



D8 DZUS® PANEX Quarter-Turn Fasteners

Studs · Size 4

Material and Finish

Studs: Steel, zinc plated plus chromate or chrome plated
Bail cover: ABS, black

82

85

D8

D1

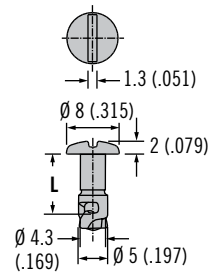
D4

D7

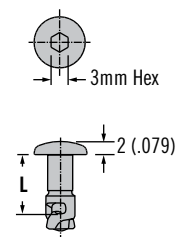
NY

H Head Styles - Tool Actuated

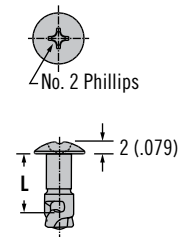
Oval Slot



Hex Recess

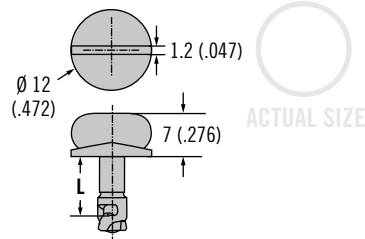


Phillips Recess

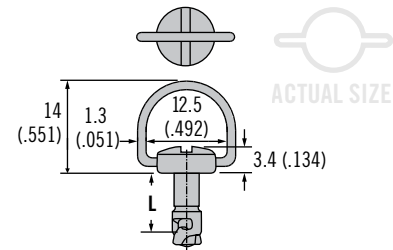


H Head Styles - Hand Actuated

Wing



Bail



Installation Notes

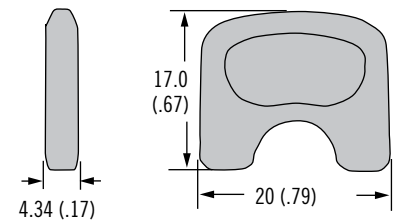
Bail cover:

A Retainer must be fitted under the stud head to fit flush with surface

Retainer part number

D8-324-100-040 (see page 291)

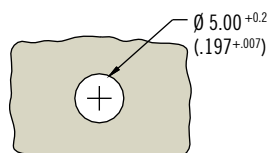
Optional Bail Cover



Bail Cover Part Number

D8-4-B-000

Stud Panel Preparation



www.southco.com/D8

DZUS® Dimensions in millimeters (inch) unless otherwise stated

southco®
CONNECT · CREATE · INNOVATE

D8 DZUS® PANEX Quarter-Turn Fasteners

Stud selection · Size 4



Part Number Selection

H Head style

- 1 Slot recess
- 2 Hex recess
- 3 Wing
- 4 Bail
- 7 Phillips recess

K Length

Enter number from selection table below

D8 - 314 - H K - F

F Finish

- 170 Chrome plated
- 190 Zinc plated
- 191 Zinc plated, black

Stud Length Table

A		B		C		D		E		K	L ±.15 ±(.006)
TMT Range For: D8-334-400-121 D8-334-500-121		TMT Range For: D8-334-300-121 D8-334-310-121		TMT Range For: D8-334-200-190		TMT Range For: D8-334-100-300		TMT Range For: D8-334-110-190			
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
1.0 (.04)	1.9 (.07)	1.5 (.06)	2.4 (.09)	~	~	~	~	~	~	08	8 (.315)
2.0 (.08)	2.9 (.11)	2.5 (.10)	3.4 (.13)	~	~	~	~	~	~	09	9 (.354)
3.0 (.12)	3.9 (.15)	3.5 (.14)	4.4 (.17)	~	~	0.7 (.03)	1.6 (.06)	1.7 (.07)	2.6 (.10)	10	10 (.394)
4.0 (.16)	4.9 (.19)	4.5 (.18)	5.4 (.21)	~	~	1.7 (.07)	2.6 (.10)	2.7 (.11)	3.6 (.14)	11	11 (.433)
5.0 (.20)	5.9 (.23)	5.5 (.22)	6.4 (.25)	1.5 (.06)	2.4 (.09)	2.7 (.11)	3.6 (.14)	3.7 (.15)	4.6 (.18)	12	12 (.472)
6.0 (.24)	6.9 (.27)	6.5 (.26)	7.4 (.29)	2.5 (.10)	3.4 (.13)	3.7 (.15)	4.6 (.18)	4.7 (.19)	5.6 (.22)	13	13 (.512)
7.0 (.28)	7.9 (.31)	7.5 (.30)	8.4 (.33)	3.5 (.14)	4.4 (.17)	4.7 (.19)	5.6 (.22)	5.7 (.22)	6.6 (.26)	14	14 (.551)
8.0 (.31)	8.9 (.35)	8.5 (.33)	9.4 (.37)	4.5 (.18)	5.4 (.21)	5.7 (.22)	6.6 (.26)	6.7 (.26)	7.6 (.30)	15	15 (.591)
9.0 (.35)	9.9 (.39)	9.5 (.37)	10.4 (.41)	5.5 (.22)	6.4 (.25)	6.7 (.26)	7.6 (.30)	7.7 (.30)	8.6 (.34)	16	16 (.630)
10.0 (.39)	10.9 (.43)	10.5 (.41)	11.4 (.45)	6.5 (.26)	7.4 (.29)	7.7 (.30)	8.6 (.34)	8.7 (.34)	9.6 (.38)	17	17 (.669)
11.0 (.43)	11.9 (.47)	11.5 (.45)	12.4 (.49)	7.5 (.30)	8.4 (.33)	8.7 (.34)	9.6 (.38)	9.7 (.38)	10.6 (.42)	18	18 (.709)
12.0 (.47)	12.9 (.51)	12.5 (.49)	13.4 (.53)	8.5 (.33)	9.4 (.37)	9.7 (.38)	10.6 (.42)	10.7 (.42)	11.6 (.46)	19	19 (.748)
13.0 (.51)	13.9 (.55)	13.5 (.53)	14.4 (.57)	9.5 (.37)	10.4 (.41)	10.7 (.42)	11.6 (.46)	11.7 (.46)	12.6 (.50)	20	20 (.787)
14.0 (.55)	14.9 (.59)	14.5 (.57)	15.4 (.61)	10.5 (.41)	11.4 (.45)	11.7 (.46)	12.6 (.50)	12.7 (.50)	13.6 (.54)	21	21 (.827)
15.0 (.59)	15.9 (.63)	15.5 (.61)	16.4 (.65)	11.5 (.45)	12.4 (.49)	12.7 (.50)	13.6 (.54)	13.7 (.54)	14.6 (.57)	22	22 (.866)
16.0 (.63)	16.9 (.67)	16.5 (.65)	17.4 (.69)	12.5 (.49)	13.4 (.53)	13.7 (.54)	14.6 (.57)	14.7 (.58)	15.6 (.61)	23	23 (.906)
17.0 (.67)	17.9 (.70)	17.5 (.69)	18.4 (.72)	13.5 (.53)	14.4 (.57)	14.7 (.58)	15.6 (.61)	15.7 (.62)	16.6 (.65)	24	24 (.945)
18.0 (.71)	18.9 (.74)	18.5 (.73)	19.4 (.76)	14.5 (.57)	15.4 (.61)	15.7 (.62)	16.6 (.65)	16.7 (.66)	17.6 (.69)	25	25 (.984)
19.0 (.75)	19.9 (.78)	19.5 (.77)	20.4 (.80)	15.5 (.61)	16.4 (.65)	16.7 (.66)	17.6 (.69)	17.7 (.70)	18.6 (.73)	26	26 (1.02)
20.0 (.79)	20.9 (.82)	20.5 (.81)	21.4 (.84)	16.5 (.65)	17.4 (.69)	17.7 (.70)	18.6 (.73)	18.7 (.74)	19.6 (.77)	27	27 (1.06)
21.0 (.83)	21.9 (.86)	21.5 (.85)	22.4 (.88)	17.5 (.69)	18.4 (.72)	18.7 (.74)	19.6 (.77)	19.7 (.78)	20.6 (.81)	28	28 (1.10)
22.0 (.87)	22.9 (.90)	22.5 (.89)	23.4 (.92)	18.5 (.73)	19.4 (.76)	19.7 (.78)	20.6 (.81)	20.7 (.81)	21.6 (.85)	29	29 (1.14)
23.0 (.91)	23.9 (.94)	23.5 (.93)	24.4 (.96)	19.5 (.77)	20.4 (.80)	20.7 (.81)	21.6 (.85)	21.7 (.85)	22.6 (.89)	30	30 (1.18)

To select correct fastener:

1. Select receptacle

Choose a receptacle from pages 288 - 290

2. Select retainer and accessories

from page 291 and note any adjustment values

3. Specify stud length

Calculate the total material thickness (TMT) using the formula given for the receptacle selected. Find the range of TMT using the length selection table (left) using the column (A, B, C, D or E) given for the receptacle selected.

4. Complete the stud part number

by specifying the head style **H**, stud length **K**, and material **M**

Example:

For rivet-on

D8-334-400-121 use column A
For TMT value calculated as 5.2 (.206), K = 12

For slotted head style in steel, zinc plated material, completed part number: D8-314-112-190

A complete example can be found on page 271.





D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 4

Material and Finish

Steel, zinc immersion coating

Installation Notes

Install with $\varnothing 3$ (.125) rivets

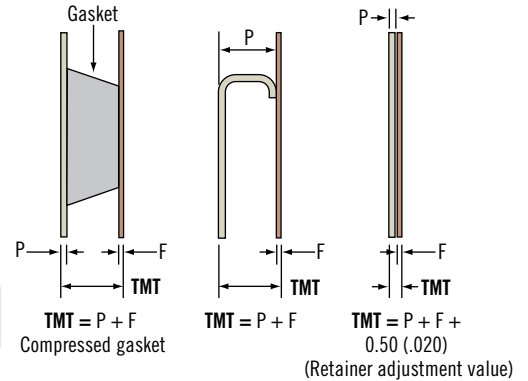
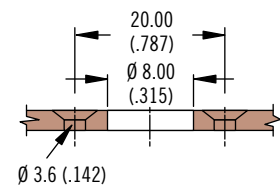
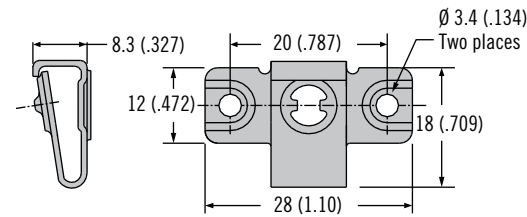
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

Rivet-On



Part Number	Stud Selection Column
D8-334-400-121	A

Material and Finish

Steel, zinc immersion coating

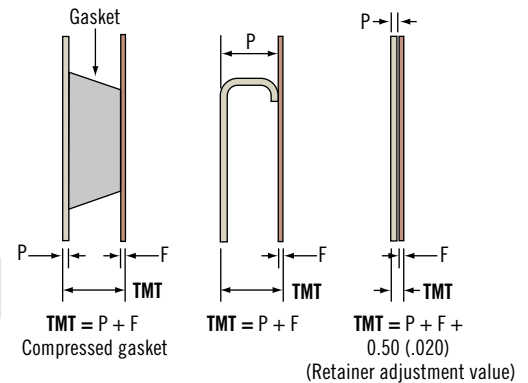
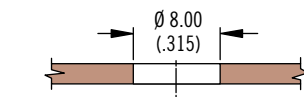
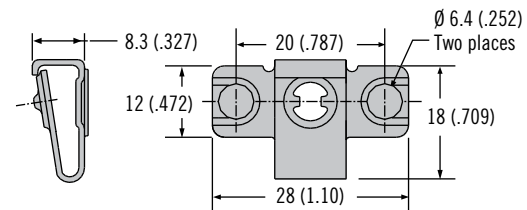
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

Weld-On



Part Number	Stud Selection Column
D8-334-500-121	A

Material and Finish

Steel, zinc immersion coating

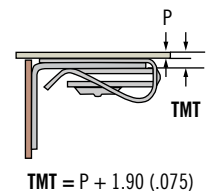
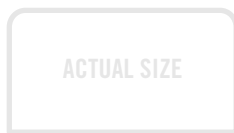
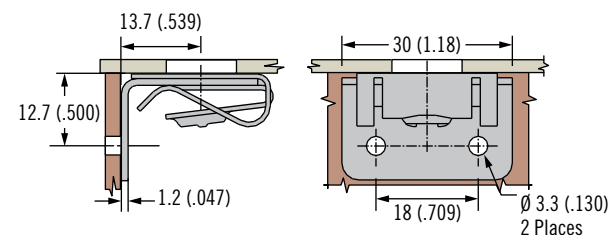
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

Side Mount



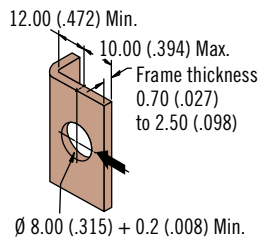
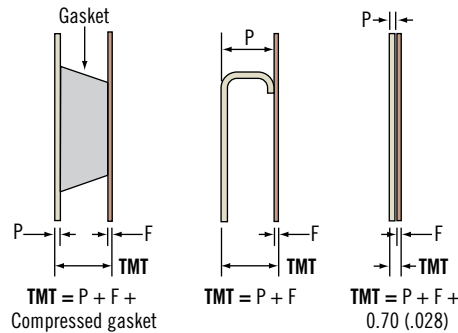
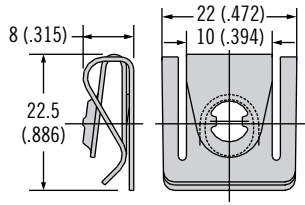
Part Number	Stud Selection Column
D8-334-310-121	B

D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 4



Clip-On



Material and Finish

Steel, zinc immersion coating

Part Number

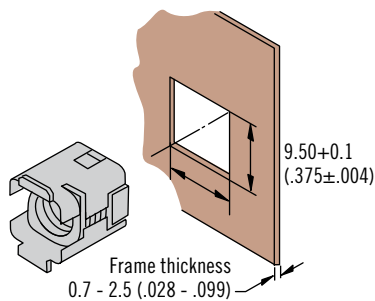
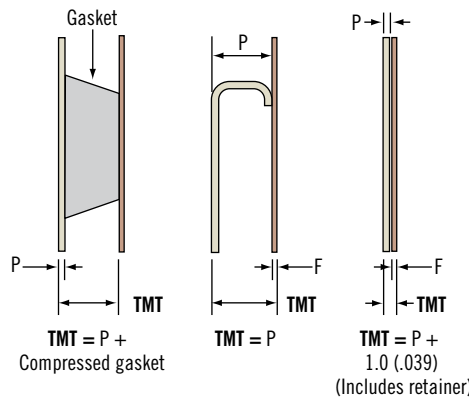
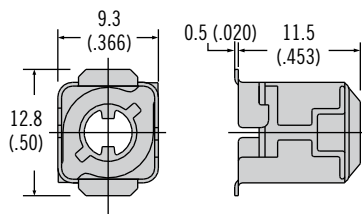
See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

Part Number	Stud Selection Column
D8-334-300-121	B

Front Mount



Material and Finish

Steel, zinc plated and stainless steel

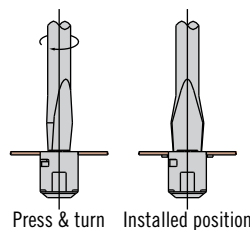
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

Installation



Part Number	Stud Selection Column
D8-334-200-190	C



D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 4

Material and Finish

Brass and steel, zinc plated and stainless steel

Installation Notes

Press receptacle flush to frame

Notes

Receptacle shown installed flush to the frame. To eliminate the gap between the frame and outer panel, install to a depth \geq the thickness of the selected retainer. This depth should be added to the TMT.

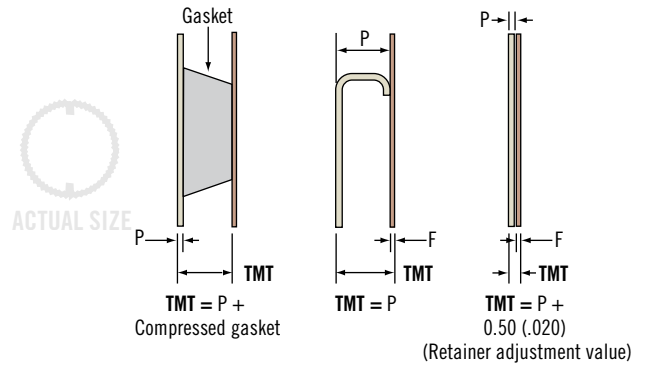
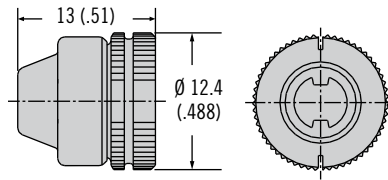
Part Number

See table

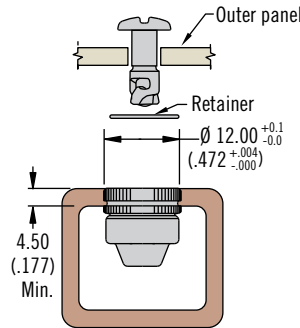
Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

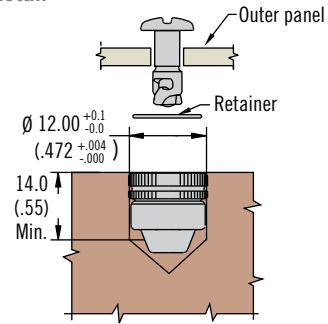
Press-In - Front Mount



Solid Install



Blind Install



Part Number	Stud Selection Column
D8-334-100-300	D

Material and Finish

Steel, zinc plated and stainless steel

Notes

For use in low carbon steels, aluminum and stainless steels in the annealed condition that are RB85 or softer

See page 497 for installation guidelines

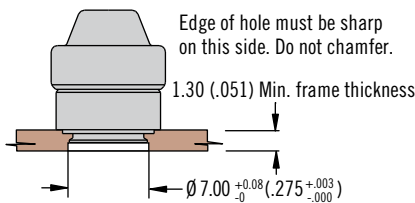
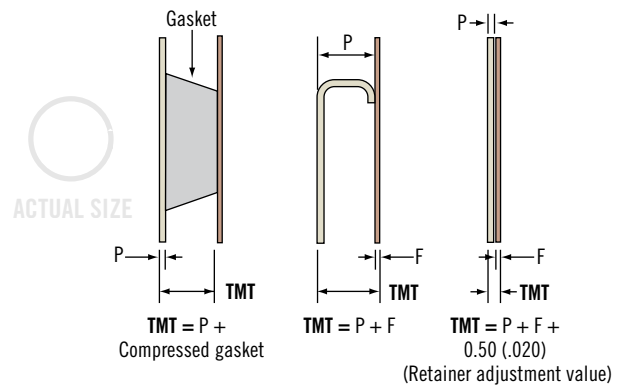
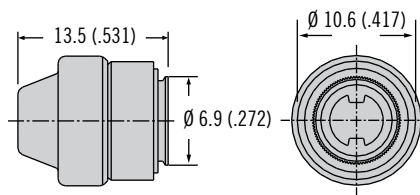
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 287

Press-In - Self-Clinching



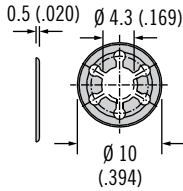
Part Number	Stud Selection Column
D8-334-110-190	E

D8 DZUS® PANEX Quarter-Turn Fasteners

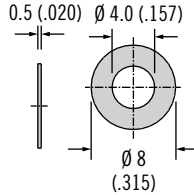
Retainers · Accessories · Size 4



Retainer Push-On



Retainer Push-On Plastic



Material and Finish

See table

Type	Part Number	Material	Adjustment Value
Push-on plastic	D8-324-100-040	High density polyethylene, black	Included in TMT calculation
Push-on	D8-324-101-200	Stainless steel	

Part Number

See table

82

85

D8

D1

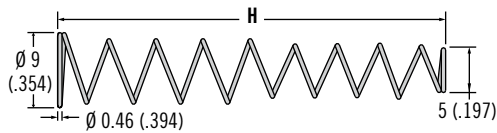
D4

D7

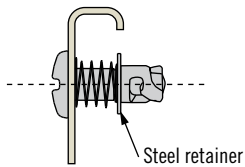
NY



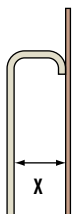
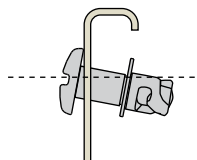
Retainer Spring (Must be secured with steel retainer)



With Retaining Spring



Without Retaining Spring



Part Number	H	X Min.	X Max.
D8-324-200-200	48 (1.89)	14 (.551)	44 (1.73)
D8-324-201-200	20 (.787)	5 (.197)	16 (.630)



D8 DZUS® PANEX Quarter-Turn Fasteners

Studs · Size 6

Material and Finish

Studs: Steel, zinc plated and chromate or chrome plated or stainless steel

Key: Steel with zinc plate and chromate

Bail cover: ABS, black

Accessories

Tamper resistant stud key:

Part number: D8-316-007-969



Installation Notes

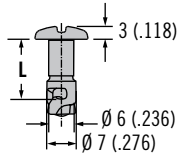
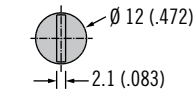
Bail cover: A Retainer must be fitted under the stud head to fit flush with surface

Retainer part number

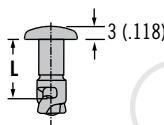
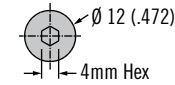
D8-326-100-040 (see page 297)

H Head Styles - Tool Actuated

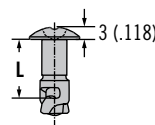
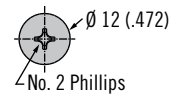
Oval Slot



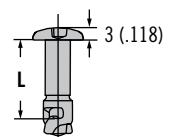
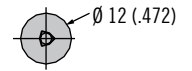
Hex Recess



Phillips Recess

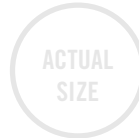
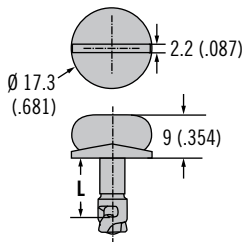


Tamper Resistant

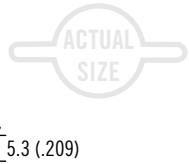
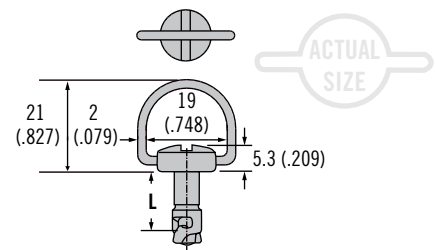


H Head Styles - Hand Actuated

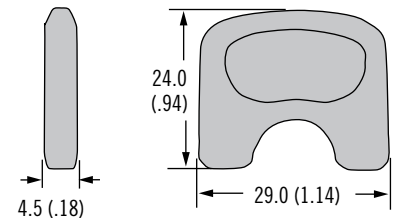
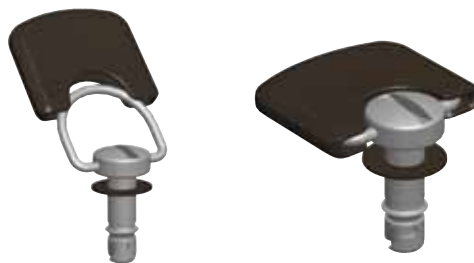
Wing



Bail

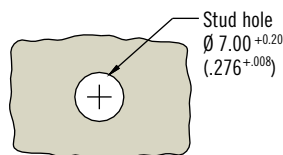


Optional Bail Cover



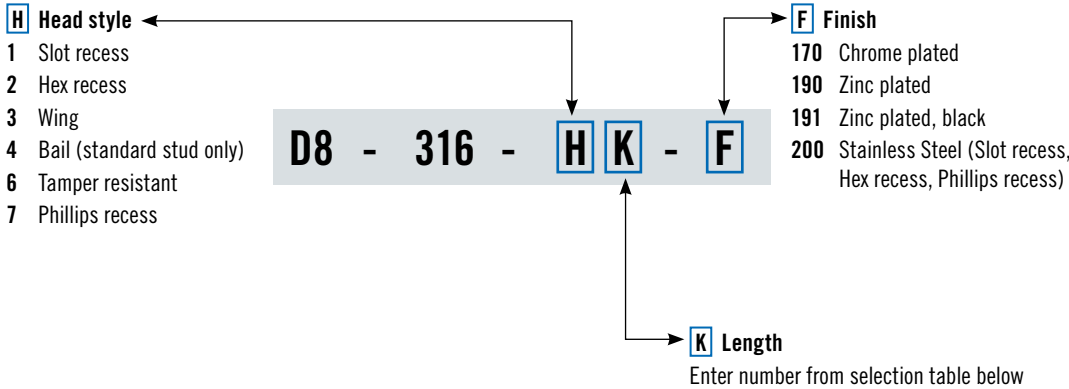
Bail Cover Part Number
D8-6-B-000

Stud Panel Preparation



D8 DZUS® PANEX Quarter-Turn Fasteners

Stud selection · Size 6



Part Number Selection

- 82
- 85
- D8**
- D1
- D4
- D7
- NY

To select correct fastener:

1. Select receptacle

Choose a receptacle from pages 294 - 296

2. Select retainer and accessories

from page 297 and note any adjustment values

3. Specify stud length

Calculate the total material thickness (TMT) using the formula given for the receptacle selected. Find the range of TMT using the stud length selection table (left) using the column (A, B, C, D or E) given for the receptacle selected.

4. Complete the stud part number

by specifying the head style **H**, stud length **K**, and material **M**

Example:

For rivet-on

D8-336-400-121 use column A
For TMT value calculated as 5.2 (.206), K = 12

For slotted head style in steel material, completed part number: D8-316-112-190

A complete example can be found on page 271.

Stud Length Table											
A		B		C		D		E		K	L ±.15 ±(.006)
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
TMT Range For: D8-336-400-121 D8-336-500-121		TMT Range For: D8-336-300-121 D8-336-310-121 D8-336-330-121		TMT Range For: D8-336-200-190		TMT Range For: D8-336-100-300		TMT Range For: D8-336-110-190			
~	~	1.5 (.06)	2.4 (.09)	~	~	~	~	~	~	09	9 (.354)
2.5 (.10)	3.4 (.13)	2.5 (.10)	3.4 (.13)	~	~	~	~	~	~	10	10 (.394)
3.5 (.14)	4.4 (.17)	3.5 (.14)	4.4 (.17)	~	~	~	~	~	~	11	11 (.433)
4.5 (.18)	5.4 (.21)	4.5 (.18)	5.4 (.21)	~	~	0.7 (.03)	1.6 (.06)	1.7 (.07)	2.6 (.10)	12	12 (.472)
5.5 (.22)	6.4 (.25)	5.5 (.22)	6.4 (.25)	~	~	1.7 (.07)	2.6 (.10)	2.7 (.11)	3.6 (.14)	13	13 (.512)
6.5 (.26)	7.4 (.29)	6.5 (.26)	7.4 (.29)	~	~	2.7 (.11)	3.6 (.14)	3.7 (.15)	4.6 (.18)	14	14 (.551)
7.5 (.30)	8.4 (.33)	7.5 (.30)	8.4 (.33)	~	~	3.7 (.15)	4.6 (.18)	4.7 (.19)	5.6 (.22)	15	15 (.591)
8.5 (.33)	9.4 (.37)	8.5 (.33)	9.4 (.37)	0.8 (.03)	1.7 (.07)	4.7 (.19)	5.6 (.22)	5.7 (.22)	6.6 (.26)	16	16 (.630)
9.5 (.37)	10.4 (.41)	9.5 (.37)	10.4 (.41)	1.8 (.07)	2.7 (.11)	5.7 (.22)	6.6 (.26)	6.7 (.26)	7.6 (.30)	17	17 (.669)
10.5 (.41)	11.4 (.45)	10.5 (.41)	11.4 (.45)	2.8 (.11)	3.7 (.15)	6.7 (.26)	7.6 (.30)	7.7 (.30)	8.6 (.34)	18	18 (.709)
11.5 (.45)	12.4 (.49)	11.5 (.45)	12.4 (.49)	3.8 (.15)	4.7 (.19)	7.7 (.30)	8.6 (.34)	8.7 (.34)	9.6 (.38)	19	19 (.748)
12.5 (.49)	13.4 (.53)	12.5 (.49)	13.4 (.53)	4.8 (.19)	5.7 (.22)	8.7 (.34)	9.6 (.38)	9.7 (.38)	10.6 (.42)	20	20 (.787)
13.5 (.53)	14.4 (.57)	13.5 (.53)	14.4 (.57)	5.8 (.23)	6.7 (.26)	9.7 (.38)	10.6 (.42)	10.7 (.42)	11.6 (.46)	21	21 (.827)
14.5 (.57)	15.4 (.61)	14.5 (.57)	15.4 (.61)	6.8 (.27)	7.7 (.30)	10.7 (.42)	11.6 (.46)	11.7 (.46)	12.6 (.50)	22	22 (.866)
15.5 (.61)	16.4 (.65)	15.5 (.61)	16.4 (.65)	7.8 (.31)	8.7 (.34)	11.7 (.46)	12.6 (.50)	12.7 (.50)	13.6 (.54)	23	23 (.906)
16.5 (.65)	17.4 (.69)	16.5 (.65)	17.4 (.69)	8.8 (.35)	9.7 (.38)	12.7 (.50)	13.6 (.54)	13.7 (.54)	14.6 (.57)	24	24 (.945)
17.5 (.69)	18.4 (.72)	17.5 (.69)	18.4 (.72)	9.8 (.39)	10.7 (.42)	13.7 (.54)	14.6 (.57)	14.7 (.58)	15.6 (.61)	25	25 (.984)
18.5 (.73)	19.4 (.76)	18.5 (.73)	19.4 (.76)	10.8 (.43)	11.7 (.46)	14.7 (.58)	15.6 (.61)	15.7 (.62)	16.6 (.65)	26	26 (1.02)
19.5 (.77)	20.4 (.80)	19.5 (.77)	20.4 (.80)	11.8 (.46)	12.7 (.50)	15.7 (.62)	16.6 (.65)	16.7 (.66)	17.6 (.69)	27	27 (1.06)
20.5 (.81)	21.4 (.84)	20.5 (.81)	21.4 (.84)	12.8 (.50)	13.7 (.54)	16.7 (.66)	17.6 (.69)	17.7 (.70)	18.6 (.73)	28	28 (1.10)
21.5 (.85)	22.4 (.88)	21.5 (.85)	22.4 (.88)	13.8 (.54)	14.7 (.58)	17.7 (.70)	18.6 (.73)	18.7 (.74)	19.6 (.77)	29	29 (1.14)
22.5 (.89)	23.4 (.92)	22.5 (.89)	23.4 (.92)	14.8 (.58)	15.7 (.62)	18.7 (.74)	19.6 (.77)	19.7 (.78)	20.6 (.81)	30	30 (1.18)





D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 6

Material and Finish

Steel, zinc immersion coating or stainless steel

Installation Notes

Install with $\varnothing 3$ (.125) rivets

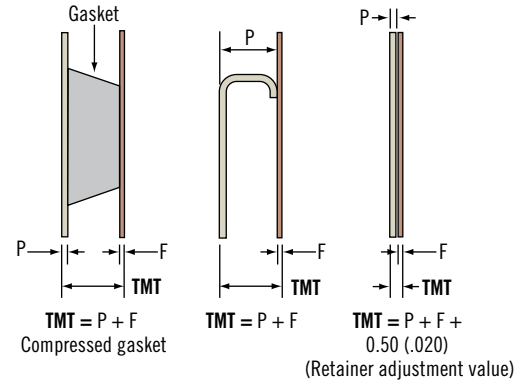
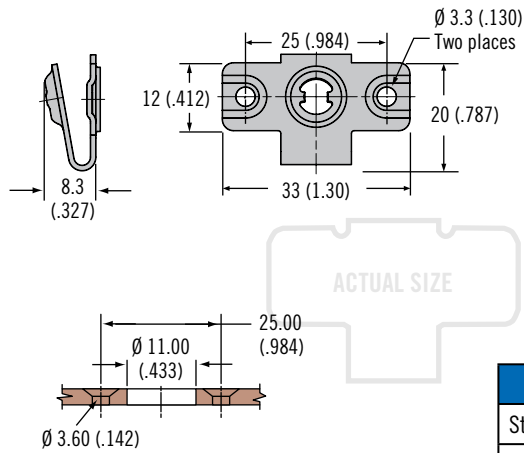
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

Rivet-On



Part Number		Stud Selection Column
Steel	D8-336-400-121	A
Stainless steel	D8-336-400-200	

Material and Finish

Steel, zinc immersion coating

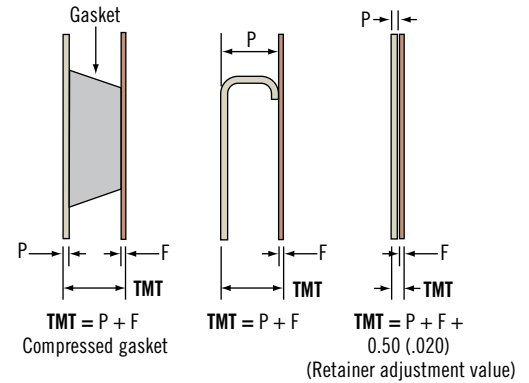
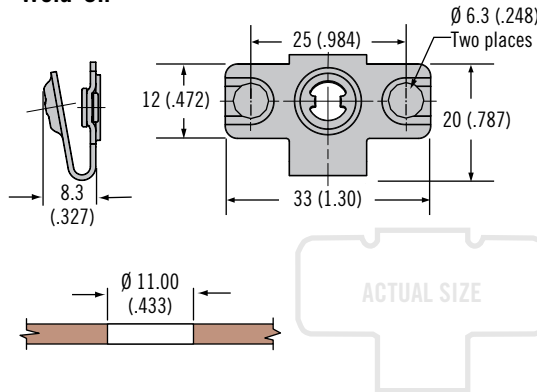
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

Weld-On



Part Number		Stud Selection Column
D8-336-500-121		A

Material and Finish

Steel, zinc immersion coating

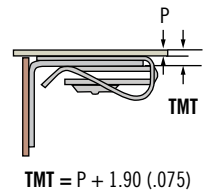
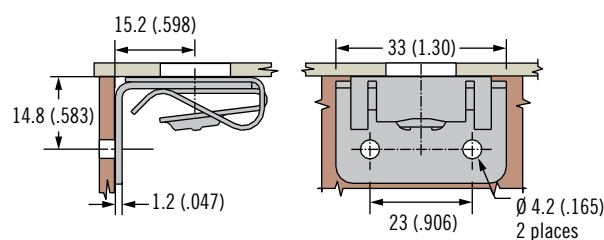
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

Side Mount

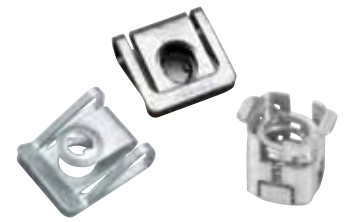


Part Number		Stud Selection Column
D8-336-310-121		B

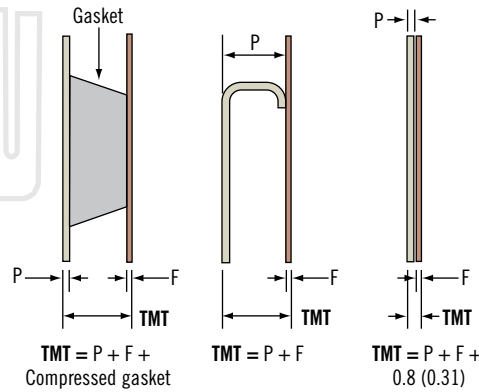
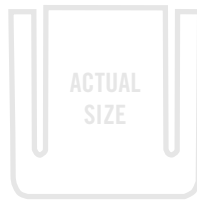
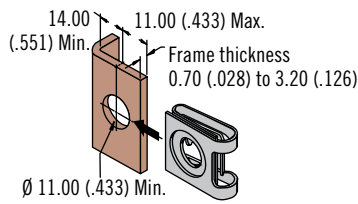
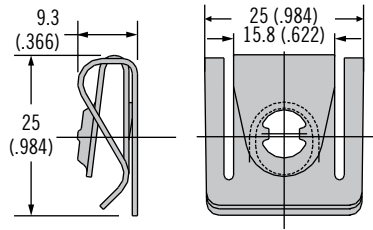


D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 6



Clip-On



Part Number	Stud Selection Column
D8-336-300-121	B

Material and Finish

Steel, zinc immersion coating

82

85

D8

Part Number

See table

D1

D4

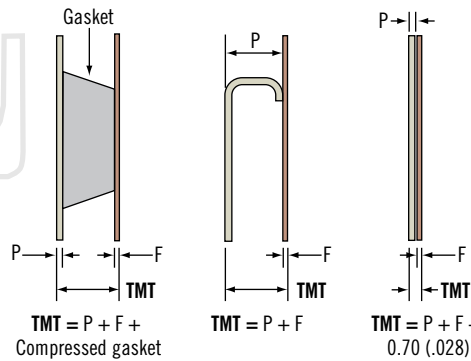
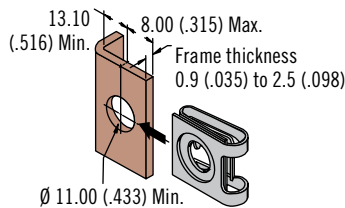
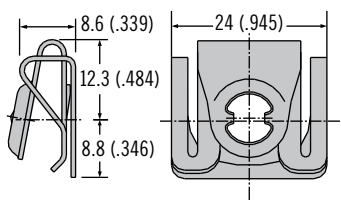
Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

D7

NY

Clip-On - Mini



Part Number	Stud Selection Column
Steel D8-336-330-121	B
Stainless steel D8-336-330-300	

Material and Finish

Steel, zinc immersion coating or stainless steel

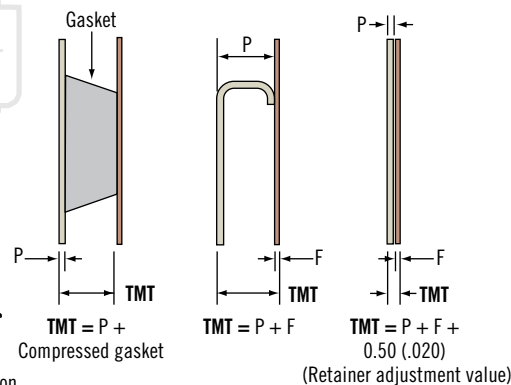
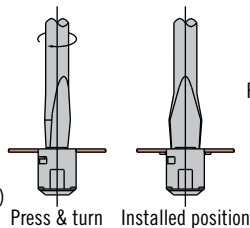
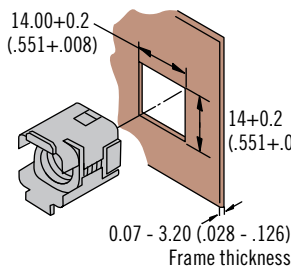
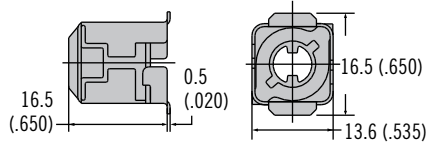
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

Front Mount



Part Number	Stud Selection Column
D8-336-200-190	C

Material and Finish

Steel, zinc plated and stainless steel

Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293



D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 6

Material and Finish

Brass and steel, zinc plated and stainless steel

Installation Notes

Press receptacle flush to frame

Notes

Receptacle shown installed flush to the frame. To eliminate the gap between the frame and outer panel, install to a depth \geq the thickness of the selected retainer. This depth should be added to the TMT.

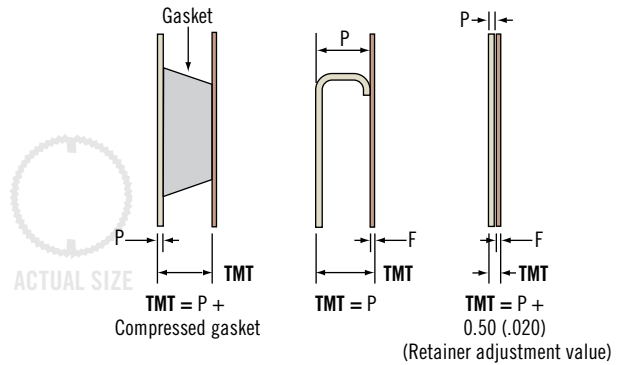
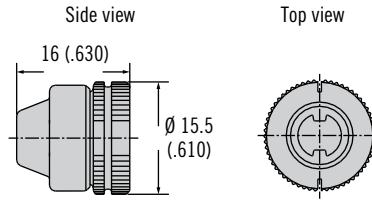
Part Number

See table

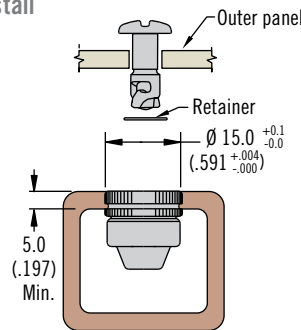
Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

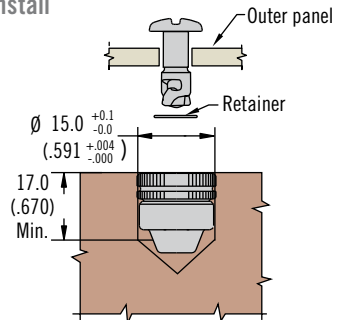
Press-In - Front Mount



Solid Install



Blind Install



Part Number	Stud Selection Column
D8-336-100-300	D

Material and Finish

Steel, zinc plated and stainless steel

Installation Notes

See page 497 for installation guidelines

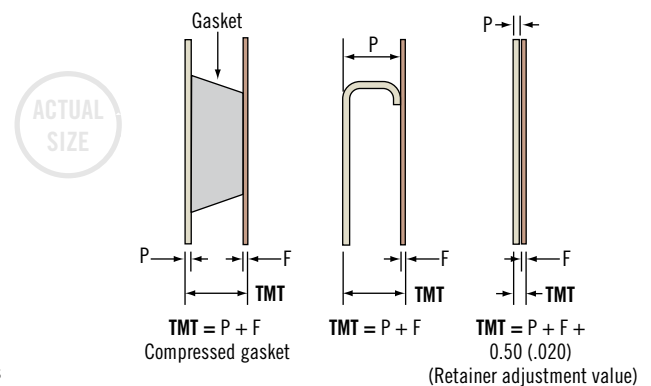
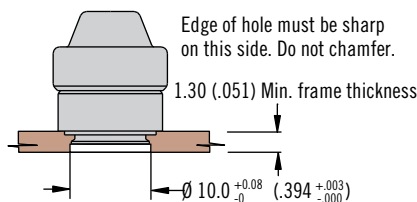
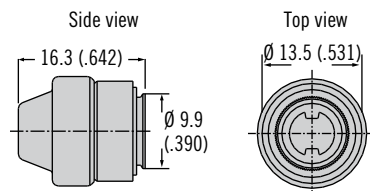
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 293

Press-In - Self-Clinching



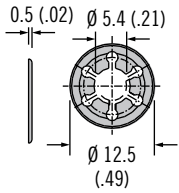
Part Number	Stud Selection Column
D8-336-110-190	E

D8 DZUS® PANEX Quarter-Turn Fasteners

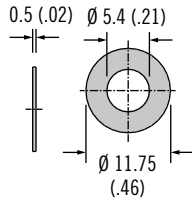
Retainers and Accessories · Size 6



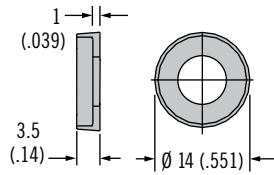
Retainer Push-On, Stainless Steel



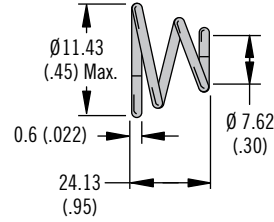
Retainer Push-On, Plastic



Cupped Washer

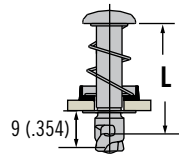


Ejector Spring



Ejector Spring and Cup Assembly

(Must be secured with stainless steel retainer)



Material and Finish

See table

Accessories

When using the ejecting version add 2 (.079) to your TMT

Notes

Cupped washer only available for tool recess head styles (slot, Phillips, hex, tamper resistant)

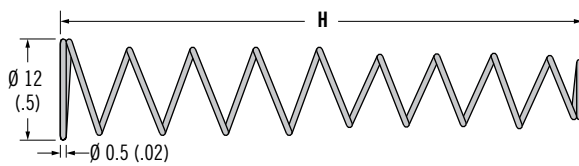
Assembly consists of spring, cup and stud ordered separately, shipped bulk

Part Number

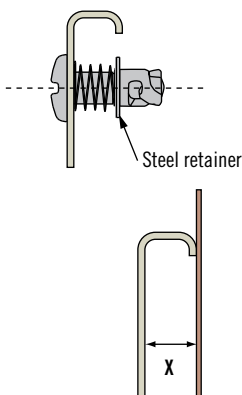
See table

Type	Part Number	Material	Adjustment Value
Push-on plastic	D8-326-100-040	High density polyethylene, black	Included in TMT calculation
Push-on	D8-326-101-200	Stainless steel	
Cupped washer	D8-376-001-049	Thermoplastic, black	Add 1.00 (.039)
Ejector spring	D4-EHF5-3-950QA	Stainless steel	Add 1.00 (.039)

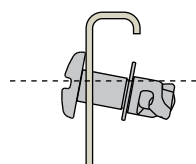
Retainer Spring (Must be secured with steel retainer)



With Retaining Spring



Without Retaining Spring



Part Number	H	X Min.	X Max.
D8-326-200-200	48 (1.89)	19 (.75)	44 (1.73)
D8-326-201-200	25 (.98)	5 (.197)	21 (.83)



D8 DZUS® PANEX Quarter-Turn Fasteners

Studs · Size 9

Material and Finish

Studs: Steel, zinc plated and chromate or chrome plated

82

85

D8

D1

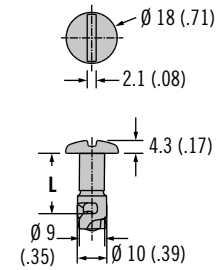
D4

D7

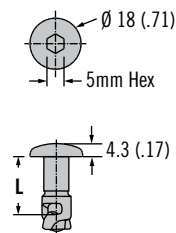
NY

H Head Styles - Tool Actuated

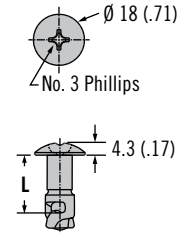
Oval Slot



Hex Recess



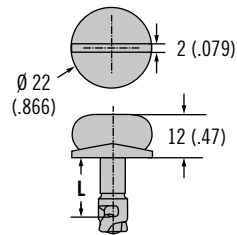
Phillips Recess



ACTUAL
SIZE

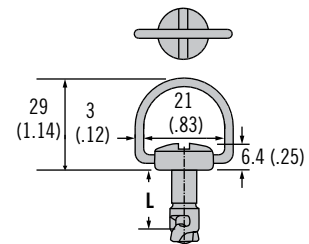
H Head Styles - Hand Actuated

Wing



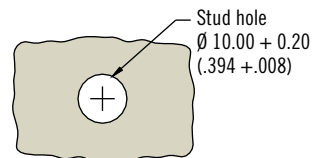
ACTUAL
SIZE

Bail



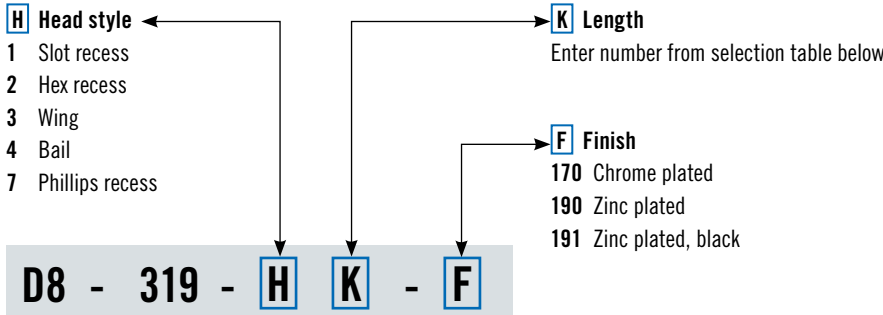
ACTUAL
SIZE

Stud Panel Preparation



D8 DZUS® PANEX Quarter-Turn Fasteners

Stud selection · Size 9



Part Number Selection

- 82
- 85
- D8**
- D1
- D4
- D7
- NY

To select correct fastener:

1. Select receptacle

Choose a receptacle from pages 300 - 302

2. Select retainer and accessories

from page 303 and note any adjustment values

3. Specify stud length

Calculate the total material thickness (TMT) using the formula given for the receptacle selected. Find the range of TMT using the stud length selection table (left) using the column (A, or B) given for the receptacle selected.

4. Complete the stud part number

by specifying the head style **H**, stud length **K**, and material **M**

Example:

For rivet-on

D8-339-400-121 use column A
For TMT value calculated as 5.2 (.206), K = 13

For slotted head style in steel, zinc plated material, completed part number: D8-319-113-190

A complete example can be found on page 271.

Notes

Stainless steel material may require a higher minimum order quantity. Contact Southco for details.

Stud Length Table					
A		B		K	L ±.15 (.006)
TMT Range For: D8-339-400-121 D8-339-500-121 D8-339-300-121 D8-339-301-121 D8-339-305-121		TMT Range For: D8-339-200-190			
Min.	Max.	Min.	Max.		
3.0 (.12)	3.9 (.15)	~	~	11	11 (.433)
4.0 (.16)	4.9 (.19)	~	~	12	12 (.472)
5.0 (.20)	5.9 (.23)	~	~	13	13 (.512)
6.0 (.24)	6.9 (.27)	~	~	14	14 (.551)
7.0 (.28)	7.9 (.31)	~	~	15	15 (.591)
8.0 (.31)	8.9 (.35)	~	~	16	16 (.630)
9.0 (.35)	9.9 (.39)	~	~	17	17 (.669)
10.0 (.39)	10.9 (.43)	~	~	18	18 (.709)
11.0 (.43)	11.9 (.47)	~	~	19	19 (.748)
12.0 (.47)	12.9 (.51)	~	~	20	20 (.787)
13.0 (.51)	13.9 (.55)	~	~	21	21 (.827)
14.0 (.55)	14.9 (.59)	2.5 (.10)	3.4 (.13)	22	22 (.866)
15.0 (.59)	15.9 (.63)	3.5 (.14)	4.4 (.17)	23	23 (.906)
16.0 (.63)	16.9 (.67)	4.5 (.18)	5.4 (.21)	24	24 (.945)
17.0 (.67)	17.9 (.70)	5.5 (.22)	6.4 (.25)	25	25 (.984)
18.0 (.71)	18.9 (.74)	6.5 (.26)	7.4 (.29)	26	26 (1.02)
19.0 (.75)	19.9 (.78)	7.5 (.30)	8.4 (.33)	27	27 (1.06)
20.0 (.79)	20.9 (.82)	8.5 (.33)	9.4 (.37)	28	28 (1.10)
21.0 (.83)	21.9 (.86)	9.5 (.37)	10.4 (.41)	29	29 (1.14)
22.0 (.87)	22.9 (.90)	10.5 (.41)	11.4 (.45)	30	30 (1.18)





D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 9

Material and Finish

Steel, zinc immersion coating

Installation Notes

Install with Ø 3 (.125) rivets

82

85

D8

D1

D4

D7

NY

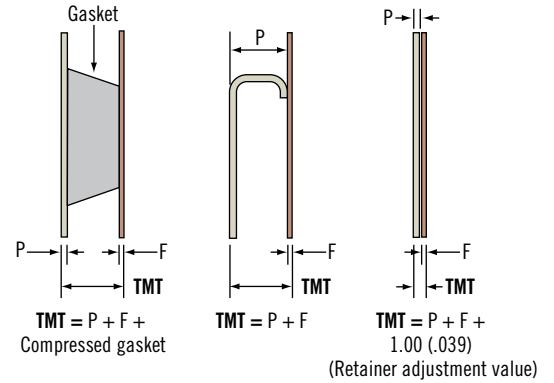
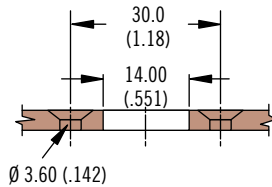
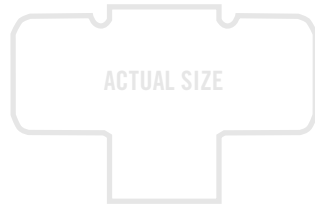
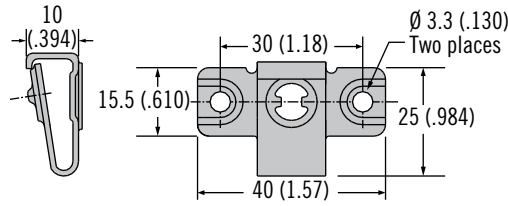
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 299

Rivet-On

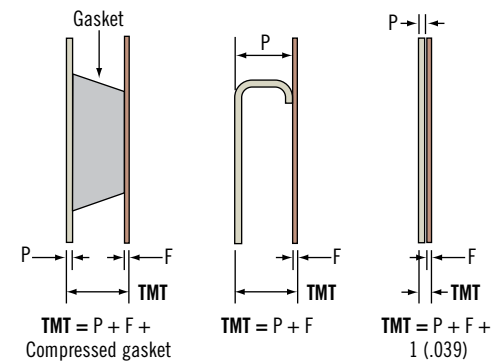
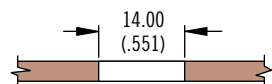
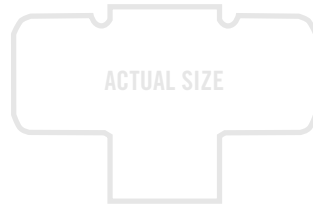
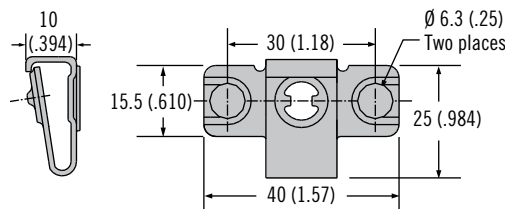


Part Number	Stud Selection Column
D8-339-400-121	A

Material and Finish

Steel, zinc immersion coating

Weld-On



Part Number	Stud Selection Column
D8-339-500-121	A

Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 299



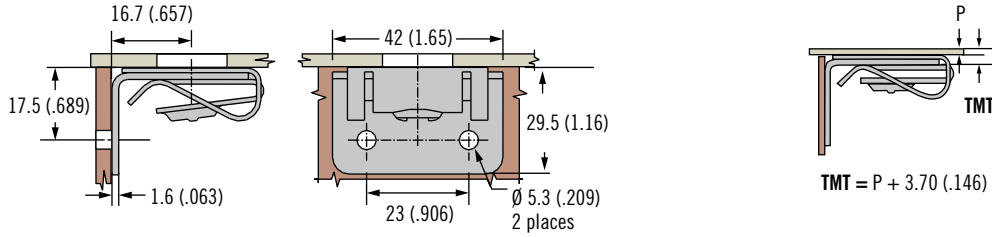
D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 9



301

Side Mount



Material and Finish

Steel, zinc immersion coating

82

85

D8

D1

D4

D7

NY



Part Number

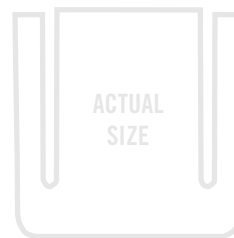
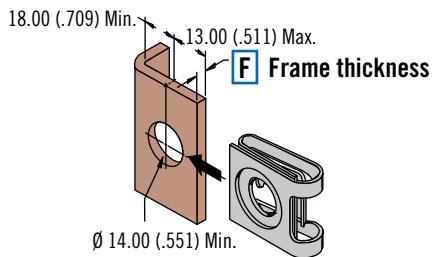
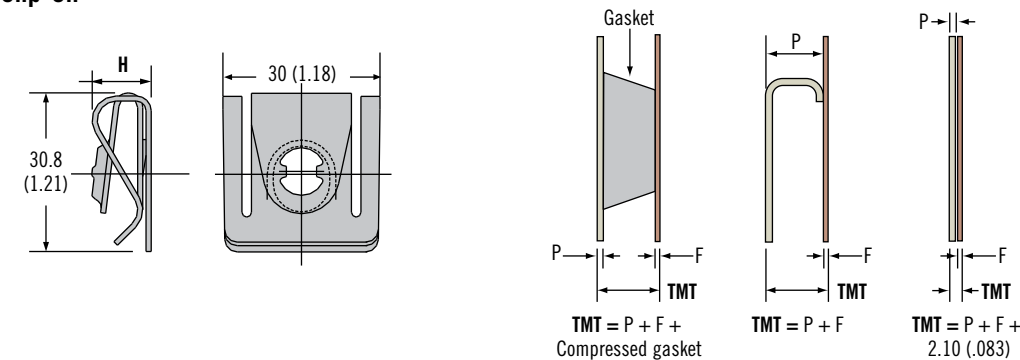
See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 299

Part Number	Stud Selection Column
D8-339-305-121	A

Clip-On



Material and Finish

Steel, zinc immersion coating

Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 299

F Frame Thickness Range	Part Number	H	Stud Selection Column
0.7 - 3.2 (.028 - .126)	D8-339-300-121	10.7 (.421)	A
3.2 - 5.5 (.126 - .217)	D8-339-301-121	11.3 (.445)	



D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 9

Material and Finish

Steel, zinc plated

82

85

D8

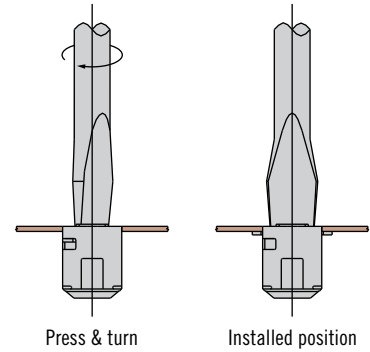
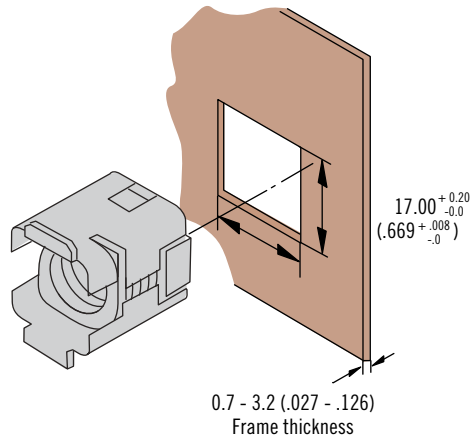
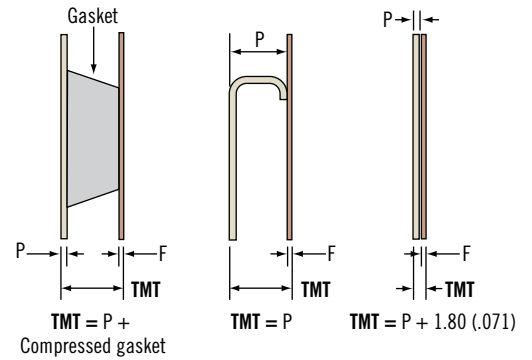
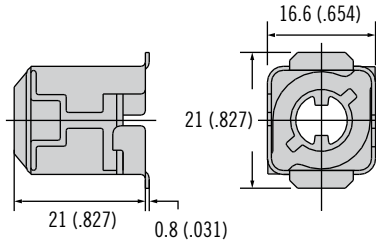
D1

D4

D7

NY

Front Mount



Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 299

Type	Part Number	Stud Selection Column
Front mount	D8-339-200-190	B

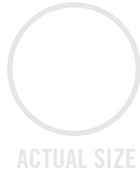
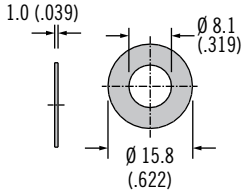


D8 DZUS® PANEX Quarter-Turn Fasteners

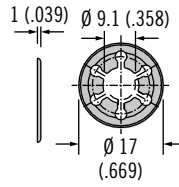
Retainers and accessories · Size 9



Retainer Push-On, Plastic



Retainer Push-On, Steel



Material and Finish

See table

Type	Part Number	Material	Adjustment Value
Push-on Plastic	D8-329-100-040	Nylon 6/6 Black	Included in TMT calculation
Push-on	D8-329-101-200	Stainless steel	

82

85

D8

D1

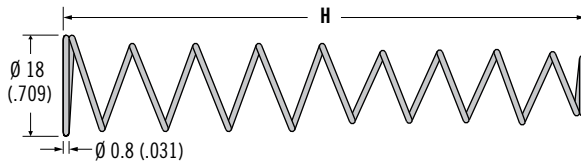
D4

D7

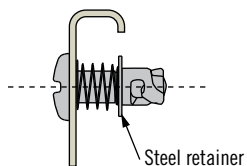
NY



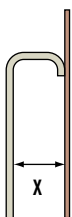
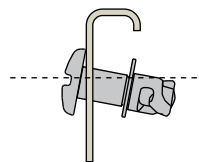
Retainer Spring (Must be secured with steel retainer)



With Retaining Spring



Without Retaining Spring



Part Number	H	X Min.	X Max.
D8-329-200-200	48 (1.89)	7 (.276)	43 (1.69)

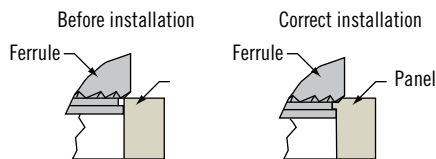
Installation Guidelines

for *SOUTHCO*® Self-Clinching products

Self-clinching product installation is offered on these *SOUTHCO*® products, making them easy-to-use captive panel fasteners:

- Captive Screws
- Receptacles for Quarter-turn Fasteners
- Receptacles for Fast-lead Thread Screws

When pressed into a properly prepared hole, self-clinching captive fasteners cold-flow (move) the panel material into the retaining groove of the fastener. This material then retains the fastener in the panel.



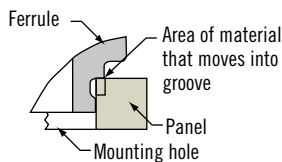
Successful press-in installations depend on:

Material:

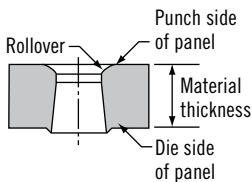
The hardness of the panel material must not exceed *SOUTHCO*® recommendations. If the panel is too hard, the fastener will not install correctly.

Installation Holes:

Mounting holes may be drilled, punched, or cast.



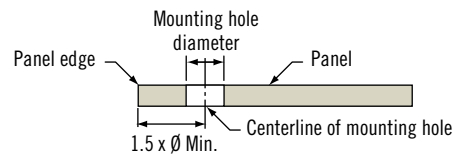
- Hole edge: the top hole edge must be sharp but with no broken edges. Do not chamfer or debur edge.
- Punched holes: use a punch and die with a small clearance to minimize the rollover and fracture angle.
- Hole diameter: measure the hole diameter at the panel surface on the side on which the fastener will be installed. The diameter must be within *SOUTHCO*® specifications for that product.



- If the hole is too large, not enough material will flow into the retaining groove and the fastener may not be retained adequately.
- If the hole is too small, the fastener will not fit and installation may become difficult and unsafe.
- Hole distance from the edge of panel: the minimum recommended distance is 1.5 x the diameter of the mounting hole, unless otherwise indicated.

- Spring-loaded Plungers
- Captive Nuts
- Threaded Inserts

- Installing too close to the edge will cause the material to flow in the opposite direction, deforming the edge of the panel. To install closer to the edge, you may need to restrain the panel edge.



Panel Thickness:

The thickness of the panel at the mounting hole location must meet or exceed Southco's stated minimum recommendations.

If the material is too thin, panel deformation and/or damage to the fastener may result.

Installation is fast and easy if you follow these tips:

How to install: Use the recommended force where noted and a proper back-up tool.

- use any parallel-acting press
- use a punch whose diameter is larger than the head of the fastener

Installation Force: Proper installation requires an even distribution of adequate force. It does not depend on the distance the fastener is pressed into the panel.

- Southco does not recommend using a hammer. The impact force does not provide an even distribution of force to allow the panel material to completely flow into the fastener's retaining groove.
- Installation force varies from application to application, depending on the criteria noted above.
- On parts without a collar to provide a hard stop, press-in until the edge of the knurl is just barely visible.

When to Install:

Installation is recommended after plating or finishing has been applied to the panel.

The hole diameter must meet specifications before finish or plating is applied.

- Do not over-install parts. This interrupts the material and will reduce the retention strength.

