



Push Plates, Pulls

Push Bars, Pull Plates, Door Protection Plates

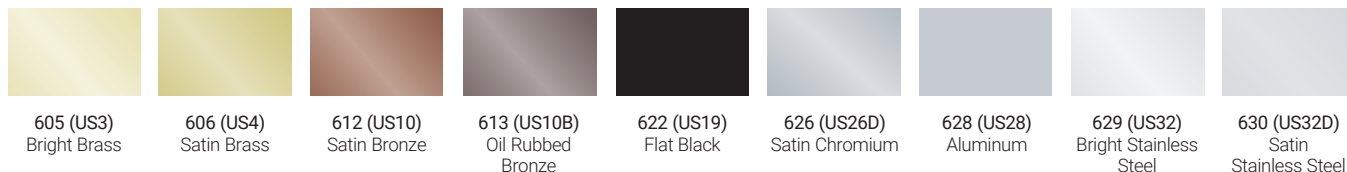
Push Plates, Pulls, Push Bars, Pull Plates, Door Protection Plates

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Finishes (Product Specific)

Architectural



Special Finish Coating

Available with antimicrobial technology that is known to inhibit the growth of microbes. Offered on 630 Satin Stainless Steel only.

Finishes shown are representative only. Not all products are available in all finishes listed.

96 Series Push Plates

Plates are available with optional cutout for cylinders or thumbturns

SPECIFICATIONS:

MOUNTING FASTENERS:

MATERIAL:

THICKNESS:

STANDARD CUTOUT FOR CYLINDER:

STANDARD CUTOUT FOR THUMBTURN:

FINISHES:

- #6 x 5/8 OH PH SMS
- Brass, Stainless Steel Grade 304
- 0.050"
- 1-1/4" DIA
- 3/8" DIA
- 605 (US3) bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum - Anodized, 630 (US32D) Satin Stainless Steel
- Antimicrobial Coating available on 630 (US32D) only



How to Order — Push Plates

QUANTITY	SERIES	PLATE THICKNESS	SIZE	FINISH	HANDING	OPTIONS
10	9	6	2	630	RH	—
Ordering Example: 9 6 2 630		6 — .050"	2 — 3-1/2" X 15" 3 — 4" X 16" 5 — 6" X 16" (630 ONLY) 6 — 8" X 16"	605 — Bright Brass 606 — Satin Brass 612 — Satin Bronze 613 — Oil Rubbed Bronze 628 — Satin Aluminum, Anodized 630 — Satin Stainless Steel 630AM — Satin Stainless Steel with Antimicrobial	RH — Right Hand LH — Left Hand	CTC PREP B — 5-1/2" CTC C — 6" CTC D — 8" CTC E — 10" CTC F — 12" CTC PREP FOR LOCKING HARDWARE C — Cylinder T — Thumbturn AM — Antimicrobial Coating

Pulls

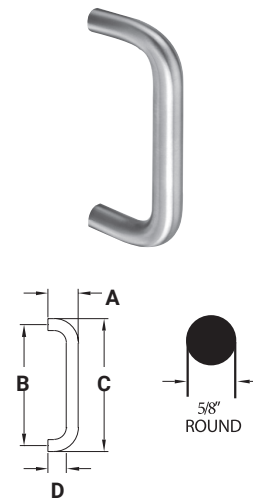
1 Series Door Pull - 5/8" Round Straight

Mounting Options: - Type 1 (default), 12, 15.
- Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZE:** • 5-1/2"
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel Grade 304
• Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
1B	2"	5-1/2"	6-3/4"	1-3/8"



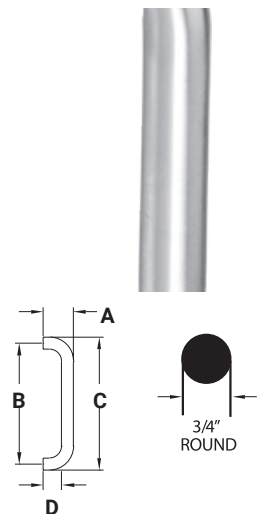
2 Series Door Pull - 3/4" Round Straight

Mounting Options: - Standard - Type 1 (default), 6, 6R, 8, 12, 15.
- Back to Back - Type 5 (default), 13 (for 1/2" glass doors).
- Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZES:** • 6" and 8"
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel Grade 304
• Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
2C	2-1/4"	6"	6-3/4"	1-1/2"
22C	2-1/4"	6" (BTB)	6-3/4"	1-1/2"
2D	2-1/4"	8"	8-3/4"	1-1/2"
22D	2-1/4"	8" (BTB)	8-3/4"	1-1/2"



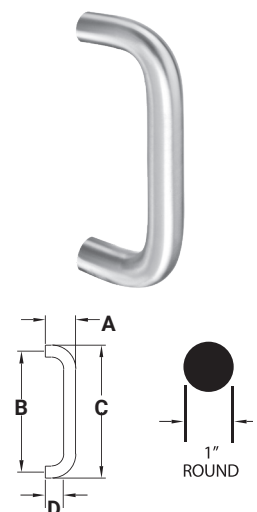
3 Series Door Pull - 1" Round Straight

Mounting Options: Standard - Type 1 HD (default), 6 HD, 6R HD, 8 HD, 12 HD, 15 HD .
- Back to Back - Type 5 HD (default), 13 (for 1/2" glass doors).
- Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZE:** • 8"
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel Grade 304
• Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
3D	3"	8"	9"	2"
33D	3"	8" (BTB)	9"	2"



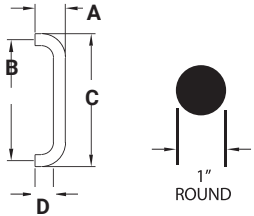
H3 ADA Series Door Pull - 1" Round Straight Large 2-1/2" Clearance for the Accessibility Applications

Mounting Options: Standard - Type 1HD (default), 6HD, 6RHD, 8HD, 12HD, 15HD.
 - Back to back - Type 5 HD (default), 13HD (BTB for Glass Doors).
 - Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZES:**
 - 8", 10" (630 only), 12" (630 only)
- FINISHES:**
 - 606 (US4) Satin Brass, 613 (US10B) Oil Rubbed Bronze, 630 (US32D) Satin Stainless Steel Grade 304
 - Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
H3D	3-1/2"	8"	9"	2-1/2"
H33D	3-1/2"	8" (BTB)	9"	2-1/2"
H3E	3-1/2"	10"	11"	2-1/2"
H33E	3-1/2"	10" (BTB)	11"	2-1/2"
H3F	3-1/2"	12"	13"	2-1/2"
H33F	3-1/2"	12" (BTB)	13"	2-1/2"



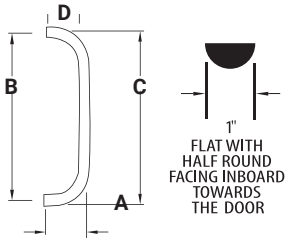
5 Series Door Pull - 1" Flat Straight

Mounting Options: - Type 1 (default), 12.
 - Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZES:**
 - 6" and 8"
- FINISHES:**
 - 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel Grade 304
 - Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
5C	2"	6"	6-1/2"	1-1/2"
5D	2"	8"	8-1/2"	1-1/2"



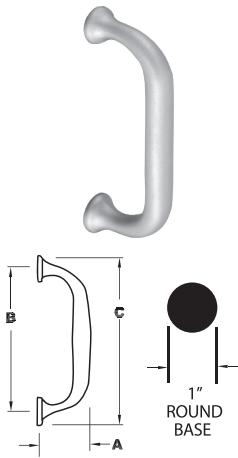
11 Series Cast Door Pull

Mounting Options: - Type 1 (default), 12.
 - Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZES:** • 5-1/2"
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 626 (US26D) Satin Chromium, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel
- Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)
11	1-13/16"	5-1/2"	6-1/2"



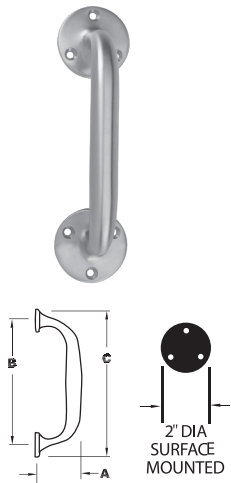
12 Series Surface Mount Cast Door Pull

Mounting Options: - Surface mount (default).
 - Pull is machined/prepped for concealed mount installations.
 Specify mounting option 1 or 12.
 - Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- MOUNTING**
- FASTENERS:** • 6 ea #8 x 1" WS.
- SIZES:** • 5-1/2"
- FINISHES:** • 605 (US3) Bright Brass, 613 (US10B) Oil rubbed Bronze, 626 (US26D) Satin Chromium

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)
12	2-1/4"	5-1/2"	7-1/2"



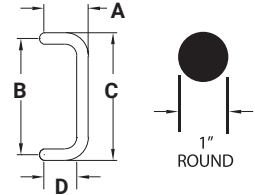
Offset Pull Handles

9E Series Offset Pull

- Mounting Options:
- Surface mount (default).
 - Pull is machined/prepped for concealed mount installations.
Specify mounting option 1HD (Default), 5HD, 6HD, 6RHD, 8HD, 12HD, 13HD, 15HD
 - Mounting Options Shown on Pages 10-12.

SPECIFICATIONS:

- SIZE:** • 10" CTC
- FINISHES:** • 630 (US32D) Satin Stainless Steel Grade 304
- Available with Antimicrobial Coating 630 (US32D) only



MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
9E	3-1/4"	10"	11"	2-1/4"
99E	3-1/4"	10" (BTB)	11"	2-1/4"

How to Order – Pulls

PULL	FINISH	MOUNTING	OPTIONS
2C 1B 2C 2D 3D 33D H3D H3E H3F 5C 5D 11 12 9E 22C 22D H33D H33E H33F 99E	630 605 – Bright Brass 606 – Satin Brass 612 – Satin Bronze 613 – Oil Rubbed Bronze 626 – Satin Chrome 628 – Satin Aluminum, Anodized 630 – Satin Stainless Steel 630AM – Satin Stainless Steel with Antimicrobial	1 SINGLE 1 – TYPE 1 (DEFAULT) Thru Bolt for Metal, Composite or Wood Door 6 – TYPE 6 Surface Concealed for Metal Door (Door Reinforcement by Others) 6R – TYPE 6R Surface Concealed for Metal Door (Rivnut) 8 – TYPE 8 Surface Concealed for Wood Door (Knife Thread Insert) 12 – TYPE 12 Thru Bolt for Metal, Composite or Wood Door, Decorative Head 15 – TYPE 15 Thru Bolt for Glass Door, Decorative Head BACK TO BACK 5 – TYPE 5 (DEFAULT) Back to Back for Metal or Wood Door 13 – TYPE 13 Back to Back for Glass Door	– AM – Antimicrobial Coating

Ordering Example, Standard Mount: **2C 630 1**

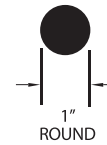
Notes:

- 1** - See mounting options located on Pages 10-12.

Push Bars

91 Series Push Bar

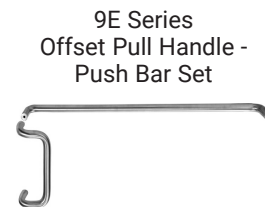
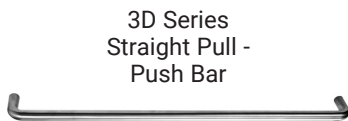
- Mounting Options:
- Surface mount (default).
 - Push bar is machined/prepped for concealed mount installations. Specify mounting option 1HD (Default), 6HD, 6RHD, 8HD, 15HD
 - Mounting Options Shown on Pages 10-12.



SPECIFICATIONS:

- SIZE:** • 33" CTC
- FINISHES:** • 630 (US32D) Satin Stainless Steel (Grade 304)
- Available with Antimicrobial Coating 630 (US32D) only

MODEL	PROJECTION (A)	CENTER TO CENTER (B)	OVERALL LENGTH (C)	CLEARANCE (D)
91	3-1/4"	33"	34"	2-1/4"



How to Order — Push and Push-Pull Bars

QUANTITY	SERIES	PULL	PUSH BAR	FINISH	MOUNTING OPTIONS, PUSH BAR ONLY	MOUNTING OPTIONS, OFFSET PULL AND PUSH BAR SET
10	91	9E	33	630	—	S
Ordering Examples: Push Bar Only, Thru Bolt Mounting: 91 00 33 630 1HD Offset Pull Handle Push-Bar Set, Standard Mounting: 91 9E 33 630 S		00 — No Pull	XX — 1" Round Push Bar, Xx" CTC Example:	630 — Satin Stainless Steel 630AM — Satin Stainless Steel with Antimicrobial	1 — Type 1 (Default) Thru Bolt For Metal, Composite or Wood Door 6 — Type 6 Surface Concealed for Metal Door (Door Reinforcement by Others) 6R — Type 6R Surface Concealed for Metal Door (Rivnut) 8 — Type 8 Surface Concealed for Wood Door (Knife Thread Insert) 12 — Type 12 Thru Bolt for Metal, Composite or Wood Door 15 — Type 15 Thru Bolt for Glass Door, Decorative Head	S — Standard (Default) D — Decorative M — Concealed for Metal Doors W — Concealed for Composite or Wood Doors G — Decorative for Glass Doors
		3D — 1" Round Straight Pull 8" CTC	33 — 1" Round Push Bar, 33" CTC			
		H3D — 1" Round Straight Pull 8" CTC ADA				
		H3E — 1" Round Straight Pull 10" CTC ADA				
		H3FÆ — 1" Round Straight Pull 12" CTC ADA				
		9E — 1" Round Offset Pull Handle				

86 Series Pull Plates

With 1B Series Pull

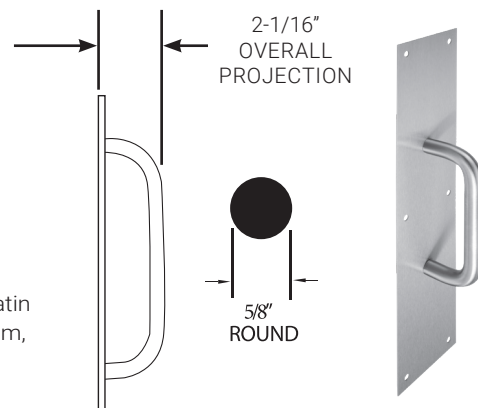
Mounting Options: - Type 1 (default), 12, 15.

SPECIFICATIONS:

- PLATE SIZES:** • 3-1/2" x 15", 4" x 16"
- PULL SERIES:** • 1B – 5/8" DIA, 5-1/2" Center to Center
- THICKNESS:** • 0.050"

PLATE MOUNTING

- FASTENERS:** • #6 x 5/8 OH PH SMS
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel (Grade 304)
 - Available with Antimicrobial Coating 630 (US32D) only



With 2 Series Pull

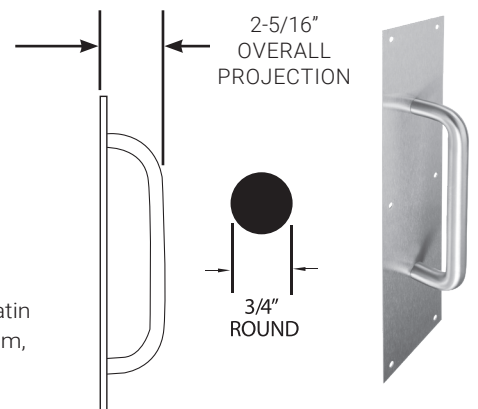
Mounting Options: - Standard - Type 1 (default), 6, 6R, 8, 12, 15.
- Mounting Options Shown on Page 11.

SPECIFICATIONS:

- PLATE SIZES:** • 3-1/2" x 15", 4" x 16"
- PULL SERIES:** • 2C – 3/4" DIA, 6" Center to Center, 2D – 8" Center to Center
- THICKNESS:** • 0.050"

PLATE MOUNTING

- FASTENERS:** • #6 x 5/8 OH PH SMS
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel (Grade 304)
 - Available with Antimicrobial Coating 630 (US32D) only



With 3 Series Pull

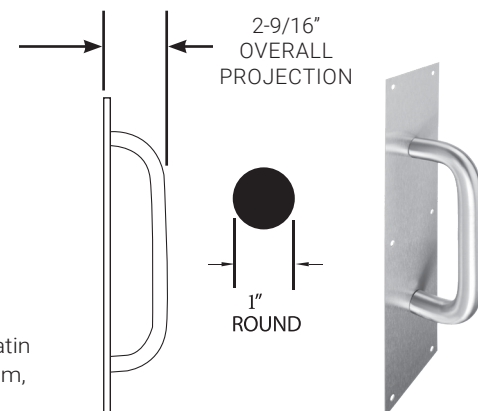
Mounting Options: - Standard - Type 1HD (default), 6HD, 6RHD, 8HD, 12HD, 15HD.
- Mounting Options Shown on Page 11.

SPECIFICATIONS:

- PLATE:** • 3-1/2" x 15", 4" x 16"
- PULL SERIES:** • 3D – 1" DIA, 8" Center to Center
- THICKNESS:** • 0.050"

PLATE MOUNTING

- FASTENERS:** • #6 x 5/8 OH PH SMS
- FINISHES:** • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 612 (US10) Satin Bronze, 613 (US10B) Oil Rubbed Bronze, 628 (US28) Aluminum, 630 (US32D) Satin Stainless Steel (Grade 304)
 - Available with Antimicrobial Coating 630 (US32D) only





With H3 Series Pull

Mounting Options: - Standard - Type 1HD (default), 6HD, 6RHD, 8HD, 12HD, 15HD.
- Mounting Options Shown on Page 11.

SPECIFICATIONS:

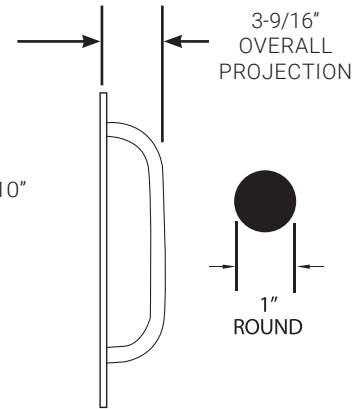
PLATE: • 3-1/2" x 15", 4" x 16"

PULL SERIES: • H3D – 1" DIA, 8" Center to Center (630 only), H3E – 1" DIA, 10" Center to Center (630 only), H3F – 12" Center to Center (630 only).
• 2-1/2" Clearance for accessibility Requirements
THICKNESS: • 0.050"

PLATE MOUNTING

FASTENERS: • #6 x 5/8 OH PH SMS

FINISHES: • 630 (US32D) Satin Stainless Steel (Grade 304)
• Available with Antimicrobial Coating 630 (US32D) only



With 5 Series Pull

Mounting Options: - Pull: Type 1 (default), 12.
- Mounting Options Shown on Page 11.

SPECIFICATIONS:

PLATE: • 3-1/2" x 15", 4" x 16", 6" x 16"

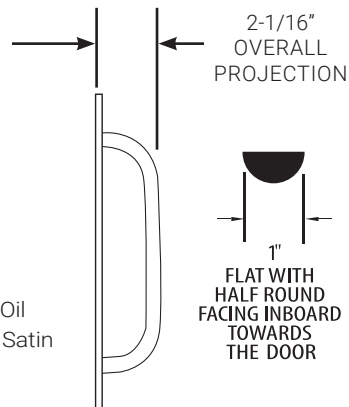
PULL SERIES: • 5C – 6" Center to Center, 5D – 8" Center to Center

THICKNESS: • 0.050"

PLATE MOUNTING

FASTENERS: • #6 x 5/8 OH PH SMS

FINISHES: • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 613 (US10B) Oil Rubbed Bronze, 626 (US26D) Satin Chromium, 630 (US32D) Satin Stainless Steel (Grade 304)
• Available with Antimicrobial Coating 626 (US26D) and 630 (US32D) only



With 11 Series Pull

Mounting Options: - Pull: Type 1 (default), 12.
- Mounting Options Shown on Page 11.

SPECIFICATIONS:

PLATE: • 3-1/2" x 15", 4" x 16", 6" x 16" (630 only)

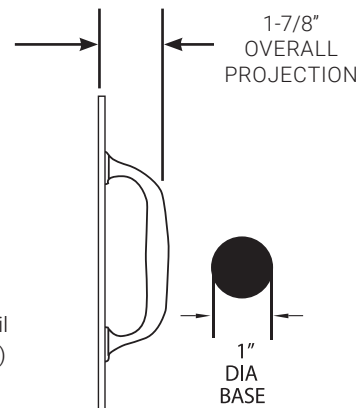
PULL: • 11 – 5-1/4" Center to Center

THICKNESS: • 0.050"

PLATE MOUNTING

FASTENERS: • #6 x 5/8 OH PH SMS

FINISHES: • 605 (US3) Bright Brass, 606 (US4) Satin Brass, 613 (US10B) Oil Rubbed Bronze, 630 (US32D) Satin Stainless Steel (Grade 304)
• Available with Antimicrobial Coating 630 (US32D) only



How to Order – Pull Plates

QUANTITY	SERIES	PLATE	PULL	FINISH	PREP FOR LOCKING HARDWARE ^{1,2}	HANDING ¹	MOUNTING ³
10	86	3	2D	630	T	RH	1
Ordering Examples: Standard mount for Metal Door: 86 3 2D 630 1 Notes: 1 - Handing required for Plate Size 5, 6 2 - Cylinder and Thumbturn Prep not available in Plate Size 5 3 - For Mounting Options, see pages 10-12		2 – 3-1/2" X 15" 3 – 4" X 16" 5 – 6" X 16" (630 ONLY) 6 – 8" X 16" (630 ONLY)	1B – 5/8" Round Straight Pull 5-1/2" CTC 2C – 3/4" Round Straight Pull 6" CTC 2D – 3/4" Round Straight Pull 8" CTC 3D – 1" Round Straight Pull 8" CTC H3D – 1" Round Straight Pull 8" CTC ADA H3E – 1" Round Straight Pull 10" CTC ADA H3F – 1" Round Straight Pull 12" CTC ADA 5C – 1" Round Straight Pull 6" CTC 5D – 1" Round Straight Pull 8" CTC 11 – Cast Pull 5-1/2" CTC	605 – Bright Brass 606 – Satin Brass 612 – Satin Bronze 613 – Oil Rubbed Bronze 628 – Satin Aluminum, Anodized 630 – Satin Stainless Steel	C – Cylinder T – Thumbturn	RH – Right Hand LH – Left Hand	1 – TYPE 1 Thru Bolt for Metal, Composite or Wood Door (Default) 6 – TYPE 6 Surface Concealed for Metal Door (Door Reinforcement by Others) 6R – TYPE 6R Surface Concealed for Metal Door (Rivnut) 8 – TYPE 8 Surface Concealed for Wood Door (Knife Thread Insert) 12 – TYPE 12 Thru Bolt for Metal, Composite or Wood Door, Decorative Head

Pull Mounting Quick Reference Guide

PULL TYPE	DESCRIPTION	MOUNTING OPTIONS							
		HD*	1	5	6/6R	8	12	13	15
1B	5/8" Round Straight Pull 5-1/2" CTC		•				•		•
2C	3/4" Round Straight Pull 6" CTC		•		•	•	•		•
22C	3/4" Round Straight BTB Pull 6" CTC			•				•	
2D	3/4" Round Straight Pull 8" CTC		•		•	•	•		•
22D	3/4" Round Straight BTB Pull 8" CTC			•				•	
3D	1" Round Straight Pull 8" CTC	•	•		•	•	•		•
33D	1" Round Straight BTB Pull 8" CTC	•							
H3D	1" Round Straight Pull 8" CTC ADA	•	•		•	•	•		•
H33D	1" Round Straight BTB Pull 8" CTC ADA	•		•				•	
H3E	1" Round Straight Pull 10" CTC ADA	•	•		•	•	•		•
H33E	1" Round Straight BTB Pull 10" CTC ADA	•		•				•	
H3F	1" Round Straight Pull 12" CTC ADA	•	•		•	•	•		•
H33F	1" Round Straight BTB Pull 12" CTC ADA	•		•				•	
5C	1" 1/2 Round Straight Pull 6" CTC	•	•				•		
5D	1" 1/2 Round Straight Pull 8" CTC	•	•				•		
9E	1" Round Offset Pull Handle 10" CTC	•							
99E	1" Round Offset Pull Handle BTB 10" CTC	•							
11	Cast Pull 5-1/2" CTC		•				•		
12	Cast Pull, Surface Mount, 5-1/2" CTC		•				•		

*HD Designation indicates 5/16" fasteners for 1 inch diameter pulls

Pull Mounting Options Selection Guide

PULL TYPE	DESCRIPTION	1	1HD	5	5HD	6	6HD	6R	6RHD	8	8HD	12	12HD	13	13HD	15	15HD
1B	5/8" Round Straight Pull 5-1/2" CTC	•										•				•	
2C	3/4" Round Straight Pull 6" CTC	•				•		•		•		•				•	
22C	3/4" Round Straight BTB Pull 6" CTC			•										•			
2D	3/4" Round Straight Pull 8" CTC	•				•		•		•		•				•	
22D	3/4" Round Straight BTB Pull 8" CTC			•										•			
3D	1" Round Straight Pull 8" CTC	•	•				•		•		•		•				•
33D	1" Round Straight BTB Pull 8" CTC				•										•		
H3D	1" Round Straight Pull 8" CTC ADA	•	•				•		•		•		•				•
H33D	1" Round Straight BTB Pull 8" CTC ADA				•										•		
H3E	1" Round Straight Pull 10" CTC ADA		•				•		•		•		•				•
H33E	1" Round Straight BTB Pull 10" CTC ADA				•										•		
H3F	1" Round Straight Pull 12" CTC ADA		•				•		•		•		•				•
H33F	1" Round Straight BTB Pull 12" CTC ADA				•										•		
5C	1" 1/2 Round Straight Pull 6" CTC	•										•					
5D	1" 1/2 Round Straight Pull 8" CTC	•										•					
9E	1" Round Offset Pull Handle 10" CTC		•				•		•		•		•				•
99E	1" Round Offset Pull Handle BTB 10" CTC				•										•		
11	Cast Pull 5-1/2" CTC	•										•					
12	Cast Pull, Surface Mount, 5-1/2" CTC	•										•					

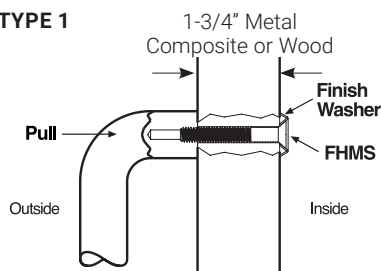
Note: "X" denotes availability.

MOUNTING OPTIONS FOR OFFSET PULL HANDLES- PUSH BAR SETS		MOUNTING TYPES	
TYPE	DESCRIPTION	COMMON END	FREE END
S	Std Thru Bolt For 1-3/4" Metal, Composite or Wood Doors (Default)	5HD	1HD
D	Decorative Thru Bolt for 1-3/4" Metal, Composite or Wood Doors	5HD	12HD
M	Concealed for 1-3/4" Metal Doors	5HD	6HD
W	Concealed for 1-3/4" Composite or Wood Doors	5HD	15HD
G	Decorative Thru Bolt for 1/2" Glass Doors	13HD	8HD

Mounting Options - Straight Pulls

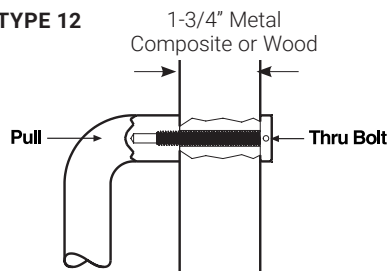
Thru Bolt

TYPE 1



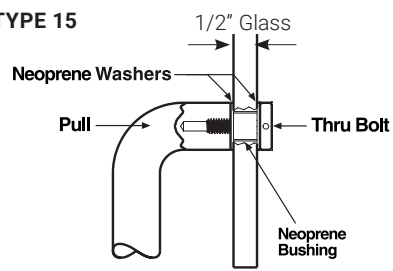
TYPE	BOLT SIZE	DRILL SIZE
1 (DEFAULT)	1/4 - 20	9/32"
1HD	5/16 - 18	11/32"

TYPE 12



TYPE	BOLT SIZE	DRILL SIZE
12	1/4 - 20	9/32"
12HD	5/16 - 18	11/32"

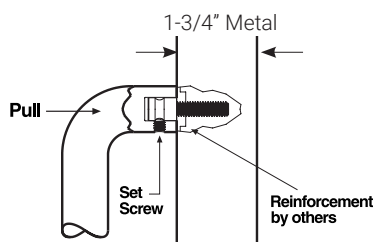
TYPE 15



TYPE	BOLT SIZE	DRILL SIZE GLASS
15	1/4 - 20	5/8"
15HD	5/16 - 18	5/8"

Surface Concealed

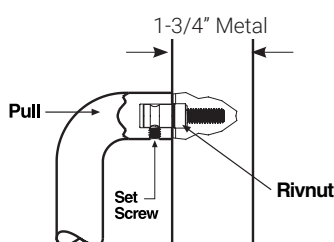
METAL DOOR - TYPE 6



Minimum diameter of pull is 3/4"

TYPE	BOLT SIZE	THREAD SIZE
6	1/4 - 20	1/4 - 20 TAP
6HD	5/16 - 18	5/16 - 18 TAP

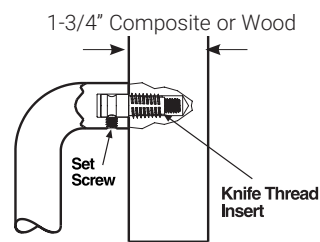
METAL DOOR - TYPE 6R



Minimum diameter of pull is 3/4"

TYPE	BOLT SIZE	DRILL SIZE METAL
6R	1/4 - 20	3/8" X 1-1/4" DP
6RHD	5/16 - 18	1/2" X 1-1/4" DP

WOOD DOOR - TYPE 8

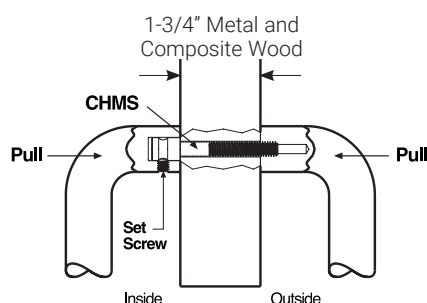


Minimum diameter of pull is 3/4"

TYPE	BOLT SIZE	DRILL SIZE WOOD
8	1/4 - 20	1-1/4" DP
8HD	5/16 - 18	1-1/4" DP

Back to Back

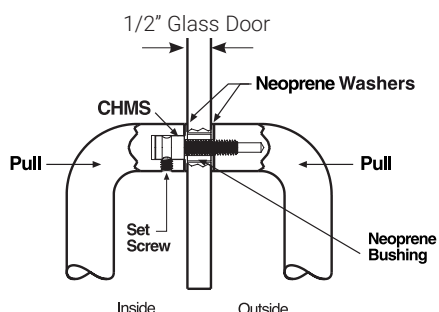
WOOD OR METAL DOOR - TYPE 5



Minimum diameter of pull is 3/4"

TYPE	BOLT SIZE	DRILL SIZE
5 (DEFAULT)	1/4 - 20	9/32"
5HD	5/16 - 18	11/32"

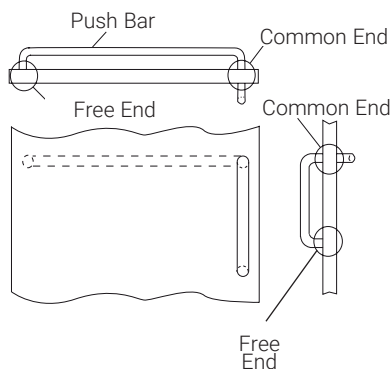
GLASS TYPE 13



Minimum diameter of pull is 3/4"

TYPE	BOLT SIZE	DRILL SIZE GLASS
13 (DEFAULT)	1/4 - 20	5/8"
13HD	5/16 - 18	5/8"

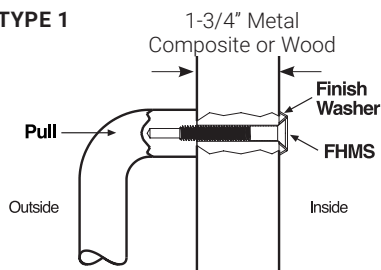
Mounting Options - Pull, Offset Pull Handles-Push Bar Sets



Free End Details

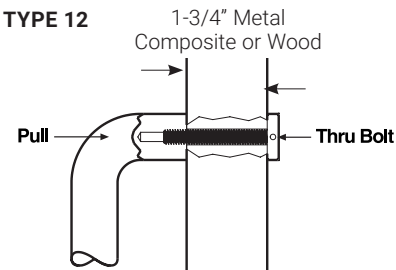
Thru Bolt

TYPE 1



TYPE	BOLT SIZE	DRILL SIZE
1HD	5/16 - 18	11/32"

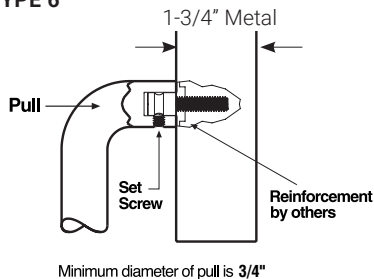
TYPE 12



TYPE	BOLT SIZE	DRILL SIZE
12HD	5/16 - 18	11/32"

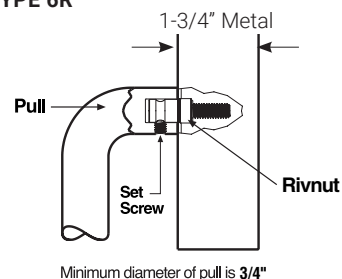
Surface Concealed

TYPE 6



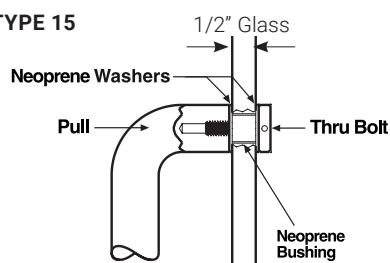
TYPE	BOLT SIZE	THREAD SIZE
6HD	5/16 - 18	5/16 - 18 TAP

TYPE 6R



TYPE	BOLT SIZE	DRILL SIZE METAL
6RHD	5/16 - 18	1/2" X 1-1/4" DP

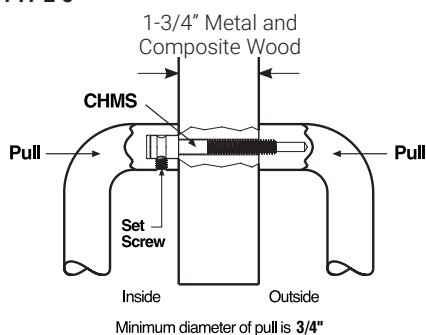
TYPE 15



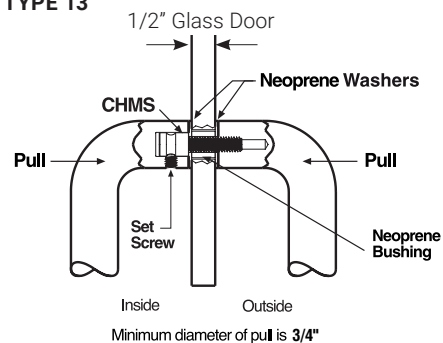
TYPE	BOLT SIZE	DRILL SIZE GLASS
15HD	5/16 - 18	5/8"

Common End Details

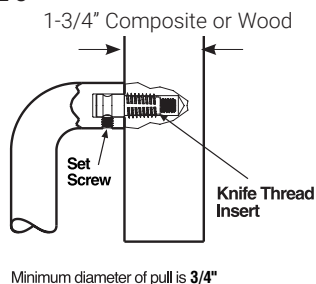
TYPE 5



TYPE 13

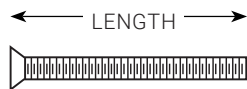


TYPE 8

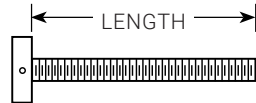


Fasteners

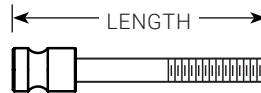
Screw Types



STANDARD THRU-BOLT FLAT HEAD MACHINE SCREW (FHMS)



DECORATIVE THRU BOLT



NARROW FHMS WITH STEEL SLEEVE FOR CONCEALED AND BACK TO BACK

Fastener Packs for Door Pulls

Note: Fastener packs for 1-3/4" Steel and Composite Wood or 1/2" Thick Glass Doors. For other door thickness applications, contact PDQ Technical Service.

9001 9001HD 9005	1 1HD 5	2 ea. 1/4-20 x 2-1/4" FH MS, 2 ea. 1/4" Finish Washers. 2 ea. 5/16-18 x 2-1/4" FH MS, 2 ea. 5/16" Finish Washers. 2 ea. 1/4-20 x 2-3/4" Undersize Head FH MS, 2 ea. 1/4-20 x 3/16" Set Screws, 2 ea. 1/4" x 1/2" Tapered Steel Sleeves, 2 ea. 1/4-20 x 1/2" Threaded Insert.
9005HD	5HD	2 ea. 5/16-18 x 2-3/4" Undersize Head FH MS, 2 ea. 1/4-20 x 1/4" Set Screws, 2 ea. 5/16" x 1/2" Tapered Steel Sleeves, 2 ea. 1/4-20 x 1/2" Threaded Insert.
9006	6	2 ea. 1/4-20 x 1" Undersize Head FH MS, 2 ea. 2 ea. 1/4-20 x 3/16" Set Screws, 2 ea. 1/4" x 1/2" Tapered Steel Sleeves.
9006HD	6HD	2 ea. 5/16-18 x 1" Undersize Head FH MS, 2 ea. 1/4-20 x 1/4" Set Screws, 2 ea. 5/16" x 1/2" Tapered Steel Sleeves.
9006R	6R	2 ea. 1/4-20 x 1-3/4" Undersize Head FH MS, 2 ea. 1/4-20 x 3/16" Set Screws, 2 ea. 1/4" x 1/2" Tapered Steel Sleeves,
9006RHD	6RHD	2 ea. 1/4-20 Rivnut Inserts. 2 ea. 5/16-18 x 1-5/8 Undersize Head FH MS, 2 ea. 1/4-20 x 1/4" Set Screws, 2 ea. 5/16" x 1/2" Tapered Steel Sleeves, 2 ea. 5/16-18 Rivnut Inserts
9008	8	2 ea. 1/4-20 x 1-5/8" Undersize Head FH MS, 2 ea. 1/4-20 x 3/16" Set Screws, 2 ea. 1/4" x 1/2" Tapered Steel Sleeves,
9008HD	8HD	2 ea. 1/4 - 20 Knife Thread Inserts 2 ea. 5/16-18 x 1-5/8 Undersize Head FH MS, 2 ea. 1/4-20 x 3/16" Set Screws, 2 ea. 5/16" x 1/2" Tapered Steel Sleeves, 2 ea. 5/16 - 18 Knife Thread Inserts.
9012 9012HD 9013	12 12HD 13	2 ea. 1" DIA Head, 1/4-20 x 2-1/4" Decorative Cap Bolts. 2 ea. 1" DIA Head, 5/16-18 x 2-1/4" Decorative Cap Bolts. 2 ea. 1/4-20 x 1-3/4" Undersize Head FH MS, 2 ea. 1/4-20 x 3/16" Set Screws, 2 ea. 1/4" x 1/2" Tapered Steel Sleeves,
9013HD	13HD	2 ea. Bushings for 1/2" Thick Glass Door, 4 ea. Neoprene Washer. 2 ea. 5/16-18 x 1-3/4" Undersize Head FH MS, 4 ea. 1/4-20 x 1/4" Set Screws, 2 ea. 5/16" x 1/2" Tapered Steel Sleeves, 2 ea. Bushings for 1/2" Thick Glass Door, 4 ea. Neoprene Washers.
9015	15	2 ea. 1" DIA Head 1/4-20 x 1-1/8" Decorative Cap Bolts, 2 ea. Neoprene Bushings for 1/2" Thick Glass Door, 4 ea. Neoprene Washers.
9015HD	15HD	2 ea. 1" DIA Head 1/4-20 x 1-1/8 decorative Cap Bolts, 2 ea. Neoprene Bushings for 1/2" Thick Glass Door, 4 ea. Neoprene Washers.

Ordering example: 9001 630

MOUNTING OPTIONS FOR OFFSET PULL HANDLES- PUSH BAR SETS		MOUNTING TYPES	
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S	Std Thru Bolt For 1-3/4" Metal, Composite or Wood Doors (Default)	5HD	1HD
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W	Concealed for 1-3/4" Composite or Wood Doors	5HD	15HD
G	Decorative Thru Bolt for 1/2" Glass Doors	13HD	8HD

98 Series Door Protection Plates

- Exclusive laser cutting process provides a rounded edge as standard.
- Optional Pencil/Polish process provides a heavy beveled type edge.
- Provides protection for the bottom of the door from scuffing due to foot traffic or cleaning maintenance
- Recommended for all doors especially when using a door closer.



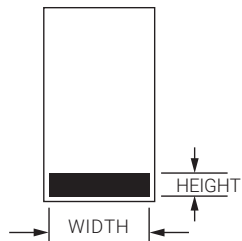
SPECIFICATIONS:

MATERIAL:	• Stainless Steel Grade 304, Brass, Aluminum
THICKNESS:	• 0.050"
MOUNTING FASTENERS:	• #6 x 5/8 OH PH SMS
FINISHES:	• 605 (US3) Bright Brass and 613 (US10B), 628 (US28) Aluminum
	• 630 (US32D) Satin Stainless Steel

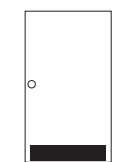
How to Order – Door Protection Plates

QUANTITY	SERIES	HEIGHT	WIDTH	FINISH
10	980	06	34	630
Ordering Example: 980 06 34 630		EXAMPLES: 06 – 6" 10 – 10"	EXAMPLES: 34 – 34" 345 – 34 - 1/2" 46 – 46"	613 – Oil Rubbed Bronze 622 – Flat Black 630 – Satin Stainless Steel

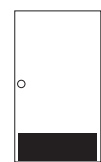
Selection Guide



Types



MOP PLATE
UP TO 6" H
X 48" W



KICK PLATE
6" TO 12" H
X 48" W



ARMOR PLATE
UP TO 48" H X 48" W AND
AVAILABLE IN MOST FINISHES

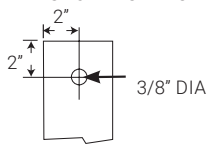
General Guidelines for Determining Plate Width:

For Push Side of Door: Use 2" less than the total width of the door.

For Pull Side of the Door: Use 1-1/2" less than the total width of the door.

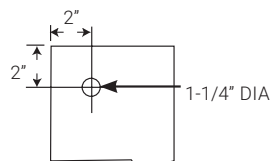
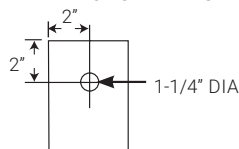
Options for Locking Hardware

PREPS FOR THUMBTURNS



962/963 Series RH Right Hand Shown

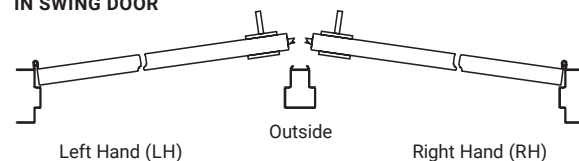
PREPS FOR CYLINDERS



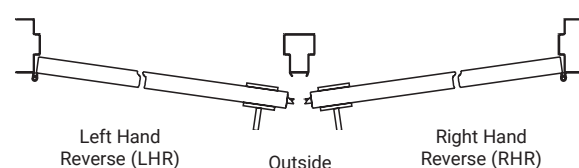
965 Series RH Right Hand Shown

Handing

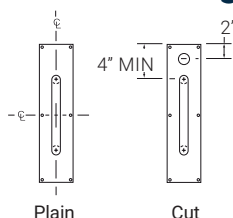
IN SWING DOOR



OUT SWING DOOR



Pull Positioning

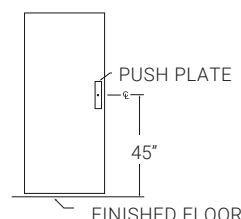


Plain

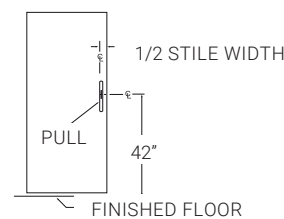
Cut

Recommended Mounting Locations

Note: Complies with ADA (Americans with Disabilities Act) Guidelines



FINISHED FLOOR



FINISHED FLOOR



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Regional Distribution Centers: Lancaster, PA | Norcross,
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