " (1.6 mm)
Handing	LH / RH (or Non-handed)
Clearances	$1/16$ " (1.6 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

DHHD057 INSTALLATION INSTRUCTIONS

Attach Hinge to Frame (See Fig. 2)

1. Position the hinge in the door-open position.
2. Using a shim, set the top of the hinge $1/16"$ (1.6 mm) below the header rabbet (max. $1/8"$ / 3.2 mm). Seat the frame-leaf alignment flange snugly against the frame face.
3. Mark (or center-punch) one hole at the top and one at the bottom of the frame leaf. Then prepare holes per substrate:
 - a) Metal frames ≤ 16 ga: no pilot holes required; use the provided #12 self-drilling screws (recommended 1,900–2,500 RPM).
 - b) Metal frames > 16 ga: drill and tap all mounting holes for #12-24 threads before installing screws.
 - c) Wood frames: pre-drill $5/32"$ (4.0 mm) pilot holes for optional #12 flat-head wood screws.
4. Secure the frame leaf to the frame using the appropriate fasteners listed above.

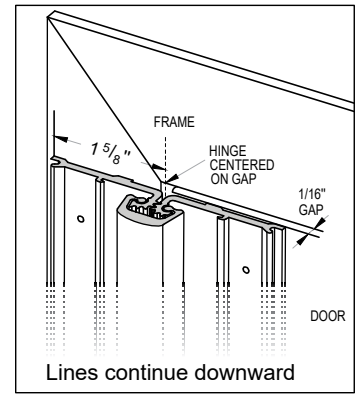


Fig. 2 — Attach Hinge to Frame

Door Preparation

1. Shim the door in the opening to achieve the required clearances.
2. Temporarily attach the door leaf to the door by inserting screws in the locator holes. Remove the shims and verify clearances. Note: Make any adjustments needed to realign the door after the shims are removed.
3. Mark the locations for the top and bottom barrel nuts on the door using a $3/8"$ (9.53 mm) striker pin.
4. Remove the door and place it on a stable horizontal surface. Drill through at each mark with a $3/8"$ (9.53 mm) bit.
 - a) Metal doors: use the optional #12 self-drilling screws where specified.
 - b) Wood doors: pre-drill $5/32"$ (4.0 mm) pilot holes and use optional #12 wood screws.Note: Drill squarely through both faces of the door.

Attach Door to Hinge (See Fig. 3)

1. Fasten the door to the door leaf as illustrated. Adjust the frame/hinge as needed to ensure smooth operation and proper alignment. Remove all shims and wedges.
2. Secure the door to the door leaf using barrel nuts and 1/4-20 sex bolts.

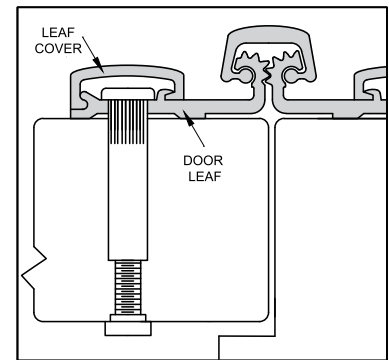


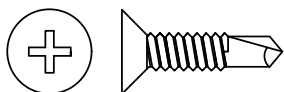
Fig. 3 — Attach Door to Hinge

Install Leaf Cover on Door Leaf (See Fig. 4)

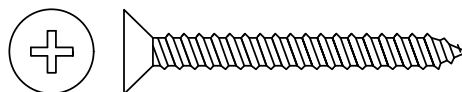
1. Using the supplied $5/64"$ (1.98 mm) hex key, locate and loosen the retaining set screw on the molding edge.
2. Position the long leg of the molding beneath the outer edge of the door leaf, aligning it along the full length of the hinge. Starting at the top, press—or gently tap—the short leg into place using a rubber mallet (or a hammer with a wood block as a protector).
3. Tighten the retaining set screw securely.

Note: If the cut length ever coincides with a set screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

Material	Pilot Holes	Screw Type	Notes
16-ga metal frame/door	Not required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
> 16 -ga metal	Drill & tap #12-24	#12-24 machine screw	Tap all mounting holes
Wood frame/door	Drill $5/32"$ (4 mm)	#12 wood screw (optional)	Included with leaf-cover (LL) models



#12 SELF-DRILLING SCREW
— for metal frame/door



#12 WOOD SCREW (optional)
— for wood frame/door

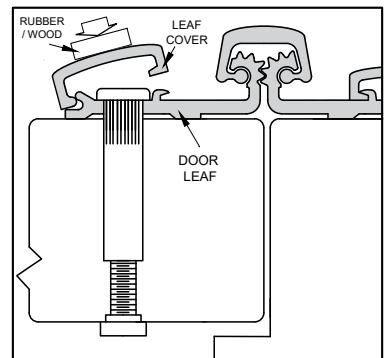
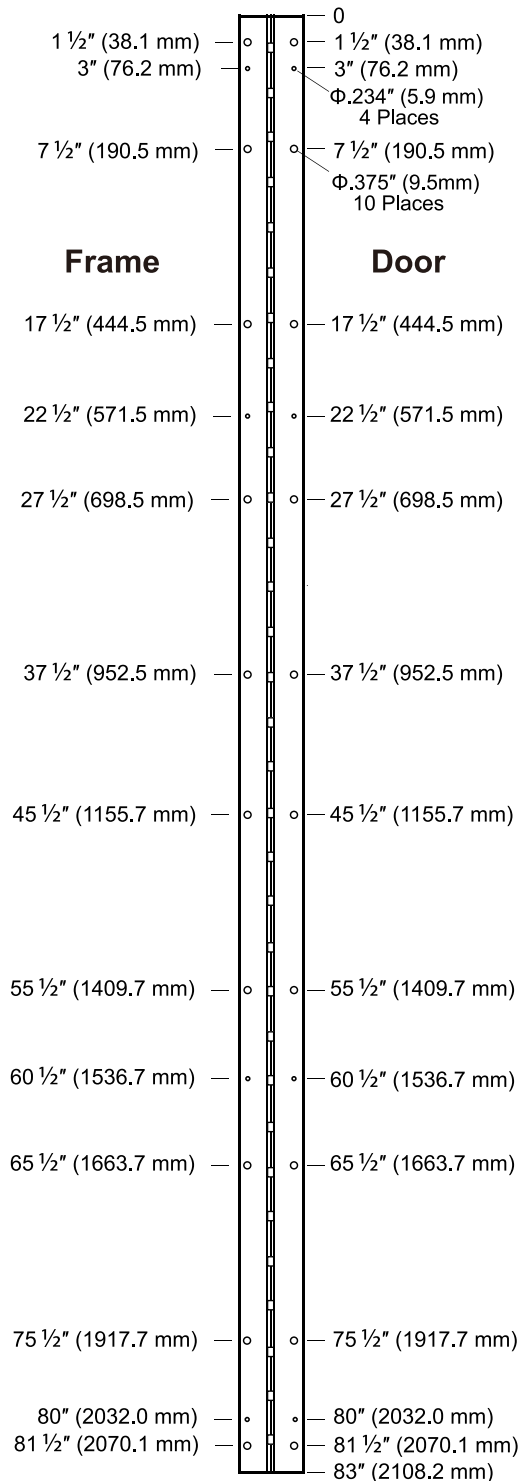


Fig. 4 — Install Leaf Cover on Door Leaf

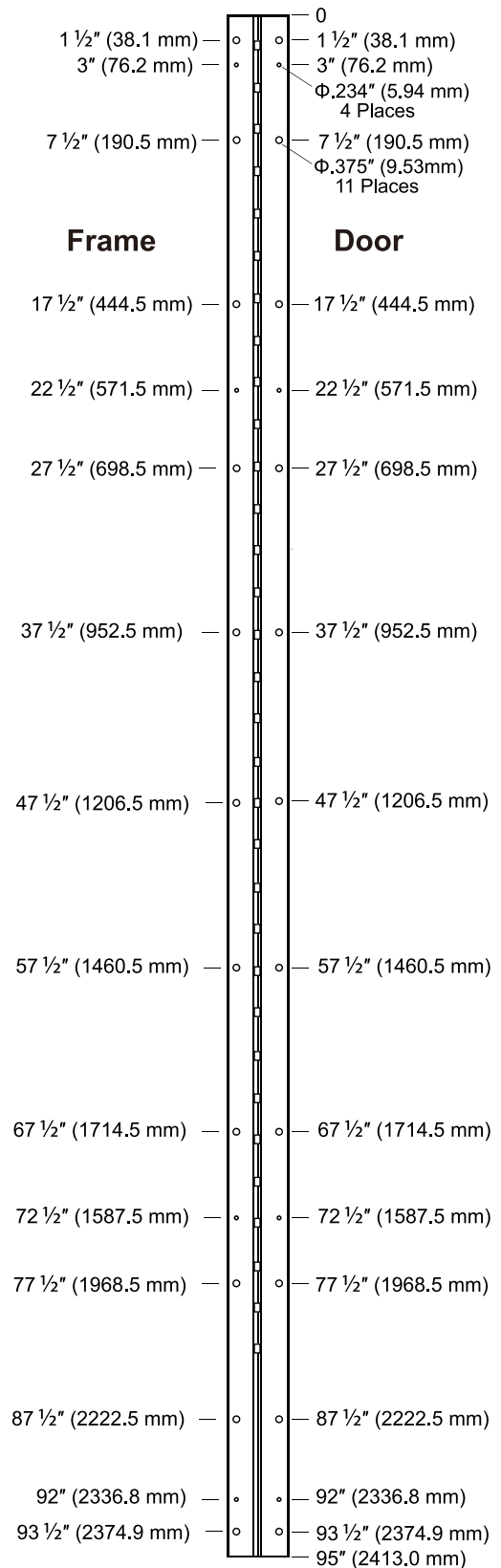
DHHD057 TEMPLATES & CROSS REFERENCES

DHHD057 Templates / Leaf Hole Positions

83" Template: 29 fasteners and 32 bearings



95" Template: 33 fasteners and 36 bearings



Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD057	A571HD		FM2002					780-057HD			

CONTINUOUS GEARED HINGES

Full-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

DHHD157 / Full-Surface Hinge is an aluminum, continuous-geared, full-surface hinge designed for a 1/16" (1.6 mm) door inset. It installs on standard frames without hinge preparations and may be used with or without reinforcements depending on door weight. The frame face must provide a flat bearing surface at least 7/8" (22.2 mm) wide. Maintain a minimum clearance of 1/16" (1.6 mm) between the door's hinge edge and the frame rabbet. Hinges are supplied with bearings.

Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than nominal door height

to avoid interference at thresholds or carpet. If shortening is required, first confirm door handing and hinge orientation. Mark and trim from the bottom only—do not cut the top.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

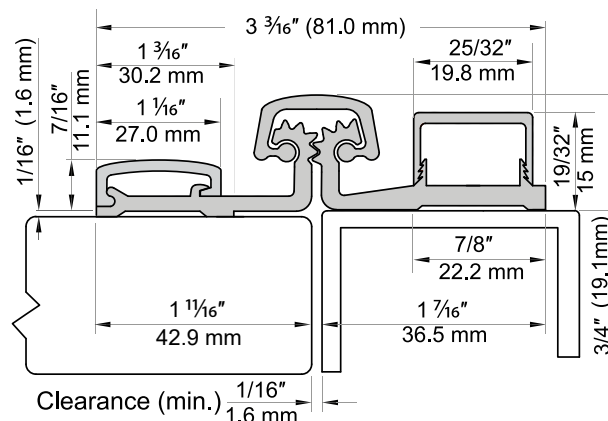
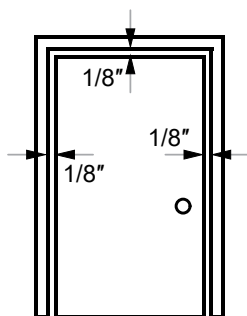


Fig. 1 — DHHD157

Door Clearance Required

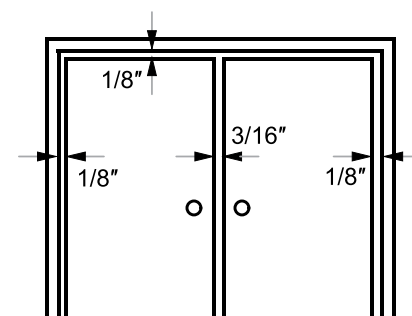


SINGLE DOOR

Typical hinge-side clearance: 1/8" (3.2 mm)
Typical latch-side clearance: 1/8" (3.2 mm)
Total: 1/4" (6.4 mm)

First hinge-side clearance (typical): 1/8" (3.2 mm)
Clearance between doors (typical): 3/16" (4.8 mm)
Second hinge-side clearance (typical): 1/8" (3.2 mm)
Total: 7/16" (11.1 mm)

DOUBLE DOORS



Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 1/16" (1.6 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

Note: If the cut length coincides with a set screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

What to Order

Specify: • Model (DHHD157) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

Quick-Specs

Door Inset	1/16" (1.6 mm)
Handing	LH / RH (or Non-handed)
Clearances	1/16" (1.6 mm) min at hinge edge

Min. Frame Face	7/8" (22.2 mm)
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

DHHD157 INSTALLATION INSTRUCTIONS

Attach Hinge to Frame (See Fig. 2)

1. Provide at least 7/8" (22.2 mm) of flat frame face. On wider frames, mark a line 1"–1 1/16" from the door-to-jamb gap centerline; use 1 1/32" (37.3 mm) for a typical 1/8" gap.
2. Align the frame leaf's outer edge with the line. Shim the hinge top 1/16" (1.6 mm) below the header rabbet; maximum 1/8" (3.2 mm).
3. Mark and center-punch all mounting holes. Prepare the holes and fasten the frame leaf using the fastener table below.

Door Preparation (See Fig. 3)

1. Swing the hinge leaf aside and shim the door in position. Allow 1/16" top clearance, plus an additional 1/32" at the latch side for settling.
2. Secure the door and rotate the hinge leaf against the door face.
3. Mark and center-punch the holes for the selected mounting method:
 - Through-bolts: Use the larger hole locations. Swing the leaf aside and drill 3/8" (9.5 mm) holes squarely through the door.
 - Optional screw mounting: Use the smaller hole locations. For metal doors, use optional #12 self-drilling screws. For wood doors, pre-drill #18 (0.1695" / 4.3 mm) pilot holes for optional #12 wood screws.

Attach Door to Hinge (See Fig. 3)

1. Fasten the door to the door leaf as illustrated. Adjust hinge/frame as needed for smooth operation and proper alignment. Remove any remaining shims and wedges.
2. For standard through-bolt mounting, secure the door leaf with barrel nuts and 1/4-20 sex bolts.

Install Leaf Cover (See Fig. 4)

1. Using the supplied 5/64" (1.98 mm) hex key, locate and loosen the retaining set screw on the molding edge.
2. Position the long leg of the molding beneath the outer edge of the door leaf and align along the full length of the hinge. Starting at the top, press—or gently tap—the short leg into place with a rubber mallet (or a hammer plus wood block).
3. Tighten the retaining set screw securely.
4. Frame-leaf cover: Position the cover over the frame-leaf projections. Starting at the top, press or gently tap it into place along its full length using a rubber mallet or a hammer with a wood block.

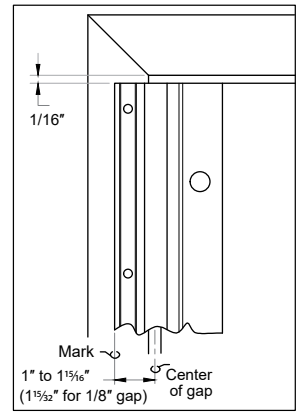


Fig. 2 — Attach Hinge to Frame

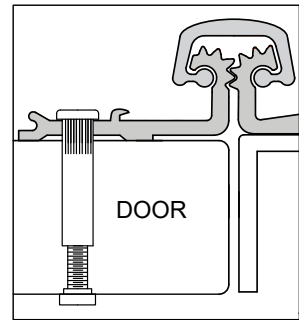


Fig. 3 — Door Preparation & Attachment

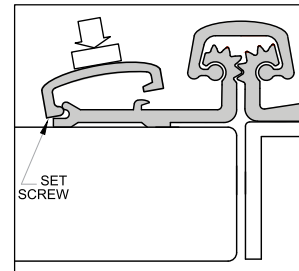


Fig. 4 — Install Leaf Cover on Door Leaf

Material/App	Hole Preparation	Fastener	Notes
Metal frame, 12 gauge or thinner	No pre-drilling required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
Metal frame thicker than 12 gauge	Drill & tap #12-24	#12 self-drilling screw (supplied)	Prepare all mounting holes
Wood frame / optional wood-door screw mounting	#18 drill, 0.1695" (4.3 mm)	Optional #12 wood screw	Pilot holes for wood screws
Door, standard through-bolt mounting	3/8" (9.5 mm) through-holes	1/4-20 sex bolts and barrel nuts	Drill squarely through the door

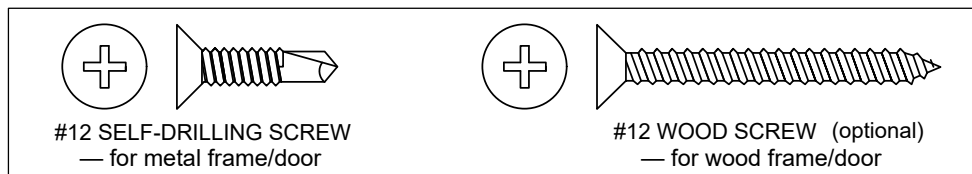
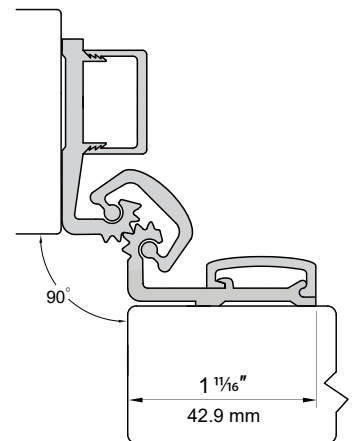
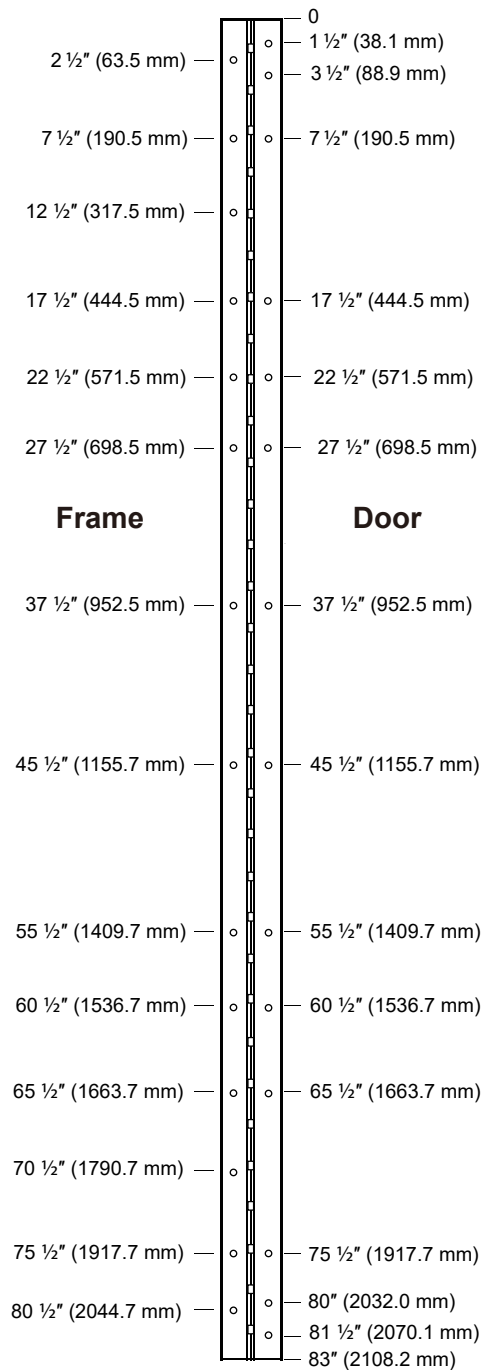


Fig. 5 — Door Open 90° / Clearance Dimensions

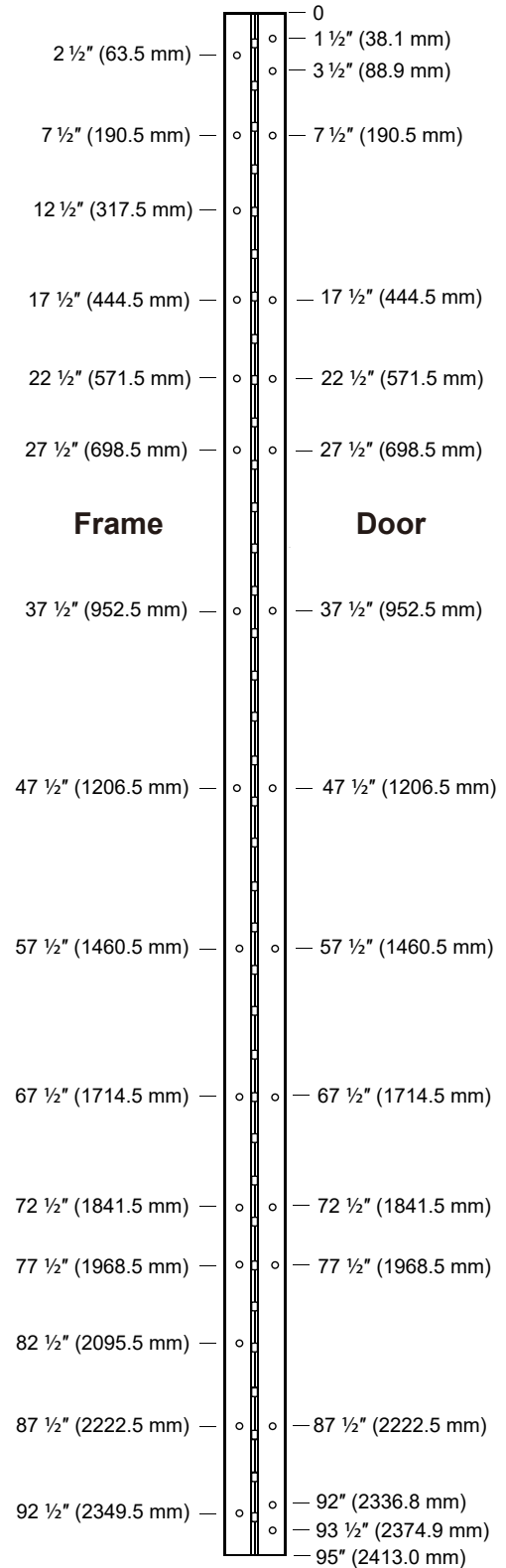
DHHD157 TEMPLATES & CROSS REFERENCES

DHHD157 Templates / Leaf Hole Positions

83" Template: 28 fasteners and 32 bearings



95" Template: 30 fasteners and 36 bearings

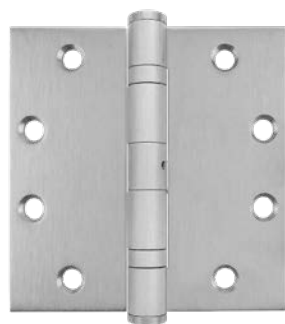
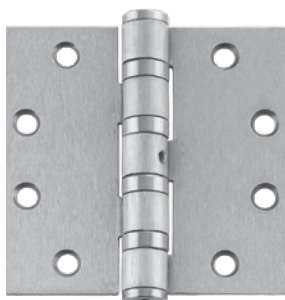
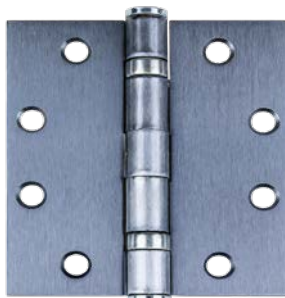


Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD157	A570HD	157XY		MCK58HD	HD5700	FSPPHD	CG33N	780-157HD	SL57 HD600	664HD	935DB

COMMERCIAL BUTT HINGES

Direct Hardware commercial butt hinges are available as 4-ball-bearing hinges, 2-ball-bearing hinges, and spring hinges. Select the appropriate hinge based on size, thickness, corner preparation, finish or material, pin option, and application requirements.



Item No.	Finish / Material	Pin Option
4-BALL-BEARING HINGES — 4 1/2" × 4 1/2", 4.6 mm THICK		
DHBH4BB4545 US26D	US26D — Satin Chrome	Standard
DHBH4BB4545 US26D NRP	US26D — Satin Chrome	NRP
DHBH4BB4545 US32D	US32D — Satin Stainless Steel	Standard
DHBH4BB4545 US32D NRP	US32D — Satin Stainless Steel	NRP
2-BALL-BEARING HINGES — 4 1/2" × 4", 3.4 mm THICK, 1/4" RADIUS CORNERS		
DHBHBB4540 1/4R US10B	US10B — Oil Rubbed Bronze	Standard
DHBHBB4540 1/4R US10B NRP	US10B — Oil Rubbed Bronze	NRP
DHBHBB4540 1/4R US26D	US26D — Satin Chrome	Standard
DHBHBB4540 1/4R US26D NRP	US26D — Satin Chrome	NRP
DHBHBB4540 1/4R US32D	US32D — Satin Stainless Steel	Standard
DHBHBB4540 1/4R US32D NRP	US32D — Satin Stainless Steel	NRP
2-BALL-BEARING HINGES — 4 1/2" × 4 1/2", 3.4 mm THICK		
DHBHBB4545 US10B	US10B — Oil Rubbed Bronze	Standard
DHBHBB4545 US10B NRP	US10B — Oil Rubbed Bronze	NRP
DHBHBB4545 US26D	US26D — Satin Chrome	Standard
DHBHBB4545 US26D NRP	US26D — Satin Chrome	NRP
DHBHBB4545 US32D	US32D — Satin Stainless Steel	Standard
DHBHBB4545 US32D NRP	US32D — Satin Stainless Steel	NRP
DHBHBB4545 USP	USP — Prime Coat Gray	Standard
DHBHBB4545 USP NRP	USP — Prime Coat Gray	NRP
SPRING HINGES — 4 1/2" × 4 1/2", 3.4 mm THICK		
DHBHSP4545 US10B	US10B — Oil Rubbed Bronze	—
DHBHSP4545 US26D	US26D — Satin Chrome	—
DHBHSP4545 USP	USP — Prime Coat Gray	—

Note: NRP = Non-Removable Pin.

SPECIAL-ORDER OPTIONS

Additional sizes, finishes, materials, and configurations may be available by special order.

Contact Direct Hardware for availability, pricing, and lead time.

HOW TO SPECIFY / ORDER

- **Select the hinge type:** 4-ball-bearing hinge, 2-ball-bearing hinge, or spring hinge.
- **Confirm the hinge size and thickness.**
- **Confirm the corner preparation:** The 4 1/2" × 4" models shown require 1/4" radius corners.
- **Select the finish or material.**
- **Select the pin option:** Standard or NRP, where available.
- **Confirm the door and frame preparation and required quantity.**

CYLINDRICAL LOCKS

DH40 Series — Grade 2 / Clutched Locksets

The DH40 Series Grade 2 Clutched Lockset is a medium-duty, key-in-lever solution engineered for durability, security, and ADA compliance.

Built to exceed ANSI A156.2 standards, it is ideal for offices, schools, hospitals, apartments, hotels, and other public buildings requiring reliable performance with a refined design.

COMPLIANCE & CERTIFICATION

- ADA Compliant for accessibility
- Exceeds ANSI A156.2 Grade 2 standards
- Meets California State Fire Code requirements
- UL and cUL listed for fire doors (3-hour rating)

DURABILITY & CONSTRUCTION

- Heavy-duty lever spring return rose assembly.
- Solid brass latch bolt for strength and reliability.
- Solid brass Schlage C keyway cylinder for durability and security

FUNCTIONALITY & FLEXIBILITY

- Bidirectional lever operation
— non-handed design.
- Convertible posts for versatile installation.
- Available with free-wheeling mechanism to help prevent vandalism

WARRANTY

- Protected by a five-year warranty covering manufacturing defects



SPECIFICATIONS

Application	Offices, schools, hospitals, apartments, hotels, motels, & other public buildings.	Keys	Two Brass
Door Thickness	1 ³ / ₈ " to 1 ³ / ₄ " (35 mm to 45 mm)	Cylinder	Brass Schlage C pin keyway standard. Weiser. Arrow. Lockwood C 4. Kwikset optional
Backset	Standard 2 ³ / ₈ " (60 mm) or 2 ³ / ₄ " (70 mm)	Masterkeying	Can be masterkeyed or grand masterkeyed. Construction key system available
Front	Brass or Bronze; 2 ¹ / ₄ " × 1" (standard), 2 ¹ / ₄ " × 1 ¹ / ₈ " (optional); Adjustable for flat or beveled doors (1/8" in 2")	Wheeling Mechanism	Free Wheeling available on all keyed locks and Privacy function on request
Strike	ST1 ANSI standard, 1 ¹ / ₄ " × 4 ⁷ / ₈ "	Interchangeable Core	Accepts 6- or 7-pin interchangeable cores compatible with BEST or SARGENT systems
Roses	Brass or Bronze	Finishes (US Code)	Available 3, 4, 5A, 10, 10B, 11, 15, 15A, 19, 26, 26D
Handing	Universal (non-handed)	Split Finishes	Exterior finish specified first; Front & strike finished to match interior trim unless otherwise specified
Latch Bolt	Brass standard, 1/2" latch bolt; Stainless steel, 1/2" latch bolt (optional)	UL/cUL Listing	Listed for use on fire doors (3-hour rated)

CYLINDRICAL LOCK FUNCTION CHART

DH40 Series — Grade 2 / Clutched Locksets

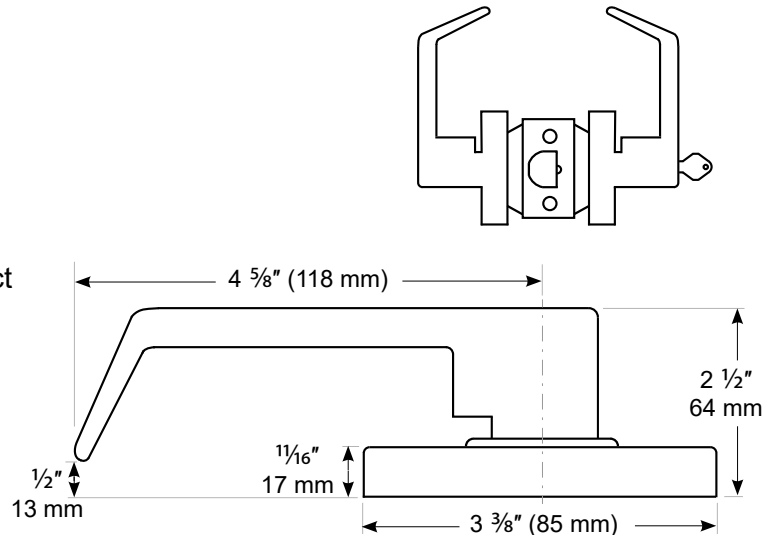
FAST QUOTE CHECKLIST

For the fastest response, please include:

- DH40 function / ANSI number from the chart below
- Lever style, finish, and quantity
- Keying requirement: keyed different, keyed alike, master keyed, or construction keyed
- Door prep or replacement photos when matching existing hardware
- Ship-to ZIP code and any fire-rating, ADA, or project requirements

REPLACEMENT TIP

Send photos of the outside trim, inside trim, latch edge, and strike. This helps confirm the correct function and avoid ordering mistakes.



DH40 LOCK FUNCTION CHART

FUNCTION	TRIM	DH	ANSI	DESCRIPTION
	LEVER	10	F75	Passage or Closet Latch – Lever-operated latch bolt from both sides at all times, ideal for internal doors that do not require locking.
	LEVER	40	F76	Privacy, Bedroom, or Bath Lock – Lever-operated latch bolt from both sides; outside lever locks via push button and unlocks by emergency release from outside, turning inside lever, or closing the door.
	LEVER	53	F82	Entry Lock – Dead-locking latch bolt operable by lever from both sides; outside lever locks via push or turn button, and can be unlocked by key from outside or lever from inside. Closing the door will not release the lock button.
	LEVER	70	F84	Classroom Lock – Dead-locking latch bolt operable by lever from either side; outside lever lockable by key from outside. Once locked, the latch can still be operated from inside.
	LEVER	80	F86	Storeroom or Closet Lock – Dead-locking latch bolt operated by key from outside lever or lever from inside only; outside lever remains locked at all times.
	LEVER	25	F111	Exit or Communicating Passage Lock – Dead-locking latch bolt operable from one side only, providing continuous secure exit. Non-removable blank trim or no trim provided outside.
	LEVER	170		Dummy Trim (1 Side) – Non-operational trim used as a matching inactive handle or door pull.

CYLINDRICAL LOCKS

DH50 Series — Grade 1 / Clutched Locksets

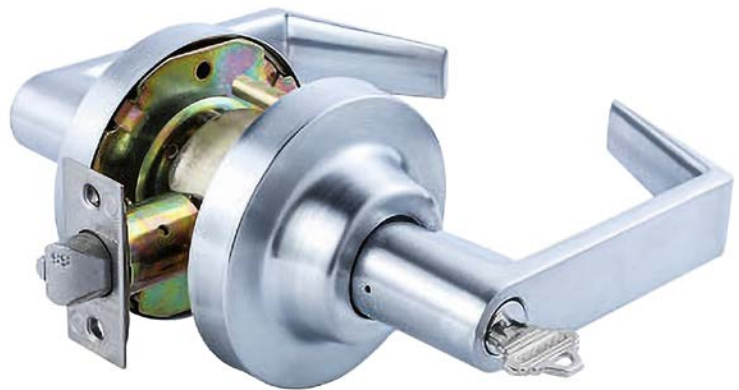
The DH50 Series Grade 1 Clutched Lockset is designed for commercial, industrial, and institutional environments where dependable operation, long service life, and high resistance to vandalism are essential.

Ideal applications include office buildings, government centers, factories, schools, hospitals, and more.

The internal clutch mechanism resists vandalism by allowing the lever to rotate without retracting the latch when locked. Heavy-duty torsion springs ensure positive lever return and support convertible posts.

CERTIFICATIONS & COMPLIANCE

- ANSI/BHMA A156.2
 - Grade 1 strength & operational requirements
- ANSI A250.13 — Severe windstorm compliant
- UL Listed — 3-hour "A" label or lesser fire-rated single doors, 4' × 8'
- UL 10C / UBC 7-2 — Positive pressure compliant
- UL 10B — Neutral pressure compliant
- ADA/ANSI A117.1 — Accessibility compliant
- California State Reference Code (CSFM)
- All levers (L and R types) with less than ½" (13 mm) return comply with California Fire Safety Codes (formerly Title 19, California State Fire Marshal)



WARRANTY

- Protected by a five-year warranty covering manufacturing defects



SPECIFICATIONS

Design	Strong, stable design with anti-twisting capacity, dependable operation, and long service life	Levers	Durable cast zinc-based levers
Clutch	Allows lever rotation without latch retraction when locked, deterring vandalism	Rose	Brass or stainless steel, 3 9/16" (90 mm) diameter
Handing	Non-handed — suitable for left- or right-hand doors	Lever Springs	Dual torsion springs prevent sagging and ensure positive return
Backset	2 3/4" standard; optional 2 3/8" (60 mm) or 5" (127 mm) extension	Strike	ANSI curved lip, 1 1/4" × 4 7/8" × 1 3/8" lip-to-center standard
Chassis	Heavy-gauge steel chassis with corrosion-resistant zinc dichromate	Door Thickness	Field adjustable for 1 3/8" to 1 3/4" (35 mm to 45 mm)
Latch Bolt & Retractor	Stainless steel, 13.7 mm throw, deadlocking on keyed/exterior functions; roller-equipped retractor for durability	Mounting	Through-bolt mounted for superior strength
		Cylinder & Keys	6-pin type keyway, includes 2 brass keys
		Interchangeable Core	Accepts compatible 6- or 7-pin cores (Best format)

CYLINDRICAL LOCK FUNCTION CHART

DH50 Series — Grade 1 / Clutched Locksets

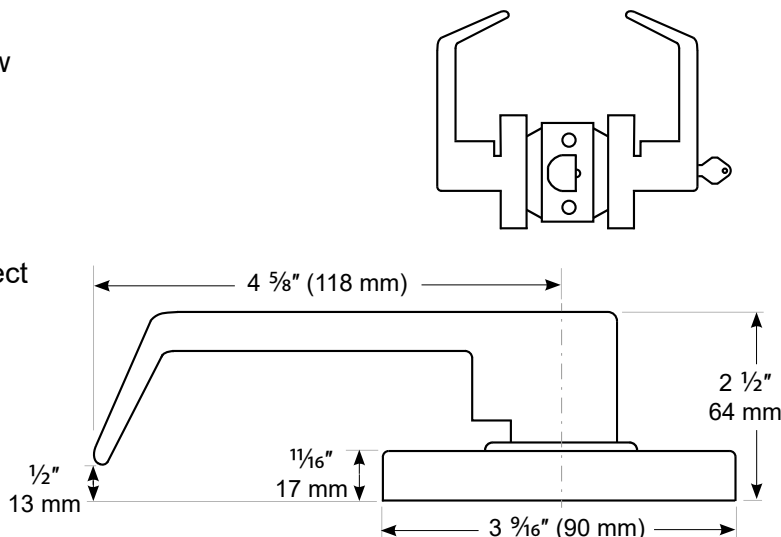
FAST QUOTE CHECKLIST

For the fastest response, please include:

- DH50 function / ANSI number from the chart below
- Lever style, finish, and quantity
- Keying requirement: keyed different, keyed alike, master keyed, or construction keyed
- Door prep or replacement photos when matching existing hardware
- Ship-to ZIP code and any fire-rating, ADA, or project requirements

REPLACEMENT TIP

Send photos of the outside trim, inside trim, latch edge, and strike. This helps confirm the correct function and avoid ordering mistakes.



DH50 LOCK FUNCTION CHART

FUNCTION	TRIM	DH	ANSI	DESCRIPTION
	LEVER	10	F75	Passage or Closet Latch – Lever-operated latch bolt from both sides at all times, ideal for internal doors that do not require locking.
	LEVER	40	F76	Privacy, Bedroom, or Bath Lock – Lever-operated latch bolt from both sides; outside lever locks via push button and unlocks by emergency release from outside, turning inside lever, or closing the door.
	LEVER	53	F82	Entry Lock – Dead-locking latch bolt operable by lever from both sides; outside lever locks via push or turn button, and can be unlocked by key from outside or lever from inside. Closing the door will not release the lock button.
	LEVER	70	F84	Classroom Lock – Dead-locking latch bolt operable by lever from either side; outside lever lockable by key from outside. Once locked, the latch can still be operated from inside.
	LEVER	80	F86	Storeroom or Closet Lock – Dead-locking latch bolt operated by key from outside lever or lever from inside only; outside lever remains locked at all times.
	LEVER	25	F111	Exit or Communicating Passage Lock – Dead-locking latch bolt operable from one side only, providing continuous secure exit. Non-removable blank trim or no trim provided outside.
	LEVER	170		Dummy Trim (1 Side) – Non-operational trim used as a matching inactive handle or door pull.

DH50 SERIES OPTIONS

See next page

DH40 and DH50 Series Options — Clutched Locksets

FUNCTION

- 10 Passage
- 40 Privacy, Bedroom or Bath Lock
- 53 Entrance Lock
- 70 Classroom Lock
- 80 Storeroom
- 25 Communicating Passage Lock
- 170 Dummy Trim, 1 Side, Eclipse

FINISH

- | | |
|----------------------------|--------------------------------|
| C 605 Bright Brass | H 613 Oil Rubbed Bronze |
| D 606 Dull Brass | P 625 Bright Chrome |
| F 611 Bright Bronze | Q 626 Dull Chrome (std) |
| G 612 Dull Bronze | 693 Black (BSP) |

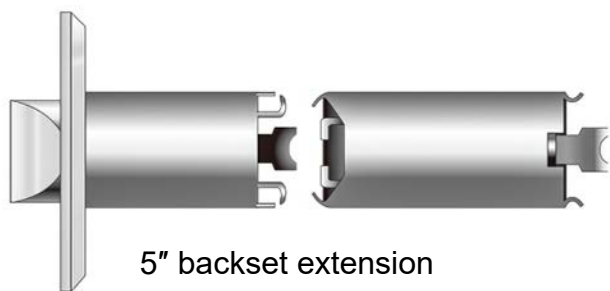
LATCH BOLT



Deadlatch



Springlatch



5" backset extension

- B1** 2 3/4" dead latch (standard)
- B2** 2 3/8" dead latch
- B3** 2 3/4" spring latch, passage (standard)
- B4** 2 3/8" spring latch, passage
- B5** 2 3/4" spring latch, privacy (standard)
- B6** 2 3/8" spring latch, privacy
- BE** 5" backset extension, for use with 2 3/4" latch only

Lever Trim



R Type



R-IC Type

Mechanical Locksets



L Type (standard)



L-IC Type

STRIKE



ST1



ST2



ST3



ST4

ST1 ANSI 1 1/4" x 4 7/8" (Standard)

ST2 T-Strike with dust box, ANSI 1 1/8" x 2 3/4"

ST3 Full lip strike, 1 5/8" x 2 1/4"

ST4 Full lip strike with round corners, 1 5/8" x 2 1/4"

CYLINDERS OR I-CORES

Conventional Cylinders (Schlage 'C' Keyway Standard)
For RIC or LIC Type

6PKD 6 PIN Keyed different (standard)

6PKA 6 PIN Keyed alike

Interchangeable Core

(Best 'A' Keyway Standard)

For RIC or LIC Type



IC6P-KA 6 pin I-Core, small format, keyed alike

IC6P-KD 6 pin I-Core, small format, keyed different

IC7P-KD 7 pin I-Core, small format, keyed different

IC7P-KA 7 pin I-Core, small format, keyed alike

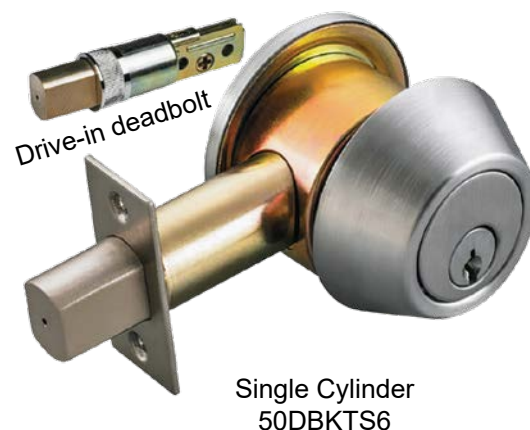
GRADE 1 HEAVY-DUTY DEADBOLTS

DH50 Series / ANSI / Grade 1 / Deadbolts

The DH50 Series Grade 1 Deadbolt is a heavy-duty, commercial-quality lock designed to deliver maximum resistance against forced entry. The recessed cylinder and reinforced construction provide superior protection against hammering, prying, and kick-in attacks.

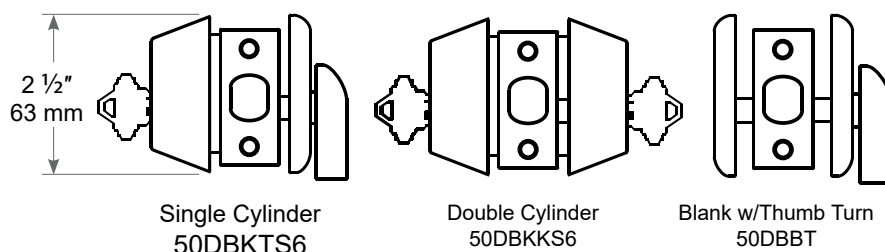
SECURITY & DURABILITY

- **Solid Security Ring:** 2 ½" diameter, one-piece solid steel ring insert exceeds ANSI Grade 1 standards for resistance against hammer and crowbar attacks.
- **Reinforced Deadbolt:** 1" (25 mm) hardened steel core deadbolt with 5/64" thick faceplate exceeds ANSI Grade 1 standards for resistance against kick-in and sawing.
- **Pick-Resistant Cylinder:** High-precision, solid brass 6-pin tumbler plug ("C" keyway). Supplied with brass keys.



DESIGN & CONVENIENCE

- **Drive-In Deadbolt:**
Simplifies installation on metal doors. Requires only one hole on the door edge.
- **ADA Ergonomic Thumb Turn:**
Meets accessibility standards for easy operation.
- **Extra-Thick Steel Mounting Plate:**
Provides added strength.
- **Durable Construction:**
Sturdy, all-steel latch case and mechanism for long service life.



FINISHES AVAILABLE

- PB - Polished Brass
- SB - Satin Brass
- AB - Antique Brass
- AC - Antique Copper
- SN - Satin Nickel
- SC - Satin Chrome
- CR - Polished Chrome
- ORB - Oil Rubbed Bronze
- BSP - Black (693)
- TB - Black Nickel
- AN - Antique Nickel
- PVD - Lifetime Finish

ORDERING OPTIONS

- **Key / Thumbturn:** 50DBKTS6
- **Key / Key:** 50DBKKS6
- **Blank Trim + Thumbturn:** 50DBBT
- **Specify:**
Finish + Keyway (Schlage "C" / Kwikset) + Door Thickness

BHMA
CERTIFIED

SPECIFICATIONS

Door Prep	Cross bore 2 ½", edge bore 1"; latch face 1" x 2 ¼"	Faceplate	1" x 2 ¼" square corner standard; round corner options available
Backset	2 ¾" standard, 2 ⅝" optional	Strikes	1 ⅝" x 2 ¾" square corner standard; round corner options available
Door Thickness	Adjustable 1 ⅜" – 2"	Bolt	1" throw, nickel plated
Cylinder	5-pin or 6-pin removable core; Schlage "C" keyway or Kwikset options	ANSI/BHMA	A156.5 Grade 1

GRADE 2 STANDARD DUTY DEADBOLTS

DH40 Series / ANSI / Grade 2 / Deadbolts

Designed for standard-duty commercial and residential applications. Built to exceed 400,000 cycles, these deadbolts provide reliable security and ease of installation, delivering a strong deterrent against forced entry.

SECURITY FEATURES

- **Reinforced Deadbolt:** Fixed backset 1" (25 mm) deadbolt with hardened steel core exceeds ANSI Grade 2 requirements, providing superior resistance to kick-in and saw attacks.
- **Anti-Pry Protection:** 2" diameter tapered cylinder guard with metal insert, designed to turn freely under removal attempts.
- **Pick-Resistant Cylinder:** High-precision, solid metal tumbler plug with 5- or 6-pin option. Available with Schlage "C" or Kwikset keyways. Brass key, nickel-plated.

DESIGN & CONVENIENCE

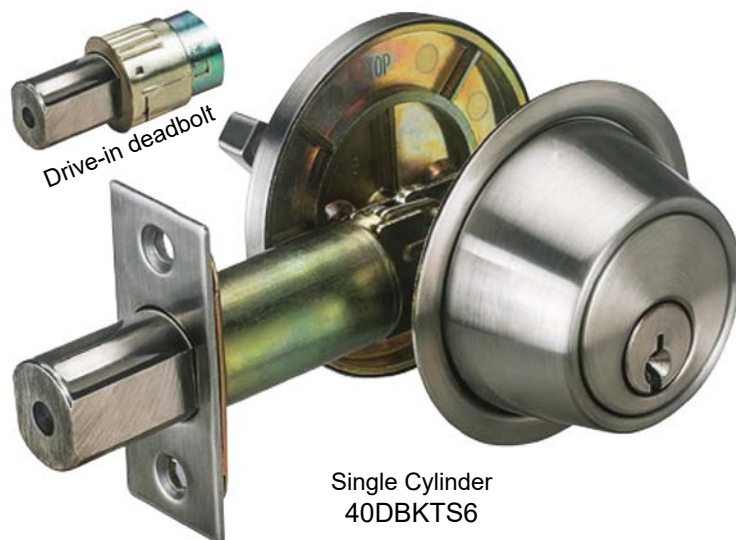
- **Drive-In Deadbolt:** Simple installation on metal doors — one hole on the door edge.
- **ADA Ergonomic Thumb Turn:** Meets accessibility standards for easy operation.
- **Durable Construction:** Sturdy steel latch case with zinc mounting plate.
- **Durable Construction:** Brass bolt, nickel plated, with 1" throw.
- **Adapter Included:** Fits 2 1/8" bore holes.

FINISHES AVAILABLE

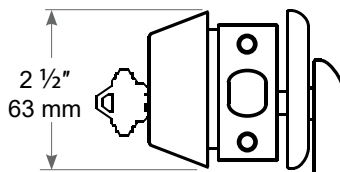
- PB - Polished Brass
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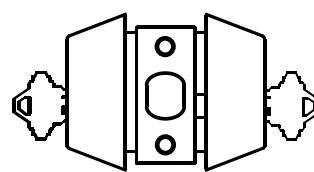
Inside Rose Assembly



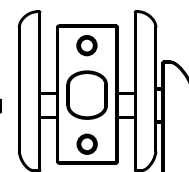
Single Cylinder
40DBKTS6



Single Cylinder
40DBKTS6



Double Cylinder
40DBKKS6



Blank w/Thumb Turn
40DBBT



DOUBLE CYLINDER
40DBKKS6

SPECIFICATIONS

Door Prep	Cross bore 2 1/8", edge bore 1"; latch face 1" x 2 1/4"
Backset	2 3/4" standard, 2 3/8" optional
Door Thickness	Adjustable 1 3/8" – 2"
Cylinder	5-pin or 6-pin removable core; Schlage "C" keyway or Kwikset options

Faceplate	1" x 2 1/4" square corner standard; round corner options available
Strikes	1 1/8" x 2 3/4" square corner standard; round corner options available
Bolt	1" throw, nickel plated
ANSI/BHMA	A156.5 Grade 2

GRADE 2 HEAVY DUTY THUMBTURN DEADBOLTS

DH40 Series / ANSI / BHMA Grade 2 / Thumbturn Deadbolts

Designed for commercial and institutional use, providing reliable security with a built-in vacancy indicator. These heavy-duty deadbolts offer durability, ADA-compliant operation, and a positive deterrent against forced entry.

SECURITY FEATURES

- 1" (25 mm) deadbolt with hardened steel core exceeds ANSI Grade 2 security standards for resistance against kick-in and saw attacks
- Vacancy indicator window shows "VACANT" when deadbolt is retracted

DESIGN & CONVENIENCE

- ADA-compliant ergonomic thumb turn for ease of use
- Large 2 $\frac{13}{16}$ " diameter SUS304 stainless steel rose
- User-friendly privacy function operated by turn button inside or emergency key outside.



3-Hour List
UL R25246

CONSTRUCTION

- 2 mm thick steel mounting plate for durability
- Heavy-duty, all-steel latch case and mechanism

FINISHES AVAILABLE

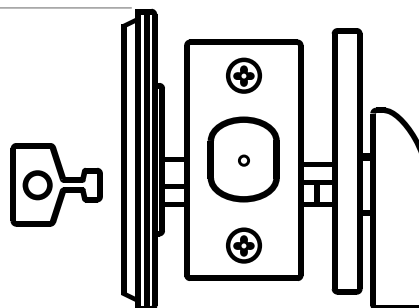
- PB - Polished Brass
- AB - Antique Brass
- SN - Satin Nickel
- SC - Satin Chrome
- CR - Polished Chrome
- ORB - Oil Rubbed Bronze
- BSP - Black (693)
- PVD - Lifetime Finish



THUMBTURN DEADBOLT
40DBIN

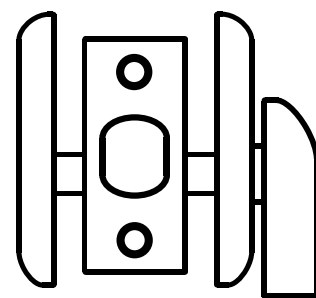


2 $\frac{13}{16}$ "
71.4mm



40DBIN
PRIVACY DEADBOLT

Deadbolt operated by emergency key
outside or thumbturn from inside



40DBBT
ONE-SIDED DEADBOLT
Blank trim outside; deadbolt
operated by thumbturn from inside

SPECIFICATIONS

Door Prep	Cross bore 2 $\frac{1}{8}$ ", edge bore 1"; latch face 1 $\frac{1}{8}$ " $\times$ 2 $\frac{1}{4}$ "
Backset	2 $\frac{3}{4}$ " standard, 2 $\frac{3}{8}$ " optional
Door Thickness	Adjustable 1 $\frac{3}{8}$ " – 2"

Faceplate	1 $\frac{1}{8}$ " $\times$ 2 $\frac{1}{4}$ " square corner standard; round corner options available
Strikes	1 $\frac{1}{8}$ " $\times$ 2 $\frac{3}{4}$ " square corner standard; round corner options available
Bolt	1" throw, nickel plated

GRADE 1 MORTISE LOCKSETS

DHM Series Mechanical Mortise Lockset / Grade 1

The DHM Series Grade 1 Mortise Locks are designed for heavy-duty commercial and institutional applications. They comply with ANSI/BHMA A156.13 Grade 1 standards, ensuring maximum durability, reliability, and security. All locks are field-reversible for easy installation and can be quickly adapted to different handing without disassembly.

SECURITY FEATURES

- Internal clutch provides vandal resistance by allowing lever rotation without retracting the latch when locked
- Forged brass, bronze, and stainless-steel construction ensures durability under heavy use
- 3/4" stainless steel latch with anti-friction tongue and 1" deadbolt for added protection

DESIGN & CONVENIENCE

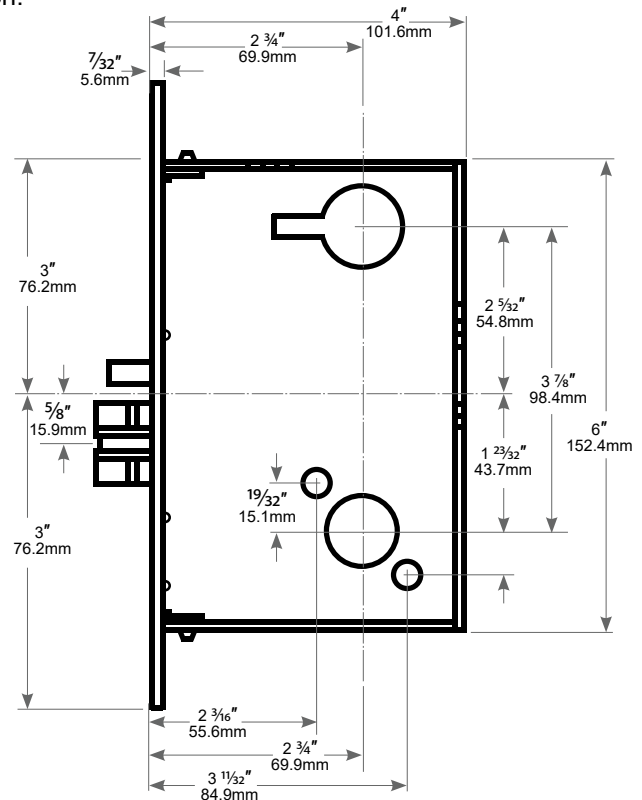
- Fully reversible in the field without disassembly
- Heavy wrought brass, bronze, or stainless-steel rose and escutcheon
- One or two heavy-duty spring cages available as required per function.

COMPATIBILITY

- May retrofit with other brand locksets (consult factory)
- Optional 6-pin "C" type keyway cylinder available
- Compatible with interchangeable core cylinders by others

SPECIFICATIONS

Clutch	Internal clutch provides vandal resistance by permitting lever rotation without retracting latch when locked
Handing	Field reversible without disassembly
Door Thickness	Standard 1 3/4" (44mm); specify for up to 2 1/4" (57mm) doors
Backset	2 3/4" (70 mm)
Armored Front	1 1/4" x 8" x 7/32" (32 mm x 203 mm x 6 mm)
Case	3 15/16" x 6 1/16" x 29/32" (100 mm x 154 mm x 23 mm)
Bolts	3/4" latch with anti-friction tongue; 1" deadbolt, stainless steel
Levers	Forged brass/bronze or cast stainless steel
Spring Cages	One or two heavy-duty spring cages as required per function
Rose & Escutcheon	Heavy wrought reinforced brass, bronze, or stainless steel
Strike	ANSI curved lip strike 1 1/4" x 4 7/8" (32 mm x 124 mm) x 1 3/16" lip with dust box
Cylinder & Keys	Optional 1 1/8" 6-pin "C" type keyway
I-Core	Compatible with interchangeable core cylinders by others



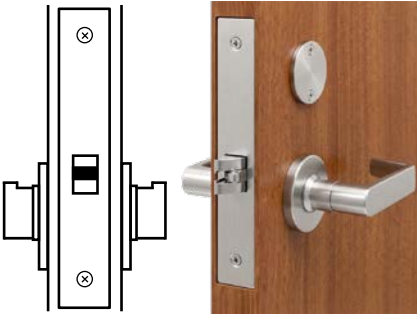
FINISHES AVAILABLE

- **613** Oil Rubbed Bronze
- **626** Dull Chrome
- **629** Bright Stainless Steel

[Installation Template \(Strike Template on Right\)](#)

[Installation Template \(Strike Template on Left\)](#)

DHM Series Ordering Information / Grade 1 / Mortise Lockset



DHM1001 (F01) — Passage

- Latchbolt retracts by lever from either side at all times



DHM3004 (F04) — Office

- The outside lever retracts the latchbolt when unlocked.
- Toggle buttons on the door edge lock and unlock the outside lever. The outside key can also lock the outside lever.
- When the outside lever is locked, the outside key retracts the latchbolt for entry but does not unlock the outside lever.
- The inside lever allows exit at all times. Operating it does not unlock the outside lever.
- Auxiliary latch deadlocks the latchbolt when the door is closed.



DHM2005 (F05) — Classroom

- Latchbolt retracts by lever from either side unless the outside lever is locked by key.
- Outside lever is locked/unlocked by key from outside.
- Inside lever is always free for immediate egress.
- Auxiliary latch deadlocks latchbolt when the door is closed.



DHM2007 (F07) — Storeroom

- Outside lever is always inoperative.
- Latchbolt retracts by key from outside, or by knob/lever from inside.
- Auxiliary latch deadlocks latchbolt when the door is closed.



DHM2009 (F09) — Apartment Entrance / Vestibule

- Latchbolt retracts by lever from either side except when the outside lever is locked by key from inside.
- When the outside lever is locked:
Latchbolt retracts by key from outside, or by operating the inside lever.
- Includes auxiliary deadlatch.

DHM Series Ordering Information / Grade 1 / Mortise Lockset



DHM2413 (F13) — Corridor / Exit

- With the deadbolt retracted, either lever operates the latchbolt.
- The outside key or inside thumbturn extends and retracts the deadbolt.
- Extending the deadbolt locks the outside lever, preventing it from retracting the latchbolt.
- When the deadbolt is extended, operating the inside lever retracts both the deadbolt and latchbolt together.



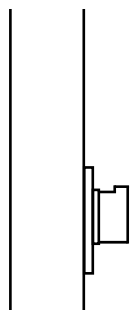
DHM3420 (F20) — Entrance

- Latchbolt retracts by lever from either side except when the outside lever is made inoperative by the toggle button.
- Deadbolt operated by: (1) Key from outside, or (2) Thumbturn from inside.
- Key from outside operates both latchbolt and deadbolt.
- Inside lever retracts both latchbolt and deadbolt; outside remains locked.
- Latchbolt is deadlocked when: (1) Outside lever is made inoperative, or (2) Deadbolt is projected.
- When deadbolt is retracted, outside lever can be unlocked by the toggle button.



DHM1022 (F02 / F04 / F22) — Privacy

- The outside lever operates the latchbolt unless locked by the inside thumbturn.
- Turning the inside thumbturn locks or unlocks the outside lever.
- The inside lever always permits exit and also unlocks the outside lever.
- The outside emergency release allows the outside lever to be unlocked.

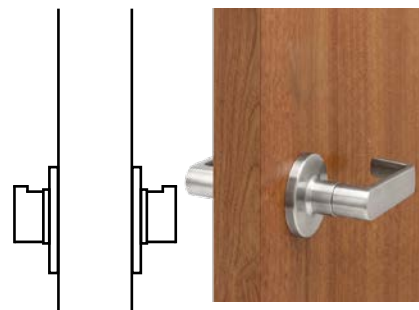
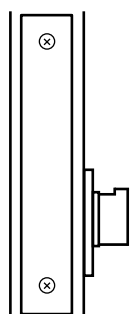


DHM0071 — Single Dummy Trim

- Lever fixed on one side only (non-operating).
- Secured by mounting bar.

DHM0072 — Double Dummy Trim

- Levers fixed on both sides (non-operating).
- Secured by mounting bar.

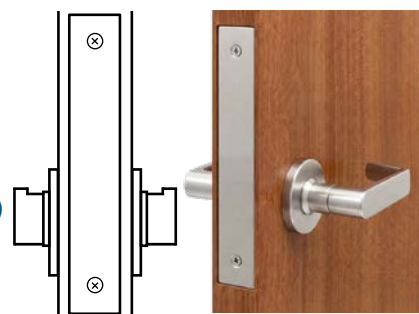


DHM0075 — Single Dummy Trim (with chassis)

- Levers fixed (non-operating).
- Includes lock chassis and armor front.

DHM0076 — Double Dummy Trim (with chassis)

- Levers on both sides; fixed (non-operating).
- Includes lock chassis and armor front.



DHM Series Ordering Information / Grade 1 / Mortise Lockset



DHM2433 (ANSI Function / F33) — Classroom Security Intruder Deadbolt Lock

- Outside lever retracts latchbolt unless the outside lever is locked by key from either side
- Deadbolt is projected or retracted by key from either side
- Inside lever retracts both latchbolt and deadbolt simultaneously and unlocks the outside lever
- Inside lever is always free for immediate egress.



DHM3434 (ANSI Function / F34) — Classroom Security Intruder Deadbolt Lock

- Latchbolt retracts by lever from either side unless the outside lever is locked by key from either side
- Deadbolt is projected or retracted by key from either side
- Inside lever retracts both latchbolt and deadbolt simultaneously and unlocks the outside lever
- Auxiliary latch deadlocks the latchbolt when door closed; latchbolt also deadlocked when deadbolt projected
- Inside lever is always free for immediate egress.



DHM3486 — Entrance Lock

- Latchbolt retracts by lever from either side unless the outside lever is locked by key from outside
- Key from outside retracts latchbolt and projects/retracts deadbolt
- Deadbolt is projected or retracted by inside thumbturn
- When deadbolt is projected by the inside thumbturn, the outside lever becomes inoperative automatically
- Inside lever retracts both latchbolt and deadbolt simultaneously
- Inside lever is always free for immediate egress.



DHM2402 (ANSI Function F02) — Privacy, Bedroom or Bath Lock

- Latchbolt retracts by lever from either side
- Deadbolt is retracted (unlocked) by operating the inside thumbturn
- When the deadbolt is projected, the outside lever becomes inoperative
- Outside emergency release retracts deadbolt (remove round cover, insert Phillips screwdriver into access hole, and rotate to unlock)



DHM3411 (ANSI Function F11) — Dormitory or Exit Lock

- Latchbolt retracts by lever from either side unless the outside lever is locked (made inoperative) by the toggle button
- Deadbolt is projected by key from either side
- Deadbolt is retracted by key from outside
- Inside lever retracts both latchbolt and deadbolt simultaneously; outside lever remains locked.

DHM Series Ordering Information / Grade 1 / Mortise Lockset



DHM2414 (ANSI Function / F14) — Store Lock

- Latchbolt retracts by lever from either side
- Deadbolt is projected or retracted by key from either side
- Latchbolt and deadbolt operate independently.



DHM2419 (ANSI Function / F19) — Privacy, Bedroom or Bath Lock

- Latchbolt retracts by lever from either side
- Deadbolt is projected or retracted by inside thumbturn
- Projecting the deadbolt locks the outside lever
- Inside lever retracts both latchbolt and deadbolt simultaneously and unlocks the outside lever
- Outside emergency release retracts deadbolt (remove round cover, insert Phillips screwdriver into access hole, and rotate to unlock)
- Inside lever is always free for immediate egress.



DHM2421 (ANSI Function / F21) — Room Door Lock

- Latchbolt retracts by lever from either side
- Deadbolt is projected or retracted by key from outside or inside thumbturn
- Latchbolt and deadbolt operate independently.



DHM2030 (ANSI Function / F30) — Asylum or Institutional Lock

- Latchbolt is retracted by key from either side
- Levers on both sides are always inoperative
- Auxiliary latch deadlocks latchbolt when the door is closed.



DHM2032 (ANSI Function / F32) — Intruder Latchbolt Lock

- Latchbolt retracts by lever from either side unless the outside lever is locked by key from either side
- Key from either side locks and unlocks the outside lever
- When the outside lever is locked, latchbolt is retracted by key from outside or by inside lever
- Auxiliary latch deadlocks latchbolt when the door is closed
- Inside lever is always free for immediate egress.

GRADE 1 MORTISE LOCKSETS

DHM Series Options / Grade 1 / Mortise Lockset

FUNCTION

DHM1001	Passage
DHM3004	Office
DHM2005	Classroom
DHM2007	Storeroom
DHM2009	Apartment Entrance / Vestibule
DHM2413	Corridor / Exit
DHM3420	Entrance
DHM1022	Privacy
DHM0071	Single Dummy Trim
DHM0072	Double Dummy Trim
DHM0075	Single Dummy Trim with Chassis
DHM0076	Double Dummy Trim with Chassis

HANDING

L Left hand	LR Left hand reversed
R Right hand	RR Right hand reversed

FINISH

613 Oil Rubbed Bronze
626 Dull Chrome
629 Bright Stainless Steel

DHM Series locksets retrofit the following existing door preps of the following lock brands with rose or escutcheon trim.

Knob or lever trim mounting holes only may require relocation.

SEE DHM TEMPLATE

• Schlage	• Hager	• Marks
• Corbin	• Cal-Royal	• Sargent
• Lawrence	• Dorma	• Arrow

DHM Series locksets retrofit the following existing door preps of the following lock brands with escutcheon trim only. Minor modification to key cylinder hole position is required and trim mounting holes may require relocation. See DHM template.

- Falcon
- Yale
- PDQ



LEVER TRIM

R Type with rose
RE Type with Escutcheon

L Type with rose
LE Type with Escutcheon

N Nova with rose
NE Nova with Escutcheon

07 Schlage equivalent with B rose

07E Schlage equivalent with escutcheon

12 Schlage equivalent with B rose

12E Schlage equivalent with escutcheon



KEY CYLINDER - OPTIONAL

CYL-6KD
6 pin, 1.125" mortise cylinder, keyed different, dull chrome

CYL-6KA
6 pin, 1.125" mortise cylinder, keyed alike, dull chrome



EntryCheck™ 918 — Digital Keypad



EntryCheck™ 918



EntryCheck™ 918W



Overview

The SDC EntryCheck™ 918 Series are indoor, stand-alone digital keypads for controlling a single door with up to 500 users. Each user is assigned a personal identification number (PIN). Entering a valid 1–6 digit code energizes one or both output relays to release the electric lock.

Integration

Model 918W interfaces with most access control systems and provides a standard 26-bit Wiegand output.

Performance

- 12-key illuminated keypad (3×4), moisture-resistant
- Up to 500 users (stand-alone operation)
- Outputs: 4 total — 2 relays + 2 solid-state
- Output modes: Timed or latching (on/off)
- Assignable actions: Map PINs to Relay 1 and/or Relay 2
- Configurable illumination: On, Off, Timed
- Dual LED indicators: Access, Lockout
- Adjustable audible annunciation; tactile keys with selectable beep levels
- Request-to-Exit/Enter input

Security

- Timed anti-passback and anti-tailgate functions
- Tamper-resistant screws and keypad tamper lockout

Construction & Mounting

- Thick stainless-steel faceplate (3/32") for durability
- Single-gang mount for quick retrofit
- Programmable site code (918W)

- 918 — Stand-alone indoor digital keypad (local relays)
- 918W — Indoor keypad with 26-bit Wiegand output; single-gang; site code programmable.

MAGLOCKS



Specify When Ordering

- Configuration: Single / Double
- Holding force: 600 lb / 1,200 lb
- Sensor option: Standard (lock status) / DS (lock + door status)
- Voltage: 12 VDC / 24 VDC
- Finish: Anodized aluminum

Overview

UL-Listed maglocks provide a standards-compliant locking solution for retail, healthcare, banking, and other high-security facilities. They mount on hollow metal, wood, aluminum, glass, and composite doors.

Configurations

- Mounting: Surface mount
- Door types: Single or double
- Holding force: 600 lb or 1,200 lb models

Built-in functions (all models)

DS variants (door-status models)

- Add a door status sensor (reed) in addition to the lock status/LED

 600 LB, SINGLE	Holding Force	600 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	0.50 A @ 12 VDC; 0.25 A @ 24 VDC
	Dimensions	9.84 in (W) × 1.65 in (H) × 1.04 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

 600 LB, DOUBLE	Holding Force	600 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	1 A @ 12 VDC; 0.50 A @ 24 VDC
	Dimensions	19.76 in (W) × 1.65 in (H) × 1.04 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

MAGLOCKS

 <p>1200 LB, SINGLE</p>	Holding Force	1,200 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	0.50 A @ 12 VDC; 0.25A @ 24 VDC
	Dimensions	10.47 in (W) × 2.87 in (H) × 1.58 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

 <p>1200 LB, DOUBLE</p>	Holding Force	1,200 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	1 A @ 12 VDC; 0.50 A @ 24 VDC
	Dimensions	20.94 in (W) × 2.87 in (H) × 1.58 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

ACCESSORIES



10LZBR6SUL
L & Z bracket
600 lb single



10LZBR12SUL
L & Z bracket
1200 lb single



MAG6LZUL
(2) L & Z bracket
600 lb double



MAG5LZUL
(2) L & Z bracket
1200 lb double



10UBRACKETUL
Glass door
mounting kit



10RIMHOUSING3UL
Armature plate
housing, 600 lb



10RIMHOUSING1UL
Armature plate
housing, 1200 lb



10FILLER14UL
Filler plate,
0.25 × 0.75 in



10FILLER12UL
Filler plate,
0.50 × 0.75 in



10FILLER34UL
Filler plate,
0.75 × 0.75 in



10SPACER3UL
Vertical spacer
bracket, 600 lb



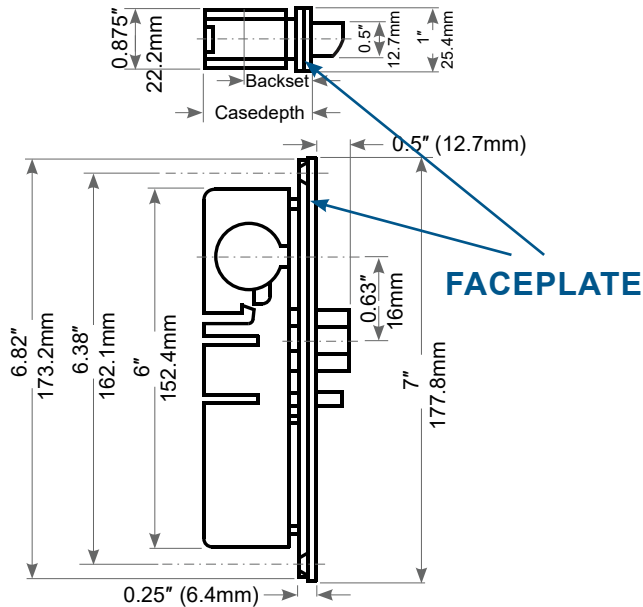
10SPACER1UL
Vertical spacer
bracket, 1200 lb

DEADLATCHES, HOOKBOLTS & DEADLOCKS

DL-4510 DEADLATCH LOCK



- Cylinder Backset Options: $3\frac{1}{32}$ ", $1\frac{1}{8}$ "
- Field reversible for opposite hand installation
- Key-controlled dogging function
- $\frac{1}{2}$ " throw latch bolt, chrome-plated with Delrin insert for smooth, quiet latching
- Accepts standard $1\frac{5}{32}$ " Mortise or Thumbturn Cylinders with AR MS-Type cam
- Includes SS-4510 strike (US26D finish)
- Specify: Cylinder backset and handing (if pre-handing required)



DH-1820-H HOOK BOLT



DH-1820-S SHORT THROW DEADLOCK



DT-1850 LONG THROW DEADLOCK



- Cylinder Backset Options: $3\frac{1}{32}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ "
- Throw deadbolt made of 5-ply laminated steel with hardened roller pin in a case-hardened center ply for maximum security
- Accepts standard $1\frac{5}{32}$ " Mortise or Thumbturn Cylinders with AR MS-Type cam
- Specify: Cylinder backset

DH-1820-H HOOK BOLT for anti-slide and anti-pry protection, ideal for aluminum storefront and sliding door applications. $1\frac{3}{16}$ " throw deadbolt.

DH-1820-S SHORT THROW DEADLOCK for compact deadlocking security where full-size or hook bolts are not required. $1\frac{3}{16}$ " throw deadbolt.

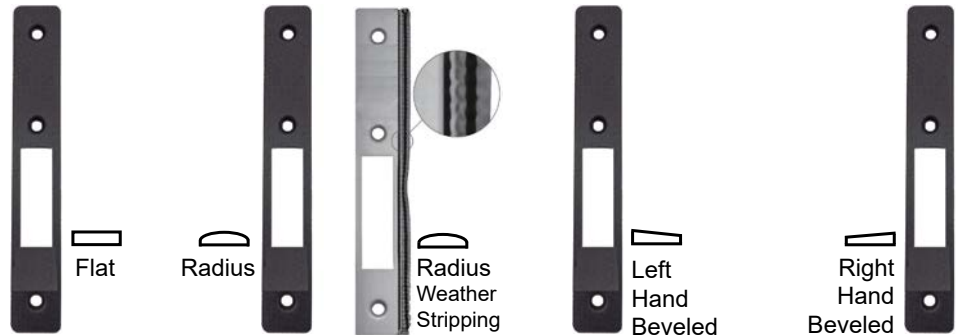
DT-1850 LONG THROW DEADLOCK for deeper strike engagement and maximum holding strength in high-security applications. $1\frac{3}{8}$ " throw deadbolt.

FACEPLATE FINISHES



AL – Anodized Satin Aluminum
DU – Anodized Bronze

Faceplates available for all Deadbolts and Deadlatches, with or without weatherstripping.



DL-4510	FP-4511	FP-4512	FP-4513	FP-4514	FP-4515
DH-1820-H	FP-1821	FP-1822	FP-1823	FP-1824	FP-1825
DH-1820-S					
DT-1850	FP-1851	FP-1852	FP-1853	FP-1854	FP-1855

THRESHOLD BOLT KIT, HEADER BOLT SETS & HEADER SIGN

TB-4015 — THRESHOLD BOLT KIT

Use range: Doors with cylinder height up to 53 1/2"
(threaded rod can be cut for shorter heights).

Bolt / throw: 3/8" hex hardened-steel bolt; 11/16" throw.

Includes: Complete kit for attaching to a basic deadlock to provide two-point security.

TB-4016 — THRESHOLD BOLT KIT

Use range: Doors with cylinder height 34"—37".

Bolt / throw: 3/8" hex hardened-steel bolt;
11/16" throw.

Includes: Complete kit for attaching to a basic deadlock to provide two-point security.



HS-4089 — HEADER SIGNS

HS-4090 — HEADER SIGNS

Use: Transoms and door headers.

Construction: One-piece self-adhesive decals.

Legend: Black letters on aluminum background.

HB-4015-N — SPECIAL HEADER BOLT SET

Use range: Standard for 83" doors with cylinder height ≥ 33 ".

Options: ER-4015-N extension rod kit available for 8'–9' door heights.

HB-4085 — HEADER BOLT SET

Use range (CL→Top): 30 1/2" to 50" from centerline of cylinder to top of door.

HB-4086 — HEADER BOLT SET

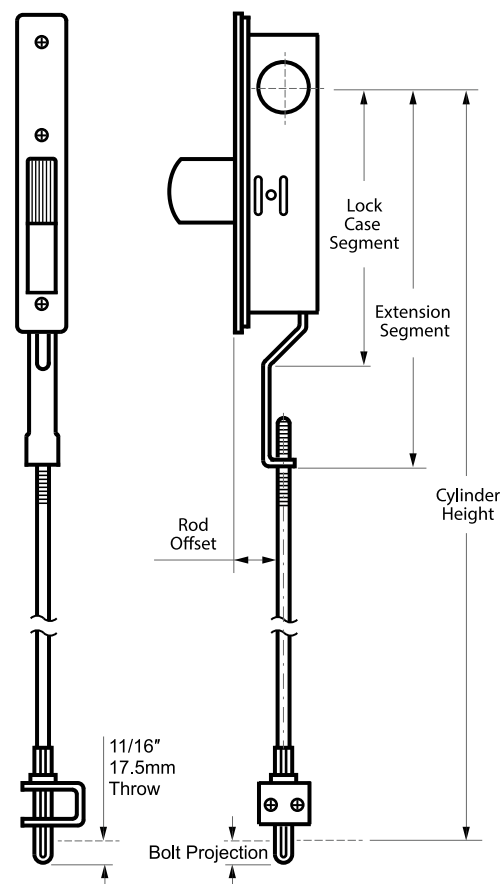
Use range (CL→Top): 55 5/8" to 72 1/2" from centerline of cylinder to top of door.

HB-4087 — HEADER BOLT SET

Use range (CL→Top): 67" to 89" from centerline of cylinder to top of door.

Notes:

- When paired with a basic long-throw deadlock in the active leaf, this set locks the inactive leaf. 5/8" throw expanding bolt.
- Minor post-install adjustments permitted.
- Includes: Rod guide and header strike.



Specify When Ordering:

- Model number
- Finish (if applicable)
- Door measurement — centerline of cylinder to top of door.

CYLINDERS, THUMBTURNS & INDICATORS

Mortise and Rim Cylinders, Thumbturns and Lock Indicators

CZ-1001 MORTISE CYLINDER



- 1" length, 5-pin cylinder, 1 5/32" diameter
- AR MS-Type cam
- Keyway options: Schlage "C", Yale "8"
- Core face and keyway finish: US26
- Cylinder ring sizes: 3/16" standard; 5/32" and 7/32" optional
- **Finishes Available:**
 - AL – Anodized Satin Aluminum
 - BK – Anodized Black
 - DU – Anodized Bronze

TZ-3001 THUMBTURN CYLINDER



- 1" length cylinder, 1 5/32" diameter
- AR MS-Type cam
- Thumbturn, finish US26
- Cylinder ring sizes: 3/16" standard; 5/32" and 7/32" optional
- **Finishes Available:**
 - AL – Anodized Satin Aluminum
 - BK – Anodized Black
 - DU – Anodized Bronze

DC-2001 DUMMY CYLINDER



- No keyway or cam
- Cylinder ring sizes: 3/16" standard; 5/32" and 7/32" optional
- **Finishes Available:**
 - AL – Anodized Satin Aluminum
 - BK – Anodized Black
 - DU – Anodized Bronze

RZ-3001 CYLINDER



- 5-pin cylinder
- Core face and keyway: US26
- Schlage "C" keyway
- Low-profile cylinder ring and adaptor plate standard
- Includes 1 7/8" break-away screws and 1 1/4" break-away spindle
- **Finishes Available:**
 - AL – Anodized Satin Aluminum
 - BK – Anodized Black
 - DU – Anodized Bronze

LI-4089 LOCK INDICATOR



- For use with DH-1820 and DT-1850 deadlocks
- Displays "LOCKED" in red and "OPEN" in green on white background
- Includes adhesive-backed sign HS-4089
- Standard header sign: THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS
- **Finishes Available:**
 - AL — Baked Satin Aluminum
 - BK — Baked Black Paint
 - DU — Baked Storefront Bronze Paint

CG-4043 SECURITY COLLAR



- Hardened steel security ring with free-spinning beveled collar
- Designed for standard face 5-pin mortise key cylinder
- For use on aluminum doors
- Furnished with retaining clip and two spacers
- **Finishes Available:**
 - AL — Baked Satin Aluminum
 - BK — Baked Black Paint
 - DU — Baked Storefront Bronze Paint

PADDLE HANDLES, CAM PLUGS & LEVER HANDLES

PH-4520 — Paddle Handle (Push or Pull)

Use with: DL-4510-type latch lock.

Operation: "PUSH" and "PULL" plates included;
non-handed, field reversible.

Construction: Extruded aluminum handle with
field-reversible cam plug (included).

Includes: Paddle, plates, cam plug, mounting screws.

Finishes:

- AL — Anodized satin aluminum;
housing in baked satin-aluminum paint
- DU — Anodized storefront bronze;
housing in baked storefront-bronze paint



CP-4560 — Cam Plug

Use with: HL-4560 Lever Handle and
PH-4520 Paddle Handle

Handing: Non-handed; field reversible

Purpose: Provides the cam interface for
DL-4510-type latch bodies.



HL-4560 — Lever Handle

Use with: DL-4510-type latch lock.

Includes: CP-4560 cam plug (field reversible)

Handing: Non-handed; field reversible.

Finishes:

- AL — Baked satin aluminum
- DU — Baked storefront bronze paint



Specify When Ordering:

- Paddle handle: PH-4521-AL or PH-4521-DU
- Lever handle: HL-4560-AL or HL-4560-DU
- If factory pre-handing is required, specify the hand

PUSH PULL BARS & PULL HANDLES

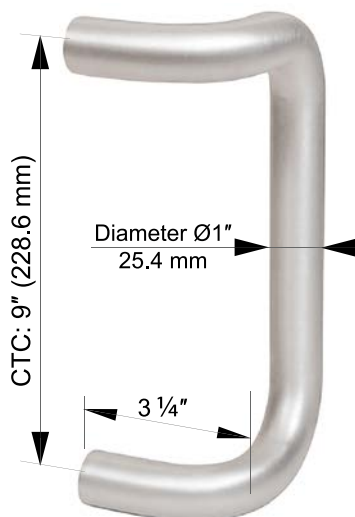
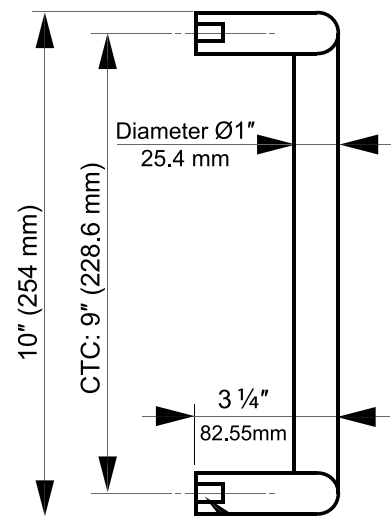
Door Pulls & Push Bars

Specify when ordering: Length (CTC), Finish, and Mounting hardware (T1 or T6)

DHPH-4000-1 — Offset Door Pull

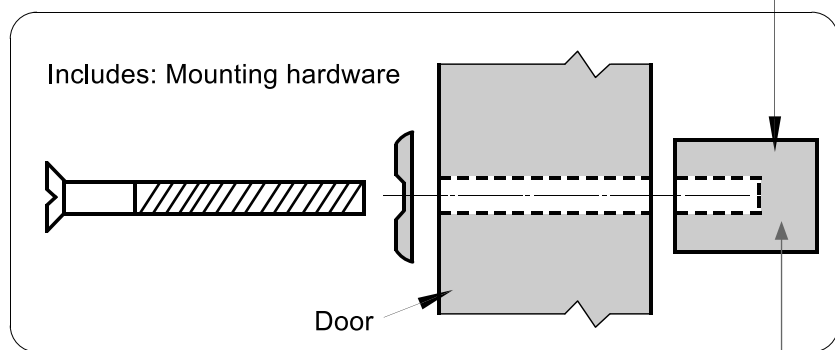
DHPH-4000-2 — Offset Door Pull Set

- Material: 1" (25.4 mm) Diameter Solid Aluminum Round
- Offset: 3 1/4" (82.55 mm)
- Projection: 3 1/4" (82.55 mm)
- Door clearance: 2 1/4" (57.15 mm)
- CTC options: 9", 10", 12" (228.6, 254, 304.8 mm)
- Includes: Mounting hardware
- **Finishes:**
AL (anodized aluminum),
DU (storefront bronze).
Other finishes on request



DHPH-4000-1
OFFSET DOOR
SINGLE PULL

DHPH-4000-2
OFFSET DOOR
PULL SET

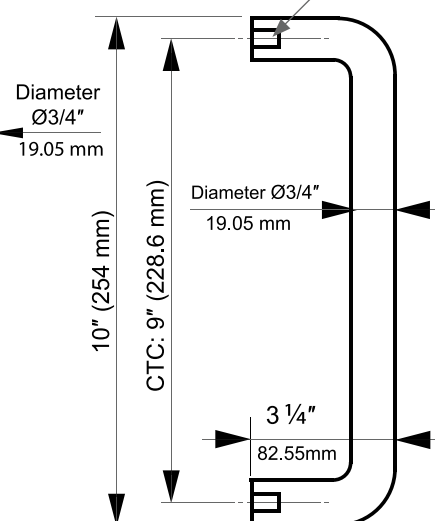


Mounting Insert

Mounting Insert

DHPH-4200 — Straight Pull Handle Set

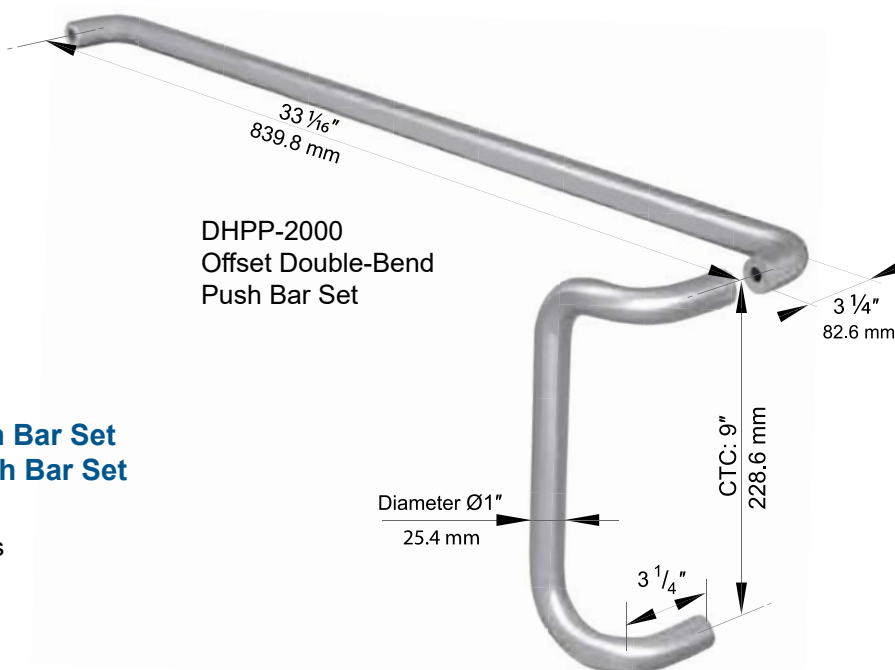
- Material: 3/4" (19.05 mm) solid aluminum round
- Offset: 3 1/4" (82.55 mm)
- Projection: 3 1/4" (82.55 mm)
- Door clearance: 2 1/4" (57.15 mm)
- CTC options: 9", 10", 12" (228.6, 254, 304.8 mm)
- Includes: Mounting hardware
- **Finishes:**
AL (anodized aluminum),
DU (storefront bronze).
Other finishes on request



PUSH PULL BARS & PULL HANDLES



DHPP-1000
Offset Single-Bend
Push Bar Set



DHPP-2000
Offset Double-Bend
Push Bar Set

DHPP-1000 — Offset Single-Bend Push Bar Set DHPP-2000 — Offset Double-Bend Push Bar Set

- Material: 1" (25.4 mm) solid aluminum round
- Projection: Refer to Pull/Push Specifications
- Includes: Mounting hardware

• Finishes:

AL (anodized aluminum),
DU (storefront bronze).
Other finishes on request



DHPB-1000 — Single-Bend Push Bar



DHPB-2000 — Double-Bend Push Bar

DHPB-1000 — Single-Bend Push Bar DHPB-2000 — Double-Bend Push Bar

- Material: 1" (25.4 mm) solid aluminum round
- Projection: 2 1/4" (57.15 mm)
- Door clearance: 1 1/4" (31.75 mm)
- CTC options: 33 1/16", 39 1/16", 45 1/16" (839.8 mm, 992.2 mm, 1144.6 mm)
- Includes: Mounting hardware
- Finishes:
AL (anodized aluminum),
DU (storefront bronze).
Other finishes on request

Model	Product Type	Offset	Projection	Door Clearance	CTC Option	Finish Option	Mounting Hardware
DHPH-4000-1	Offset Door Pull	3 1/4" (82.55 mm)	3 1/4" (82.55 mm)	2 1/4" (57.15 mm)	9", 10", 12" (228.6 mm, 254 mm and 304.8 mm)	AL, DU	Included
DHPH-4000-2	Offset Door Pull Set						
DHPH-4200	Straight Pull Handle Set						
DHPP-1000	Offset Single-Bend Push Bar Set	N/A	See Specs	N/A	N/A	AL, DU	Included
DHPP-2000	Offset Double-Bend Push Bar Set						
DHPB-1000	Single-Bend Push Bar	N/A	2 1/4" (57.15 mm)	1 1/4" (31.75 mm)	33 1/16", 39 1/16", 45 1/16" (839.8 mm, 992.2 mm, and 1144.6 mm)	AL, DU	Included
DHPB-2000	Double-Bend Push Bar						

STRIKE SETS (STAINLESS STEEL • NON-HANDED)



SC-4510 — Offset Door & Frame (New Install)

- **Use:** New installation with DL-4510 deadlatch on offset door and frame
- **Includes:** Strike plate, dust box, back-up plate, screws

SC-4540-2 / SC-4545-2 — Center-Hung (Replace MS)

- **Use:** Replaces an MS-type lock with a DL-4510 on center-hung door and frame
- **Door jamb sizes:** SC-4540-2 = 4", SC-4545-2 = 4 ½"
- **Includes:** Strike plate, dust box, back-up plate, screws



SC-4520 — Offset Door & Frame (Replace MS)

- **Use:** Replaces an MS-type lock with a DL-4510 on offset door and frame
- **Includes:** Strike plate, dust box, back-up plate, screws
- **Note:** Non-handed

SS-4510 / SP-4510 — Individual Strikes

- **SS-4510 Standard Strike:**
Stainless steel; press-formed countersunk mounting holes
- **SP-4510 Special Strike:**
Stainless steel; flat-back countersunk mounting holes

SC-4540-1 / SC-4545-1 — Center-Hung (New Install)

- **Use:** New installation with DL-4510 deadlatch on center-hung door and frame
- **Door jamb sizes:** SC-4540-1 = 4", SC-4545-1 = 4 ½"
- **Includes:** Strike plate, dust box, back-up plate, screws

Use	Door Jamb	Kit
New install • Offset	—	SC-4510
Replace MS • Offset	—	SC-4520
New install • Center-hung	4" or 4 ½"	SC-4540-1 SC-4545-1
Replace MS • Center-hung	4" or 4 ½"	SC-4540-2 SC-4545-2

Specify When Ordering:

- **Model Number** (e.g., SC-4540-2)
- **Door Type** (Offset / Center-hung)
- **Jamb Size** (4" or 4 ½" where applicable)
- **Finish / Material** if options apply

Kick-Down Door Holder

Model: DHHDKD

What It Does

Foot-operated kick-down holder keeps the door open at a set position; flips up with a toe to release.

Key Features

- Zinc-alloy construction for strength and corrosion resistance
- Non-marking rubber tip protects floors and thresholds
- 7" body height for easy toe operation and added leverage
- Field-reversible mounting for left or right door edges.
- For wood, metal, or aluminum doors (use included screws)

Specifications

- Body height: 7" (178 mm)
- Foot tip diameter: ~1" (25 mm) non-marking rubber
- Material/finish: Die-cast zinc body; see finishes below
- Recommended install height: 1–2" (25–50 mm) above floor at resting position

Finishes Available

- AL — Aluminum (Satin)
- DU — Storefront Bronze

Included Mounting Screws (qty 6)

- (2) #10 × 1-1/2" self-drilling / self-tapping (metal doors)
- (2) #10 × 1-1/2" flat-head wood / sheet-metal
- (1) #10 × 1/2" flat-head wood / sheet-metal
- (1) #10 × 1/2" self-drilling / self-tapping

 **Tip:** Use the longer screws for the body, the 1/2" screws for the rubber-tip guard or where cavity depth is limited.

Replacement Parts

DHHDKD-HOLDER-TIP — Replacement non-marking rubber tip (black)



Specify When Ordering

- Model (DHHDKD)
- Finish (AL or DU)
- Door material (wood/metal/aluminum)

ALUMINUM PIVOTS

3/4" Offset for Use with Aluminum Doors and Frames

DH20 SERIES	DH30 SERIES	DH40 SERIES	DH50 SERIES	DH60 SERIES	DH70 SERIES	DH80 SERIES	DH90 SERIES
							
DH-OP27 (Non-Handed) Flush Door	DH-OP30-L Left Flush Door		DH-OP50-L Left 1/8" Recessed Door	DH-OP60-L Left 7/64" Recessed Door	DH-OP70-L Left 1/8" Recessed Door		
DH-OP28 (Non-Handed) 1/8" Recessed Door	DH-OP31-L Left 1/8" Recessed Door	DH-OP40-L Left Flush Door	DH-OP50-R Right 1/8" Recessed Door	DH-OP60-R Right 7/64" Recessed Door	DH-OP70-R Right 1/8" Recessed Door	DH-OP80-L Left 1/8" Recessed Door	DH-OP90-L Left 1/8" Recessed Door
	DH-OP31-R Right 1/8" Recessed Door	DH-OP40-R Right Flush Door				DH-OP80-R Right 1/8" Recessed Door	DH-OP90-R Right 1/8" Recessed Door
	DH-OP30-R Right Flush Door						

DH Pivots Cross References

DH20 SERIES	DH30 SERIES	DH40 SERIES	DH50 SERIES	DH60 SERIES	DH70 SERIES	DH80 SERIES	DH90 SERIES
All American Entrance Tech Jackson 27 Jackson 28 Rebco West Sun Valley Vistawall	All American Arcadia Arch Aluminum Commercial Arch Pacific Western Rebco Southwest Alum Tubelite Vistawall	A Door MFG Entrance Tech Sun Valley US Aluminum	Aldora	Arch Aluminum Armalite Wells Aluminum	Kawneer	Pitco Pittco/PPG	YKK

Intermediate Pivot Set

	DH-IPS-1900 INTERMEDIATE PIVOT SET Ordering Information DH-IPS-1900-L DH-IPS-1900-R		DH-IPS-2200 INTERMEDIATE PIVOT SET Ordering Information DH-IPS-2200-L DH-IPS-2200-R
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DOOR SEALS & WEATHERSTRIPS

	DHDS001 - Triple Blade Vinyl Door Sweep	DHDS002 - Single Blade Vinyl Door Sweep	DHDS011 Nylon Brush Door Sweep	DHWS001 Vinyl Weatherstrip (bulb)
	<p>3/10" 7.6mm 1" 25.4 mm 1 1/8" 28.6 mm Door Bottom</p>	<p>1/4" 6.4mm 7/8" 22.23 mm 1" 25.40 mm Door Bottom</p>	<p>5/16" 7.9mm 13/16" 20.6 mm 7/8" 22.23 mm Door Bottom</p>	<p>Door Face 1/4" 6.4mm 7/8" 22.2 mm 1/4" 6.4 mm Jamb Door Edge</p>
Seal	Extruded vinyl blade on aluminum holder	Tapered vinyl blade for a softer close and tighter contact on smooth sills	Dense nylon brush crimped in aluminum holder	Compressible vinyl bulb on aluminum carrier
Mounting	Surface-mounted to door bottom (pull side)	Door bottom (pull side)	Door bottom (pull side)	Jamb/stop (hinge & strike sides, and head)
Use	Everyday exterior/interior doors with smooth thresholds; drafts, light, dust control	Best where a gentle, quiet seal is preferred; good for modest out-of-level sills	Uneven floors, carpet, or rough thresholds; resists abrasion and lets air move while blocking dust/insects	Perimeter seal to pair with door sweeps for full 3-sided weatherproofing
Finish	AL, DU	AL, DU	AL, DU	AL, DU
Lengths	36" and 48"	36" and 48"	36" and 48"	36" × 84" and 48" × 84"
Includes	Mounting screws	Mounting screws	Mounting screws	Mounting screws

How to Choose

Smooth threshold → Vinyl blade (DHDS001/002) for tightest seal.

Irregular floor / carpet → Brush (DHDS011) for durability & glide.

Full perimeter → Add DHWS001 on jamb/stop.

Ordering Information

Specify when ordering:
Model • Length • Finish

Note: All sweeps/strips are field-trim capable; fasteners included.

Install Notes

Set blade/brush to just touch the threshold—do not preload.

Pre-drill aluminum and avoid overtightening.

Clean seal periodically for best performance.

FLUSHBOLT

DHFB1 FLUSHBOLT

- Faceplate: $15/16" \times 4 1/4"$ radius corners
- Actuator: Positive "U" joint, $5/8"$ throw
- Offsets available: $1/8"$, $3/16"$, $1/4"$ (with $7/8"$ backset)
- Rod: Designed for 12" centerline
- Tip: Square nylon, beveled corners; fits $1/2"$ square hole
- **Finishes:**
 - AL — baked satin aluminum paint
 - BK — baked black paint
 - DU — baked storefront bronze paint

Ordering Information

DHFB1 Flushbolt (includes guide)

- $1/8"$ offset
- $3/16"$ offset
- $1/4"$ offset

Specify:

Model number + offset + finish

DHFB2 FLUSHBOLT

- Faceplate: $15/16" \times 4 1/4"$ radius corners
- Actuator: Positive "U" joint, $7/8"$ throw
- Offsets available: $1/8"$, $3/16"$, $1/4"$ (with $7/8"$ backset)
- Rod: Designed for 12" centerline
- Tip: Square nylon, beveled corners; fits $1/2"$ square hole
- **Finishes:**
 - AL — baked satin aluminum paint
 - BK — baked black paint
 - DU — baked storefront bronze paint

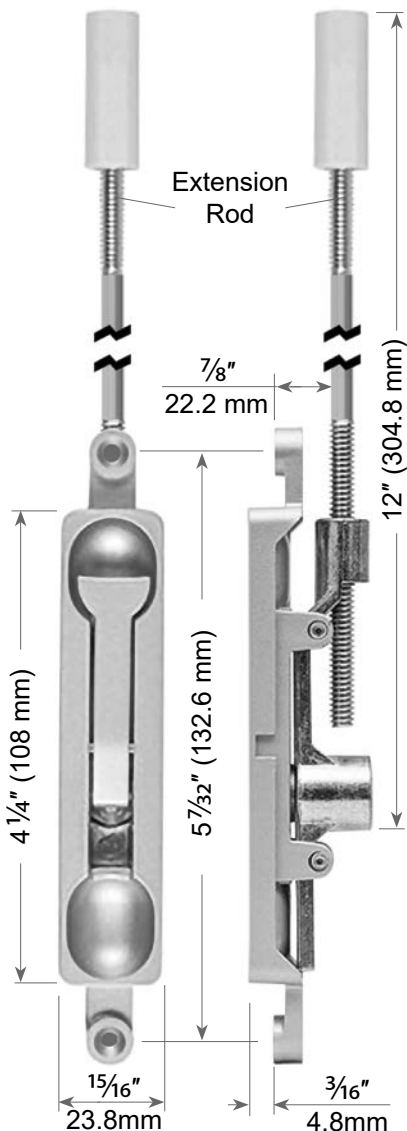
Ordering Information

DHFB2 Flushbolt (includes guide)

- $1/8"$ offset
- $3/16"$ offset
- $1/4"$ offset

Specify:

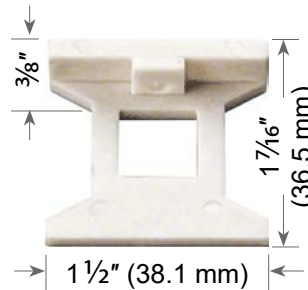
Model number + offset + finish



ACCESSORIES

DHFB1 & DHFB2 Flushbolt Extension Rod

- $1/4-20 \times 12"$ threaded rod
- Includes coupler



Guide

**DHFB1 & DHFB2
Standard Flushbolt
Guide**



Extension Rod

MODEL	FACEPLATE SIZE	BOLT THROW	OFFSETS AVAILABLE	BACKSET	INSTALLATION CENTERLINE *	TIP TYPE	FINISHES
DHFB1	$15/16" \times 4 1/4"$	$5/8"$	$1/8"$, $3/16"$, $1/4"$	$7/8"$	12"	Square Nylon	AL, BK, DU
DHFB2	$15/16" \times 4 1/4"$	$7/8"$	$1/8"$, $3/16"$, $1/4"$	$7/8"$	12"	Square Nylon	AL, BK, DU

*Rod supplied for a 12" installation centerline; this is not a statement of the rod's end-to-end length.

Installation Guidelines (Best Practices)

- Ensure alignment. The flushbolt must align with the strike plate to lock and unlock smoothly.
- Drill clean cutouts. Use sharp bits for precise faceplate and bolt pockets.
- Fasten securely. Tighten screws firmly without over-torquing to avoid stripping or misalignment.
- Function test. After install, engage/retract the bolt several times to verify smooth operation.

Choose the Right Offset

- Measure door edge to strike lip clearance.
- Start with $1/8"$ offset for tight/standard gaps.
- Use $3/16"$ or $1/4"$ if bolt misses/drag; choose the smallest offset that aligns cleanly.

DH5000 SERIES / GRADE 2 / EXIT DEVICES

Our DH5000 Series Exit Devices meet the demand for superior emergency hardware. These durable devices are designed to meet the needs of modern touch-bar styling for heavy-traffic applications by eliminating the need for lever arms and crossbars.

Code & Listing

- Devices are UL listed for accident-hazard (panic) and fire-exit applications to applicable UL and UBC standards.
- UL / ULC listed panic hardware – Listed by Underwriters Laboratories (UL in the USA and ULC in Canada) for accident-hazard (panic) installations.
- UL 305 compliant – Meets the requirements of UL 305 for panic hardware.
- Listed fire-exit hardware – Listed as fire-exit hardware in accordance with UL 10C and Uniform Building Code Standard 7-2 "Fire Tests of Door Assemblies" (1997).

Operation & Life-Safety

- Non-handed design – All devices are non-handed and can be used on right- or left-hand doors.
- Fast, easy egress – Slight pressure on the touch bar retracts the latch(es) for immediate exit.

Security & Abuse Resistance

- Guarded latch security
 - The auxiliary guarded latch deadlocks the latch bolt automatically when the door is closed.
- Vandal-resistant mechanism
 - High shock-resistant latching mechanism provides protection against vandalism.
- Through-bolted trims
 - All trims feature a through-bolted design for increased security and long-term durability.

Materials & Corrosion Protection

- Heavy-duty internal components – All internal components are made of highly rust-resistant alloy or heavily electroplated steel to prevent corrosion.

Trims & Design Options

- Trim choices – Outside trims are available with rose or escutcheon plates and levers or knobs in a variety of styles to suit buyer preference.



Finishes & Appearance

- Architectural finishes – Baked powder-coat, electroplated, or architectural base-material finishes are available on all exposed surfaces to match a wide range of décors.

Traffic Management & Service Life

- Dogging function – Optional dogging mechanism allows hex-key or cylinder operation for positive push-pull door action during peak-traffic periods.
- Extended product life – This dogging feature reduces wear on the latching mechanism and helps extend the service life of the exit device (panic models only).

Typical Applications

- Schools and universities
- Hospitals and medical offices
- Office buildings and warehouses
- Shopping centers and public facilities
- Much more...

DH5000 SERIES / GRADE 2 / EXIT DEVICES



DH5510S Panic Rim Exit Device
DH5510F Fire Rim Exit Device



DH5610S Narrow Design
Panic Rim Exit Device



DH5530S Panic SVR Exit Device
DH5530F Fire SVR Exit Device



DH5630S Narrow Design
Panic SVR Exit Device

DH5510 SERIES RIM EXIT DEVICE DH5530 SERIES SVR EXIT DEVICE

These two series are wide-stile designs,
UL listed as panic hardware or fire exit hardware.

Rim Type – Ideally suited for:

- Any single exterior door
- Any panic or fire-rated interior single door, and all exit doors in factories, hospitals, apartments, and office buildings
- Indoor parking garages

SVR Type – Ideally suited for:

- Any pair of emergency exit doors
- Pairs of doors in cross-corridor applications
- Double-egress applications
- Passage doors in hospitals, factories, or any public buildings.

DH5610 NARROW DESIGN PANIC RIM DEVICE DH5630 NARROW DESIGN PANIC SVR DEVICE

These two models are narrow-stile designs,
UL listed as panic hardware.

Rim type and SVR type

– Both types ideally suited for:

- Contemporary glass doors in modern buildings
- Aluminum entrance doors
- Passage doors in courthouses
- Full-glass doors in retail stores and resort hotels

DH5510 SERIES / GRADE 2 / RIM EXIT DEVICES

DH5510S Panic-Rated Rim Exit Device — For wide-stile and flush doors

DH5510F Fire-Rated Rim Exit Device — For wide-stile fire-labeled doors



Hex Key dogging Standard,
Cylinder dogging is for option

Application

- For use on single doors or double doors with mullion. Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).

Certification

- UL 305 Standard for the Panic Exit Hardware
- UL 10C Standard for the Fire Exit Hardware

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH533 rim (fire-rated); DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 73
Finish	Standard finishes: US20A, US28A
Dimension	See next page
Device Length	See next page
UL Listed	For panic hardware (original listed model no.: DH500SA); for fire-exit hardware (original listed model no.: DH500AF)

* Fire-rated rim devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.



DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required. Steel, plated.



DH532 Panic Rim Strike

Surface-applied strike.
Standard on DH5000 Series
panic rim exit devices.
Stainless steel with plated roller.

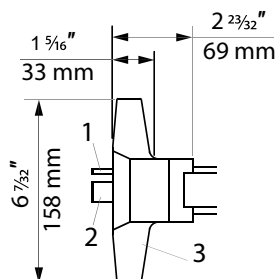


DH533 Fire Rim Strike

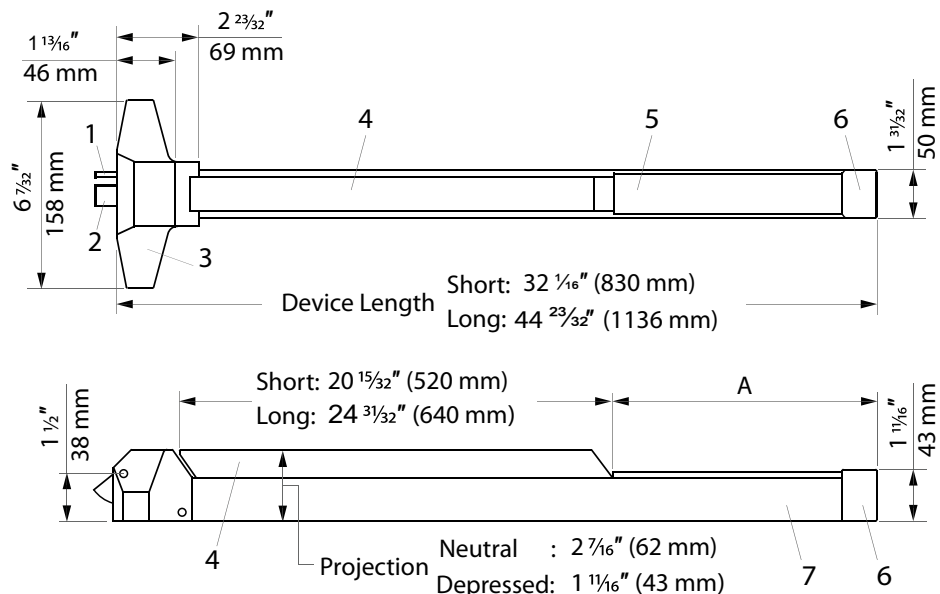
Surface-applied strike.
Standard on DH5000 Series fire rim
devices.
100% stainless steel, including the
roller.

DIMENSIONS, PART NAMES & DEVICE LENGTH

Narrow Stile



Wide Stile



Part Names

1. Auxiliary Guarded Latch
2. Latch Bolt
3. Chassis Cover (also called Head Cover)
4. Push Bar
5. Dogging Plate
6. End Cap
7. Mechanism Housing (also called Device Body)
8. Top Latch
9. Latch Assembly Cover
10. Top Vertical Rod
11. Rod Guide
12. Chassis
13. End Cap Bracket
14. Bottom Vertical Rod
15. Bottom Latch

Device Length

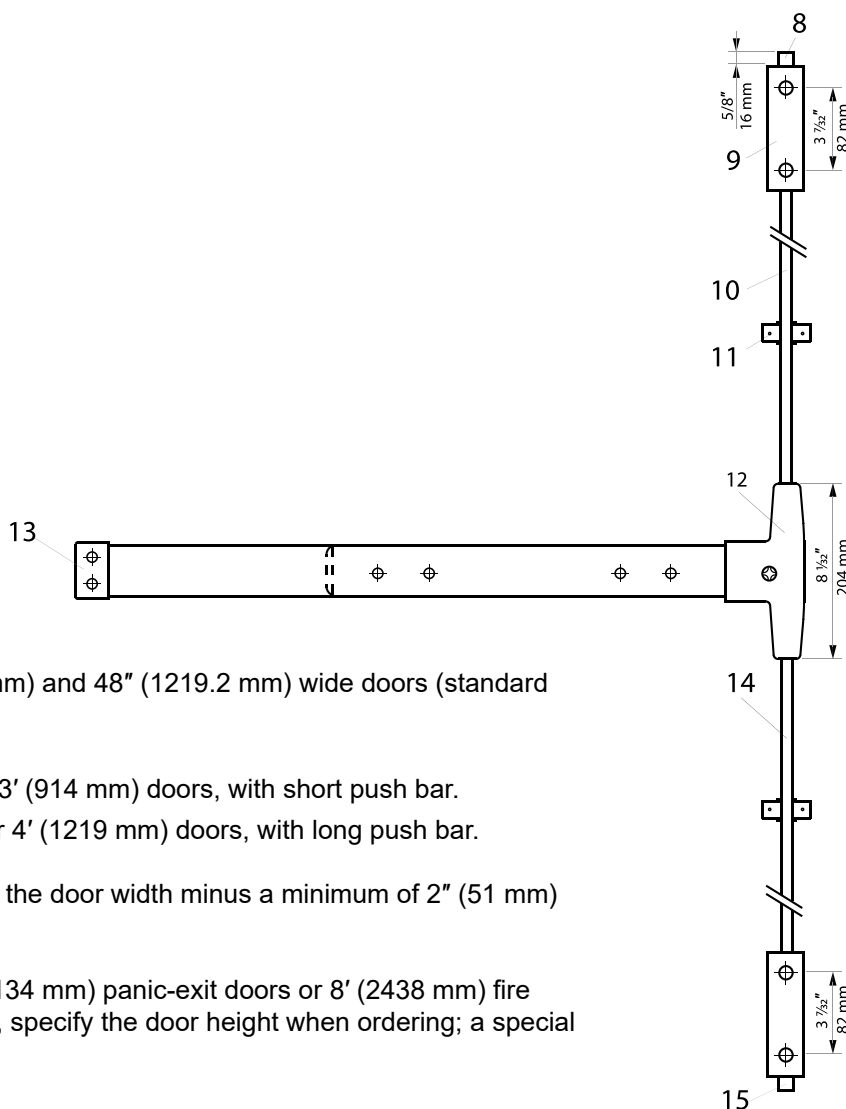
Device lengths are pre-cut for use on 36" (914.4 mm) and 48" (1219.2 mm) wide doors (standard shipping sizes); no additional cutting is required.

Short 36" – Device length is 32 1/16" (830 mm) for 3' (914 mm) doors, with short push bar.

Long 48" – Device length is 44 23/32" (1136 mm) for 4' (1219 mm) doors, with long push bar.

For narrow-door installations, cut dimension "A" to the door width minus a minimum of 2" (51 mm) to ensure a proper fit.

Our standard vertical rod set accommodates 7' (2134 mm) panic-exit doors or 8' (2438 mm) fire doors. For doors higher than these standard sizes, specify the door height when ordering; a special longer top rod will be furnished.



DH5530 SERIES / GRADE 2 / SVR EXIT DEVICES

DH5530S Panic-Rated Surface Vertical Rod Exit Device — For wide-stile and flush doors

DH5530F Fire-Rated Surface Vertical Rod Exit Device — For wide-stile fire-labeled doors

Application

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).
Fire-rated devices must be used on 4' × 8' single doors or 8' × 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).

Certification

- UL 305 Standard for Panic Exit Hardware
- UL 10C Standard for Fire Exit Hardware

DH534 Top Strike

Surface-applied to stop.
Hardened, plated steel.



DH537 Bottom Strike

Surface-applied to floor.
Non-ferrous alloy, plated.



These SVR models cannot omit the bottom rod or be used as Less Bottom Rod (LBR) devices. If an LBR configuration is desired, the device must be retested and approved by a nationally recognized test laboratory.

Our model no. DHLBR5530F fire-rated LBR device has been approved by UL individually. It must be used with a UL listed fire latch bolt; see page 73 Model FL001.

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 1/2" (13 mm) throw
Vertical Rods	Tubular aluminum with rod guides

Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard; less dogging, see page 73.
Finish	Standard finishes: US20A, US28A
Dimension	See page 61
Device Length	See page 61
UL Listed	For panic hardware (original listed model no.: DH900SA) and fire-exit hardware

* Fire-rated SVR devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

DH5610S PANIC-RATED / GRADE 2 / RIM EXIT DEVICES

DH5610S Panic-Rated Rim Exit Device — For narrow-stile doors



Hex Key dogging Standard,
Cylinder dogging is for option

Application

- For use on single doors or double doors with mullion.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 2 1/2" (63 mm).



DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required. Steel, plated.



DH532 Panic Rim Strike

Surface-applied strike. Standard on DH5000 Series panic rim exit devices. Stainless steel with plated roller.

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) are required for wood doors; order SNB separately
Dogging	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 73
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 61
Device Length	See page 61
UL Listed	For panic hardware (original listed model no.: DH500S)

DH5630S PANIC-RATED SVR EXIT DEVICES

DH5630S Panic-Rated Surface Vertical Rod Exit Device — For narrow-stile exit doors

Applications

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 2 1/2" (63 mm).

DH534 Top Strike

Surface-applied to stop.
Hardened, plated steel.



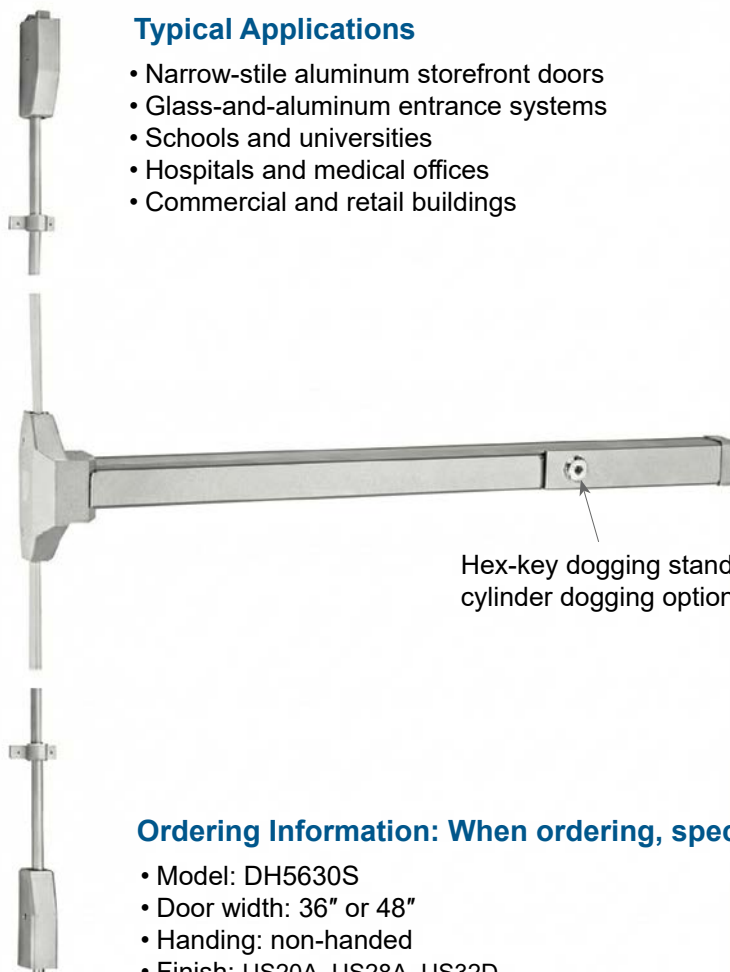
DH537 Bottom Strike

Surface-applied to floor.
Non-ferrous alloy, plated.



Typical Applications

- Narrow-stile aluminum storefront doors
- Glass-and-aluminum entrance systems
- Schools and universities
- Hospitals and medical offices
- Commercial and retail buildings



Hex-key dogging standard;
cylinder dogging optional

Ordering Information: When ordering, specify

- Model: DH5630S
- Door width: 36" or 48"
- Handing: non-handed
- Finish: US20A, US28A, US32D
- Dogging: RD (hex-key), CD (cylinder dogging), or LD (less dogging)
- Strikes: DH534 top strike / DH537 bottom strike

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, 1/2" (13 mm) throw
Latch Case Covers	Steel or stainless steel
Vertical Rods	Tubular aluminum with rod guides

Strikes	Top DH534, bottom DH537
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging	Dogging — Hex-key dogging standard (Allen-type key furnished)
Finish	Standard finishes: US20A, US28A
Dimension	See page 61
Device Length	See page 61
UL Listed	For panic hardware (original listed model no.: DH900S)

DH5710 SERIES / GRADE 1 / RIM EXIT DEVICES

DH5710S Panic-Rated Rim Exit Device — For wide-stile and flush doors

DH5710F Fire-Rated Rim Exit Device — For wide-stile fire-labeled doors



Hex Key dogging Standard,
Cylinder dogging is for option

Application

- For use on single doors or double doors with mullion. Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).

Certification

- Complies with ANSI A156.3 - 2020 Grade 1
- UL 305 Standard for the Panic Exit Hardware
- UL 10C Standard for the 3-Hour Fire Exit Hardware

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH533 rim (fire-rated); DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 73
Finish	Standard finishes: US20A, US28A
Dimension	Page 61
Device Length	Page 61
UL Listed	For panic hardware (original listed model no.: DH500SA); for fire-exit hardware (original listed model no.: DH500AF)

DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required. Steel, plated.

DH532 Panic Rim Strike

Surface-applied strike. Standard on DH5000 Series panic rim exit devices. Stainless steel with plated roller.

DH533 Fire Rim Strike

Surface-applied strike. Standard on DH5000 Series fire rim devices. 100% stainless steel, including the roller.

* Fire-rated rim devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

DH5730 SERIES / GRADE 1 / SVR EXIT DEVICES

DH5730S Panic-Rated Surface Vertical Rod Exit Device — For wide-stile and flush doors

DH5730F Fire-Rated Surface Vertical Rod Exit Device — For wide-stile fire-labeled doors

Application

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).
Fire-rated devices must be used on 4' × 8' single doors or 8' × 8' double fire-labeled doors.
- Fits 1 ¾" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 ½" (90 mm).

Certification

- Complies with ANSI A156.3 - 2020 Grade 1
- UL/cUL listed as Panic Exit Hardware or Fire Exit Hardware

DH534 Top Strike

Surface-applied to stop.
Hardened, plated steel.



DH537 Bottom Strike

Surface-applied to floor.
Non-ferrous alloy, plated.



These SVR models cannot omit the bottom rod or be used as Less Bottom Rod (LBR) devices. If an LBR configuration is desired, the device must be retested and approved by a nationally recognized test laboratory.

Our model no. DHLBR5730S
Panic-Rated Less Bottom Rod Type

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 1/2" (13 mm) throw
Vertical Rods	Tubular aluminum with rod guides

Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard; less dogging, see page 73.
Finish	Standard finishes: US20A, US28A
Dimension	See page 61
Device Length	See page 61
UL Listed	For panic hardware (original listed model no.: DH900SA) and fire-exit hardware

* Fire-rated SVR devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

DH5900 SERIES / GRADE 1 / RIM EXIT DEVICES

DH5910S Panic-Rated Rim Exit Device — For wide-stile and flush doors

DH5910F Fire-Rated Rim Exit Device — For wide-stile fire-labeled doors



Application

- For use on single doors or on double doors with mullion. Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).



[Template Instructions — PDF](#)

Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH533 rim (fire-rated); DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 73
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See next page
Device Length	See next page
UL Listed	For panic hardware and fire-exit hardware



DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required.
Steel, plated.



DH532 Panic Rim Strike

Surface-applied strike.
Standard on DH5000 Series panic rim exit devices.
Stainless steel with plated roller.



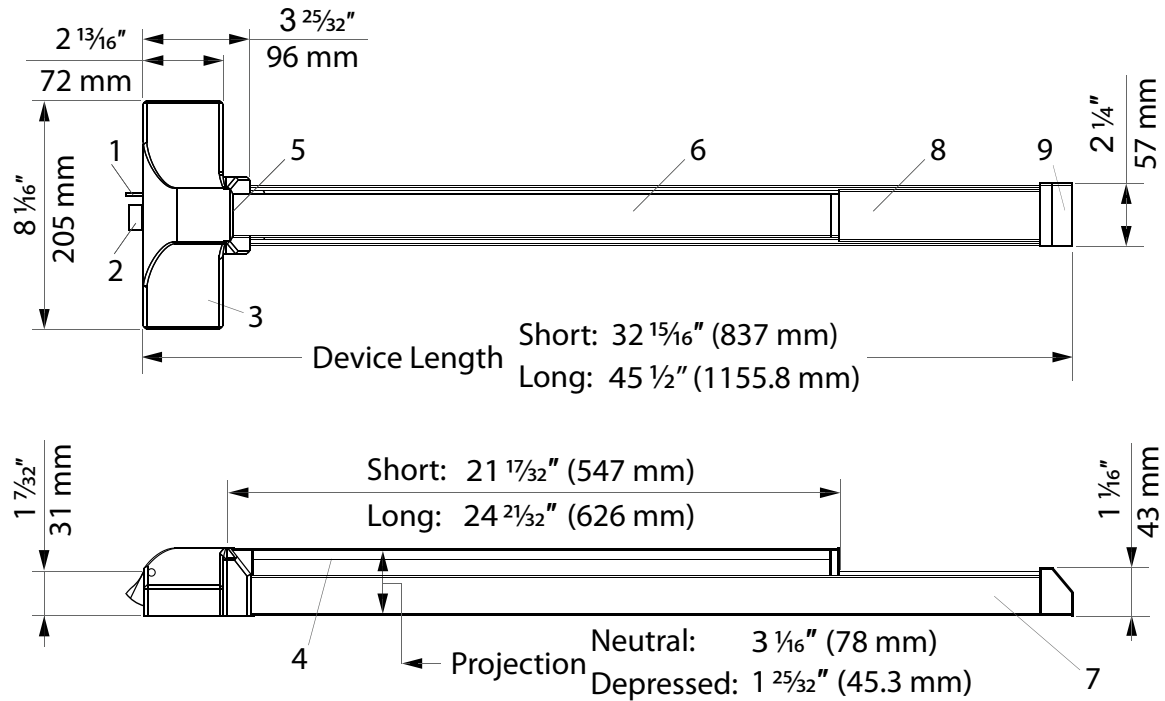
DH533 Fire Rim Strike

Surface-applied strike.
Standard on DH5000 Series fire rim devices.
100% stainless steel, including the roller.

* Fire-rated rim devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

DIMENSIONS, PART MATERIALS & DEVICE LENGTH

Dimensions



Part Materials

1. Auxiliary Guarded Latch	Stainless steel
2. Latch bolt, 3/4" (19 mm) throw	Stainless steel
3. Chassis Cover	Nonferrous alloy or stainless steel
4. Push Bar	Steel or stainless steel
5. Push Bar End Cap	Steel or stainless steel
6. Push Bar Trim	Steel or stainless steel
7. Mechanism Housing (or Device Body)	Steel or stainless steel
8. Dogging Plate	Steel or stainless steel
9. End Cap	Steel or stainless steel

Device Length

Device lengths are pre-cut for use on 36" (914.4 mm) and 48" (1219.2 mm) wide doors (standard shipping sizes); no additional cutting is required.

Short 36" – Device length is 32 15/16" (837 mm) for 3' (914 mm) doors, with short push bar.
Long 48" – Device length is 45 1/2" (1155.8 mm) for 4' (1219 mm) doors, with long push bar.

For narrow-door installations, cut dimension "A" to the door width minus a minimum of 2" (51 mm) to ensure a proper fit.

Our standard vertical rod set accommodates 7' (2134 mm) panic-exit doors or 8' (2438 mm) fire doors. For doors higher than these standard sizes, specify the door height when ordering; a special longer top rod will be furnished.

DH5930 SERIES / GRADE 1 / SVR EXIT DEVICES

DH5930S Panic-Rated Surface Vertical Rod Exit Device — For wide-stile and flush doors

DH5930F Fire-Rated Surface Vertical Rod Exit Device — For wide-stile fire-labeled doors

Application

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).
Fire-rated devices must be used on 4' × 8' single doors or 8' × 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).

These SVR models cannot omit the bottom rod or be used as Less Bottom Rod (LBR) devices.

If an LBR configuration is desired, the device must be retested and approved by a nationally recognized test laboratory.

DH534 Top Strike

Surface-applied to stop.
Hardened, plated steel.



DH537 Bottom Strike

Surface-applied to floor.
Non-ferrous alloy, plated.



[Installation Instruction — PDF](#)

[Device Template — PDF](#)



Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, 1/2" (13 mm) throw
Vertical Rods	Tubular aluminum with rod guides

Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard; less dogging, see page 73.
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 68
Device Length	See page 68
UL Listed	For panic hardware and fire-exit hardware

* Fire-rated SVR devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

ESCUTCHEON LEVERS / EXIT DEVICES

DH58L Series — Escutcheon Levers

- Non-handed, easily installed with exit device
- Provides four finishes for user and architect selection: US3 (605), US20A (690), US28 (689), and US32D (630).
- Four trim models are available to meet different functional needs; see the chart below.
- Trim is through-bolted directly to the device chassis with two bolts for increased security and durability. Standard for 1 3/4" (44 mm) thick doors. For 2" (51 mm) or 2 1/4" (57 mm) thick doors, or when used with a shim-mounted exit device, specify door thickness when ordering.

Models and Functions

Operation Options	Key Locks & Unlocks Lever	Lever Always Active (No Cylinder)	Key Retracts Latch Bolt	Pull When Dogged
(Dummy trim is not recommended for fire-rated devices)				
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Escutcheon Lever	Dummy Escutcheon Lever
Model Number and Use	DH58L01A	DH58L01B	DH58L01C	DH58L01D
	For DH5500, DH5700, DH5900 Rim, SVR and LBR devices			
Escutcheon Plate Size	8 1/16" x 2 5/8" x 25/32" (205 mm x 67 mm x 21 mm)			
ANSI Function No.	08	14	09	02
Cylinder Type	1 1/4" Mortise	—	Mortise	—

- Escutcheon is made of steel or stainless steel; lever handle is made of zinc alloy.
- When keyed operation is required, the trims can accept cylinders from other manufacturers.
- Cylinder is not supplied as standard. Specify cylinder type (RC – Regular Cylinder, IC – Interchangeable Core, NC – No Cylinder) when a cylinder is required.

Cylinder Selection

The cylinder has two types as shown below:



Mortise
Cylinder
DH526

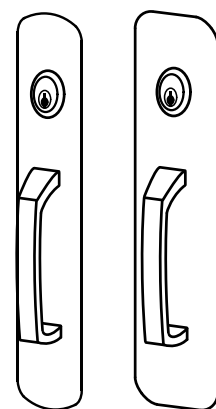


Rim Cylinder
DH426

STANDARD AND RAISED-LIP PULL PLATES / EXIT DEVICES

DH56P and DH54P Series — Standard Pull Plates

Trim Designation	Cylinder Pull Plate (with cylinder)	Dummy Pull Plate (without cylinder)	Flat Plate (without cylinder or grip)
Function	Storeroom (Night Latch)	Dummy	N/A
Operation	Key Retracts Latch Bolt	Pull when dogged (not for use with a fire-rated device)	N/A
Escutcheon Plate Size	DH56P Series – L 11 13/16" × W 3" × T 3/32" (300 mm × 76 mm × 2 mm) DH54P Series – L 11 11/16" × W 1 25/32" × T 3/32" (300 mm × 45 mm × 2 mm)		
Model Number for Wide-Stile Exit Device	DH56P3C	DH56P3D	
	For DH5510 Series Rim devices and DH5530 Series SVR devices.		
ANSI Function No.	03	02	10
Cylinder Type	Rim	–	–



DH54P3C DH56P3C

DH52R Series – Raised-Lip Pull Plates

Trim Designation	Cylinder RL Type Pull Plate	Blank RL Type Pull Plate	Flat Plate (No Raised Lip)
Function	Storeroom (Night Latch)	Dummy	N/A
Operation	Key Retracts Latch Bolt	Pull when dogged (not for use with a fire-rated device)	N/A
Dimensions	L 7 11/16" × W 3" × T 1/8" (196 mm × 76 mm × 3 mm)		
Model Number for Use with Device Type	DH52R2A	DH52R2B	DH52R2D
	For DH5510 & DH5910 Series rim devices and DH5530 & DH5930 Series SVR devices.		



DH52R2A DH52R2B

Materials & Construction

- Face plates are steel or stainless steel.
- DH52R & DH56P Series trims can retrofit 1 3/4" steel doors prepped for bored locks (ANSI A115.2).
- DH54P & DH56P Series trims are supplied with mounting through-bolts. DH52R Series trims are supplied with sex nuts and bolts (SNB).

Compatibility Summary

- DH56P / DH54P – For DH5510 Series rim devices and DH5530 Series surface vertical-rod devices; for DH5610S Series rim devices and DH5630S Series surface vertical-rod devices.
- DH52R – For DH5510 & DH5910 Series rim devices and DH5530 & DH5930 Series surface vertical-rod devices.

Ordering Information: Specify

- Model number (e.g., DH52R2A, DH56P3C).
- Cylinder type (RC – Regular Cylinder, IC – Interchangeable Core, NC – No Cylinder).
- Finish code (US3/605, US32D/630, US28/689).
- Door thickness if greater than 1 3/4".

Cylinders & Finishes

- Cylinders are not supplied as standard; trims accept cylinders from other manufacturers.
- Cylinder types: RC – Regular Cylinder, IC – Interchangeable Core, NC – No Cylinder.
- Available finishes: US3 (605), US32D (630), US28 (689).

Selection Guide

- Use DH56P / DH54P Standard Pull Plates where a traditional pull with or without cylinder is required.
- Use DH52R Raised-Lip Pull Plates where extra hand clearance is desired or where existing bored-lock doors are being retrofitted.
- Night-latch function: keyed locking/unlocking from exterior.
- Dummy function: pull only, no latch control.

Related Products

- DH58L Series Escutcheon Levers – For applications requiring lever operation with cylinders.
- DH5000 / DH5900 Series Exit Devices – A complete range of rim and surface vertical-rod exit devices.

[Installation Instructions — PDF](#)

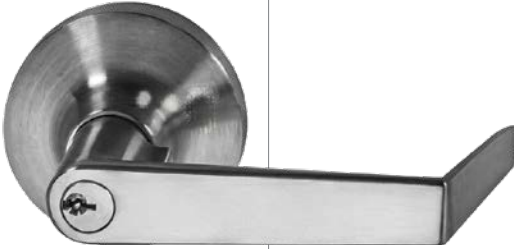
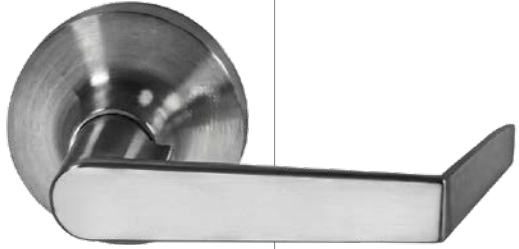
[Template — PDF](#)

LEVERS / EXIT DEVICES

DH55K and DH53K Series — Round Rose Levers

- Non-handed; easily installed with exit devices.
- Easy-operating lever handle allows convenient one-hand operation.
- Available finishes: US3 (605), US20A (690), US28 (689), and US32D (630).
- Clutch freewheeling design – when the door is locked, the lever rotates freely to prevent excessive force from being applied to the horizontal lever.
- Trim is through-bolted directly to the device chassis for increased security and durability.
- The actuating shaft of this trim is made of hardened steel bar. It fits 1 ¾" (44 mm) doors as standard, and can be used with 2" (51 mm) or 2 ¼" (57 mm) thick doors or shim-mounted exit devices—please specify door thickness when ordering.

Models and Functions

Operation Options		Key Locks & Unlocks Lever	Key Retracts Latch Bolt	Lever Always Active (No Cylinder)	Pull When Dogged
					
Function		Classroom	Storeroom (Night Latch)	Passage	Dummy
Trim Designation		Cylinder Round Rose Lever	Night Latch Round Rose Lever	Blank Round Rose Lever	Dummy Round Rose Lever
Model Number and Use		DH55K01A	DH55K01C	DH55K01B	DH55K01D
		DH53K01A	DH53K01C	DH53K01B	DH53K01D
For Rim and Surface Vertical-Rod exit devices					
Dimensions	DH55 Series	Rose diameter 3 ⅝" (86 mm). Lever length 4 ¾" (121 mm). Projection 3" (76 mm)			
	DH53 Series	Rose diameter 3 ⅙" (78 mm). Lever length 4 ¾" (121 mm). Projection 3" (76 mm)			
ANSI Function Numbers		08	03	14	02

Additional Features & Notes

- Rose trim is made of steel or stainless steel; lever handle is made of zinc alloy.
- When keyed operation is required, the trims can accept cylinders from other manufacturers.
- Cylinder is not furnished standard. Specify cylinder type (RC-Regular Cylinder, IC - Interchangeable Core, NC - No Cylinder) when the cylinder is required.
- DH55K Series trims fit and cover cutouts on 1 ¾" steel doors prepped for bored locks with lever handles (per ANSI/BHMA A156.115).

Typical Applications

- Schools and universities (classroom and corridor doors).
- Hospitals and medical offices.
- Commercial offices and public buildings.
- Retail stores and shopping centers.

How to Order DH55K or DH53K Series Trims

Example format (varies by device series)

DH53K-17-A-RC-630

Trim Model No. _____

Lever Design _____

_____ BHMA Finish Code

_____ Cylinder Type

_____ Function Code

Function Code:

- A -Classroom
- B-Passage
- C-Storeroom
- D-Dummy

ACCESSORIES / EXIT DEVICES

Fire Latch Bolt / Model FL001

The FL001 fire latch bolt is used with compatible UL-listed fire-rated Less Bottom Rod (LBR) exit devices on pairs of doors. It installs in the vertical meeting edge of one door leaf, near the bottom, with the bolt positioned to extend horizontally into the opposite door leaf during a fire.

This UL listed fire latch bolt is temperature-actuated: when the fusible link reaches its rated temperature during a fire, the bolt releases from one door leaf and engages the opposite door leaf. Once engaged, the fire latch bolt keeps the doors aligned and held closed throughout the fire event.

Specifications

- UL listed; furnished with LBR device.
- Faceplate: 1 ²⁵/₃₂" × 1" (45 mm × 25.6 mm).
- Bolt diameter: 27/32" (21.6 mm).
- Latch-bolt length: 3 ⁵/₃₂" (80 mm).
- Material: 100% stainless steel.



Less Dogging / LD

Less dogging is available on all DH5000 Series panic exit devices for applications where the dogging function is not required.



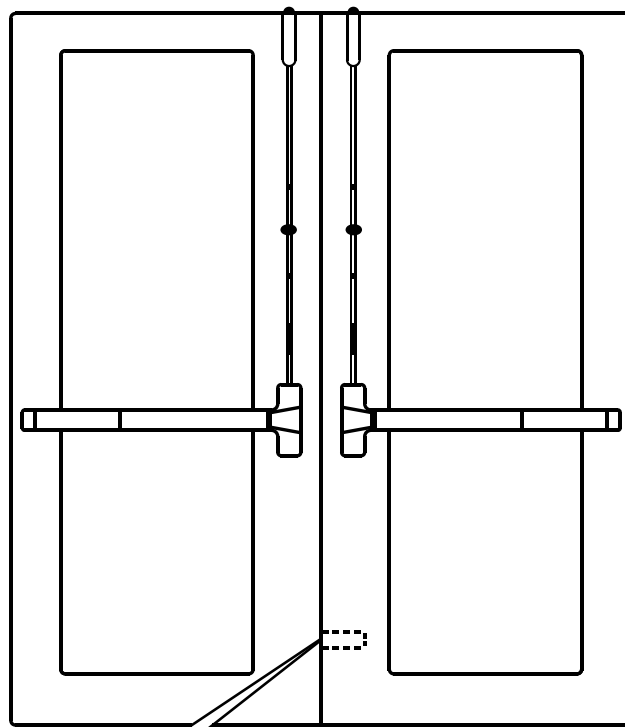
Cylinder / CD

Cylinder dogging is available on all DH5000 Series panic exit devices as a replacement for standard hex-key dogging. The unit requires a standard 1 ¹/₄" (32 mm) mortise cylinder with a straight cam.

Cylinder Options

Cylinders are not furnished with the device or trim and must be specified when required. Refer to the trim pages for the correct cylinder type.

Model FL001 Fire Latch Bolt
– Typical Double-Door Installation



	Mortise Cylinder	Rim Cylinder
Regular Type	 DH526	 DH426
Interchangeable Core Type	 DH208	 DH308

DH8000 SERIES / GRADE 1 / EXIT DEVICES

Heavy-Duty Rim, CVR, SVR and Alarm Exit Devices

DH8000 Series exit devices are heavy-duty units designed for high-traffic applications.

The devices are listed by Underwriters Laboratories (UL in the USA and ULC in Canada) for panic hardware or fire-exit hardware and are certified to ANSI A156.3-2020, Grade 1.

The DH8000 Series is a heavy-duty push-bar exit device available in two body styles: smooth device body and grooved device body. The DH8500 and DH8600 Series use the smooth body style, while the DH8700 and DH8800 Series use the grooved body style. Together, these options provide a wide range of aesthetic choices for architects and building owners.

- All devices are non-handed.
- Slight pressure on the touch bar retracts the latch(es) for immediate exit.
- The auxiliary guarded latch deadlocks the latch bolt automatically when the door is closed.
- High shock-resistant latching mechanism provides protection against vandalism.
- All internal components are made of highly rust-resistant alloys or heavily electroplated steel.
- Anti-fading electroplated or architectural base-material finishes are available on all exposed surfaces.
- An optional dogging mechanism allows hex-key or cylinder operation for positive push-pull door action during peak traffic periods. This dogging feature reduces wear on the latching mechanism and helps extend the service life of the exit device (panic models only).



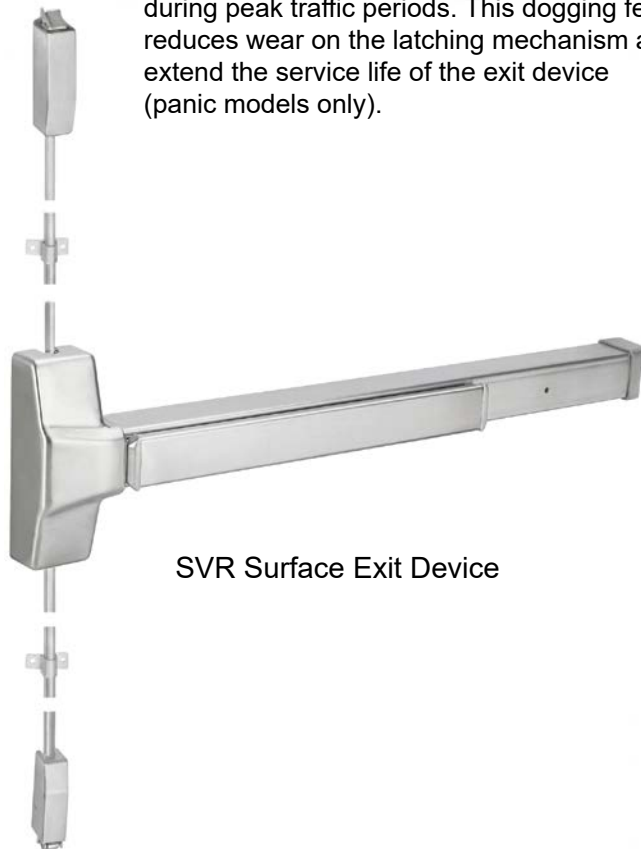
DH8000 Series
Exit Device,
Smooth Body,
with Escutcheon Lever



Rim Exit Device



Mortise Exit Device



SVR Surface Exit Device

Typical Applications

- Schools and universities
- Hospitals/medical offices
- Commercial buildings
- Industrial facilities
- Public buildings
- Transit centers.

Body Style Selection Note

- Smooth body style – clean, contemporary look suited for most commercial interiors.
- Grooved body style – adds visual detail and coordinates well with industrial or heavy-duty aesthetics.



Alarm Exit Device

NARROW-STILE RIM EXIT DEVICES / GRADE 1

DH8510S / DH8710S — Narrow Panic-Rated Rim Exit Devices

DH8510F / DH8710F — Narrow Fire-Rated Rim Exit Devices



DH8500 / DH8700 Series heavy-duty narrow-stile rim exit devices are designed for contemporary glass, aluminum, wood and metal doors.

Finishes

Standard finishes: US10B and US32D

Certifications

- **UL/cUL Listed:** Listed as panic exit hardware or 3-hour fire exit hardware
- **ANSI certified:** ANSI A156.3-2020 Grade 1

Application

- DH8510S / DH8710S narrow-design rim exit devices are used on aluminum-framed full-glass doors and narrow-stile aluminum doors.
- DH8510F / DH8710F narrow-design rim exit devices are used where a narrow stile look is desired on wide-stile single doors up to 4' x 8' (1219 mm x 2438 mm) or 8' x 8' (2438 mm x 2438 mm) double metal or wood doors with mullions.
- Narrow-stile aluminum storefront doors in retail and commercial buildings.
- Glass-and-aluminum entrance systems in offices, schools and healthcare facilities.
- Narrow-stile metal or wood doors where a slim, contemporary look is required.

Specifications

Device Length	Short (36"): 34 1/2" (872 mm); Long (48"): 46 5/16" (1176 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	2 1/32" (66 mm)
Latch Bolt	3/4" (19 mm) throw, deadlocking design
Strikes	801 (panic), 802 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD)
Dimensions	See next page
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 1/32" (66 mm)

Selection Guide (panic/fire, dogging options)

- Choose panic-rated devices (DH8510S / DH8710S) for non-fire-rated doors where fast egress is required.
- Choose fire-rated devices (DH8510F / DH8710F) for 3-hour fire doors; note that fire devices have no mechanical dogging (ND).
- Specify cylinder dogging (CD) when key-controlled pushbar hold-back is required, or less dogging (LD) when no dogging function is desired.

Code & Compliance

Always verify local building and fire codes to ensure that panic and fire-exit hardware selections meet jurisdictional requirements.

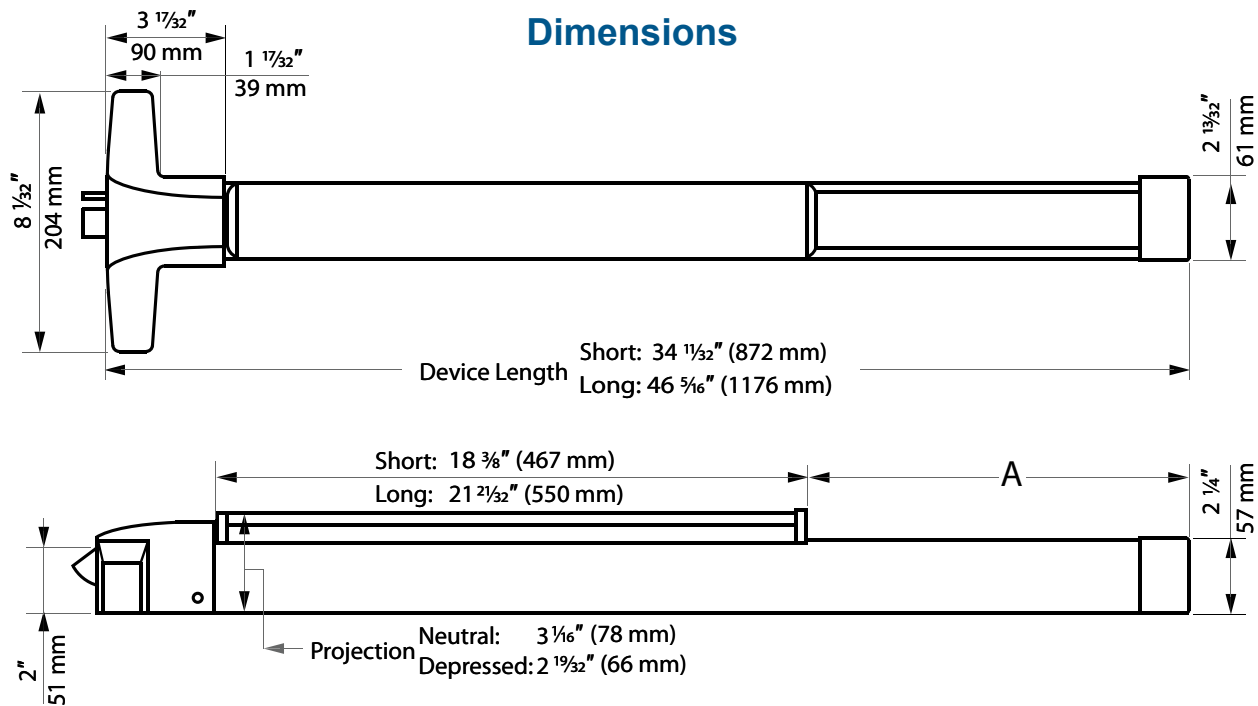
Ordering Information

When ordering, specify: device model (DH8510 or DH8710), panic-rated or fire-rated, door width, finish code, strike type (801 or 802) and dogging option (RD, CD or LD).

[Narrow Stile Rim Template - PDF](#)

[Installation Instructions - PDF](#)

DIMENSIONS, DEVICE LENGTH & OUTSIDE TRIM OPTIONS



Device Length

Devices are supplied in nominal 36" (914 mm) and 48" (1219 mm) sizes. No field cutting is required when the device is installed on a full-width 36" or 48" door.

Short 36" – Device length is 34 $\frac{1}{32}$ " (872 mm); suitable for doors 29"–36" (736–914 mm) wide.

Long 48" – Device length is 46 $\frac{5}{16}$ " (1176 mm); suitable for doors 33"–48" (838–1219 mm) wide.

For narrower doors, field-cut at dimension "A" so that the finished device length does not exceed the door width minus 2" (51 mm). Follow the current manufacturer installation template before cutting.

Compatible Outside Trim — 84P-5 Series

Model	Function	Exterior Operation	Required Cylinder
84P-5A	Classroom	Key locks and unlocks thumbpiece	1 $\frac{1}{4}$ " mortise cylinder
84P-5B	Passage	Always active	No cylinder
84P-5C	Storeroom (Night Latch)	Key retracts latch bolt	Rim cylinder
84P-5D	Dummy	Pull only	No cylinder

Note: Cylinders are not furnished as standard and must be specified separately when required.

How to Specify? Example: DH8510S-36-84P-5A-RC-626

DH8510S: Device 36: Size 84P-5A: Trim series/configuration RC: Cylinder Type 626: BHMA Finish

Cylinder Options: RC = Regular Cylinder; IC = Interchangeable Core; NC = No Cylinder

For complete trim dimensions, finishes, cylinder requirements, templates, and ordering information, see page 90.

NARROW SVR EXIT DEVICES / GRADE 1



DH8530S / DH8730S — Narrow Panic-Rated Surface Vertical Rod (SVR) Exit Devices

DH8530F / DH8730F — Narrow Fire-Rated Surface Vertical Rod (SVR) Exit Devices

Certifications

- **UL / cUL Listed:** Panic exit hardware or 3-hour fire-exit hardware
- **ANSI certified:** ANSI A156.3 - 2020 Grade 1

Application

- Narrow-design panic SVR exit devices are used on aluminum-framed full-glass doors and narrow-stile aluminum doors.
- Narrow-design fire-rated SVR exit devices are used when a wide-stile appearance is desired on double doors up to 8' x 8' (2438 mm x 2438 mm).
- Aluminum-framed full-glass entrance doors for retail and commercial storefronts.
- Narrow-stile aluminum doors in office towers and mixed-use buildings.
- Double doors in schools, healthcare facilities and public buildings where secure two-point latching is required.
- Interior fire-rated corridor doors requiring 3-hour hardware (fire-rated models only).

Specifications

Device Length	Short (36"): 34 1/32" (872 mm); Long (48"): 46 5/16" (1176 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	2 19/32" (66 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw, can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw, held retracted during door swing.
Strikes	Top: 812 (panic), 822 (fire). Bottom: 815 (panic), 825 (fire).
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD), panic-rated devices only
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' option available.
Vertical Rods	1/2" (13 mm) diameter tubular rods with rod guides. Top rod is two-piece to accommodate 7' or 8' doors. Bottom rod is one piece, length 31 1/4" (794 mm).
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)

Finishes

Standard finishes: US10B and US32D

Features & Benefits

- Two-point latching (top and bottom) provides enhanced security and door alignment on tall doors.
- Non-handed design simplifies stocking and reduces installation errors.
- Heavy-duty vertical rods and latches are engineered for high-traffic commercial use.
- Compatible with the same trims and cylinders as DH8000 rim devices, simplifying hardware scheduling and inventory.

Ordering Information & Selection Guide

- When ordering, specify the applicable dogging option: RD, CD, or LD for panic-rated devices; ND for fire-rated devices.
- For fire-rated devices, remember that mechanical dogging (RD) is not available. Fire-rated devices: no mechanical dogging (ND).
- For projects mixing rim and SVR devices, confirm that trims and cylinders are coordinated across all opening types.

[Device Templates — PDF](#)

[Installation Instructions — PDF](#)

NARROW-DESIGN CVR EXIT DEVICES / GRADE 1



DH8550S / DH8750S — Narrow Panic-Rated Concealed Vertical Rod Exit Devices DH8550F / DH8750F — Narrow Fire-Rated Concealed Vertical Rod Exit Devices

Certifications

- **UL / cUL Listed:** Panic exit hardware or 3-hour fire-exit hardware
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Application

- Narrow-design panic CVR exit devices are used on aluminum-framed full-glass doors and narrow-stile aluminum doors.
- Narrow-design fire-rated CVR exit devices are used where a wide-stile appearance is desired on paired steel doors up to 8' x 8' (2438 mm x 2438 mm).
- Aluminum-framed full-glass doors in retail and commercial buildings.
- Narrow-stile aluminum doors in offices, schools, and healthcare facilities.
- Paired wide-stile steel doors where a clean, contemporary look is desired.

Specifications

Device Length	Short (36"): 34 1/32" (872 mm); Long (48"): 46 5/16" (1176 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	2 1/32" (66 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw, can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw, held retracted during door swing.
Strikes	Top: 813 (panic), 823 (fire). Bottom: 815 (panic), 825 (fire).
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD), panic-rated devices only
Dimensions	See page 76
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' option available.
Vertical Rods	1/2" (13 mm) diameter tubular rods with rod guides. Top rod is two-piece to accommodate 7' or 8' doors. Bottom rod is one piece, length 31 1/4" (794 mm).
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 1/32" (66 mm)

Finishes

Standard finishes: US10B and US32D

Selection Guide (panic / fire / dogging)

- Use panic-rated models (DH8550S / DH8750S) for non-fire-rated doors where fast egress is required.
- Use fire-rated models (DH8550F / DH8750F) for 3-hour fire doors; note that fire-rated devices have no mechanical dogging (ND).
- Specify cylinder dogging (CD) when key-controlled hold-back is required, or less dogging (LD) when dogging is not desired.

Ordering Information & Selection Guide

- When ordering, specify RD, CD, or LD for panic-rated devices; specify ND for fire-rated devices.
- For fire-rated devices, mechanical dogging is not permitted; specify ND.
- For projects mixing rim and CVR devices, confirm that trims and cylinders are coordinated across all opening types.

[Device Template — PDF](#)

[Installation Instructions — PDF](#)

WIDE-STILE RIM EXIT DEVICES / GRADE 1

DH8610S / DH8810S — Panic-Rated Rim Exit Devices

DH8610F / DH8810F — Fire-Rated Rim Exit Devices



The DH8600 and DH8800 Series provide a full line of heavy-duty wide-stile panic and fire-rated exit hardware. These devices offer durability and safety, and they meet today's security and access-control requirements.

Specifications

Device Length	Short (36"): 33 ⁵ / ₃₂ " (842 mm); Long (48"): 45 ¹ / ₈ " (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 ¹ / ₄ " (108 mm)
Latch Bolt	3/4" (19 mm) throw, deadlocking design
Strikes	801 (panic), 802 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD)
Dimensions	See next page
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' option available.
Projection	Pushbar neutral: 3 ¹ / ₁₆ " (78 mm); pushbar depressed: 2 ¹⁹ / ₃₂ " (66 mm)

Certifications

- **UL / cUL Listed:** Panic exit or 3-hour fire-exit hardware
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Finishes

Standard finishes: US10B and US32D

Applications

- DH8610S / DH8810S panic devices are suitable for all types of single and double doors with mullions.
- DH8610F / DH8810F fire-rated devices are UL-listed for use on fire-labeled single doors up to 4' × 8' (1219 mm × 2438 mm) or double doors up to 8' × 8' (2438 mm × 2438 mm) with mullions.
- Pairs require a mullion; pairs without a mullion typically use SVR/CVR devices.

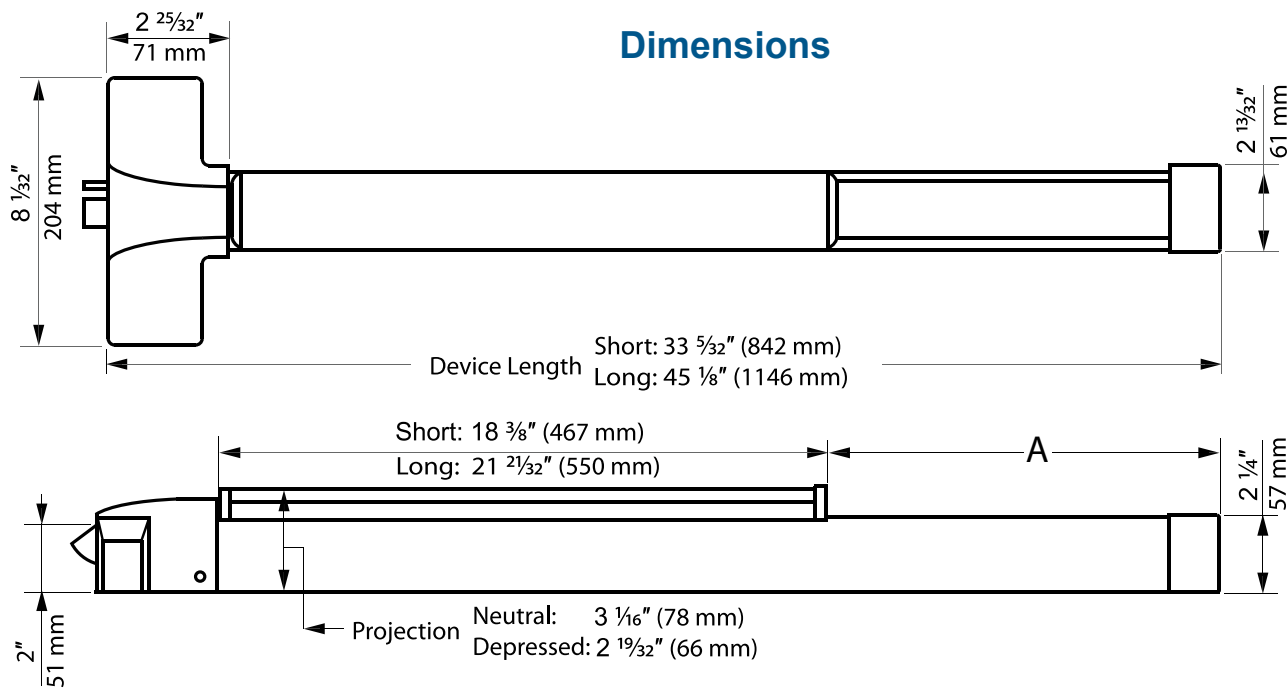
Ordering Information & Selection Guide

- When ordering, specify: device model (DH8610 or DH8810), panic-rated (S) or fire-rated (F), door width (36" or 48"), finish code, strike type (801 or 802), and dogging option (RD or ND).
- For fire-rated devices, remember that mechanical dogging (RD) is not available; use ND as required.
- For projects mixing rim and CVR devices, confirm that trims and cylinders are coordinated across all opening types.
- Example: DH8610S-36-RD-US32D-801

[Standard Template - PDF](#)

[Installation Instructions - PDF](#)

DIMENSIONS, DEVICE LENGTH & OUTSIDE TRIM OPTIONS



Device Length

Devices are supplied in nominal 36" (914 mm) and 48" (1219 mm) sizes. No field cutting is required when the device is installed on a full-width 36" or 48" door.

Short 36" – Device length is $33\frac{5}{32}$ " (842 mm); suitable for doors 29"–36" (736–914 mm) wide.

Long 48" – Device length is $45\frac{1}{8}$ " (1146 mm); suitable for doors 33"–48" (838–1219 mm) wide.

For narrower doors, field-cut at dimension "A" so that the finished device length does not exceed the door width minus 2" (51 mm). Follow the current manufacturer installation template before cutting.

For the standard device template and installation instructions, see page 79.

Compatible Outside Trim — 86P-5 Series

Model	Function	Exterior Operation	Required Cylinder
86P-5A	Classroom	Key locks and unlocks thumbpiece	$1\frac{1}{4}$ " mortise cylinder
86P-5B	Passage	Always active	No cylinder
86P-5C	Storeroom (Night Latch)	Key retracts latch bolt	Rim cylinder
86P-5D	Dummy	Pull only	No cylinder

Note: Cylinders are not furnished as standard and must be specified separately when required.

How to Specify? Example: DH8810S-36-86P-5A-RC-626

DH8810S: Device 36: Size 86P-5A: Trim series/configuration RC: Cylinder Type 626: BHMA Finish

Cylinder Options: RC = Regular Cylinder; IC = Interchangeable Core; NC = No Cylinder

For complete trim dimensions, finishes, cylinder requirements, templates, and ordering information, see page 89.

WIDE MORTISE LOCK EXIT DEVICES / GRADE 1

DH8620S / DH8820S — Panic-Rated Mortise Lock Exit Devices

DH8620F / DH8820F — Fire-Rated Mortise Lock Exit Devices



Applications

- DH8620S / DH8820S (Panic-Rated): Suitable for single doors and pairs of doors (use with mullions where required).
- DH8620F / DH8820F (Fire-Rated): For use on UL-listed fire-labeled doors. Fire door applications require self-latching operation; mechanical dogging is not permitted (ND).

Certifications

- **UL/cUL Listed:** Panic exit or 3-hour fire-exit hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Specifications

Device Length	Short (36"): 33 ⁵ / ₃₂ " (842 mm); Long (48"): 45 ¹ / ₈ " (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 ¹ / ₄ " (108 mm)
Latch Bolt	Stainless steel, two-piece, 3/4" (19 mm) throw, with anti-friction insert and auxiliary deadlocking latch
Strikes	Standard strikes: 818 (panic) / 828 (fire) — universal curved lip, non-handed. Optional flat ANSI strikes for pairs with overlapping astragal (7/8" lip): 831 (panic) / 832 (fire)
Dogging	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 80
Mounting Fasteners	Panic device: machine screws furnished as standard; SNB required for wood doors (order separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Electric Strikes	Compatible with ANSI/BHMA electric strikes (per frame preparation and handing)
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Projection	Pushbar neutral: 3 ¹ / ₁₆ " (78 mm); pushbar depressed: 2 ¹⁹ / ₃₂ " (66 mm)

Finishes

Standard finishes: US10B and US32D

Typical Use Cases

- Schools, offices, retail, and multi-tenant buildings
- High-traffic interior openings and perimeter egress doors (as permitted by door labeling and local codes).

Key Features

- Grade 1 heavy-duty construction
- Non-handed / field reversible handing
- Stainless steel latchbolt with auxiliary deadlatch
- Panic: RD standard; Fire: ND required
- Compatible with ANSI/BHMA electric strikes (prep dependent).

Ordering Information

- When ordering a Mortise Lock Exit Device, you must select a trim model and specify the lever design and finish. Examples:
DH8620S-36-RD-US32D-818
DH8620F-48-ND-US10B-828

[Installation Template - PDF](#)

WIDE STILE SVR EXIT DEVICES / GRADE 1



DH8630S / DH8830S — Panic-Rated Surface Vertical Rod (SVR) Exit Devices

DH8630F / DH8830F — Fire-Rated Surface Vertical Rod (SVR) Exit Devices

Certifications

- **UL/cUL Listed:** Panic Exit Hardware or 3-hour Fire Exit Hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Finishes

Standard finishes: US10B and US32D

Applications

- DH8630S / DH8830S (Panic-Rated SVR): For single doors and pairs of doors.
- DH8630F/DH8830F fire-rated SVR devices are intended for UL-listed fire-labeled pairs of steel doors up to 8' x 8' (2438 x 2438 mm). Mechanical dogging is not permitted on fire-rated devices.
- LBR note: These standard SVR models cannot be field-converted to Less Bottom Rod (LBR) devices by omitting the bottom rod. When LBR required, specify the appropriate DHLBR8630 or DHLBR8830 model.

Typical Use Cases

- Schools, offices, retail, and multi-tenant buildings.
- High-traffic interior openings and perimeter egress doors (as permitted by door labeling and local codes)

Door Height

- Standard door height: 7'; 8' option available.
- 9' and 10' door height applications require 10FT models.
- 10FT (Panic): 10FT-DH8630S / 10FT-DH8830S
- 10FT (Fire): 10FT-DH8630F / 10FT-DH8830F
- 10FT Fire-rated models must be UL listed/certified as required.

Highlights

- Grade 1 construction designed for demanding commercial openings.
- SVR configuration supports pairs without a mullion (project dependent).
- Clear panic vs fire-rated configurations for common egress requirements.
- Multiple finishes and device lengths to match building aesthetics.

Ordering Examples

DH8630S-36-RD-US32D-Top 812/Bottom 815-7'
DH8630F-36-ND-US10B-Top 822/Bottom 825-8'

RD = hex-key dogging (panic only).
ND = no mechanical dogging (fire required)

[Latch Template - PDF](#)

[Chassis Template - PDF](#)

[Installation Instructions - PDF](#)

Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw; held retracted during door swing
Strikes	Top: 812 (panic) / 822 (fire) Bottom: 815 (panic) / 825 (fire)
Dogging	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Templates / Info	See links at lower right
Mounting Fasteners	Panic-rated: machine screws standard for device; SNB furnished for top & bottom latches. Fire-rated: sex nuts and bolts (SNB) supplied as standard. For wood doors where SNB is required: order SNB separately.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard: 7'; 8' option available (see Door Height note for 10FT models)
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'-8' door heights. Bottom rod: one-piece; length 31 1/4"
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)

WIDE STILE LBR SVR EXIT DEVICES / GRADE 1

DHLBR8630S / DHLBR8830S — Panic-Rated Less Bottom Rod (SVR) Exit Devices DHLBR8630F / DHLBR8830F — Fire-Rated Less Bottom Rod SVR Exit Devices



Certifications

- **Warnock Hersey Listed:** Panic Exit Hardware
- **UL/cUL Listed:** 3-hour Fire Exit Hardware
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Compliance Note

These LBR devices have been re-tested and evaluated by nationally recognized testing laboratories. LBR devices have been re-tested or approved by two nationally recognized testing laboratories. Fire-rated LBR devices must be used with a UL-listed Fire Latch Bolt, Model FL001; see page 73.

LBR Advantages

- Eliminates the exposed bottom rod and bottom latch, reducing floor-level trip and obstruction hazards
- Preferred for high-traffic corridors, carts, and housekeeping equipment
- Fire-rated applications must maintain self-latching per code
- Confirm strikes/frame prep before ordering

Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically.
Strikes	Top: 812 (panic), 822 (fire), 866 (panic or fire)
Dogging	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Templates / Instructions	Access the Chassis Template, Latch Template, and Installation Instructions using the links at the lower right of page 82.
Mounting Fasteners	Panic device: Machine screws furnished as standard. Fire-rated device: Sex nuts and bolts (SNB) furnished as standard hardware. Wood doors: SNB required; order separately as applicable. Follow the installation template for required fastener locations.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' is available. For door heights exceeding 8', specify the height.
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'–8' door heights.
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)

Applications

- Panic-Rated LBR (DHLBR8630S / DHLBR8830S): For single doors and pairs of doors.
- Fire-Rated LBR (DHLBR8630F / DHLBR8830F): DHLBR8630F/DHLBR8830F fire-rated LBR devices are intended for UL-listed fire-labeled pairs of steel doors up to 8' x 8' (2438 x 2438 mm). Mechanical dogging is not permitted.

Finishes

Standard finishes: US10B and US32D

Typical Use Cases

- Hospitals
- Supermarkets
- Corridors/passage doors
- High-traffic openings

Ordering Examples

- DHLBR8630S–36–RD–US32D–Top 812
- DHLBR8630F–36–ND–US10B–Top 822

RD = hex-key dogging (panic only).
ND = no mechanical dogging (fire required)

WIDE CONCEALED VERTICAL ROD EXIT DEVICES / GRADE 1

DH8650S / DH8850S — Panic-Rated Concealed Vertical Rod (CVR) Exit Devices

DH8650F / DH8850F — Fire-Rated Concealed Vertical Rod (CVR) Exit Devices

Certifications

- **UL/cUL Listed:** Panic Exit Hardware or 3-hour Fire Exit Hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Applications

- **Panic-Rated CVR (DH8650S / DH8850S):**
For single doors and pairs of doors
- **Fire-Rated CVR (DH8650F / DH8850F):**
For UL-listed fire-labeled doors
(as permitted by door labeling and local codes).
Fire door applications require self-latching operation;
mechanical dogging is not permitted (ND).
- These CVR models are not available in LBR
(Less Bottom Rod) configuration

Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw; held retracted during door swing
Strikes	Top: 813 (panic) / 823 (fire) Bottom: 815 (panic) / 825 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND).
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 80
Mounting Fasteners	Panic-rated: Machine screws standard; SNB as required by door type/prep. Fire-rated: SNB as required by door type/prep (supplied standard where applicable).
Mounting Height	Device centerline 40" (1016 mm) standard
Door Opening Height	Standard: 7'; 8' option available
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'–8' door heights. Bottom rod: one-piece; length 31 1/4" (794 mm)
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)



Door Height

- 7' standard; 8' option available.
- 9' and 10' door heights require 10FT models.
- 10FT (Panic): 10FT-DH8650S / 10FT-DH8850S
- 10FT (Fire): 10FT-DH8650F / 10FT-DH8850F
(UL listed/certified as required)

Finishes

Standard finishes: US10B and US32D

Typical Use Cases

- Hospitals
- Schools
- Retail
- Multi-tenant buildings
- High-traffic egress doors

Cross-References

- Compatible trims & cylinders: see page 87-89
- SVR wide stile: see page 82

Ordering Examples

- DH8650S-36-RD-US32D-Top 813/Bottom 815-7'
- DH8650F-36-ND-US10B-Top 823/Bottom 825-8'

RD = hex-key dogging (panic only).

ND = no mechanical dogging (fire required)

[Top Door Frame & Edge - PDF](#)

[CVR Dimension Template - PDF](#)

[CVR Device Mounting Figures - PDF](#)

[Chassis Template - PDF](#)

[Bottom Edge of Door & Floor - PDF](#)

[Installation Instructions - PDF](#)

WOOD DOOR CVR EXIT DEVICES / GRADE 1

DHWD8650S / DHWD8850S — Panic-Rated Wide Wood Door CVR Exit Devices

DHWD8650F / DHWD8850F — Fire-Rated Wide Wood Door CVR Exit Devices

Certifications

- **UL/cUL Listed:** Panic Exit Hardware or 3-hour Fire Exit Hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

Applications

- **Panic-Rated CVR (DHWD8650S / DHWD8850S):**
For wood single doors and pairs of doors (door/frame preparation dependent).
- **Fire-Rated CVR (DHWD8650F / DHWD8850F):**
For UL-listed fire-labeled doors
(as permitted by door labeling and local codes).
Fire door applications require self-latching operation;
mechanical dogging is not permitted (ND).
- These CVR models are not available in LBR
(Less Bottom Rod) configuration

Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw; held retracted during door swing
Strikes	Top: 813 (panic) / 823 (fire) Bottom: 815 (panic) / 825 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND).
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 80
Mounting Fasteners	Panic-rated: Machine screws standard; SNB as required by door type/prep. Fire-rated: SNB as required by door type/prep (supplied standard where applicable).
Mounting Height	Device centerline 40" (1016 mm) standard
Door Opening Height	Standard: 7'; 8' option available
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'–8' door heights. Bottom rod: one-piece; length 31 1/4" (794 mm)
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)



Door Height

- 7' standard; 8' option available.
- 9' and 10' door heights require 10FT models.

For 9' and 10' doors, specify 10FT models:

- 10FT (Panic): 10FT-DHWD8650S / 10FT-DHWD8850S
- 10FT (Fire): 10FT-DHWD8650F / 10FT-DHWD8850F
(UL listed/certified as required)

Reinforced Plates

Includes (2) reinforced plates for wood-door top and bottom reinforcement.

Finishes

Standard finishes: US10B and US32D

Typical Use Cases

- Hospitals
- Schools
- Retail
- Multi-tenant buildings
- High-traffic egress doors

Cross-References

- Compatible trims & cylinders: see page 87-89
- SVR wide stile: see page 82

Ordering Examples

- DHWD8650S–36–RD–US32D–Top 813/Bottom 815–7'
- DHWD8650F–36–ND–US10B–Top 823/Bottom 825–8'

RD = hex-key dogging (panic only).
ND = no mechanical dogging (fire required)

ELECTRIFIED ALARM EXIT DEVICES



All DH8000 Series exit devices can be equipped with an alarm option to deter unauthorized egress; when actuated, the device sounds an audible alarm and displays 'EMERGENCY EXIT ONLY / PUSH TO OPEN / ALARM WILL SOUND' on the touchbar.

Power + Types

The alarm option is powered by a 9-volt battery and is available in two modes:

- **Type A — Monitors: pushbar**

Alarm sounds when the pushbar is depressed. Recommended for exit-only openings without outside trim.

- **Type B — Monitors: pushbar + latch bolt**

Alarm sounds when the pushbar is depressed or when the latch is retracted by outside trim.

Ordering Format + Examples

Ordering Format: AL + (base model) + (A or B) + (device length: 36 or 48) + (finish code)

Examples (format illustration):

- AL8810SA-36-630 (Example meaning: Panic-Rated Rim Exit Device + Type A Alarm, 36", 630)
- AL8830SB-48-626 (Example meaning: Panic-Rated SVR Exit Device + Type B Alarm, 48", 626)

Note: When a panic-rated device is configured with the alarm option, mechanical dogging is not available.

Delayed Egress Exit Device

Delayed egress is code-controlled and available only where permitted. Delay time and signaling depend on code requirements and approved hardware configuration. The delayed egress exit device can provide a controlled egress for opening. When the exit device is in the arming stage, it will deny exit to unauthorized persons for 15 - 30 seconds. If depressed for 3 seconds or longer, the device will sound a local and a remote audible alarm. The remote monitor signal will alert the security personnel. The delayed egress device is furnished with a sticker in red letters which states:

EMERGENCY EXIT ONLY
PUSH UNTIL ALARM SOUNDS
DOOR CAN BE OPENED IN 15 SECONDS

When the exit device is in the arming mode, turning the key clockwise to the bypass position will allow authorized personnel to exit for maintenance or egress without sounding the alarm. If the exit device is in the arming mode, turn the key switch counterclockwise to the reset position and it will release the device without sounding the alarm for egress and will rearm after 10 seconds.

SQUARE ESCUTCHEON LEVER TRIMS / EXIT DEVICES

Square Outside Trims (Exit Device Trims)

Model 88L and 88E Series — Escutcheon Lever Trims (Square Design)

Features

- Non-handed; installs easily with compatible exit devices.
- Smooth lever operation supports convenient one-handed use.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- 88L escutcheons are forged bronze; levers are zinc alloy castings.
- Trim mounts with (4) through-bolts directly to the device chassis for added security and durability.
- Standard door thickness: 1 3/4" (44 mm).
- For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted exit devices, specify door thickness when ordering.
- Anti-vandal design helps protect the trim from damage when the lever is locked/unlocked by key.

Models and Functions

Operation Options	Key Locks & Unlocks Lever	Lever Always Active (No Cylinder)	Key Retracts Latch Bolt (Rigid Lever)	Pull Only (Dummy)
Ordering: choose function + finish + cylinder				
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Escutcheon Lever	Dummy Escutcheon Lever
Model Number and Use	88L01A	88L01B	88L01C	88L01D
	88L for Rim, Surface/Concealed Vertical Rod and LBR Exit Devices Use Escutcheon Plate Size: 9 7/16" x 2 15/16" x 13/16" (240 mm x 75 mm x 21 mm)			
	88E01A	88E01B	88E01C	88E01D
	88E for Mortise Lock Exit Devices Use Only Escutcheon Plate Size: 8" x 2 9/16" x 1/2" (203 mm x 65 mm x 12.5 mm)			
ANSI Function No.	08	14	09	02
Cylinder Type	1 1/4" Mortise	—	Rim	—

- Specify function (01A/01B/01C/01D), finish, and cylinder type (DH426/DH526) when required.
- Handing: Non-handed. Specify function and cylinder type when required.
- When keyed trim is required, cylinders may be supplied by other manufacturers per project requirements.
- Cylinder is not furnished as standard. Specify cylinder type when required:
 - Rim cylinder (DH426) or Mortise cylinder (DH526), or Less cylinder (no cylinder).
 - Specify keyway / keying requirements (KA/KD/MK/GMK as applicable).

Cylinder Selection (Two Types)



ROUND ESCUTCHEON LEVER TRIMS / EXIT DEVICES

Round Outside Trims (Exit Device Trims)

Model 89L and 89E Series — Escutcheon Lever Trims (Round Design)

Features

- Non-handed; installs easily with compatible exit devices.
- Smooth lever operation supports convenient one-handed use.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Freewheeling clutch design helps protect the trim: lever rotates when locked to reduce forced-entry damage.
- Trim mounts with (4) through-bolts directly to the device chassis for added security and durability.
- Standard door thickness: 1 ¾" (44 mm).
- For 2" (51 mm) and 2 ¼" (57 mm) doors, or shim-mounted exit devices, specify door thickness when order.
- Anti-vandal design helps protect the trim from damage when the lever is locked/unlocked by key.

Models and Functions

Operation Options	Key Locks & Unlocks Lever	Lever Always Active (No Cylinder)	Key Retracts Latch Bolt (Rigid Lever)	Pull Only (Dummy)
Ordering: choose function + finish + cylinder				
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Escutcheon Lever	Dummy Escutcheon Lever
Model Number and Use	89L01A	89L01B	89L01C	89L01D
	89L* for Rim, Surface/Concealed Vertical Rod and LBR Exit Devices Use			
	89E01A	89E01B	89E01C	89E01D
	89E* for Mortise Lock Exit Devices Use Only			
Escutcheon Plate Size	Same for 89L* and 89E*: 10 1/16" × 2 15/16" × 15/16" (255 mm × 75 mm × 24 mm)			
ANSI Function No.	08	14	09	02
Cylinder Type	1 ¼" Mortise	—	Rim	—

- To meet keying requirements, cylinders may be supplied by other manufacturers per project specification.
- Cylinder is not furnished as standard. Specify cylinder option when required: Rim cylinder (DH426 or equivalent); Mortise cylinder (DH526 or equivalent); IC (interchangeable core), if applicable; NC (no cylinder).
- 88E or 89E Series trims are for mortise lock exit devices only and are packaged with the mortise lock exit device when ordered (not sold separately).

Order Information

Example format (varies by device series)

DH8820S-36-89E-17-A-RC-626

Device Model No. _____
 Device Length _____
 Trim Model No. _____

_____ BHMA Finish Code
 _____ Cylinder Type
 _____ Function Code
 _____ Lever Design

Function Code:

- A-Classroom
- B-Passage
- C-Storeroom
- D-Dummy

SQUARE PULL PLATE OUTSIDE TRIMS / EXIT DEVICES

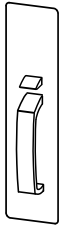
Square Pull Plate Outside Trims (Exit Device Trims)

Model 86P Series / Pull Plates — For Wide Stile Exit Devices (Square Design)

Features

- Non-handed; installs easily with compatible exit devices.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Trim mounts with (4) through-bolts directly to the device chassis for improved security and durability.
- Standard door thickness: 1 3/4" (44 mm).
- For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted applications, specify door thickness when ordering.

Models and Functions

Operation Options Ordering: choose function + finish + cylinder	Key Locks & Unlocks Thumbpiece 	Thumbpiece Always Active (No Cylinder) 	Key Retracts Latch Bolt 	Pull Only (Dummy) 
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Pull Plate with Thumbpiece	Blank Pull Plate with Thumbpiece	Cylinder Pull Plate	Dummy Pull Plate
Model Number and Use	86P-5A	86P-5B	86P-5C	86P-5D
	86P-5* for Rim, Surface Vertical Rod and LBR Exit Devices Use			
	86P-6A	86P-6B	86P-6C	86P-6D
	86P-6* for Concealed Vertical Rod Exit Devices Use Only			
Escutcheon Plate Size	14 1/16" x 3" x 3/32" (373 mm x 76 mm x 2 mm)		14" x 3" x 3/32" (355 mm x 76 mm x 2 mm)	
ANSI Function No.	05	15	03	02
Cylinder Type	1 1/4" Mortise	—	Rim	—

- To meet keying requirements, cylinders may be supplied by other manufacturers based on project specifications/availability.
- Cylinder is not furnished as standard. Specify cylinder option when required: Rim cylinder (DH426 or equivalent); Mortise cylinder (DH526 or equivalent); IC (interchangeable core), if applicable; NC (no cylinder).

Order Information

Example format (varies by device series)

DH8810S-36-86P-5A-RC-626

Device Model No. _____
 Device Length _____
 Trim Model No. _____
 _____ BHMA Finish Code
 _____ Cylinder Type
 _____ Function Code

Function Code:

- A-Classroom
- B-Passage
- C-Storeroom
- D-Dummy

To order the 86P Series Trims: Specify model series number, trim designation, function code (A, B, C, D), cylinder type and BHMA finish code.

SQUARE PULL PLATE OUTSIDE TRIMS / EXIT DEVICES

Square Pull Plate Outside Trims (Exit Device Trims)

Model 84P and 84E Series / Pull Plates — For Narrow Stile Exit Devices (Square Design)

Features

- Non-handed; installs easily with compatible exit devices.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Trim mounts with (4) through-bolts directly to the device chassis for improved security and durability.
- Standard door thickness: 1 3/4" (44 mm).
- For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted applications, specify door thickness when ordering.

Models and Functions

Operation Options Ordering: choose function + finish + cylinder	Key Locks & Unlocks Thumbpiece 	Thumbpiece Always Active (No Cylinder) 	Key Retracts Latch Bolt 	Pull Only (Dummy) 
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Pull Plate with Thumbpiece	Blank Pull Plate with Thumbpiece	Cylinder Pull Plate	Dummy Pull Plate
Model Number and Use	84P-5A	84P-5B	84P-5C	84P-5D
	84P-5* for Rim, Surface Vertical Rod and LBR Exit Devices Use			
	84P-6A	84P-6B	84P-6C	84P-6D
	84P-6* for Concealed Vertical Rod Exit Devices Use Only			
Escutcheon Plate Size	14 11/16" x 1 25/32" x 3/32" (373 mm x 45 mm x 2 mm)		14" x 1 25/32" x 3/32" (355 mm x 45 mm x 2 mm)	
ANSI Function No.	05	15	03	02
Cylinder Type	1 1/4" Mortise	—	Rim	—

- To meet keying requirements, cylinders may be supplied by other manufacturers based on project specifications/availability.
- Cylinder is not furnished as standard. Specify cylinder option when required: Rim cylinder (DH426 or equivalent); Mortise cylinder (DH526 or equivalent); IC (interchangeable core), if applicable; NC (no cylinder).
- 84E Series trims are for mortise lock exit devices only and are not sold separately. When ordering an 84E trim, it must be packaged with a mortise lock exit device (ordered together).

Pull Plate Template

Installation Instructions

Order Information

Example format (varies by device series)

DH8510S-36-84P-5A-RC-626

Device Model No. _____ BHMA Finish Code _____
 Device Length _____
 Trim Model No. _____ Function Code _____

Function Code:

- A-Classroom
- B-Passage
- C-Storeroom
- D-Dummy

To order the 84P Series Trims: Specify model series number, trim designation, function code (A, B, C, D), cylinder type and BHMA finish code.

DH7000 Series — Keyed Removable Mullions

Designed for use with DH5000 and DH8000 rim exit devices on pairs of doors (non-fire-rated or fire-rated, as applicable). The keyed top bracket allows quick mullion removal using a rim cylinder key—ideal when a clear opening is needed for carts, gurneys, forklifts, or large equipment.

When reinstalled, the mullion assembly locks back into position. Cylinder requirements vary by application; specify the required cylinder type when ordering.

Non-Fire Rated Keyed Removable Mullions, Model 7100

For use with panic-rated rim exit devices on non-fire-rated pairs of doors.

Specifications

Mullion Tube	2" (51 mm) wide × 3" (76 mm) deep; wall thickness 1/8" (3 mm); 11-gauge steel tube
Mullion Size	<ul style="list-style-type: none"> • 7 ft (2134 mm), 8 ft (2438 mm), or 10 ft (3048 mm) (three sizes); • Mullion may be field-cut to size
Rim Cylinder	Use a 1 1/4" (31.75 mm) solid brass 6-pin rim cylinder, Model 426; or an interchangeable core (IC), Model 308 (sold separately)
Top Bracket	<ul style="list-style-type: none"> • 7100: Steel; keyed top bracket allows the mullion to be removed in seconds. • Mullion can be secured in the top bracket without using the key after installation.
Bottom Bracket	Steel; secured with four (4) hex bolts and stainless steel anchors
Shims	1/2" (13 mm) and 5/8" (16 mm) shims included
Fasteners	<ul style="list-style-type: none"> • (2) Flat head machine screws, #5/16"-18 × 1-1/2", zinc-plated steel • (4) Flat head machine screws, #5/16"-18 × 5/8", zinc-plated steel • (4) Hex head machine screws, #5/16"-18 × 1-1/2", black steel • (4) Expansion anchors, #5/16"-18, non-ferrous alloy.
Strikes	Use two (2) standard rim strikes (801), not included
Finish	Available in gray or black powder coating

Fire-Rated Keyed Removable Mullions, Model 7200

For use with fire-rated rim exit devices on fire-rated pairs of doors.

Specifications

Mullion Tube	2" (51 mm) wide × 3" (76 mm) deep; wall thickness 1/8" (3 mm); 11-gauge steel tube
Mullion Size	<ul style="list-style-type: none"> • 7 ft (2134 mm), or 8 ft (2438 mm) • Mullion may be field-cut to size
Rim Cylinder	Use a 1 1/4" (31.75 mm) solid brass 6-pin rim cylinder, Model 426; or an interchangeable core (IC), Model 308 (sold separately)
Top Bracket	<ul style="list-style-type: none"> • Stainless steel; keyed top bracket allows the mullion to be removed in seconds. • Mullion can be secured in the top bracket without using the key after installation.
Bottom Bracket	Steel; secured with four (4) hex bolts and stainless steel anchors
Shims	1/2" (13 mm) and 5/8" (16 mm) shims included
Fasteners	<ul style="list-style-type: none"> • (2) Flat head machine screws, #5/16"-18 × 1-1/2", stainless steel • (4) Flat head machine screws, #5/16"-18 × 5/8", stainless steel • (4) Flat head machine screws, #5/16"-18 × 1-1/4", stainless steel • (4) Expansion anchors, #5/16"-18, steel
Strikes	Use two (2) sets of mullion strikes (688) and strike hooks (689), sold separately
Finish	Available in gray or black powder coating

QUIET DUO™ LR100 SERIES / EXIT DEVICES

700 mA Dual Latch Retraction / Dogging Kit

Quiet Duo™ LR100 Series

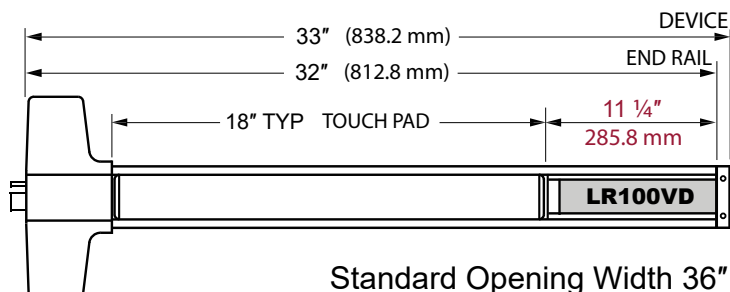


- Factory-installed kits are UL Listed
- Field-Retrofit Kits are UL Classified

For use with 3-hour fire-rated and non-fire-rated mechanical exit devices (as permitted by listing).
24 VDC: 700 mA inrush / 200 mA continuous.
Provides simultaneous latch retraction; dogging (hold-open) is model- and application-dependent.

The Quiet Duo™ LR100 Series electric latch retraction kit enables electric access control and (where permitted) dogging of mechanical exit devices. When energized, the motor retracts the latch and pulls the pushpad into the depressed position, enabling momentary or sustained push/pull operation.

Latch retraction can be triggered by an access control system, remote control device, or building automation system. The exit device continues to provide uninhibited egress at all times.



Field-Installed Retrofit Kit

- UL Classified for use with 3-hour fire-rated and non-fire-rated exit devices.

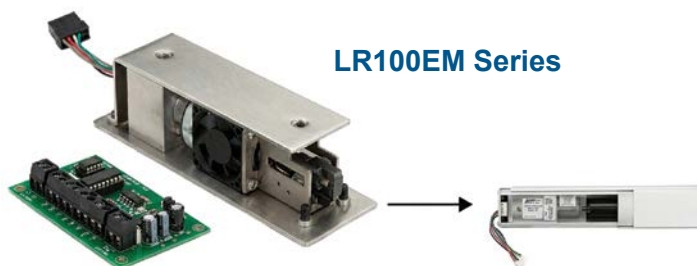
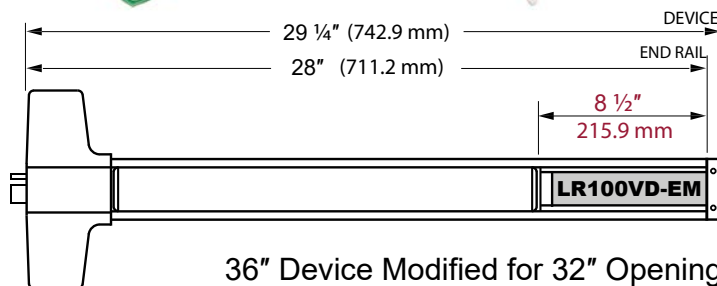
DH Factory-Installed Kit

- UL Listed for use with 3-hour fire-rated and non-fire-rated exit devices.
- Distributor ships the exit device to DH for kit installation.

Features

- 700 mA inrush, 200 mA continuous @ 24 VDC
- For access control and sustained dogging applications
- Simultaneous latch retraction; dogging (pushpad depressed) on compatible devices (model-dependent)
- Electrically depresses the pushpad for quieter push/pull operation
- Automatic re-trigger on designated models if the device does not pull on the first attempt
- Helps avoid costly replacement of existing exit devices
- Lower labor and cost compared with typical retrofit kits
- Low current allows longer wire runs using smaller gauge wire
- No door sequencers required for pairs of manual doors in many applications
- Installs in select Von Duprin non-fire-rated panic devices without removing the device from the door (model-dependent)
- Compatibility varies by device model and fire rating —confirm prior to order

LR100EM Series



Available for These Brands

DH	TownSteel	Marshall Best
Von Duprin	Arrow	Sargent
Yale	PHI	SDC
Corbin Russwin	Falcon	Detex
Dor-O-Matic	Cal-Royal	Dorma
Hager	PDQ	Jackson
Adams Rite	Falcon IR	Stanley K2

How to Specify (Quick Guide)

Select Voltage + Exit Device Brand/Series + Fire Rating + Kit Type (Field Retrofit or Factory Installed) + Options (e.g., REX/ Latch Status).

Example:
24 VDC / Von Duprin 99 (Non-Fire) / Field Retrofit ELR / REX option

See the Ordering Matrix on the next pages for part numbers.

LR100™ ORDERING INFORMATION — MAJOR BRANDS & SERIES (1)

Use these tables to select the correct LR100 latch retraction/dogging kit by brand/series and door opening width.

DIRECT HARDWARE 8000 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100DHK	LR100DH
30"	LR100DHK-EM	LR100DH-EM
Options		
LRDH1L	Latch Status Kit	
LRDH1R	Pushpad/Dogging Status or REX Status Kit	

DH 8000 SERIES — MODEL NUMBERS

Standard Stile	Device Type	Narrow Stile
8610/8810	Rim Mount	8510/8710
8630/8830	Surface Vertical Rod	8530/8730
8620/8820	Mortise	—
8650/8850	Concealed Vertical Rod	8550/8750

Note: Use this crosswalk to confirm standard vs. narrow-stile model numbers by device type. Narrow-stile availability varies by application—verify before ordering.

VON DUPRIN 22 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100VDK-22	LR100VD-22
30"	LR100VDK-22-EM	LR100VD-22-EM
Models		
22	Rim Mount	
2227	Surface Vertical Rod	
Options		
LRVD1L	Latch Status Kit for 22 Series	
LRVD2R	REX Status or Pushpad/Dogging Status for 22 Series	

YALE 7000 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36"	LR100YDK	LR100YD
30"	LR100YDK-EM	LR100YD-EM
42" – 48"	LR100YDK-42/48	LR100YD-42/48
Models		
7100, 7102, 7200		Rim Mount
7110, 7210		Surface Vertical Rod
7120, 7220		Concealed Vertical Rod
Options		
LRY1L	Latch Status Kit	
LRY1R	REX Status Kit	

Note: Select the kit by opening width first, then confirm device function and fire rating. Options shown are kit add-ons—confirm compatibility with the exact model.

VON DUPRIN 98/99 & 33/35 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100VDK	LR100VD
30"	LR100VDK-EM	LR100VD-EM
Models		
98 / 99	33A / 35A	Rim Mount
9827 / 9927	3327A / 3527A	Surface Vertical Rod
9847 / 9947	3347A / 3547A	Concealed Vertical Rod
9875 / 9975	—	Mortise
9857 / 9957	—	Three Point latching

CORBIN RUSSWIN • ED SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36"	LR100CRK	LR100CR
30"	LR100CRK-EM	LR100CR-EM
42" – 48"	LR100CRK-42/48	LR100CR-42/48
Models		
ED5200 / ED4200		Rim Mount
ED5400		Surface Vertical Rod
ED4800 / ED5800		Concealed Vertical Rod
Options		
LRCR1L	Latch Status Kit	
LR1Y1R	REX Status Kit	

Note: 42"–48" kits are opening-specific—order only when the device is built for that opening range. Confirm model, trim, and handing prior to release.

DORMA EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36"	LR100DAK	LR100DA
Models		
9300 / F9300	Rim Mount	
9400 / F9400	Surface Vertical Rod	

LR100™ ORDERING INFORMATION — MAJOR BRANDS & SERIES (2)

HAGER 4500 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100HK	LR100H
30"	LR100HK-EM	LR100H-EM
Models		
4501 - Rim	Rim Mount	
4501 - SVR	Surface Vertical Rod	
Options		
LRH1L	Latch Status Kit	
LRH1R	Pushpad/Dogging Status or REX Status Kit	

ADAMS RITE EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100ARK	LR100AR
30"	LR100ARK-EM	LR100AR-EM
Models		
8700** / 8800 / 3700	Rim Mount	
8100 / 8200 / 3100	Surface Vertical Rod	
8500 / 8600 / 3600	Concealed Vertical Rod	
Options		
LRARIR	REX Status Kit	

STANLEY K2 QED SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100K2K	LR100K2
30"	LR100K2K-EM	LR100K2-EM
Models		
QED111	Rim Mount	
QED114	Surface Vertical Rod	
QED124	Concealed Vertical Rod	
Options		
LRK2R	Latch Status & REX Status or Pushpad/Dogging Status Kit	

ARROW 1000 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100AWK	LR100AW
Models		
S1250	Rim Mount	
S1150	Surface Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100AWK-ED910	LR100AW-ED910
Models		
ED910	Rim Mount	

TOWNSTEEL ED1100 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100TSK	LR100TS
30"	LR100TSK-EM	LR100TS-EM
Models		
ED1100	Rim Mount	
ED1200	Surface Vertical Rod	
ED1300	Concealed Vertical Rod	
Options		
LRTS1R	REX Status or Pushpad/Dogging Status Kit	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100TSK-55/56	LR100TS-55/56
Models		
ED5500	Rim Mount	
ED5600	Surface Vertical Rod	
Options		
LRTS2R	REX Status or Pushpad/Dogging Status Kit	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100TSK-65/67	LR100TS-65/67
Models		
ED6500	Rim Mount	
ED6700	Surface Vertical Rod	

PHI (PRECISION HARDWARE) EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100PDK	LR100PD
Models		
2100 / 2400	Rim Mount	
2200 LBR	Surface Vertical Rod	
2800 LBR / 2600	Concealed Vertical Rod	
5100	Rim Mount	
5200 LBR	Surface Vertical Rod	
Options		
LRP1L	Latch Status Kit for PHI Rim2000 Series	
LRP2L	Concealed Vertical Rod	
LRP1R	REX Status or Pushpad/Dogging Status for PHI 2000	

TELL MFG. EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100TEK	LR100TE
Models		
9500	Rim Mount	
9400	Surface Vertical Rod	

FALCON DOR-O-MATIC EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100FAK	LR100FA
30"	LR100FAK-EM	LR100FA-EM
Models		
1790	Rim Mount	
1690	Concealed Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100DMK	LR100DM
Models		
1590	Rim Mount	
1490	Concealed Vertical Rod	

CAL-ROYAL EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100CAK	LR100CA
Models		
7700 / F7700	Rim Mount	
7760 / F7760	Surface Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100CAK-9800	LR100CA-9800
Models		
GLS9800	Rim Mount	
GLSCVR9800	Concealed Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
30"	LR100CAK-EM	LR100CA-EM
Models		
2200 / F2200 / 9800 / F9800	Rim Mount	
2260 / F2260 / 9860 / F9860	Surface Vertical Rod	

SDC 6000 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100SDCK	LR100SDC
30"	LR100SDCK-EM	LR100SDC-EM
Models		
S6100	Rim Mount	
S6200	Surface Vertical Rod	
S6300	Mortise	
S6800	Concealed Vertical Rod	
Models		
LRSDC1L	Latch Status Kit	
LRSDC1R	Pushpad/Dogging Status or REX Status Kit	

FALCON 24/25 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100FRK	LR100FR
Models		
25-R / F-25-R 24-R / F-24-R	Rim Mount	
25-V / F-25-V 24-V / F-24-V	Surface Vertical Rod	
25-C / F-25-C 24-C / F-24-C	Concealed Vertical Rod	

MARSHALL BEST EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100MBSK	LR100MBS
30"	LR100MBSK-EM	LR100MBS-EM
Models		
Q1100 / QF1100	Rim Mount	
Q1200 / QF1200	Surface Vertical Rod	

PDQ EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100PDQK	LR100PDQ
Models		
6200R	Rim Mount	
6200V	Surface Vertical Rod	

TELL EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100TEK	LR100TE
Models		
9500	Rim Mount	
9400	Surface Vertical Rod	

JACKSON 2000 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100JAK	LR100FR
Models		
2095	Rim Mount	
2085	Concealed Vertical Rod (top latch)	
2086	Concealed Vertical Rod (top latch)	

LR100™ ORDERING INFORMATION— BRANDS (4) & ACCESSORIES

DETEX EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100DXK	LR100DX
Models		
10 / 40 Series	Rim Mount	
20 / 50 Series	Surface Vertical Rod	
80 / 81 / 62 / 63 Series	Concealed Vertical Rod	
Options		
LRDX1R	REX Status Kit	

SARGENT EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100SGK	LR100SG
30"	LR100SGK-EM	LR100SG-EM
Models		
8500 / 8800	Rim Mount	
8700	Surface Vertical Rod	
8400 / 8600	Concealed Vertical Rod	
8300 / 8900	Mortise	
Options		
LRSG2R	Latch Status & REX Status or Pushpad/Dogging Status Kit	

MARKS EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100MDK	LR100MD
Models		
M9900	Rim Mount	
M9900VR	Surface Vertical Rod	

PAMEX EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100PAK	LR100PA
30"	LR100PAK-EM	LR100PA-EM
Models		
EF9000	Rim Mount	
EF9000V	Surface Vertical Rod	
EF9020V	Concealed Vertical Rod	

ACCESSORIES (Applies to all LR100 kits)

1) Power Supplies (UL 294)

- **602RF** — 1 Amp Power Supply, UL 294 Listed, for 1–2 exit devices
- **632RF** — 2 Amp Power Supply, UL 294 Listed, for 3–4 exit devices

2) Door Sequencing / Control Modules

- **EMC** — 2 Station Automatic Door Sequence; Each EMC provides interface and sequencing for two single or one double automatic door

3) Electrified Hinges (Power Transfer Hinges)

- **PTH-4Q** — 4-wire Electric Hinge, 1 Amp max UL 10B
- **PTH-4QDPS** — 4-wire, Electric Hinge 1 Amp max UL 10B. With concealed Door Status Contact
- **PTH-2+4Q** — 6-wire electric hinge (listed as 1-pair 16A inrush + 4A continuous; plus additional pairs @ 12/24V)

4) Power Transfer Hinges / Multi-Conductor Transfer Devices

- **PTH-10Q** — Ten (10) Conductor Power Transfer Hinge, 1 Amp @ 12/24V per pair
- **PTM-2AL** — Two (2) Conductor Power Transfer Device: Two (2) 18 Ga. wires 5 Amp @ 12/24V AC/DC, Aluminum Powder Coat, US28 equivalent
- **PTM-2BZ** — Two (2) Conductor Power Transfer Device: Two (2) 18 Ga. wires 5 Amp @ 12/24V AC/DC, Dark Brown Powder Coat, US10B equivalent
- **PTM-10AL** — Ten (10) Conductor Power Transfer Device: Ten (10) 24 Ga. wire 1 Amp @ 12/24V AC/DC, Aluminum Powder Coat, US28 equivalent
- **PTM-10BZ** — Ten (10) Conductor Power Transfer Device: Ten (10) 24 Ga. wire 1 Amp @ 12/24V AC/DC, Dark Brown Powder Coat, US10B equivalent

5) Concealed Mortise Power Transfer (Fire Door Accessory)

- **PT-5** — Concealed mortise power transfer device, UL 10B fire door accessory

6) Door Loops / Surface Wire Transfer

- **PT-3V** — Stainless steel door loop with surface wire junction

7) Signaling / Indicator Components

- **400U-L2** — Two LEDs, specify lens color, standard finish, 1-gang plate
- **400NU-L2** — Two LEDs, specify lens color, standard finish, narrow plate

Ordering Notes (for Accessories)

- Confirm voltage/current (12/24V; inrush/continuous; amps) and match accessory ratings to all electrified hardware on the opening.
- Verify code/listing needs (e.g., UL 294, UL 10B/10C) and any local requirements.
- Choose the right power transfer method (electric hinge / transfer hinge / mortise transfer / door loop) based on door/frame conditions and aesthetics.
- Confirm conductor count for power + signals (REX, latch status, DPS, LEDs) and add spares if future expansion is likely.
- For paired doors/auto operators, confirm sequencing module compatibility and coordinate with the access control/auto-door integrator.
- For LED indicators, specify lens color and plate type (standard vs narrow) and confirm behavior with the control system.
- Before release, verify handling, trim, and prep—especially for hinges/transfers. When unsure, send full opening details (brand/series, model, width, function, fire rating, voltage, required options).

NON-LATCHING SWITCH BAR / EXIT DEVICES

DHMSB550 — Mechanical Switch Bar

Building codes generally require that egress through access-controlled openings does not require prior knowledge or special operation. The DHMSB550 helps meet this requirement by releasing electromagnetic locks for immediate, uninhibited egress. Light pressure actuates an internal mechanical switch to release the maglock—fast, quiet operation.

Features

- UL Listed (as applicable)
- Alarm shunt
- Magnetic lock release
- Delayed egress trigger
- Access control request-to-exit (REX)
- CCTV or alarm activation
- Burglary-resistant construction



Listed 4J82

Access Control Systems Unit
Burglary Resistant Electronic
Locking Mechanism



CSFM Listed
Exit Door
Accessories

Bar Movement: 1/8" Total (0.125", 3.2 mm)

The DHMSB550 requires only 1/8" total movement to trigger activation. This short travel helps deliver fast response and quiet operation.

Construction / Heavy Duty

The DHMSB550 features a heavy-duty aluminum extrusion with rugged end caps. The all-metal mounting assembly helps prevent malfunction due to door sag, warpage, or misalignment—including in glass-door stile applications.

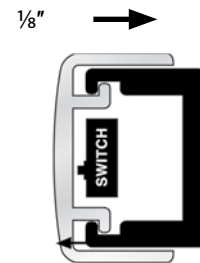
Narrow Profile / Minimum Projection

With a narrow profile and only 1-7/8" (47 mm) projection from the door face, DHMSB550 provides generous clearance while maintaining a clean, unobtrusive appearance—ideal for high-profile glass openings.

Models / Standard Length for 36" Door (DHPT-2U Power Transfer Included)

- DHMSB550V – 628 Aluminum Anodized
- DHMSB550Y – 335 Black Anodized
- DHMSB550C – 605 Polished Brass
- DHMSB550S – 629 Polished Stainless Steel
- DHMSB550U – 630 Brushed Stainless Steel

Only 1/8" movement for quiet operation



1 7/8" →

One of the smallest profile in the industry to provide ample clearance for egress and maintain superior aesthetics of high profile openings.

When Ordering How to Specify?

DHMSB550 + Finish (BHMA) + Door Width (36/42/48) + Mounting (Standard/Glass) + Options (Shim Kit, Power Transfer)

Contacts:	One SPDT contact standard; two SPDT contacts optional. Each contact rated 5 A at 30 VDC (resistive).
Bars for Wide Doors:	42" for 42" (1,067 mm) doors; 48" for 48" (1,219 mm) doors; bars may be field-cut by installer
Glass Mounting Kit:	DH500GL (for full-glass/Herculite doors with stiles; includes adhesive and (2) mounting blocks)
Shim Kit:	DH500SK (raises bar from door surface; recommended for wood or hollow-metal doors)

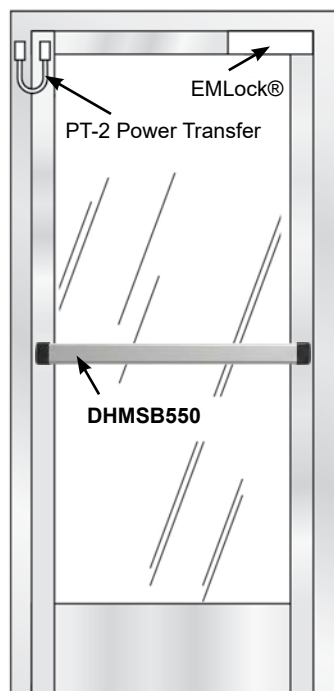
NON-LATCHING SWITCH BAR INSTALLATION / EXIT DEVICES

DHMSB550 — Mechanical Switch Bar

Choose Your Mounting Method: Standard Installation or GL Glass-Mount Kit Installation

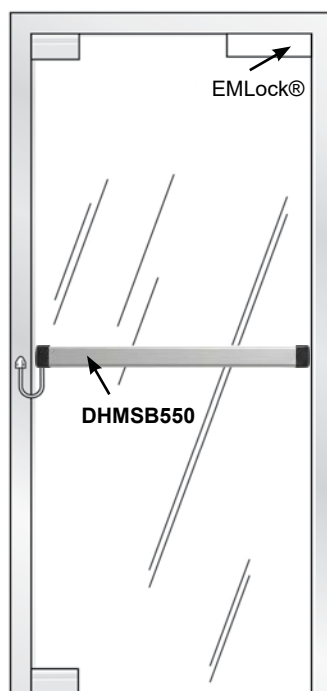
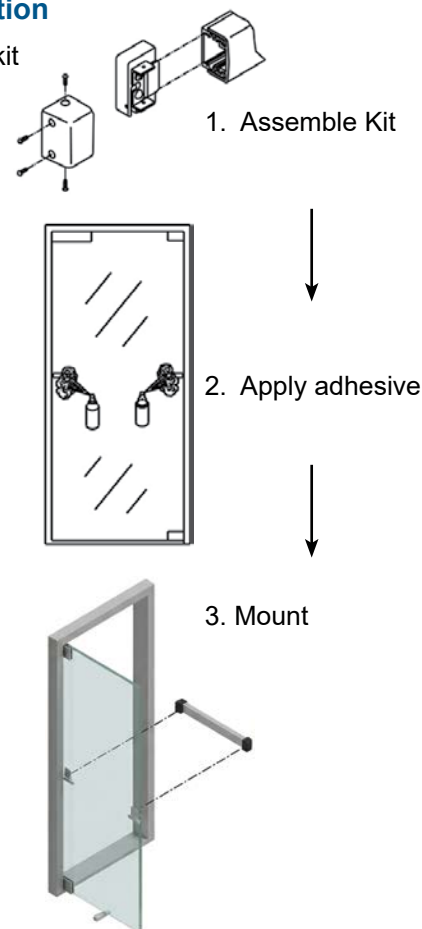
Standard Installation

with standard mounting hardware for metal- or wood-framed doors



GL Glass-Mount Kit Installation

Use the DH500GL glass-mount kit for a clean, secure installation



Electrical Specifications

Contacts	Standard	SPDT, 5 Amp @ 30VDC
	Optional	Two, SPDT, 5 Amp @ 30VDC

Mechanical Specifications

Height	2.375" (60.3 mm)
Projection (Depth)	1.875" (47.6 mm)
Door Width	36" (914.4 mm)
	42" (1,067 mm)
	48" (1,219 mm)

Bars may be field-cut (verify minimum length before cutting)

Power Transfer Accessories

Stainless-steel flex conduit provides a protected wiring path from the door to the frame—ideal for electrified locks and access control.



DHPT-2U

Stainless steel flex conduit (included with bar)



DHPT-3V

Stainless steel flex conduit with surface aluminum wire junction

NON-LATCHING PRESSURE-SENSE BAR / EXIT DEVICES

Sure Exit® DHPSB560 REX — Pressure-Sense Bar

Sure Exit® DHPSB560 REX is a non-latching pressure-sense bar designed to release electromagnetic locks for immediate, uninhibited egress on access-controlled openings.

When light pressure is applied to the bar, either of two redundant solid-state pressure sensors is activated, triggering the electronics to instantly release the electromagnetic lock(s).

Stable and Reliable Pressure-Sense Technology

- Magnetic Lock Release
- Access Control Request-to-Exit (REX)
- Delayed-Egress Trigger
- Alarm Shunt
- CCTV / Alarm Activation



Features

- **Tri-FailSafe.** A third redundant microswitch provides emergency release if both sensors or the electronics fail. The emergency release does not require prior knowledge to locate or use, helping maintain egress even during service conditions.
- **No Moving Parts** — Quick and Quiet Operation. Solid-state pressure-sense technology minimizes wear and provides fast, quiet activation.
- **Temperature Tolerant.** Operates from 0°F to 150°F and tolerates sudden temperature changes.
- **Human Touch Not Required.** Activation can be accomplished while wearing gloves, using a hip through a coat, or with objects such as a briefcase—helpful for users who cannot reliably touch a small switch.
- **No Sensor Calibration Required.** Stable pressure sensing typically does not require adjustment or tuning. Where desired, required activation force can be increased (up to 15 lb) to help inhibit tampering for higher-security applications.
- **Heavy-Duty Construction.** Heavy-duty aluminum extrusion with rugged end caps and an all-metal mounting assembly. Rigid construction helps prevent malfunction due to door sag, warpage, or misaligned glass door stiles.
- **Narrow, Low-Profile Design.** Narrow profile with minimum projection of only 1.875" (47 mm), ideal for aesthetically superior glass openings.
- **Two Outputs.** Two dry contact outputs support lock release, REX, alarm shunt, CCTV, or alarm activation functions (application dependent).
- **Armored Power Loop.** Includes an 18" stainless-steel flex conduit; PT-2 enables protected wiring from the door to the frame.
- **10 ft Cable Included.** Includes an 8-conductor cable.
- **Easy Installation and Service.** Wiring plugs into the PCB after the bar is mounted. The extruded cover slides on after connections are made, and can be removed for service without taking the bar off the door.

How to Specify (Ordering)

DHPSB560 REX | Door type | Opening width | Function(s) | Power transfer | Signage



Listed 4J82

Access Control Systems Unit
Burglary Resistant Electronic
Locking Mechanism



CSFM Listed
Exit Door
Accessories



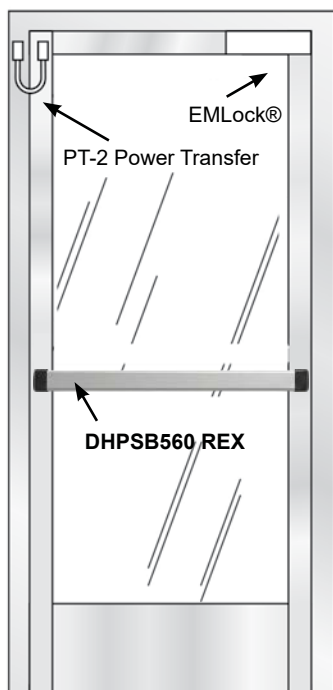
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Patent: 5,969,440

Sure Exit® DHPSB560 REX — Pressure-Sense Bar

Choose Your Mounting Method: Standard Installation or GL Glass-Mount Kit Installation

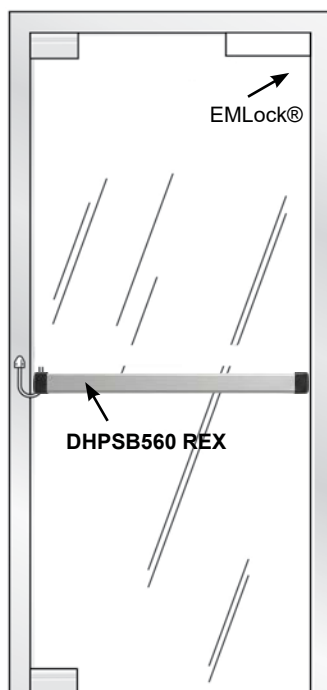
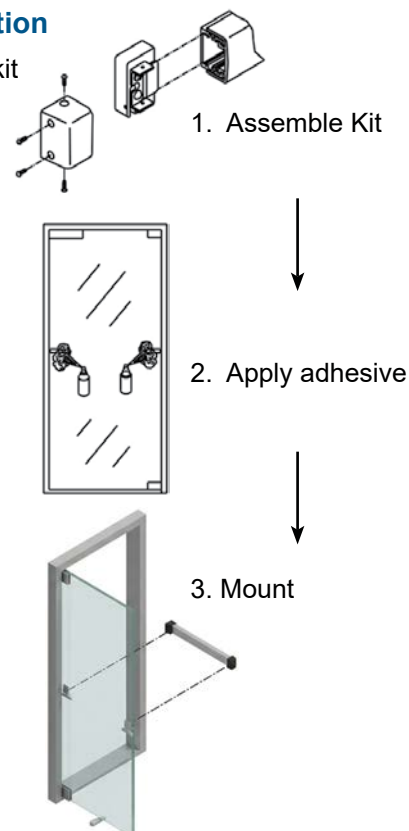
Standard Installation

with standard mounting hardware for metal- or wood-framed doors



GL Glass-Mount Kit Installation

Use the DH500GL glass-mount kit for a clean, secure installation



Finishes

- V** 628 Clear Anodized Aluminum (standard)
- S** 629 Bright Stainless Steel
- U** 630 Brushed Stainless Steel
- C** 605 Bright Brass
- Y** 335 Black Anodized Aluminum

Options

- DH500GL-KIT** Glass-mount kit for full-glass (Herculite-style) doors with stiles; includes (2) mounting blocks and adhesive
- DH500GL-MB** Additional mounting blocks (set of 2)
- DH500-SK** Shim kit to increase bar stand-off; recommended for wood or hollow-metal doors
- DHPT-3V** Power transfer loop with surface aluminum wire junction
- 42** For 42" (1,067 mm) door width
- 48** For 48" (1,219 mm) door width

Note: Bars may be field-cut

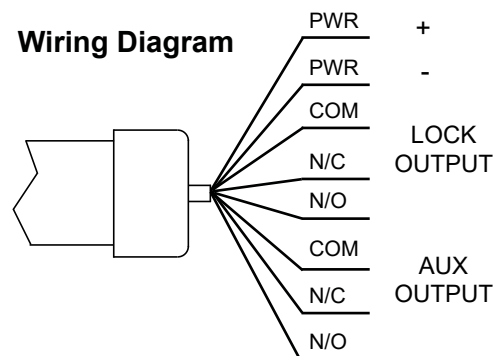
Specifications

Height	2.375" (60.3 mm)
Depth	1.875" (47.6 mm) Projection
Width	36" (914 mm) standard; 42" (1,067 mm); 48" (1,219 mm)
Input Voltage	12/24 VDC, voltage-sensing (no field adjustment required)
Current	20 mA standby; 115 mA active
Outputs	(2) SPDT dry contacts, 3 A @ 28 VDC
Operating Temp	0° to 150°F (-18° to 65°C)

Activation Force

- Factory Set: 5 lb (2.2 kg)
- Field Adjustable: up to 15 lb (6.8 kg) max

Wiring Diagram



LOW-ENERGY AUTOMATIC OPERATORS

QUAD 28K®

Non-handed, patented automatic swing-door operator design for left- or right-hand swing doors.

Key Features

- Designed for power-assist and low-energy power-operated door applications.
- Non-handed design helps simplify ordering and installation.
- Maximum door width: 48" (1220 mm); maximum door weight: 230 lb (104 kg).
- Good choice for standard interior or moderate-use commercial openings.



QUAD 4000

Heavy-duty automatic operator for outdoor and demanding applications.

Key Features

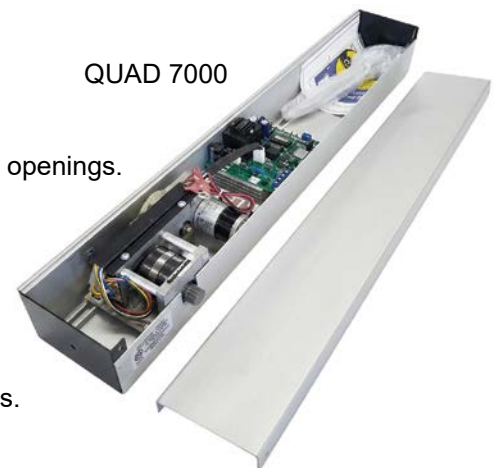
- Designed for heavier-duty openings and more demanding environments.
- Suitable for exterior applications where durability and stronger performance are required.
- Good choice when the opening is exposed to higher traffic, weather, or heavier operating conditions.
- Confirm door size, door weight, hand/swing, and site conditions before quoting.

QUAD 7000

Indoor automatic swing-door operator engineered for smooth operation in interior openings.

Key Features

- Designed for power-assist and low-energy power-operated door applications.
- Recommended for interior commercial openings where quiet, smooth operation is preferred.
- Maximum door width: 48" (1220 mm); maximum door weight: 230 lb (104 kg).
- Good choice for offices, clinics, public facilities, and other interior access points.



MODEL SELECTION GUIDE

Model	Best Use	Application Notes
QUAD 28K®	Standard low-energy swing-door applications	Non-handed; for left- or right-hand swing doors; up to 48" wide / 230 lb
QUAD 4000	Heavy-duty and outdoor applications	For demanding environments, exterior openings, or heavier-use applications
QUAD 7000	Indoor applications	Smooth operation for interior openings; up to 48" wide / 230 lb

HOLLOW METAL DOORS & FRAMES

DHHM-DF — Hollow Metal Door & Frame

DHHM-D — Hollow Metal Door

DHHM-F — Hollow Metal Frame

Gauge and Construction

- 18 gauge (standard)
- Optional gauges: 14, 16, and 20 gauge

Core Options

- Polystyrene core (standard)
- Optional cores: honeycomb, fiberboard, urethane

Steel Type and Coating Options

- Cold-rolled steel (standard)
- Optional materials/coatings:
 - A40 and A60 galvanized
 - G90 galvanized

Finish Options

- Gray primer (standard)
- Optional finishes: unprimed (galvanized), or factory prefinished in thousands of colors

Face Style and Cutout Options

- Flush face (standard)
- Available options: vision lite kits, louvers, panel designs, including wood-grain styles

Design and Reinforcement Features

- Exclusive door design includes: mechanically interlocking pan-and-lid construction
- Hinge reinforcement: 7-gauge hinge reinforcements, with an extra-long top hinge reinforcement (standard)

Hardware Prep and Fire Rating

- Closer reinforcement: standard (available with flush top)
- Fire rating: up to 3-hour fire rating available



Door Sizes

2'0 x 6'8	2'6 x 7'0
2'4 x 6'8	2'8 x 7'0
2'6 x 6'8	2'10 x 7'0
2'8 x 6'8	3'0 x 7'0
2'10 x 6'8	3'4 x 7'0
3'4 x 6'8	3'6 x 7'0
3'6 x 6'8	3'8 x 7'0
3'8 x 6'8	4'0 x 7'0
4'0 x 6'8	3'0 x 8'0
2'0 x 7'0	4'0 x 8'0
2'4 x 7'0	3'0 x 9'0

Frame Sizes

4 3/4"
5 3/4"
5 7/8"
6 3/4"
7 1/8"
7 3/4"
8 1/4"
8 3/4"

Throat size is 1" smaller than the frame size

Ordering Information

- Door size (W x H), hand, swing
- Gauge and core
- Steel/coating (CRS / A40/A60 / G90)
- Finish (primer / prefinished color)
- Cutouts (vision lite / louver)
- Fire rating requirement (if any)
- Frame throat size / wall condition

CYLINDERS, CORES & KEYING

Find cylinders, interchangeable cores, key blanks and related hardware for a variety of door hardware applications. The following pages provide product details, dimensions and ordering options.

CYLINDERS & HOUSINGS

Mortise, rim, knob/lever and profile cylinders, along with thumbturn and dummy options and housings for interchangeable cores.

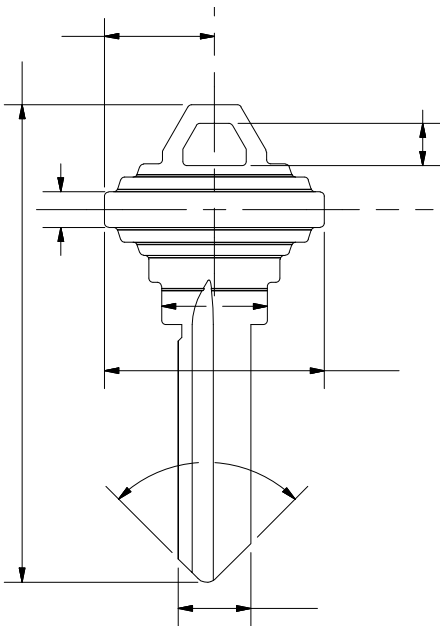
CORES & KEYING

Interchangeable cores, construction cores and key blanks, with keyway profiles to help identify the required options.

RELATED HARDWARE & ACCESSORIES

Cylinder cams, collars and rings, padlocks, tools, replacement parts and accessories.

EXPLORE THIS SECTION



- 104 ▶ General Info & Finishes
- 105 ▶ Keyways
- 106 ▶ Mortise Cylinders
- 108 ▶ IC Mortise Housings
- 110 ▶ Mortise T-Turn/Dummy Cylinders
- 112 ▶ Mortise Cylinder Cams
- 114 ▶ Mortise Cylinder Collars/Rings
- 116 ▶ Rim/Rim Dummy Cylinders
- 118 ▶ IC Rim Housings
- 120 ▶ Knob/Lever Cylinders
- 122 ▶ IC Cores
- 124 ▶ Construction Cores
- 125 ▶ Tools and Accessories
- 126 ▶ Profile Cylinders
- 128 ▶ Padlocks
- 130 ▶ Key Blanks
- 132 ▶ Parts and Accessories

PRODUCT SELECTION

This section includes cylinders, interchangeable cores and related components for a variety of door hardware applications. Check the product type, dimensions, keyway and applicable cam or tailpiece to ensure a suitable match for your hardware and key system.

ORDERING INFORMATION

Refer to the product tables and ordering examples on the following pages. Specify the model, size or length, keyway, finish and keying requirements, together with any applicable cam, tailpiece or accessory options. Available options vary by model.

KEYING OPTIONS

Specify keyed different, keyed alike or zero-bitted options where listed. For master keying, construction keying or other special requirements, contact Direct Hardware to confirm availability and ordering details.

FINISHES

Finish availability varies by model. Refer to the individual product tables for available finishes and ordering codes.



US3
Polished Brass



US4
Satin Brass



US10
Satin Bronze



US15
Satin Nickel



US19
Black



US26
Polished Chrome



US26D
Satin Chrome



US32D
Stainless Steel



US10B
Oil Rubbed Bronze

STANDARD KEYWAYS

Use the profiles below to identify standard keyway options. Refer to the individual product tables for available keyways and ordering codes. Specify the required keyway when ordering.



Arrow 1179
AW



Assa 62
A62



Assa Twin 6000
AST



Assa V10
ASV



Corbin 60
CB60



Corbin L4
CL4



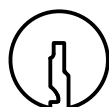
Russwin D1
RD1



Kwikset 1176
KW



Sargent LA
SA



Sargent LA~LC
SAX



Sargent LB
SLB



Sargent RA
RA



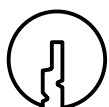
Schlage C
SC



Schlage C123
G23



Schlage C145
G45



Schlage C~K
SX



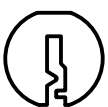
Schlage E
SCE



Schlage F
SCF



Segal 9
SE



Weiser E
WR



Yale 8
YA



Yale GA
YGA

SMALL FORMAT INTERCHANGEABLE CORE KEYWAYS

Small format interchangeable core (SFIC) keyway profiles are shown below. Specify the required keyway when ordering and confirm compatibility with your existing key system.



Arrow **1C**



Arrow **1D**



Best **A**



Best **B**



Best **C**



Best **D**



Best **E**



Best **F**



Best **G**



Best **H**



Best **J**



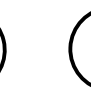
Best **K**



Best **L**



Best **M**



Best **Q**



Best **R**



Best **DD**



Best **TA**



Best **TB**



Best **TC**



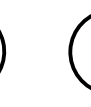
Best **TD**



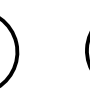
Best **TE**



Best **WA**



Best **WB**



Best **WC**



Best **WD**



Best **WG**

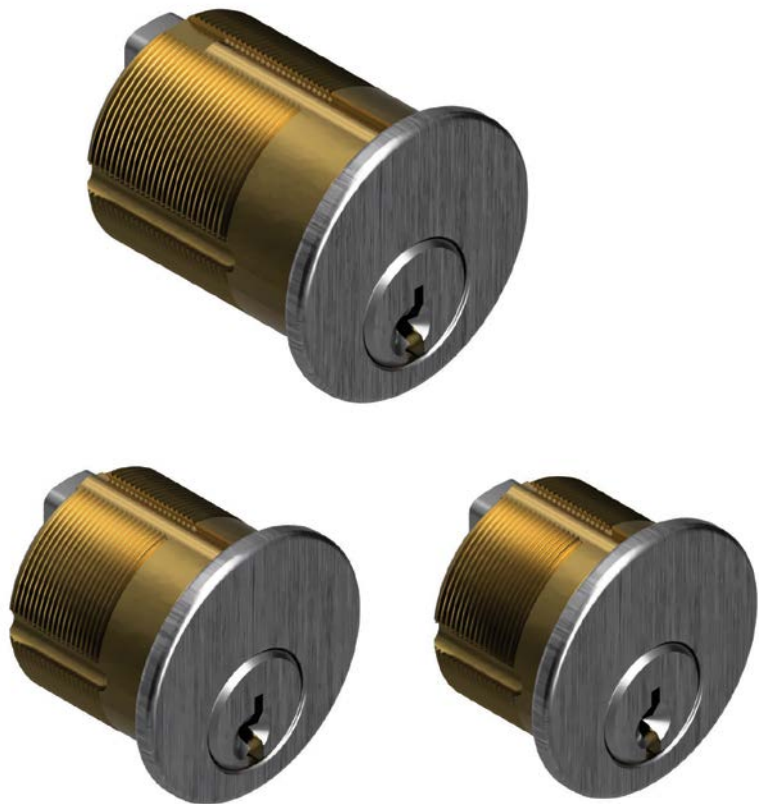
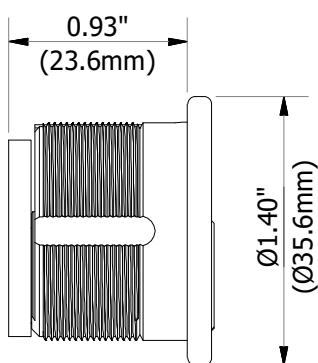
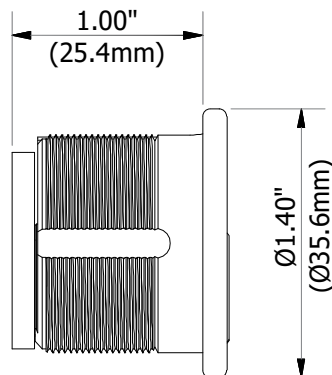
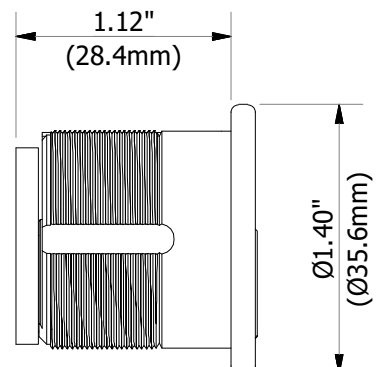
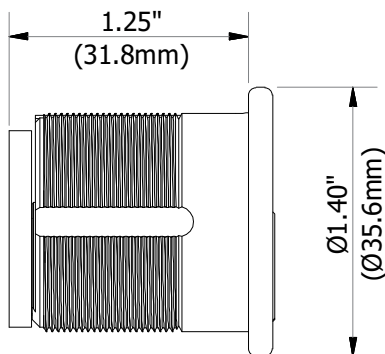
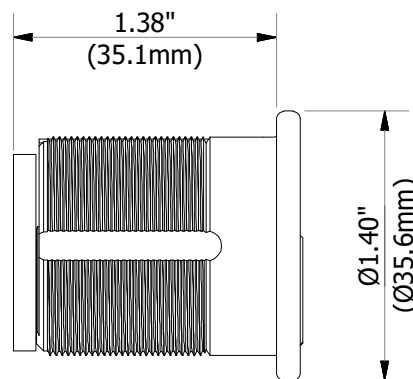
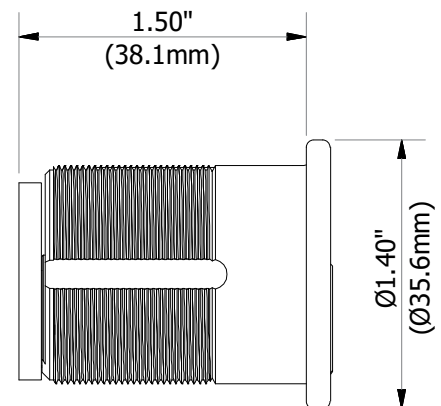


Best **WH**

- ▶ Solid brass construction
- ▶ Exact OEM pinning specifications
- ▶ Precision CNC machined
- ▶ Anti-slip cam screws

Model	Description
M156	15/16" mortise cylinder
M100	1" mortise cylinder
M118	1-1/8" mortise cylinder
M114	1-1/4" mortise cylinder
M138	1-3/8" mortise cylinder
M112	1-1/2" mortise cylinder

Additional lengths: Contact us for availability.

**M156****M100****M118****M114****M138****M112**

- Items are not paired by horizontal position
- Within each table, select one applicable option from each column

Model	Keyway	Finish	CAM	Keying
M156 M100 M118 M114 M138 M112	AW (Arrow 1179) CB (Corbin 60) KW (Kwikset 1176) SC (Schlage C) SE (Segal 9) SX (Schlage C~K) WR (Weiser E) YA (Yale 8)	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19* (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	AR (Adams Rite) AT (Adams Rite & Yale) BE (Best) CL (Corbin) SA (Sargent) SL (Schlage) ST (Yale) TS (Falcon/Saflok)	A2 (Keyed alike in pairs) KD (Keyed different) OB (Zero bitted) Except M156/M100, cylinders are drilled 6, pinned 5.

EXAMPLES: **M156KW10BARA2**
M118SC26DSLKD

Model	Keyway	Finish	CAM	Keying
M118 M114 M138 M112	CL4 (Corbin L4) RD1 (Russwin D1) SA (Sargent LA) SAX (Sargent LA~LC) SLB (Sargent LB) RA (Sargent RA) SCE (Schlage E) SCF (Schlage F) YGA (Yale GA)	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19* (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	AR (Adams Rite) AT (Adams Rite & Yale) BE (Best) CL (Corbin) SA (Sargent) SL (Schlage) ST (Yale) TS (Falcon/Saflok)	A2-6 (Keyed alike in pairs) KD-6 (Keyed different) OB-6 (Zero bitted) Cylinders are drilled 6, pinned 6.

* Schlage keyways have matching US19 plugs

EXAMPLES: **M118SCE26DSLKD-6**
M112SA4SAA2-6

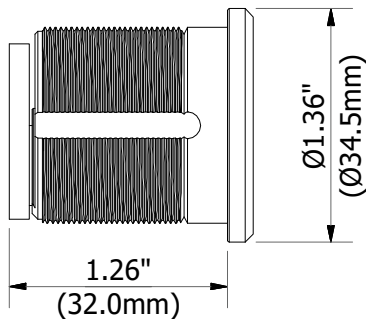
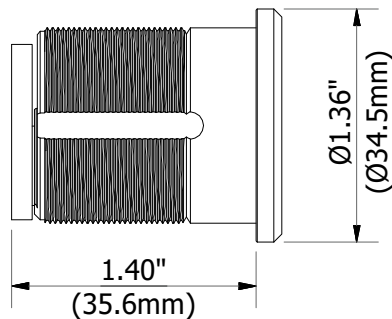
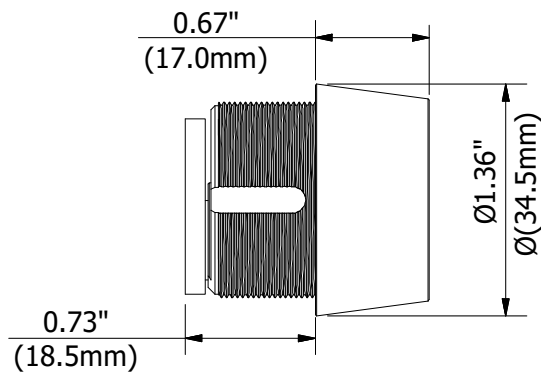
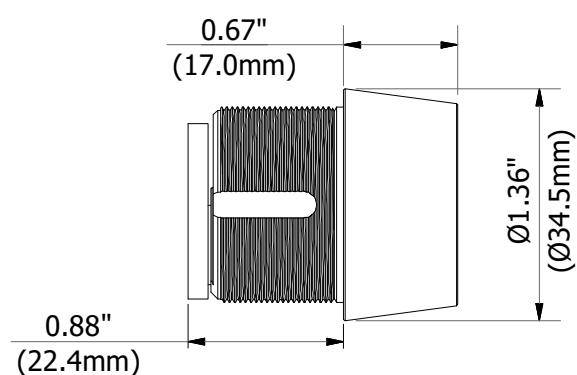
Model	Keyway	Finish	CAM	Keying
M118 M114	A62 (Assa A62)** AST (Assa Twin 6000)** ASV (Assa V10)** G23 (Schlage C123)** G45 (Schlage C145)**	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19* (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	AR (Adams Rite) AT (Adams Rite & Yale) BE (Best) CL (Corbin) SA (Sargent) SL (Schlage) ST (Yale) TS (Falcon/Saflok)	NK-6 Cylinders are sub-assembled with followers, no keys.

** Cylinder with A62/AST/ASV/G23/G45 keyways come with no keys

EXAMPLES: **M114G2319STNK-6**
M114AST19STNK-6

- ▶ Solid brass construction
- ▶ Exact OEM dimension
- ▶ Precision CNC machined
- ▶ Removable cams with anti-slip screws

Model	Description
ICM6	Best small format, straight mortise housing, 6 pin
ICM7	Best small format, straight mortise housing, 7 pin
ICT6	Best small format, tapered mortise housing, 6 pin
ICT7	Best small format, tapered mortise housing, 7 pin
ICS	Schlage large format, mortise housing
CCM	Corbin large format, mortise housing
MCM	Medeco large format, mortise housing
SCM	Sargent large format, mortise housing
YCM	Yale large format, mortise housing
ICM726D-80102	ICM7 in 26D finish with COL3 and COL36-25
ICS26D-26094	ICS in 26D finish with ST cam, COL3 and COL36-37
ICS26D-30137	ICS in 26D finish with SL cam, COL3 and COL36-37

**ICM6****ICM7****ICT6****ICT7**

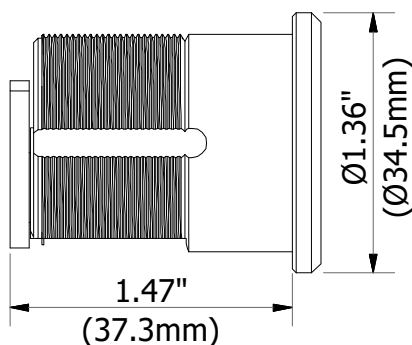
- Items are not paired by horizontal position
- Within each table, select one applicable option from each column

Model	Finish	CAM
ICM6		AR (Adams Rite)
ICM7	3 (Polished Brass)	BE (Best)
ICT6	4 (Satin Brass)	CL (Corbin)
ICT7	10B (Oil Rubbed Bronze)	SA (Sargent)
CCM	19 (Black)	SL (Schlage)
MCM	26 (Polished Chrome)	ST (Yale)
SCM	26D (Satin Chrome)	TS (Falcon/Saflok)
YCM		

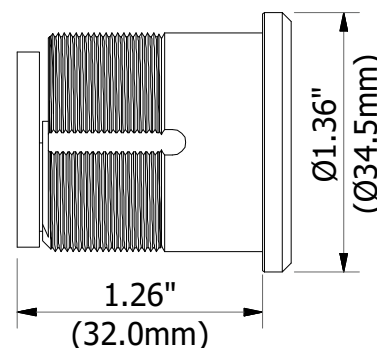
Model	Finish	CAM
ICS	3 (Polished Brass)	AR (Adams Rite)
	4 (Satin Brass)	BE40 (Best 40H)
	10B (Oil Rubbed Bronze)	CL (Corbin)
	19 (Black)	SA (Sargent)
	26 (Polished Chrome)	SL (Schlage)
	26D (Satin Chrome)	ST (Yale)
		TS (Falcon/Saflok)

EXAMPLES: ICM726DST
SCM19AR

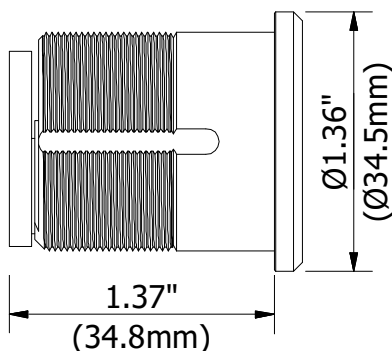
EXAMPLES: ICS4BE40
ICS10BSL



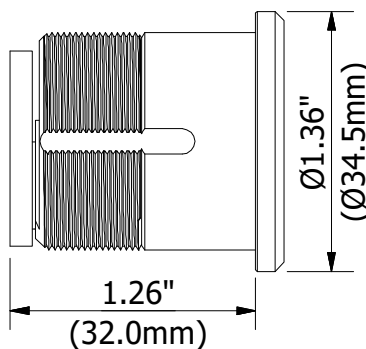
ICS — Schlage



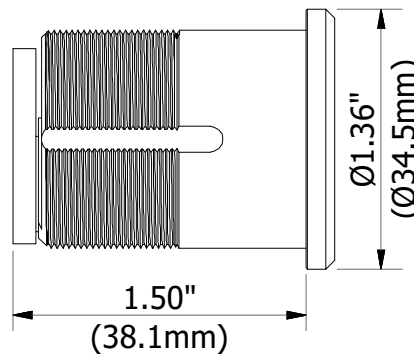
CCM — Corbin



MCM — Medeco



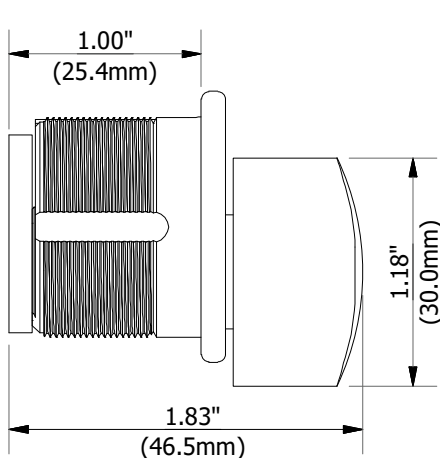
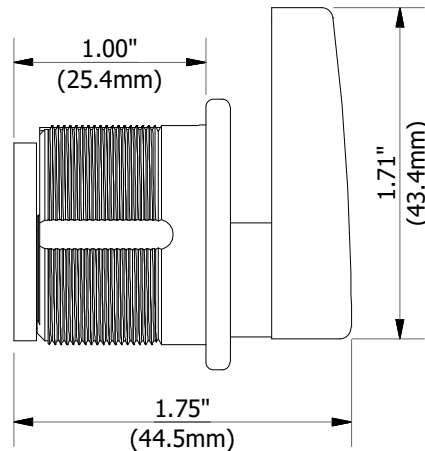
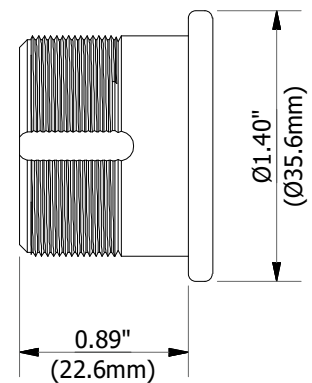
SCM — Sargent



YCM — Yale

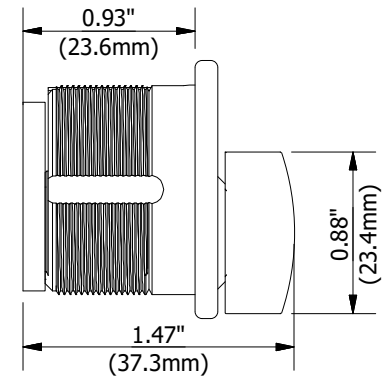
- ▶ Solid brass housing
- ▶ ADA turn-piece available
- ▶ Exact OEM dimension
- ▶ Precision CNC machined

Model	Description
M156T	15/16" mortise t-turn
M156TA	15/16" mortise ADA t-turn w. classroom function
M156TL	15/16" mortise t-turn, low profile
M100T	1" mortise t-turn
M100TA	1" mortise ADA t-turn w. classroom function
M100TL	1" mortise t-turn, low profile
M118T	1-1/8" mortise t-turn
M118TA	1-1/8" mortise ADA t-turn w. classroom function
M114T	1-1/4" mortise t-turn
M114TA	1-1/4" mortise ADA t-turn w. classroom function
M138T	1-3/8" mortise t-turn
M138TA	1-3/8" mortise ADA t-turn w. classroom function
M112T	1-1/2" mortise t-turn
M112TA	1-1/2" mortise ADA t-turn w. classroom function
M156D	15/16" mortise dummy
M100D	1" mortise dummy
M118D	1-1/8" mortise dummy
M114D	1-1/4" mortise dummy

**M100T****M100TA****M100D**

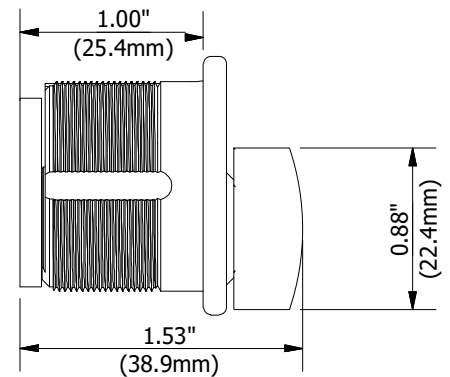
- Items are not paired by horizontal position
- Within each table, select one applicable option from each column

Model	Finish	CAM
M156T M156TA M156TL M100T M100TA M100TL M118T M118TA M114T M114TA M138T M138TA M112T M112TA	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19 (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	AR (Adams Rite) AT (Adams Rite & Yale) BE (Best) CL (Corbin) SA (Sargent) SL (Schlage) ST (Yale) TS (Falcon/Saflok)

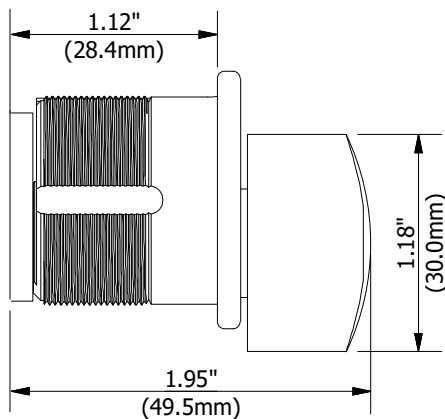
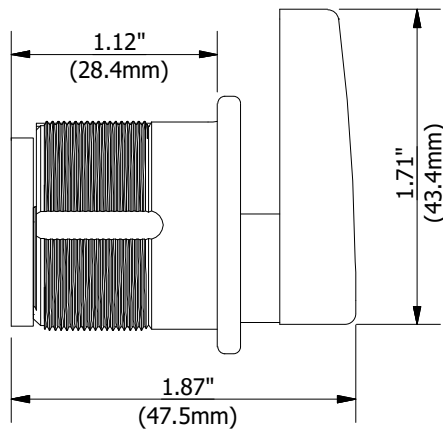
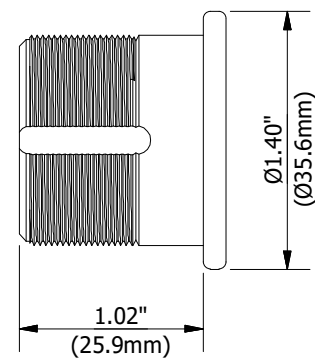
**M156TL**

EXAMPLES: **M156T10BCL**
M138TA32DST

Model	Finish	CAM
M156D M100D M118D M114D	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19 (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	N/A

**M100TL**

EXAMPLES: **M100D15**
M114D26D

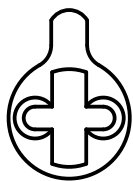
**M118T****M118TA****M118D**

Part Number	Description	Fits
CAM1-AR-10	Adams Rite cam, 10 pack	 All mortise cylinders (except A62/AST/ASV/G23/G45) All mortise t-turn cylinders MCM housings YCM housings
CAM1-BE-10	Best cam, 10 pack	
CAM1-CL-10	Corbin cam, 10 pack	
CAM1-SA-10	Sargent cam, 10 pack	
CAM1-SL-10	Schlage cam, 10 pack	
CAM1-ST-10	Yale cam, 10 pack	
CAM1-TS-10	Falcon/Saflok cam, 10 pack	

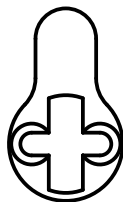
Part Number	Description	Fits
CAM2-AR-10	Adams Rite cam, 10 pack	 ICM6 housings ICM7 housings ICT6 housings ICT7 housings CCM housings SCM housings
CAM2-BE-10	Best cam, 10 pack	
CAM2-CL-10	Corbin cam, 10 pack	
CAM2-SA-10	Sargent cam, 10 pack	
CAM2-SL-10	Schlage cam, 10 pack	
CAM2-ST-10	Yale cam, 10 pack	
CAM2-TS-10	Falcon/Saflok cam, 10 pack	

Part Number	Description	Fits
CAM3-AR-10	Adams Rite cam, 10 pack	 ICS housings
CAM3-BE40-10	Best 40H cam, 10 pack	
CAM3-CL-10	Corbin cam, 10 pack	
CAM3-SA-10	Sargent cam, 10 pack	
CAM3-SL-10	Schlage cam, 10 pack	
CAM3-ST-10	Yale cam, 10 pack	
CAM3-TS-10	Falcon/Saflok cam, 10 pack	

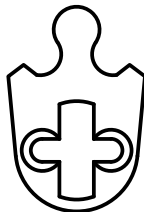
Part Number	Description	Fits
CAM4-AR-10	Adams Rite cam, 10 pack	 Mortise Cylinders with A62/AST/ASV/G23/G45 keyways
CAM4-CL-10	Corbin cam, 10 pack	
CAM4-SA-10	Sargent cam, 10 pack	
CAM4-SL-10	Schlage cam, 10 pack	
CAM4-ST-10	Yale cam, 10 pack	
CAM4-TS-10	Falcon/Saflok cam, 10 pack	



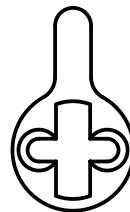
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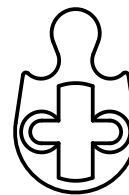
CAM1-BE



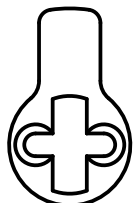
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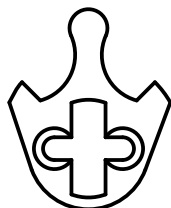
CAM1-SA



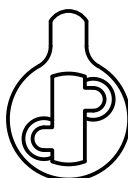
CAM1-SL



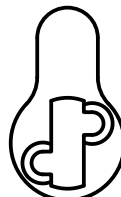
CAM1-ST



CAM1-TS



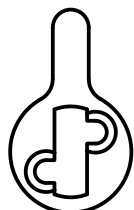
CAM2-AR



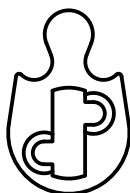
CAM2-BE



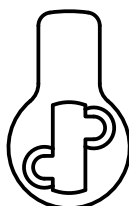
CAM2-CL



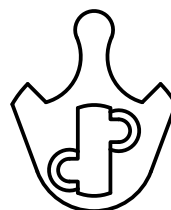
CAM2-SA



CAM2-SL



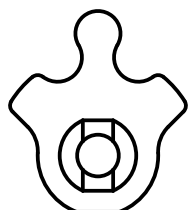
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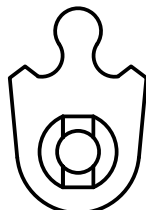
CAM2-TS



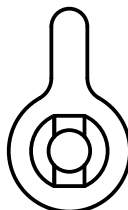
CAM3-AR



CAM3-BE40



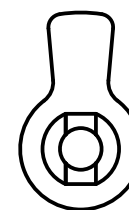
CAM3-CL



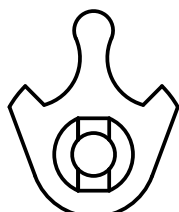
CAM3-SA



CAM3-SL



CAM3-ST

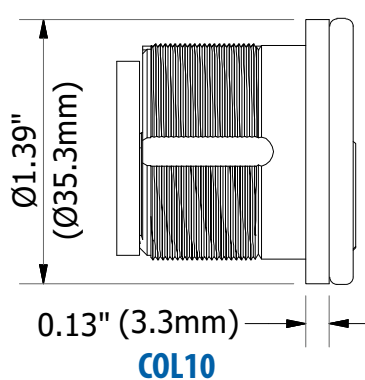
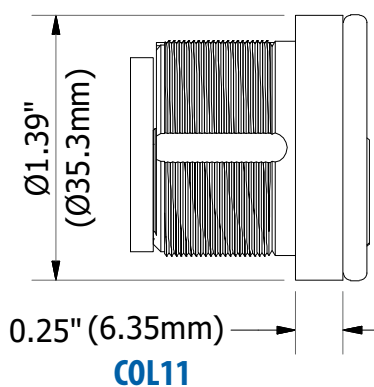
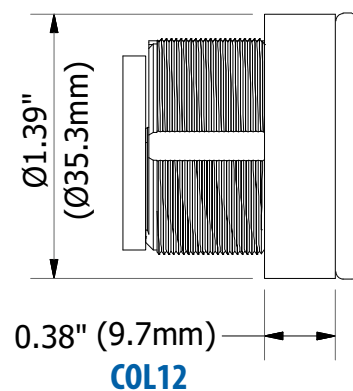
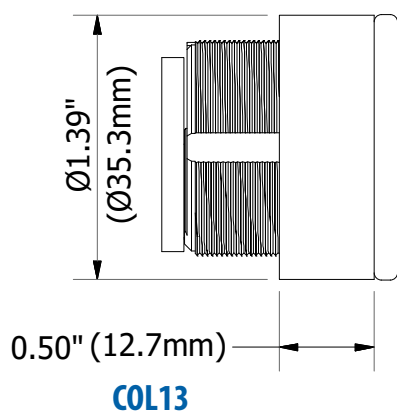
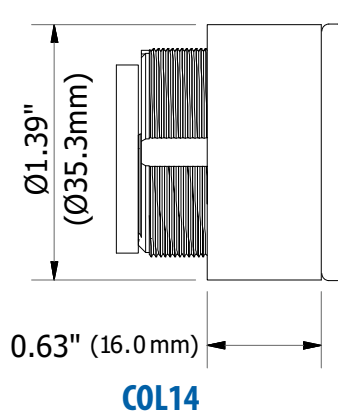
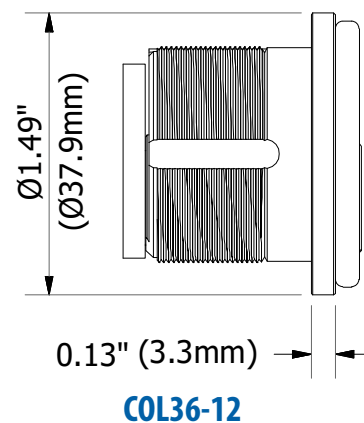


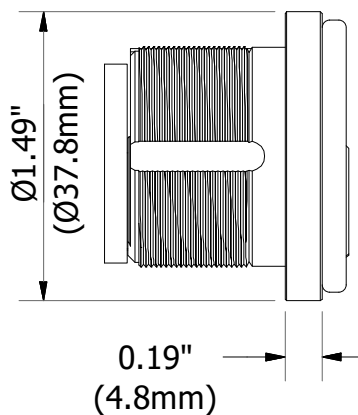
CAM3-TS

Part Number	Description	Finish
COL10-xxx*-10	1/8" standard spacer collar, solid brass, 10 pack	3 (Polished Brass) 10B (Oil Rubbed Bronze) 19 (Black) 26D (Satin Chrome)
COL11-xxx*-10	1/4" standard spacer collar, solid brass, 10 pack	
COL12-xxx*-10	3/8" standard spacer collar, solid brass, 10 pack	
COL13-xxx*-10	1/2" standard spacer collar, solid brass, 10 pack	
COL14-xxx*-10	5/8" standard spacer collar, solid brass, 10 pack	
COL2-xxx*-10	1/8" trim ring, solid brass, 10 pack	
COL36-12-xxx*-10	1/8" Schlage style spacer collar, solid brass, 10pack	
COL36-18-xxx*-10	3/16" Schlage style spacer collar, solid brass, 10 pack	
COL36-25-xxx*-10	1/4" Schlage style spacer collar, solid brass, 10 pack	
COL36-37-xxx*-10	3/8" Schlage style spacer collar, solid brass, 10 pack	
COL36-50-xxx*-10	1/2" Schlage style spacer collar, solid brass, 10 pack	
COL3-xxx*-10	Protective collar with spring washer, 10 pack	
COL6-xxx*	Hardened security collar with spring washer	
COL6L-xxx*	Extra length hardened security collar with spring washer	
COL5-10	1/8" threaded ring, solid brass, 10 pack	

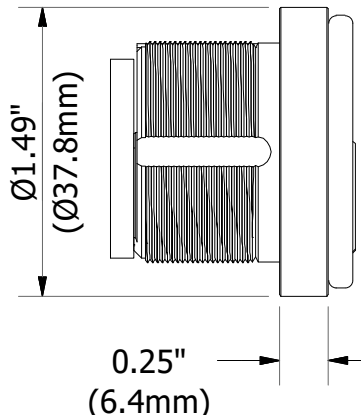


* Replace xxx with the required finish code: 3, 10B, 19, or 26D.
For example, COL10-xxx-10 could be COL10-26D-10 or COL10-3-10.

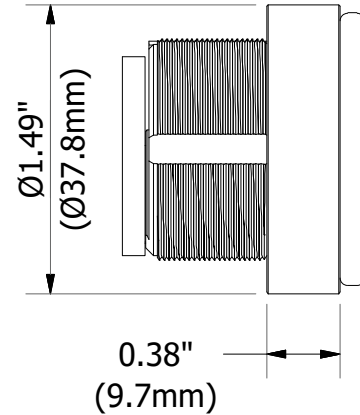




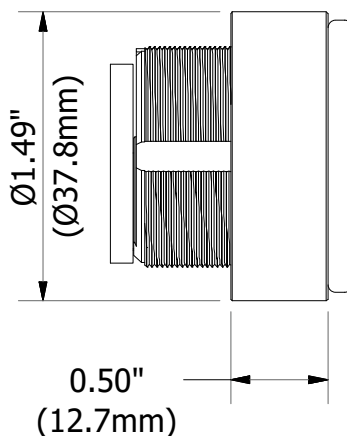
COL36-18



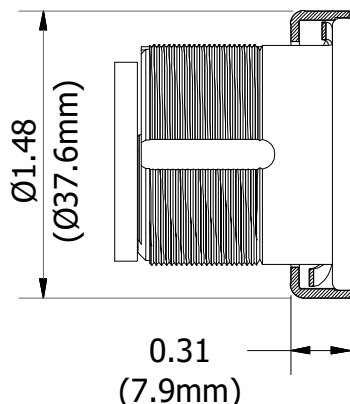
COL36-25



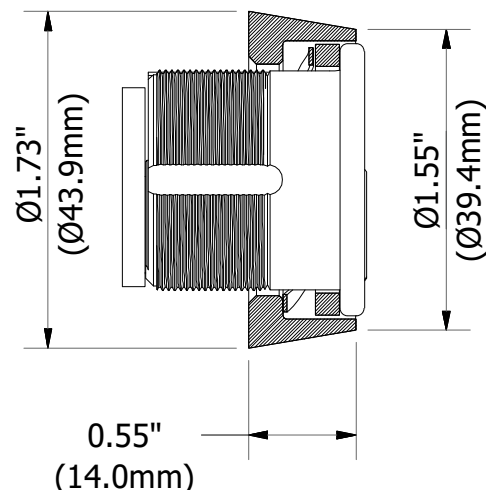
COL36-37



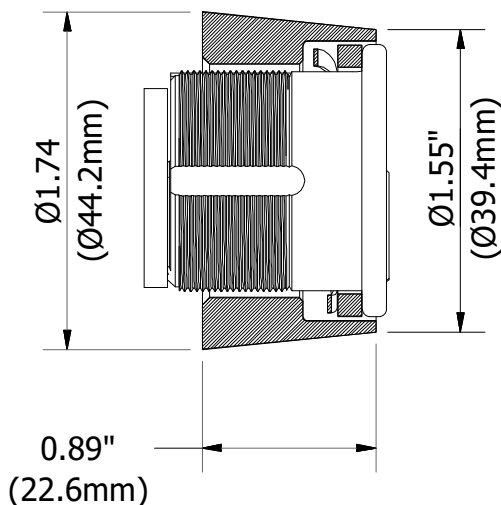
COL36-50



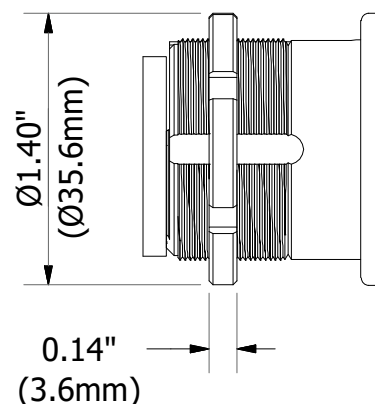
COL3



COL6



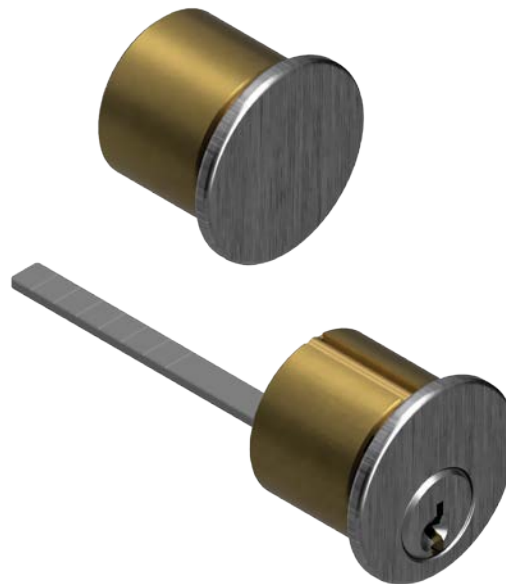
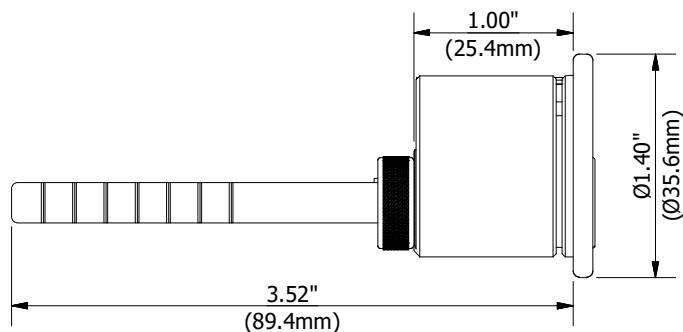
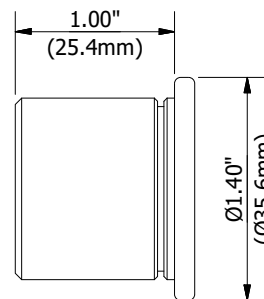
COL6L



COL5

- ▶ Solid brass construction
- ▶ Exact OEM pinning specifications
- ▶ Precision CNC machined
- ▶ Retaining cap design for easy pinning

Model	Description
R118	1-1/8" Rim cylinder
R118D	1-1/8" Rim dummy cylinder

**R118****R118D**

- Items are not paired by horizontal position
- Within each table, select one applicable option from each column

Model	Keyway	Finish	Keying
R118	AW (Arrow 1179) CB (Corbin 60) KW (Kwikset 1176) SC (Schlage C) SE (Segal 9) SX (Schlage C~K) WR (Weiser E) YA (Yale 8)	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19 (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	A2 (Keyed alike in pairs) KD (Keyed different) OB (Zero bitted) Cylinders are drilled 6, pinned 5.

EXAMPLE: **R118AW10A2**

Model	Keyway	Finish	Keying
R118	CL4 (Corbin L4) RD1 (Russwin D1) SA (Sargent LA) SAX (Sargent LA~LC) SLB (Sargent LB) RA (Sargent RA) SCE (Schlage E) SCF (Schlage F) YGA (Yale GA)	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19 (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	A2-6 (Keyed alike in pairs) KD-6 (Keyed different) OB-6 (Zero bitted) Cylinders are drilled 6, pinned 6

EXAMPLE: **R118SA15A2-6**

Model	Keyway	Finish	Keying
R118	A62 (Assa A62)** AST (Assa Twin 6000)** ASV (Assa V10)** G23 (Schlage C123)** G45 (Schlage C145)**	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19 (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	NK-6 Cylinders are sub-assembled with followers, no keys.

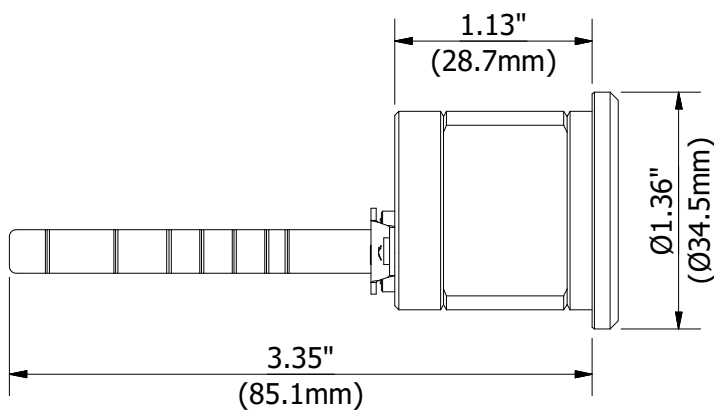
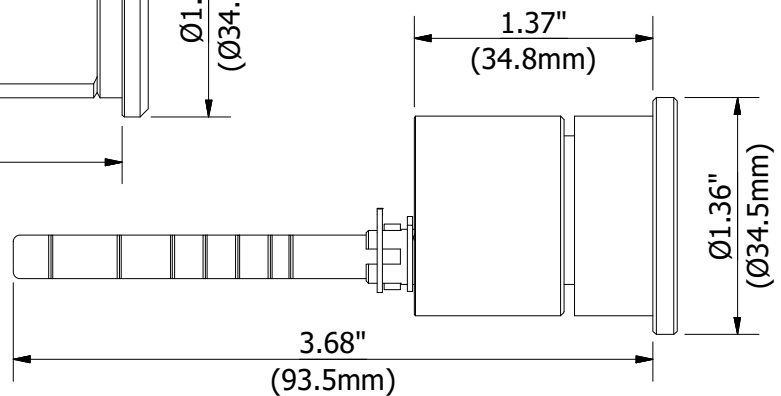
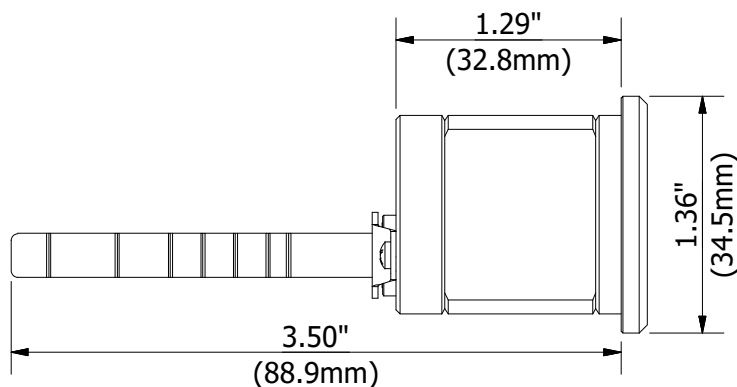
EXAMPLE: **R118ASV19NK-6** ** Cylinder with A62/AST/ASV/G23/G45 keyways come with no keys

Model	Keyway	Finish	Keying
R118D	N/A	3 (Polished Brass) 4 (Satin Brass) 10 (Satin Bronze) 10B (Oil Rubbed Bronze) 15 (Satin Nickel) 19 (Black) 26 (Polished Chrome) 26D (Satin Chrome) 32D (Stainless Steel)	N/A

EXAMPLE: **R118D26**

- ▶ Solid brass construction
- ▶ Exact OEM dimensions
- ▶ Precision CNC machined

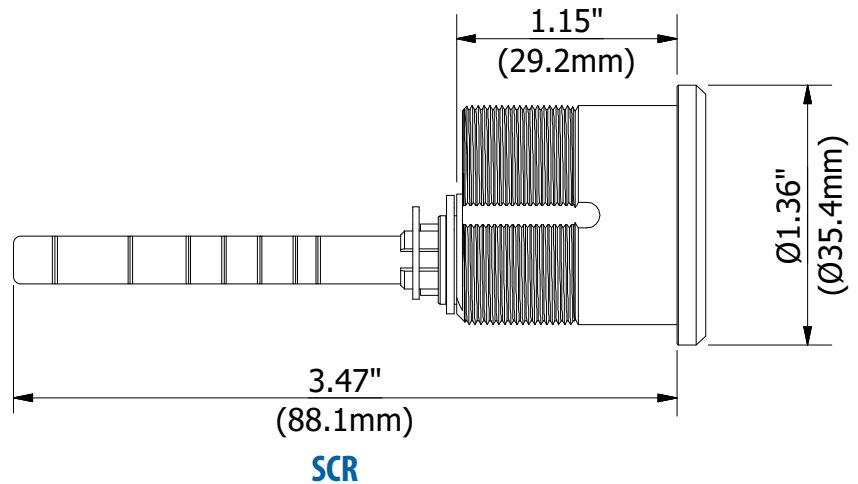
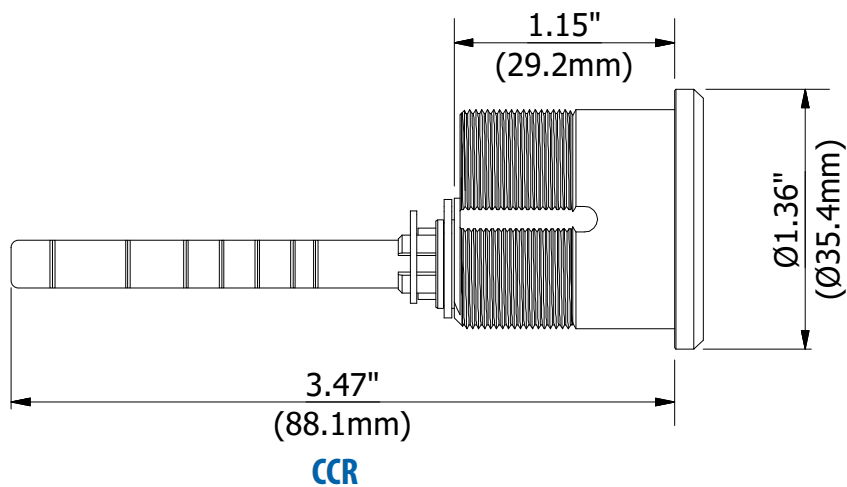
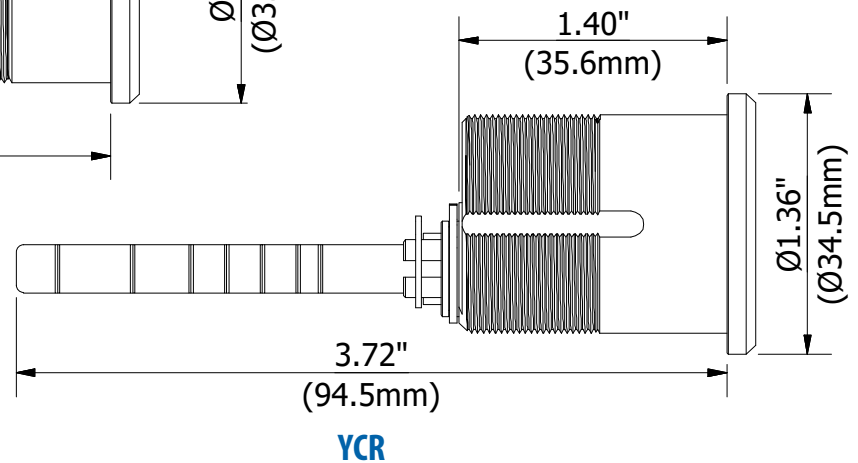
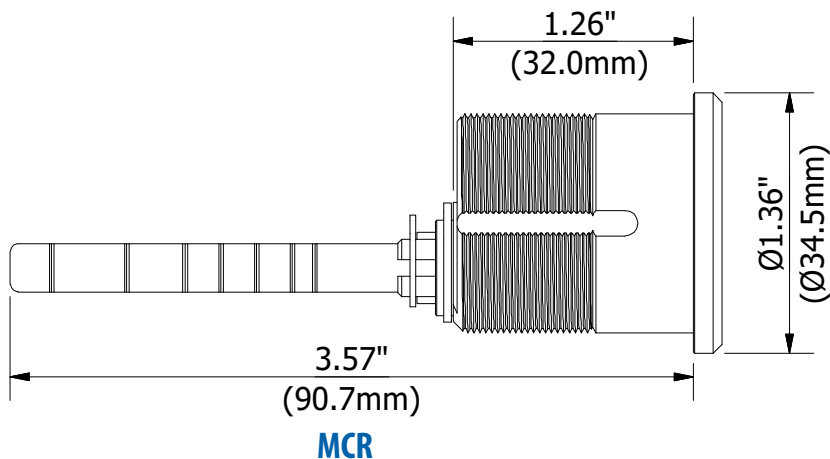
Model	Description
ICR6	Best small format, straight rim housing, 6 pin
ICR7	Best small format, straight rim housing, 7 pin
ICSR	Schlage large format, rim housing
CCR	Corbin large format, rim housing
MCR	Medeco large format, rim housing
SCR	Sargent large format, rim housing
YCR	Yale large format, rim housing

**ICR6****ICSR****ICR7**

- Items are not paired by horizontal position
- Select one model and one finish

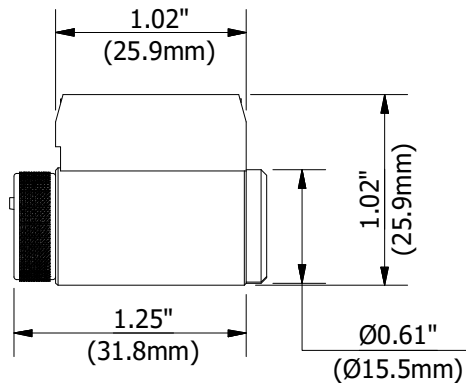
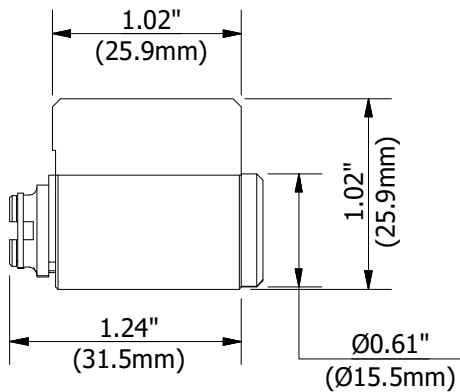
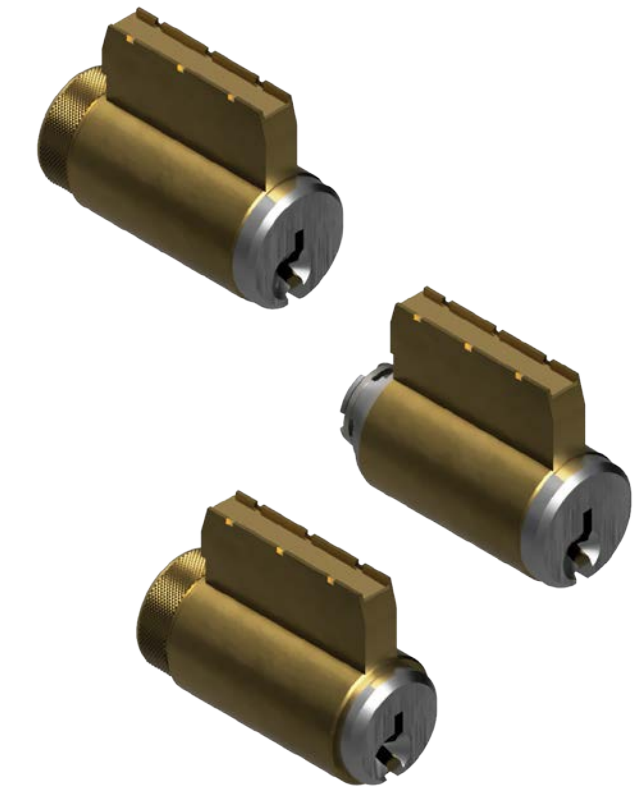
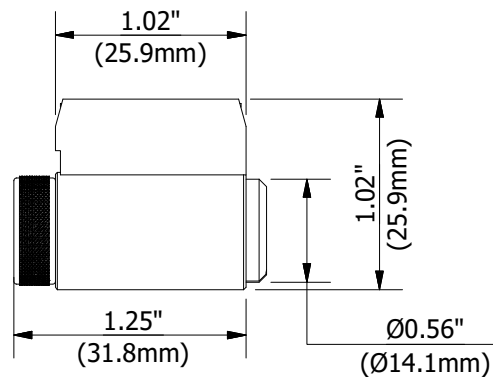
Model	Finish
ICR6	3 (Polished Brass)
ICR7	4 (Satin Brass)
ICSR	10B (Oil Rubbed Bronze)
CCR	19 (Black)
MCR	26 (Polished Chrome)
SCR	26D (Satin Chrome)
YCR	

EXAMPLES: **ICR726D**
MCR19



- ▶ Solid brass construction
- ▶ Exact OEM pinning specifications
- ▶ Fits most knob and lever locksets
- ▶ Multiple tailpieces included

Model	Description	Tailpieces
K001	Fits Schlage knobs, levers and deadbolts	5 pcs
K002	Fits Arrow knobs and levers	3 pcs
K003	Fits Sargent levers	3 pcs

**K001****K002****K003**

- Individual items are not paired by horizontal position.
- Horizontal borders divide groups only in the columns they cross. A cell that continues without a dividing line applies to every group it spans. Select one applicable option from each column, observing the footnotes.
- Code order: Model + Keyway + Finish + Keying.
- As a check: K001 spans three keyway/keying groups; K002 and K003 share the bottom KEYING cell; the FINISH cell spans all three models.

Model	Keyway	Finish	Keying
K001	AW (Arrow 1179) CB (Corbin 60) KW (Kwikset 1176) SC (Schlage C) SE (Segal 9) SX (Schlage C~K) WR (Weiser E) YA (Yale 8)	4 (Satin Brass) 19* (Black) 26D (Satin Chrome)	A2 (Keyed alike in pairs) KD (Keyed different) OB (Zero bitted) Cylinders are drilled 6, pinned 5.
	CL4 (Corbin L4) RD1 (Russwin D1) SA (Sargent LA) SAX (Sargent LA~LC) SLB (Sargent LB) RA (Sargent RA) SCE (Schlage E) SCF (Schlage F) YGA (Yale GA)		A2-6 (Keyed alike in pairs) KD-6 (Keyed different) OB-6 (Zero bitted) Cylinders are drilled 6, pinned 6
	A62 (Assa A62)** AST (Assa Twin 6000)** ASV (Assa V10)** G23 (Schlage C123)** G45 (Schlage C145)**		NK-6 Cylinders are sub-assembled with followers, no keys.
K002	AW (Arrow 1179) SC (Schlage C)		A2 (Keyed alike in pairs) KD (Keyed different) OB (Zero bitted)
K003	SA (Sargent LA) SC (Schlage C)		

* Finish 19 (Black) is available only for K001 with SC, SCE, SCF, SX, G23, or G45 keyways.

** Cylinders with A62/AST/ASV/G23/G45 keyways come with no keys

EXAMPLES: **K001SC26DA2**
K001G2326DNK-6
K002AW4A2

Yale Conversion Kit

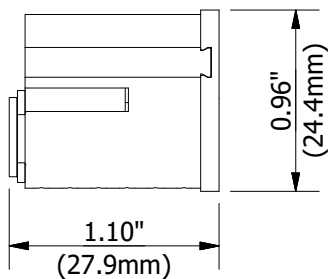
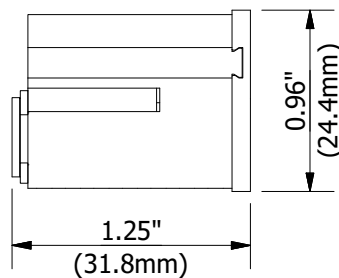
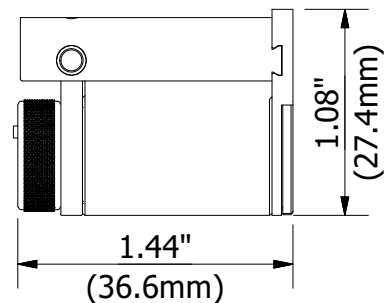
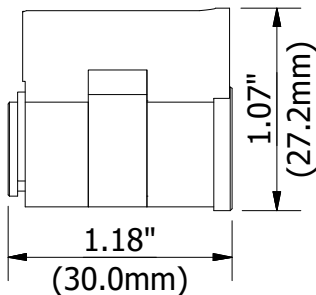
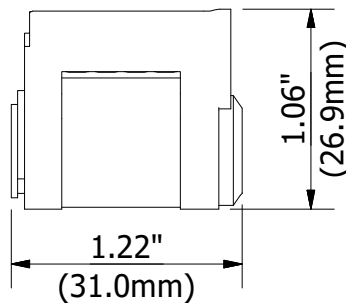
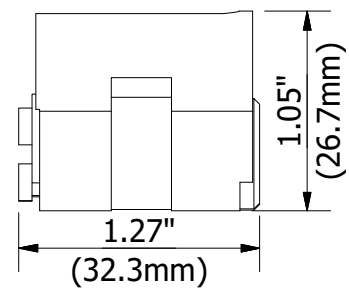
Part Number	Description
KIT-K001YA	Converts K001* to fit Yale levers

* K001 cylinder not included

- ▶ Solid brass construction
- ▶ Exact OEM pinning specifications
- ▶ Precision CNC machined
- ▶ 5 popular industry formats

Model	Description	Keying
IC6	Best small format core, 6 pin	Uncombined, no keys
IC7	Best small format core, 7 pin	Uncombined, no keys
LFIC	Schlage large format core, 6 pin	1-bitted, incl 2 keys
SIC	Sargent large format core, 6 pin	Uncombined, incl 2 keys
CIC	Corbin large format core, 6 pin	0-bitted, incl 2 keys
MIC	Medeco large format core, Schlage keyway, 6 pin*	Uncombined, incl 2 keys

* Use with KIT-PIN03 pinning kit.

**IC6****IC7****LFIC****SIC****CIC****MIC**

- Individual items are not paired by horizontal position.
- Horizontal borders divide groups only in the columns they cross. A cell that continues without a dividing line applies to every group it spans. Select one applicable option from each column, observing the footnotes.
- Code order: Model + Keyway + Finish + Keying.
- As a check: IC6 and IC7 share the first KEYWAY group; the next KEYWAY group applies only to IC7. LFIC uses separate KEYING blocks for its two keyway groups.

Model	Keyway		Finish	Keying	
IC6 IC7	A (Best A) B (Best B) C (Best C) D (Best D) DD (Best DD) E (Best E) F (Best F) G (Best G) H (Best H)	J (Best J) K (Best K) L (Best L) M (Best M) Q (Best Q) R (Best R) 1C (Arrow 1C) 1D (Arrow 1D)	4 (Satin Brass) 19 (Black) 26D (Satin Chrome)	N/A	
IC7	TA (Best TA) TB (Best TB) TC (Best TC) TD (Best TD) TE (Best TE)	WA (Best WA) WB (Best WB) WC (Best WC) WD (Best WD) WG (Best WG) WH (Best WH)			
LFIC	SC (Schlage C) SCE (Schlage E) SCF (Schlage F) SX (Schlage C~K)				B1 (1-bitted)
	G23 (Schlage C123) G45 (Schlage C145)				NB (1-bitted, no keys)
SIC	SA (Sargent LA) SAX (Sargent LA~LC) SLB (Sargent LB) RA (Sargent RA)		4 (Satin Brass) 26D (Satin Chrome)	N/A	
CIC	CL4 (Corbin L4)				
MIC	SC (Schlage C)				

EXAMPLES: IC7A26D
 LFICSCF4B1
 SICSA26D
 CICCLR4
 MICSC26D

MIC Pinning Kit

Part Number	Description
KIT-PIN03	MIC pinning kit

- ▶ Color coded for easy identification
- ▶ Economic alternative to originals
- ▶ Matches original manufacturers' codes

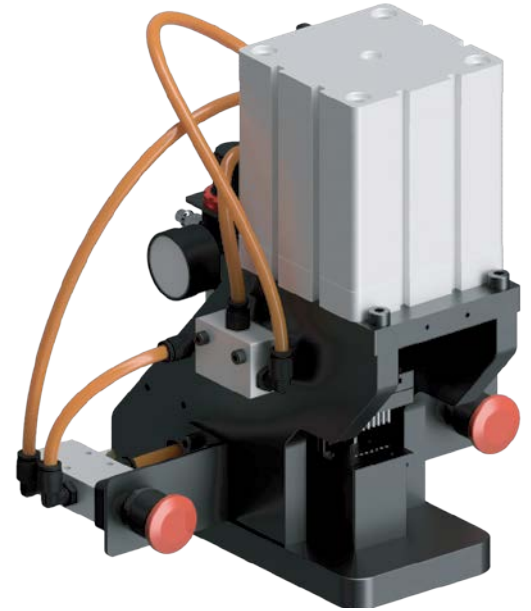
Part Number	Description	Bitting
IC6A4K5	Green paint	7****2
IC6A4K6	Red paint	1****6
IC7A4K7	Green paint	7*****2
IC7A4K8	Red paint	1*****4
LFICSC19-A	US19 finish	4****3
LFICSC19-B	US19 finish	5****8
LFICSC19-C	US19 finish	3*****4
SICSA26D-A	US26D finish	3****6
CICCL426D-RED	Red paint	1****4
MICSC19-C	US19 finish	3****4



Corematic

- ▶ Industry first pneumatic capping press
- ▶ Designed for Small Format IC cores
- ▶ Two-handed operation for safety

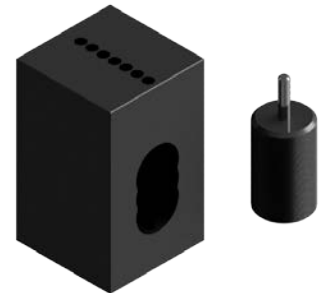
Part Number	Description
CMT-01	Corematic, 0.140" spacing
CMT-02	Corematic, 0.150" spacing
CMT-A01	Capping assembly only, 0.140" spacing
CMT-A02	Capping assembly only, 0.150" spacing
CMT-S01U	Capping strip only, 0.140" spacing
CMT-S02U	Capping strip only, 0.150" spacing



Capping Blocks

- ▶ Precision CNC machined
- ▶ Hardened for durability
- ▶ Compatible with SFIC format

Part Number	Description
CB-02	Capping block w/punch for Best IC core
CB-PUNCH-01	Punch only for CB-02



Pinning Mats

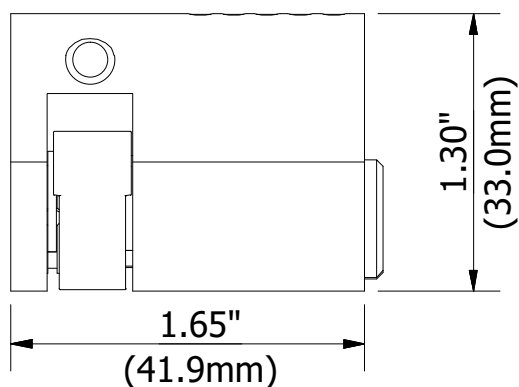
- ▶ Anti-slip provides ideal workspace for pinning
- ▶ Designed with cavities to hold pins, springs and cylinders
- ▶ High quality rubber construction

Part Number	Description
KIT-PINMAT	Pinning mat, 21" x 11"

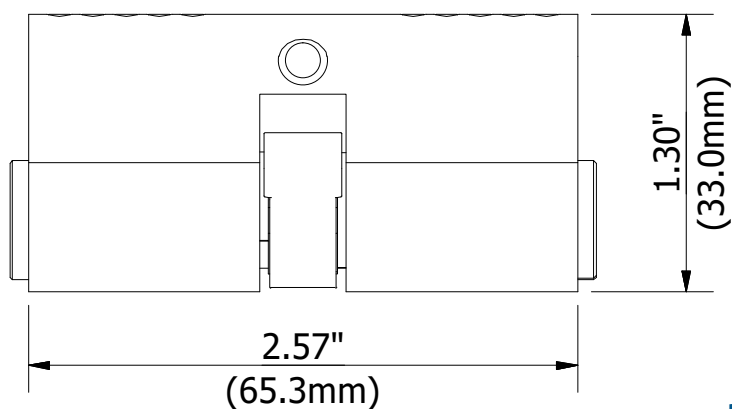


- ▶ Solid brass construction
- ▶ Exact OEM pinning specifications
- ▶ Set-screw design for easy pinning
- ▶ 3 configurations

Model	Description
PR10	Single profile cylinder, 5 pin
PR11	Double profile cylinder, 5 pin
PR12	Double profile cylinder with t-turn, 5 pin (see page 127)



PR10



PR11



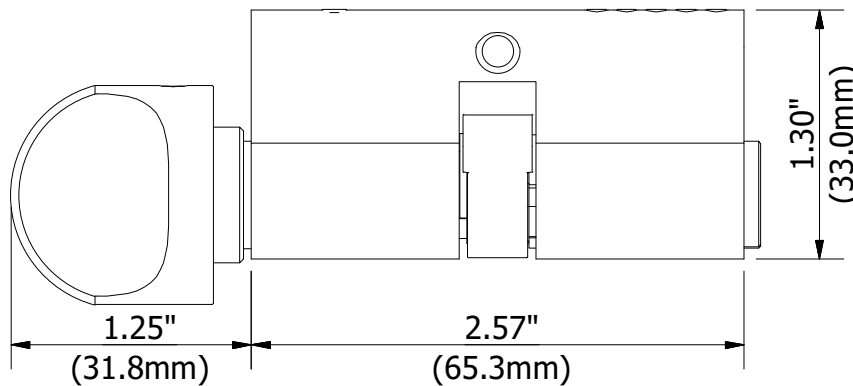
BUILD YOUR PART NUMBER

Individual items are not paired by horizontal position.

Model	Keyway	Finish	Keying
PR10	KW (Kwikset 1176)	3 (Polished Brass)	KD (Keyed different)
PR11	SC (Schlage C)	4 (Satin Brass)	
PR12	YA (Yale 8)	26D (Satin Chrome)	

EXAMPLE: PR11SC3KD

Component	Meaning
PR11 — Model	Double profile cylinder
SC — Keyway	Schlage C
3 — Finish	Polished Brass
KD — Keying	Keyed different

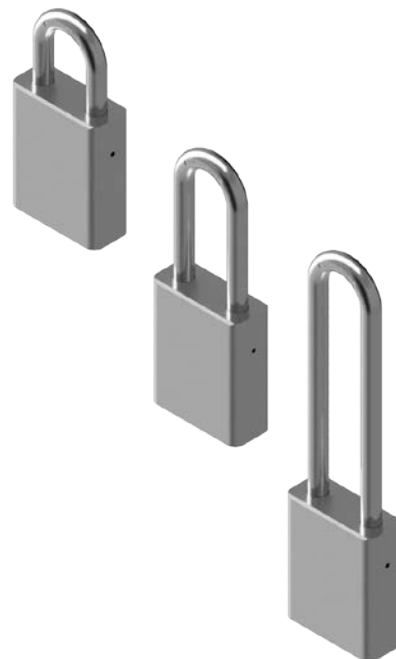


PR12

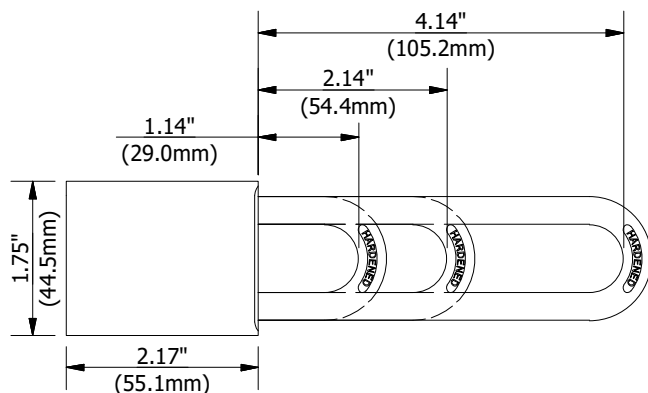


- ▶ Solid brass body construction
- ▶ Hardened shackles
- ▶ Double ball locking
- ▶ 3 shackle lengths available

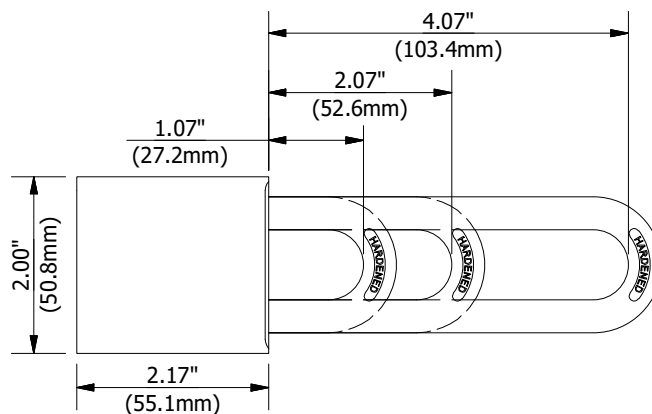
Model	Description	Accepts
P175	1-3/4" body width, 5/16" shackle dia.	K001
P200	2" body width, 3/8" shackle dia.	
ICP175	1-3/4" body width, 5/16" shackle dia.	IC6/IC7
ICP200	2" body width, 3/8" shackle dia.	
LFICP175	1-3/4" body width, 5/16" shackle dia.	LFIC
LFICP200	2" body width, 3/8" shackle dia.	



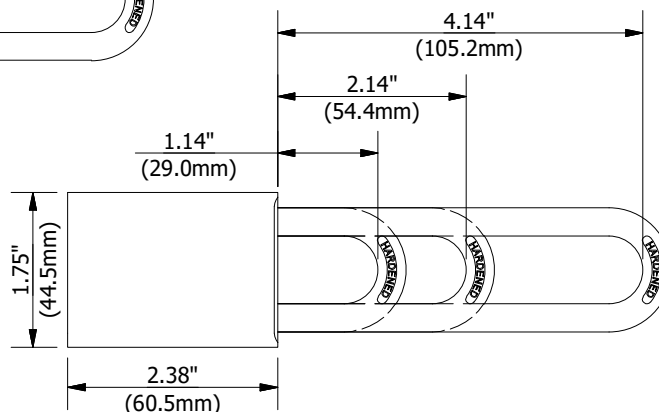
Drawings are shown at 50% of original size.



P175



P200



ICP175

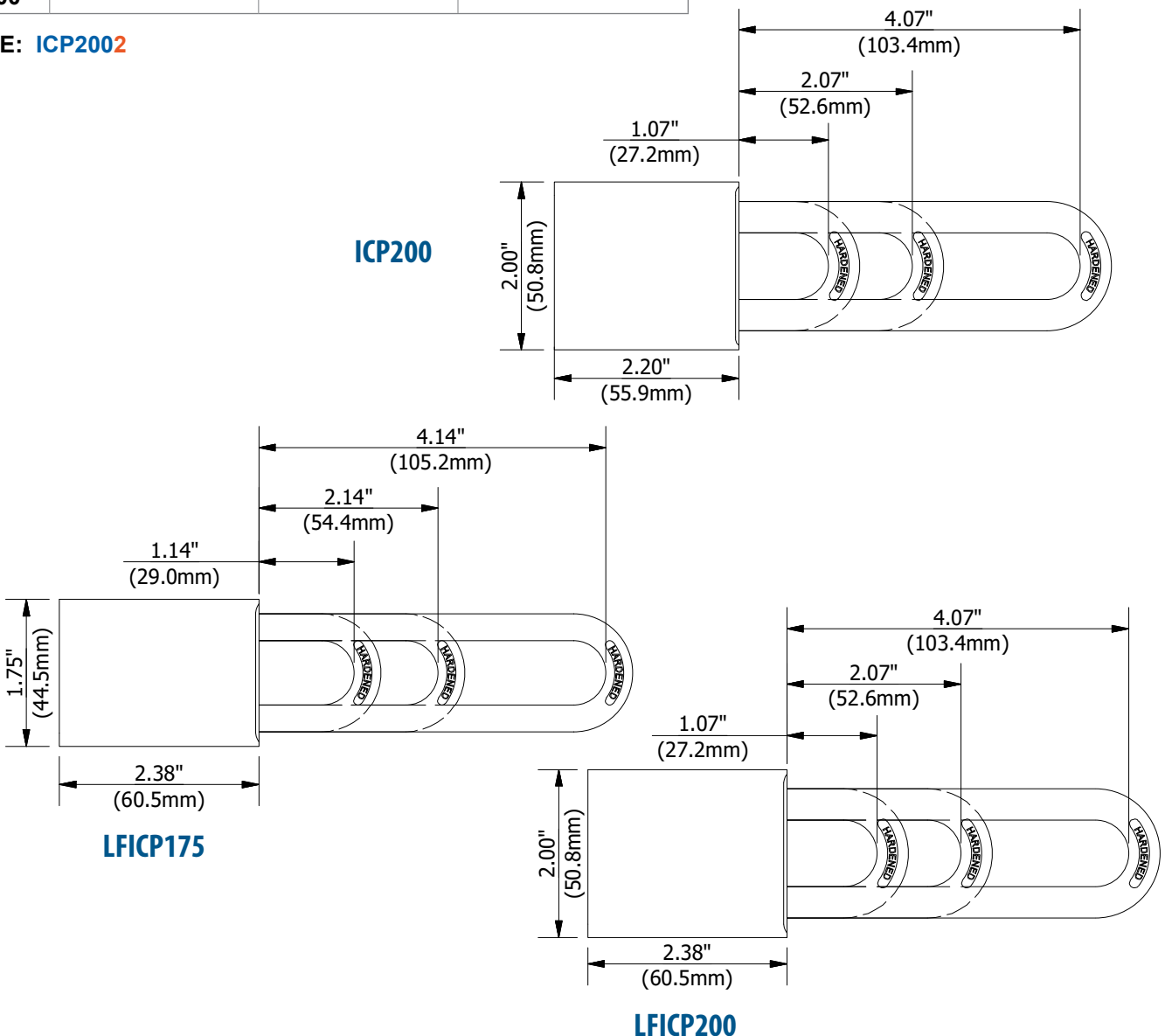
Individual items are not paired by horizontal position.

Model	Shackle Clearance	Keyway	Keying
P175 P200	1 (1") 2 (2") 4 (4")	SC (Schlage C) SX (Schlage C~K) KW (Kwikset 1176) WR (Weiser E)	OB (Zero bitted) Cylinders are drilled 6, pinned 5.

EXAMPLE: **P1751SCOB**

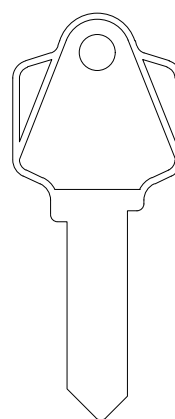
Model	Shackle Clearance	Keyway	Keying
ICP175 ICP200 LFICP175 LFICP200	1 (1") 2 (2") 4 (4")	N/A	N/A

EXAMPLE: **ICP2002**

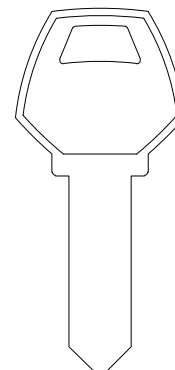


- ▶ High quality brass or nickel silver material
- ▶ Precision milled, matching OEM quality
- ▶ Available in most popular standard or SFIC keyways

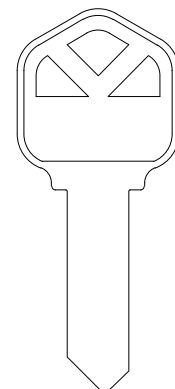
Model	Description
KB5AWPB-50	Brass keys, Arrow 1179, 5 pin, 50 pack
KB5CBPB-50	Brass keys, Corbin 60, 5 pin, 50 pack
KB6CL4PB-50	Brass keys, Corbin L4, 6 pin, 50 pack
KB6RD1PB-50	Brass keys, Russwin D1, 6 pin, 50 pack
KB5KWPB-50	Brass keys, Kwikset 1176, 5 pin, 50 pack
KB6SAPB-50	Brass keys, Sargent LA, 6 pin, 50 pack
KB6SLBPB-50	Brass keys, Sargent LB, 6 pin, 50 pack
KB6RAPB-50	Brass keys, Sargent RA, 6 pin, 50 pack
KB5SCPb-50	Brass keys, Schlage C, 5 pin, 50 pack
KB6SCEPB-50	Brass keys, Schlage E, 6 pin, 50 pack
KB6SCFPB-50	Brass keys, Schlage F, 6 pin, 50 pack
KB5SEPB-50	Brass keys, Segal 9, 5 pin, 50 pack
KB5WRPB-50	Brass keys, Weiser E, 5 pin, 50 pack
KB5YAPB-50	Brass keys, Yale 8, 5 pin, 50 pack
KB6YGAPB-50	Brass keys, Yale GA, 6 pin, 50 pack



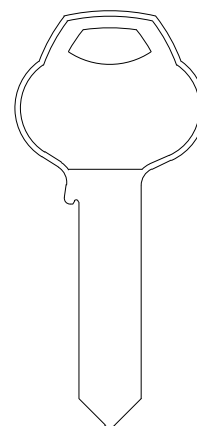
Arrow



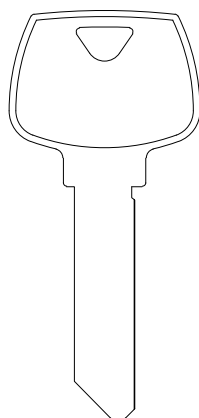
Corbin



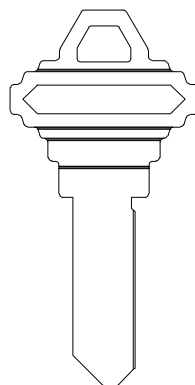
Kwikset



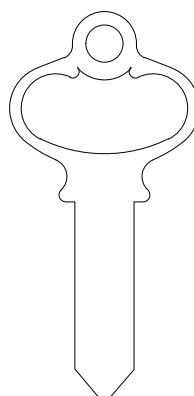
Russwin



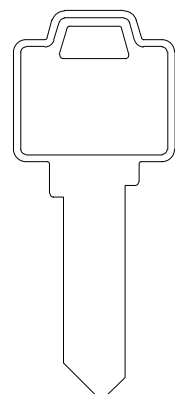
Sargent



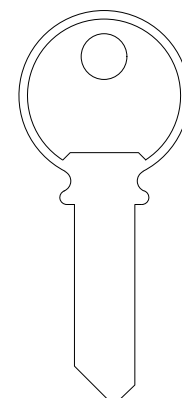
Schlage



Segal

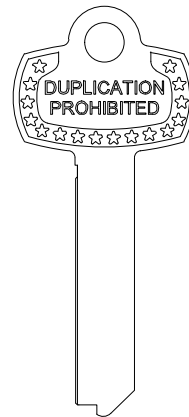


Weiser

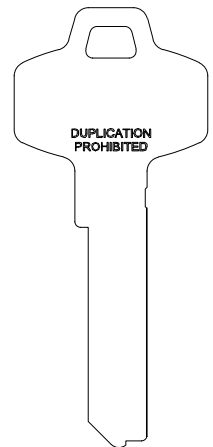


Yale

Model	Description
KBBA-50	Nickel silver keys, Best A, 50 pack
KBBB-50	Nickel silver keys, Best B, 50 pack
KBBC-50	Nickel silver keys, Best C, 50 pack
KBBD-50	Nickel silver keys, Best D, 50 pack
KBBDD-50	Nickel silver keys, Best DD, 50 pack
KBBE-50	Nickel silver keys, Best E, 50 pack
KBBF-50	Nickel silver keys, Best F, 50 pack
KBBG-50	Nickel silver keys, Best G, 50 pack
KBBH-50	Nickel silver keys, Best H, 50 pack
KBBJ-50	Nickel silver keys, Best J, 50 pack
KBBK-50	Nickel silver keys, Best K, 50 pack
KBBL-50	Nickel silver keys, Best L, 50 pack
KBBM-50	Nickel silver keys, Best M, 50 pack
KBBQ-50	Nickel silver keys, Best Q, 50 pack
KBBR-50	Nickel silver keys, Best R, 50 pack
KBBTA-50	Nickel silver keys, Best TA, 50 pack
KBBTB-50	Nickel silver keys, Best TB, 50 pack
KBBTC-50	Nickel silver keys, Best TC, 50 pack
KBBTD-50	Nickel silver keys, Best TD, 50 pack
KBBTE-50	Nickel silver keys, Best TE, 50 pack
KBBWA-50	Nickel silver keys, Best WA, 50 pack
KBBWB-50	Nickel silver keys, Best WB, 50 pack
KBBWC-50	Nickel silver keys, Best WC, 50 pack
KBBWD-50	Nickel silver keys, Best WD, 50 pack
KBBWG-50	Nickel silver keys, Best WG, 50 pack
KBBWH-50	Nickel silver keys, Best WH, 50 pack



Best



Best

Parts Kits

Part Number	Description
KIT-PART01	Mortise cylinder cam kit
KIT-PART02	IC mortise housing cam kit
KIT-PART03A	Rim cylinder parts kit
KIT-PART04A	Collars kit

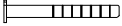
KIT-PART01

 CAM1-AR Quantity: 10 pcs	 CAM1-BE Quantity: 10 pcs	 CAM1-CL Quantity: 10 pcs	 CAM1-SA Quantity: 10 pcs	 CAM1-SL Quantity: 10 pcs	 CAM1-ST Quantity: 10 pcs
 CAM1-TS Quantity: 10 pcs	 CAM4-AR Quantity: 10 pcs	 CAM4-CL Quantity: 10 pcs	 CAM4-SA Quantity: 10 pcs	 CAM4-SL Quantity: 10 pcs	 CAM4-ST Quantity: 10 pcs
 CAM4-TS Quantity: 10 pcs	 SCR-01 Quantity: 100 pcs	Intentionally Empty			

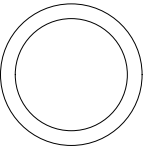
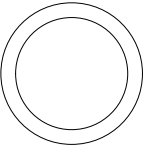
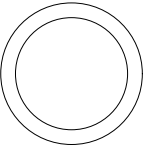
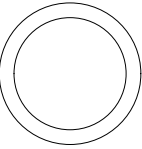
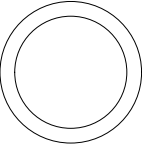
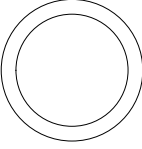
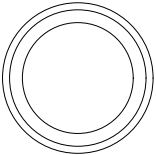
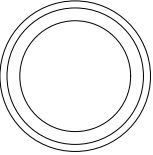
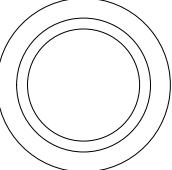
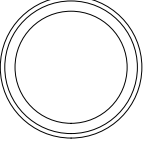
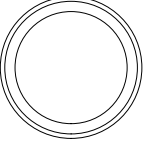
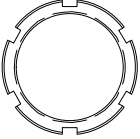
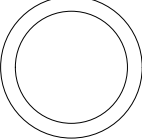
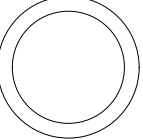
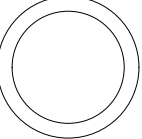
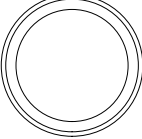
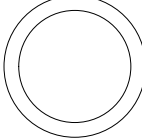
KIT-PART02

 CAM2-AR Quantity: 10 pcs	 CAM2-BE Quantity: 10 pcs	 CAM2-CL Quantity: 10 pcs	 CAM2-SA Quantity: 10 pcs	 CAM2-SL Quantity: 10 pcs	 CAM2-ST Quantity: 10 pcs
 CAM2-TS Quantity: 10 pcs	 CAM3-AR Quantity: 10 pcs	 CAM3-CL Quantity: 10 pcs	 CAM4-SA Quantity: 10 pcs	 CAM3-SL Quantity: 10 pcs	 CAM3-ST Quantity: 10 pcs
 SCR-03 Quantity: 100 pcs	 SCR-04 Quantity: 100 pcs	 IC-SP1 Quantity: 100 pcs			

KIT-PART03A

 MPT-01 Quantity: 10 pcs	 SCR-02 Quantity: 10 pcs	 CAP-60 Quantity: 10 pcs	 COL4-26D Quantity: 5 pcs	 RPIN-01 Quantity: 10 pcs	Intentionally Empty
 TLP-04 Quantity: 10 pcs	 COL4-3 Quantity: 5 pcs	 COL4-10B Quantity: 5 pcs	 COL4-19 Quantity: 5 pcs	 SPR-06 Quantity: 10 pcs	
				Intentionally Empty	

KIT-PART04A

 COL10-10B Quantity: 5 pcs	 COL10-26D Quantity: 5 pcs	 COL11-10B Quantity: 5 pcs	 COL11-26D Quantity: 5 pcs	 COL12-26D Quantity: 5 pcs	 COL13-26D Quantity: 5 pcs
 COL2-26D Quantity: 5 pcs	 COL2-10B Quantity: 5 pcs	 COL4-26D Quantity: 5 pcs	 COL3-10B Quantity: 5 pcs	 COL3-26D Quantity: 5 pcs	
 COL5 Quantity: 5 pcs	 COL10-19 Quantity: 5 pcs	 COL11-19 Quantity: 5 pcs	 COL12-19 Quantity: 5 pcs	 COL3-19 Quantity: 5 pcs	 COL13-19 Quantity: 5 pcs

Knob/Lever Cylinder Tailpieces

Part Number	Description	Fits
TLP-01-10	Knob/Lever fixed tailpiece, 1.13" length, 10 pack	K001 K003
TLP-02-10	Knob/Lever fixed tailpiece, 0.91" length, 10 pack	
TLP-03-10	Knob/Lever fixed tailpiece, 0.68" length, 10 pack	
TLP-08-10	Knob/Lever fixed tailpiece, 0.98" length, 10 pack	
TLP-05-10	Deadbolt single tailpiece, 10 pack	
TLP-06-10	Deadbolt double tailpiece, 10 pack	
TLP-04-10	Rim cylinder breakoff tailpiece, 10 pack	R118
TLP-07-10	IC Rim housing breakoff tailpiece, 10 pack	ICR
TLP-09-10	IC Rim housing breakoff tailpiece, 10 pack	ICSR

Replacement Parts

Part Number	Description	Fits
CAP-60-10	Retaining cap, 6mm, 10 pack	K001 K003 LFIC
CAP-70-10	Retaining cap, 7mm, 10 pack	
SPR-06-10	Retaining cap pin spring, 10 pack	
RPIN-01-10	Retaining cap pin, 10 pack	K001 K003
RPIN-02-10	Retaining cap pin, 10 pack	LFIC
IC-SP1-10	Spacer, allows 6pin core in 7pin housing, 10 pack	ICM7 ICT7
SCR-04-10	IC mortise housing security screws, 10 pack	CAM1 CAM4
DRV-RT-10	Padlock key retaining driver, 10 pack	P175 P200
KIT-LUG26D	Padlock retainer lug and driver for knob/lever cylinders	
SPR-05-10	Cylinder spring washer, 10 pack	All mortise cylinders All mortise t-turn cylinders All mortise dummy cylinders All IC mortise housings
MPT-01-10	Rim cylinder mounting plate, 10 pack	All rim cylinders All rim dummy cylinders All IC rim housings
SCR-02-10	Rim cylinder mounting screws, 10 pack	
SCR-01-10	Mortise cam screws, #3-48, nylon patched, 10 pack	CAM1 CAM4
SCR-03-10	Mortise cam screws, #3-48, nylon patched, short, 10 pack	CAM2
SCR-05-10	Mort cam/padlock cyl screws, #6-32, nylon patched, 10 pack	CAM3 P175 P200



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