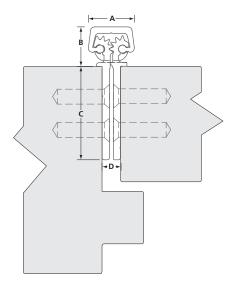
CONTINUOUS GEARED HINGES

FULL CONCEALED / FULL SURFACE

FULL CONCEALED ALUMINUM GEARED HINGES

A110





- UL fire rated
- Delrin bearings, heavy duty
- No door inset, flush mount
- 48" (1219 mm) door width maximum
- 450 lbs (204 kg) door weight maximum
- Undercut Tek screws included
- Power transfer ready model available (PT)
- 1000 lbs (454 kg) high capacity model available for lead lined doors

STANDARD LENGTHS

Inch: 79 / 83 / 85 / 95 / 120

MM: 2006 / 2108 / 2159 / 2413 / 3048

FINISHES

C–Clear anodized

D-Dark bronze anodized

Available in a variety of finishes, models, options and lengths

- please contact for details

A110	HD	С	095	-PT
MODEL	TYPE	FINISH	LENGTH	OPTION
HD: HEAVY DUTY	LL: HIGH	CAPACITY	PT: POWER	TRANSFEI

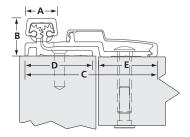
MODEL	Α	В	С	D	Е	CAPACITY ¹
A110	25/32	21/32	1%16	5/16		450
ATTO	(19.8)	(9.5)	(39.7)	(7.9)	_	(204)

IN(MM) (1) LBS (KG) - HIGH CAPACITY MODEL AVAILABLE

FULL SURFACE ALUMINUM GEARED HINGES (SWING CLEAR)

A210





- UL fire rated
- Delrin bearings, heavy duty
- Swing clear application
- No door inset, flush mount
- 48" (1219 mm) door width maximum
- 450 lbs (204 kg) door weight maximum
- Undercut Tek screws and sex-nut bolts included

STANDARD LENGTHS

Inch: 79 / 83 / 85 / 95 / 120

MM: 2006 / 2108 / 2159 / 2413 / 3048

FINISHES

C–Clear anodized

D-Dark bronze anodized

Available in a variety of finishes, models, options and lengths

- please contact for details

A210	HD	С	083	
MODEL	TYPE	FINISH	LENGTH	

MODEL	Α	В	С	D	E	CAPACITY ¹
A210	25/ ₃₂ (19.8)	29/ ₃₂ (23)	3 5/32 (80.6)	15/8 (41.3)	1 ³⁵ ⁄64 (39.3)	450 (204)

(1) LBS (KG) OTHER HIGH CAPACITY MODELS AVAILABLE

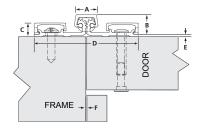
CONTINUOUS GEARED HINGES

FULL SURFACE

FULL SURFACE ALUMINUM GEARED HINGES

A571





- UL fire rated
- Delrin bearings, heavy duty
- For bi-fold applications
- 1/16" (1.6 mm) door inset
- 48" (1219 mm) door width maximum
- 450 lbs (204 kg) door weight maximum
- Undercut Tek screws and sex-nut bolts included

STANDARD LENGTHS

Inch: 79 / 83 / 85 / 95 / 120

MM: 2006 / 2108 / 2159 / 2413 / 3048

FINISHES

C–Clear anodized

D-Dark bronze anodized

Available in a variety of finishes, models, options and lengths

- please contact for details

A571	HD	С	083
MODEL	TYPE	FINISH	LENGTH

MODEL	Α	В	C	D	E ¹	F	CAPACITY ²
Δ571	23/32	23/32	7/16	3 13/ ₃₂	1/16	1/32	450
A3/I	(18.3)	(18.3)	(11.1)	(86.5)	(1.6)	(8.0)	(204)

IN(MM) (1) DOOR INSET (2) LBS (KG)

BB1068/BB1099 SERIES

HEAVY DUTY BALL BEARING TEMPLATE HINGES





- Heavy weight, full mortise
- 5 knuckles, 4 ball bearings
- Steel or stainless steel hinge and pin
- Conforms to ANSI/BHMA A156.1
- ANSI/BHMA A156.7 template hole pattern
- Non-handed
- Flat tips with knock-out bottom
- Wood screws and undercut machine screws included

M	0	D	Е	L	
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BB1068: Steel hinge and pin

BB1099: Stainless steel hinge and pin

OPTIONS

N: Non-removable pin (NRP)

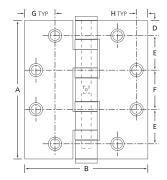
BB1068 -	4545	-	26D	-	N
MODEL	SIZE		FINISH		OPTION

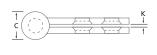
SIZE	INCHES	MM	GAUGE	HOLES	SCREWS INCL MACHINE	UDED WOOD	QTY ¹
4545	4½ x 4½	114.3 x 114.3	0.180	8	#12-24 x ½	#12 x 11/4	3/48
545	5 x 41/2	127 x 114.3	0.190	8	#12-24 x ½	#12 x 11/4	3/48
55	5 x 5	127 x 127	0.190	8	#12-24 x ½	#12 x 11/4	3/48

(1) 3/48 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

Р	26D	32D*
PRIME COATED	SATIN CHROME	SATIN STAINLESS STEEL

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS. (*) 304 STAINLESS STEEL, BB1099-4545 ONLY





SIZE	Α	В	С	D	Е	F	G	Н	K
4545	4½ (114.3)	4½ (114.3)	3/4 (19)	1/2 (12.7)	1½ (28.6)	1 ¹⁵ ⁄64 (31)	1 (25.4)	3/8 (9.5)	1/16 (1.8)
545	5 (127.0)	4½ (114.3)	3/ ₄ (19)	1/2 (12.7)	11/8 (28.6)	1 15/64 (31)	1 (25.4)	3/8 (9.5)	1/16 (1.8)
55	5 (127.0)	5 (127.0)	3/4 (19)	½ (12.7)	1¼ (31.8)	1 ¹⁵ / ₃₂ (37.7)	1 (25.4)	3/8 (9.5)	1/16 (1.8)

BB1079/BB1091 SERIES

BALL BEARING TEMPLATE HINGES





- Standard weight, full mortise
- 5 knuckles, 2 ball bearings
- Steel or stainless steel hinge and pin
- Conforms to ANSI/BHMA A156.1
- ANSI/BHMA A156.7 template hole pattern
- Non-handed
- Flat tips with knock-out bottom
- Wood and undercut machine screws included

MODELS

BB1079: Steel hinge and pin

BB1091: Stainless steel hinge and pin

OPTIONS

N: Non-removable pin (NRP)

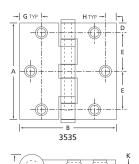
BB1079 -	- 454 -	26D	-	N	
MODEL	SIZE	FINISH		OPTION	

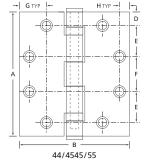
SIZE	INCHES	MM	GAUGE	HOLES	SCREWS INCL MACHINE	UDED WOOD	QTY ¹
3535	31/2 x 31/2	88.9 x 88.9	0.123	6	#10-24 x ½	#9 x 1	3/48
44	4 x 4	101.6 x 101.6	0.130	8	#12-24 x ½	#12 x 11/4	3/48
4545	4 ½ x 4 ½	114.3 x 114.3	0.134	8	#12-24 x ½	#12 x 11/4	3/48
55	5 x 5	127 x 127	0.146	8	#12-24 x ½	#12 x 11/4	3/48

(1) 3/48 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

Р	15	26D	3	32D*
PRIME COATED	SATIN NICKEL	SATIN CHROME	POLISHED BRASS	SATIN STAINLESS STEEL

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS. (*) 304 STAINLESS STEEL, BB1091-4545 ONLY





SIZE	Α	В	C	D	Е	F	G	Н	K
3535	3 ½ (88.9)	3 ½ (88.9)	1/2 (12.7)	23/ ₆₄ (9.1)	1 ²⁵ ⁄ ₆₄ (35.4)	_	11/ ₁₆ (17.5)	23/ ₆₄ (9.1)	1/16 (1.6)
44	4	4	% 16	1/2	1	³¹ / ₃₂	3/4	3/8	1/16
	(101.6)	(101.6)	(14)	(12.7)	(25.5)	(24.6)	(19.1)	(9.5)	(1.6)
4545	4½	4½	19/ ₃₂	1/2	1 1/8	1 ¹⁵ ⁄64	1	3/8	1/16
	(114.3)	(114.3)	(15.2)	(12.7)	(28.6)	(31)	(25.4)	(9.5)	(1.6)
55	5	5	5 /8	1/2	1 ½	1 ³¹ / ₆₄	1	3/8	1/16
	(127)	(127)	(15.9)	(12.7)	(31.8)	(37.7)	(25.4)	(9.5)	(1.6)

1079/1091 SERIES

PLAIN BEARING TEMPLATE HINGE





- Standard weight, full mortise
- 5 knuckles, plain bearing
- Steel or stainless steel hinge and pin
- ANSI/BHMA A156.7 template hole pattern
- Non-handed
- Flat tips with knock-out bottom
- Wood and undercut machine screws included

MODELS

1079: Steel hinge and pin

1091: Stainless steel hinge and pin

OPTIONS

N: Non-removable pin (NRP)

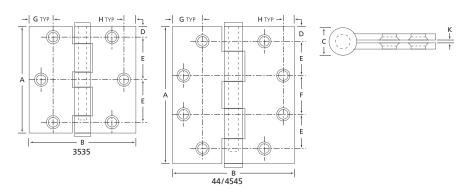
1079	-	44	-	26D	-	N	
MODEL		SIZE		FINISH		OPTION	

SIZE	INCHES	MM	GAUGE	HOLES	SCREWS INCL MACHINE	UDED WOOD	QTY ¹
3535	31/2 x 31/2	88.9 x 88.9	0.125	6	#10-24 x ½	#9 x 1	3/48
44	4 x 4	101.6 x 101.6	0.130	8	#12-24 x ½	#12 x 11/4	3/48
4545	4½ x 4½	114.3 x 114.3	0.134	8	#12-24 x ½	#12 x 11/4	3/48

(1) 3/48: QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS.

(*) 304 STAINLESS STEEL, 1091-4545 ONLY



SIZE	А	В	С	D	Е	F	G	Н	K
3535	3 ½ (88.9)	3 ½ (88.9)	1/2 (12.7)	23/ ₆₄ (9.1)	1 ²⁵ / ₆₄ (35.4)	_	11/ ₁₆ (17.5)	23/ ₆₄ (9.1)	1/ ₁₆ (1.6)
44	4 (101.6)	4 (101.6)	9/16 (14)	1/2 (12.7)	1 (25.5)	31/ ₃₂ (24.6)	³ / ₄ (19.1)	3/8 (9.5)	1/16 (1.6)
4545	4½ (114.3)	4½ (114.3)	19/ ₃₂ (15.2)	½ (12.7)	11/8 (28.6)	1 ¹⁵ ⁄ ₆₄ (31)	1 (25.4)	3/8 (9.5)	1/ ₁₆ (1.6)



PRO B77 SERIES

HALF MORTISE TEMPLATE HINGE



- Standard weight, half mortise
- 5 knuckles, 2 ball bearings
- Steel with steel pin
- ANSI/BHMA A156.7 template hole pattern
- Handed
- Flat tips with knock-out bottom
- Non-removable pin (NRP)
- High quality primer coat finish (CP)

B77	CP	NRP	– L	
MODEL	FINISH		HAND	

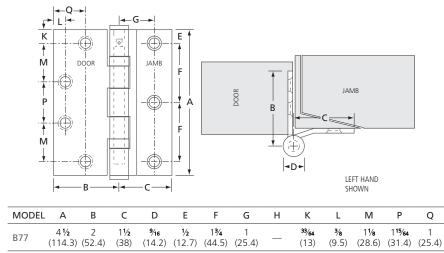
-L: LEFT HAND -R: RIGHT HAND

MODEL	HINGE SIZE INCHES	MM	GAUGE	HOLES	SCREWS INCLUMACHINE	J DED WOOD	QTY ¹
BB77	41/2	114.3	0.134	7	#12-24 x ½ (x3)	#12 x 11/4 (x4)	3/60

(1) 3/60 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

PRIME COATED

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS.



IN (MM)

BB1067 SERIES

HALF MORTISE TEMPLATE HINGE





- Standard weight, half mortise
- 5 knuckles, 2 ball bearings
- Steel with steel pin
- ANSI/BHMA A156.7 template hole pattern
- Handed
- Flat tips with knock-out bottom
- Wood and undercut machine screws and through-bolts included

OPTIONS

N: Non-removable pin (NRP)

BB1067	L	-	45	-	Р	-	N
MODEL	HAND		SIZE		FINISH		

L: LEFT HAND R: RIGHT HAND

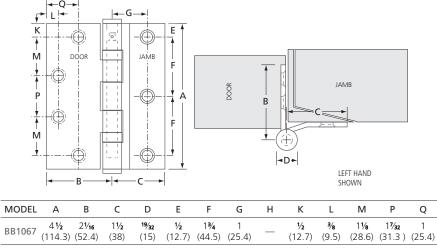
MODEL	HINGE SIZE INCHES	MM	GAUGE	HOLES	BOLT / SCREW BOLT	'S INCLUDED WOOD	QTY ¹
BB1067 45	41/2	114.3	0.134	7	#1/4 x 20 (x3)*	#12 x 11/4 (x4)	3/48

(*) FOR DOORS 1¾" (45 MM) THICK (1) 3/48 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

Р

PRIME COATED

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS.



IN (MM)

BB1073 SERIES

HALF SURFACE TEMPLATE HINGE



- Standard weight, half surface
- 5 knuckles, 2 ball bearings
- Steel with steel pin
- ANSI/BHMA A156.7 template hole pattern
- Handed
- Flat tips with knock-out bottom
- Non-removable pin (NRP)
- High quality primer coat finish (P)

BB1073	L	-	45	-	Р	-	N
MODEL	HAND		SIZE		FINISH		

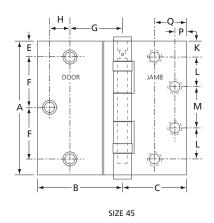
L: LEFT HAND R: RIGHT HAND

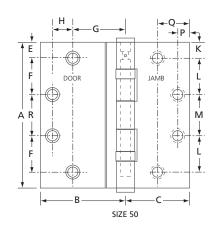
MODEL	HINGE SIZE INCHES	MM	GAUGE	HOLES	BOLT / SCREV BOLT	VS INCLUDED WOOD	QTY ¹
BB1073 45	41/2	114.3	0.134	7	#1/4 x 20 (x3)*	#12 x 11/4 (x4)	3/48
BB1073 50	5	127	0.146	8	#1/4 x 20 (x3)*	#12 x 11/4 (x4)	3/48

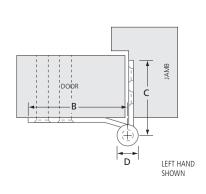
(*) FOR DOORS 1¾" (45 MM) THICK (1) 3/48 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

PRIME COATED

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS.







45 4½ 2% 2% 6 2½ 6 3% 4 ½ 134 1½ % 6 ½ 11% 1½ 3% (114.3) (65) (52.4) (15.4) (12.7) (44.5) (38.1) (14.3) (12.7) (28.6) (31.3) (9.5) (29.5)	4.5	
E 27/ 21/- 5/ 1/ 11/ 11/ 7/ 1/ 11/ 131/- 3/	45	_
5 27/8 21/16 5/6 1/2 11/4 11/2 7/8 1/2 11/4 13/164 3/8 (127) (73.0) (52.4) (15.8) (12.7) (31.8) (38.1) (22.2) (12.7) (31.8) (37.7) (9.5) (21.7)	50	1½ (38.1)

IN(MM)

PRO 148 SERIES

SWING CLEAR TEMPLATE HINGES





- Standard weight
- 5 knuckles, 2 ball bearings
- Steel with non-rising steel pin
- ANSI/BHMA A156.7 template hole pattern
- Allows door to fully clear door opening
- For non-bevelled (square) doors
- Handed, field reversible
- Flat tips with knock-out bottom

148 – 15 –	454 –	L
MODEL FINISH	SIZE	HAND

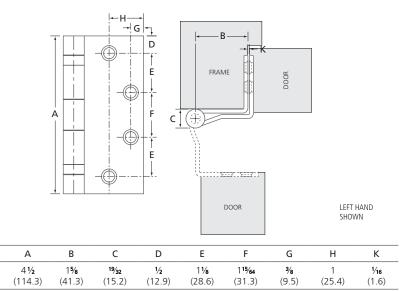
L: LEFT HAND R: RIGHT HAND

SIZE	INCHES	MM	GAUGE	HOLES	SCREWS INCL MACHINE	.UDED WOOD	QTY ¹
454	41/2×4	114.3 x 101.6	0.134	8	#12-24 x ½	#12 x 11/4	3/30

(1) 3/30 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY. OTHER FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS.

SATIN NICKEL

OTHER SIZES AND FINISHES AVAILABLE BY SPECIAL ORDER, PLEASE CONTACT FOR DETAILS.



454 IN(MM)

SIZE

SP1060/SP1061 SERIES

SINGLE ACTING TEMPLATE SPRING HINGES





- Standard weight, full mortise
- 3 knuckle, 2 anti-friction nylon bearings
- Steel or stainless steel
- ANSI/BHMA A156.7 template hole pattern
- UL listed *
- Non-handed
- Adjustable spring tension (tool included)
- Wood and/or undercut machine screws included

MODELS

SP1060: Steel hinge

SP1061: Stainless steel hinge

NOTE: For best results, use with ball bearing hinges of the same size.

(*) Minimum of two (2) spring hinges per fire-rated door

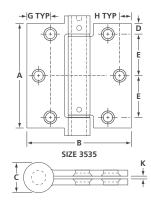
SP1060 -	4545	- 26D
MODEL	SIZE	FINISH

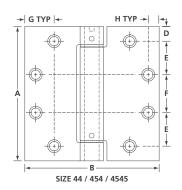
SIZE	INCHES	MM	GAUGE	HOLES	SCREWS INCLU MACHINE	J DED WOOD	QTY ¹
3535	31/2×31/2	88.9x88.9	0.100	6	#10-24 x ½	#9 x 3/4	2 / 48
44	4x4	101.6x101.6	0.134	8	#10-24 x ½	#9 x 3/4	2 / 48
4545	4 1/2 × 4 1/2	114.3 x 114.3	0.134	8	#12-24 x ½	#12 x 11/4	2 / 40

(1) 2/48 : QUANTITY PER BOX / QUANTITY PER CASE. HINGES NOT SOLD INDIVIDUALLY.

P	26D	3	32D*
PRIME COATED	SATIN CHROME	POLISHED BRASS	SATIN STAINLESS STEEL

OTHER FINISHES AVAILABLE, MAY REQUIRE SPECIAL ORDER AND/OR ADDITIONAL LEAD TIME. ALL STEEL HINGES ARE ANSI K81071F (*) 304 STAINLESS STEEL / ANSI K51071F, SP1061-4545 ONLY





SIZE	MAXIMUM DOOR WT. ¹	SPRING HINGES	BUTT HINGES ²
	50 (22.7 kg)	2	1
3535	70 (31.8 kg)	2	1
	90 (40.9)	3	_
	60 (27.2)	2	1
44	85 (38.6)	2	1
	110 (50.0)	3	_
	70 (31.8)	2	1
454 4545	115 (52.3)	2	1
	150 (68.2)	3	_

(1) LB(KG) MAXIMUM SIZE: 48 X 90" (1219 X 2286 MM). MAX. FIRE DOOR SIZE: 36 X 84" (914 X 2134 MM). (2) FOR BEST RESULTS, USE BB1079 HINGES.

SIZE	Α	В	С	D	Е	F	G	Н	K
3535	3 1/2	3 1/2	45/64	11/32	113/32		11/16	23/64	1/16
3333	(88.9)	(88.9)	(18)	(9.0)	(35.4)		(17.5)	(9.1)	(1.6)
4.4	4	4	25/32	1/2	1	31/32	3/4	3/8	1/16
44	(101.6)	(101.6)	(19.6)	(13)	(25.5)	(24.6)	(19.1)	(9.5)	(1.6)
4545	41/2	41/2	25/32	1/2	1 ½	17/32	1	3/8	1/16
4545	(114.3)	(114.3)	(19.6)	(12.9)	(28.6)	(31.3)	(25.4)	(9.5)	(1.6)

PRO SERIES

REINFORCEMENT & FILLER PLATES



- Steel reinforcement plate
- ANSI/BHMA A156.7 template hole pattern
- Available with various offsets
- Holes accommodate #12-24 screws
- Fastening hardware NOT included

FINISH	DESCRIPTION	QTY ¹
Zinc plated	$8 \times 1\%6$ " (201 x 30 mm) Template reinforcement plate for 4% (114.3) hinge, with 32 (2.5) offset	12/120
Zinc plated	$8 \times 1\%6$ " (201 x 30 mm) Template reinforcement plate for 4% " (114.3 mm) hinge, with $\%6$ " (1.2 mm) offset	12/120
Zinc plated	$8 \times 13\%$ " (201 x 30 mm) Template reinforcement plate for 4% " (114.3 mm) hinge, flat, no offset	12/120
	Zinc plated Zinc plated	Zinc plated 8x1¾/6" (201x30 mm) Template reinforcement plate for 4½ (114.3) hinge, with ¾2 (2.5) offset Zinc plated 8x1¾/6" (201x30 mm) Template reinforcement plate for 4½" (114.3 mm) hinge, with ½6" (1.2 mm) offset 8x1¾/6" (201x30 mm) Template reinforcement plate for

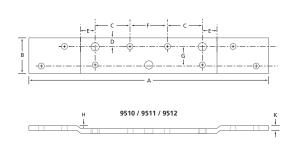
(1) 12/120 : QUANTITY PER BOX / QUANTITY PER CASE.

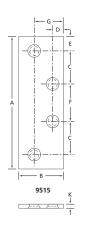


- Steel filler plate
- ANSI A156.7 template hole pattern
- Holes accommodate #12-24 screws
- Fastening hardware included

MODEL	FINISH	DESCRIPTION	QTY ¹
9515	Zinc plated	Template filler plate for 4½x1½" (114.3x38mm) hinge leaf	50/150

(1) 50/150 : QUANTITY PER BOX / QUANTITY PER CASE.





MODEL	А	В	С	D	Е	F	G	Н	K
9510	7 ¹⁵ / ₁₆ (202)	1 3/16 (30)	1½ (28.6)	17/ ₆₄ (6.7)	17/ ₃₂ (13.5)	1 ¹⁵ / ₆₄ (31)	5/8 (15)	³ / ₃₂ (2.5)	5/32 (4)
9511	7 ¹⁵ / ₁₆ (202)	1 3/16 (30)	1½ (28.6)	17/ ₆₄ (6.7)	17/ ₃₂ (13.5)	1 ¹⁵ ⁄ ₆₄ (31)	5/8 (15)	1/16 (1.2)	5/ ₃₂ (4)
9512	7 ¹⁵ / ₁₆ (202)	1 3/16 (30)	1½ (28.6)	17/ ₆₄ (6.7)	17/ ₃₂ (13.5)	1 ¹⁵ / ₆₄ (31)	5/8 (15)	_	5/ ₃₂ (4)
9515	4 ½ (114.3)	1½ (38.1)	1½ (28.6)	3/8 (9.5)	³³ / ₆₄ (13.1)	1 ¹⁵ ⁄ ₆₄ (31)	1 (25.4)	_	5/32 (4)



1020 SERIES

UNIVERSAL REPLACEMENT HINGE



- Non handed
- Surface mounted
- Anti-friction ball bearings for smooth pin rotation
- Precision machined, extruded aluminum
- For aluminum frame doors up to 300 lbs (136 kg)
- 1/8" (3 mm) Vertical door adjustment
- Can accommodate 1/8" (3 mm) recessed doors
- Easy installation

INCLUDES

- (2) Hinges
- (2) #1020S 1/8" (3 mm) shim plates (matching finish)
- (4) Adhesive cover strips (matching finish)
- (1) Hex key
- (12) Tamper resistant fasteners

#1020SC Shim plate pairs available separately.

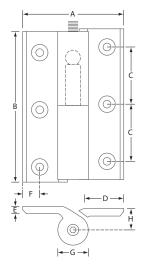
10	020 –	28
MC	DDEL	FINISH

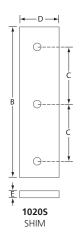
MODEL	HINGE SIZE INCHES	MM	GAUGE	HOLES	QTY ¹
1020	31/4×5	82.6 x 127	0.218	6	8 / 32

(1) 8/32 : QUANTITY PER INNER CARTON / QUANTITY PER CASE. HINGES SOLD IN PAIRS, NOT SOLD INDIVIDUALLY.

20D	28
DARK BRONZE	ALUMINUM

OTHER FINISHES AVAILABLE, MAY REQUIRE SPECIAL ORDER AND/OR ADDITIONAL LEAD TIME.





MODEL	Α	В	C	D	Е	F	G	Н
1020	3 1/4 (82.6)	5 (127)	2 (50.8)	1 (25.4)	7 / ₃₂ (5.6)	9/16 (14)	1 (25.4)	3/4 (19)
10205	_	5 (127)	2 (50.8)	1 (25.4)	1/8 (3.2)	7 / ₃₂ (5.6)	1 (25.4)	_

IN (MM)