



D8 DZUS® PANEX Quarter-Turn Fasteners

Studs · Size 9

Material and Finish

Studs: Steel, zinc plated and chromate or chrome plated

82

85

D8

D9

D1

D4

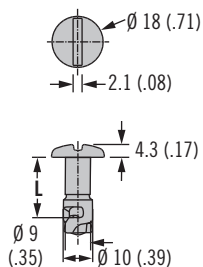
D5

D7

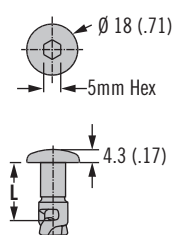
NY

H Head Styles - Tool Actuated

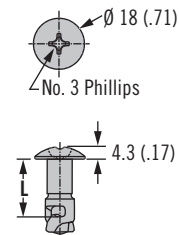
Oval Slot



Hex Recess

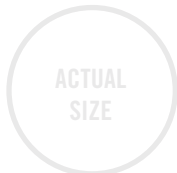
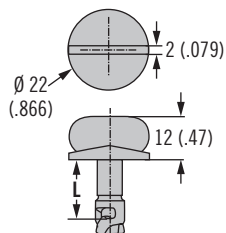


Phillips Recess

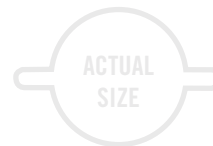
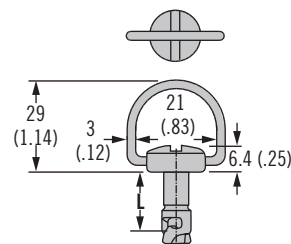


H Head Styles - Hand Actuated

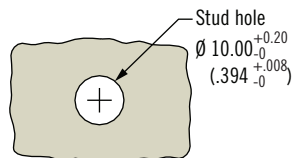
Wing



Bail



Stud Panel Preparation



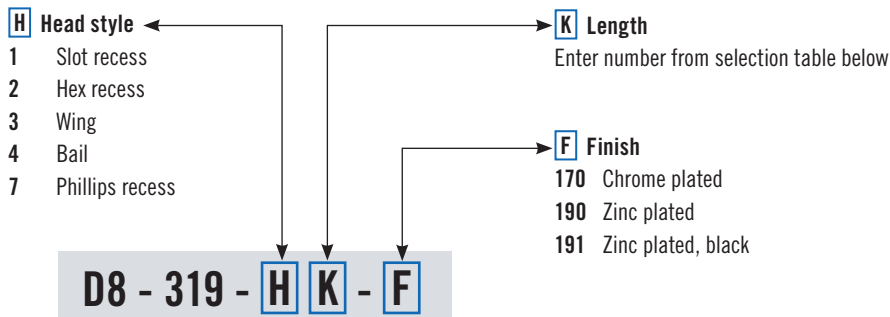
Dimensions in millimeters (inch) unless otherwise stated



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D8 DZUS® PANEX Quarter-Turn Fasteners

Stud selection · Size 9



Part Number Selection

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- NY

To select correct fastener:

1. Select receptacle

Choose a receptacle from pages 406-408

2. Select retainer and accessories

from page 409 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 377.

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

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D8

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D4

D5

D7

NY

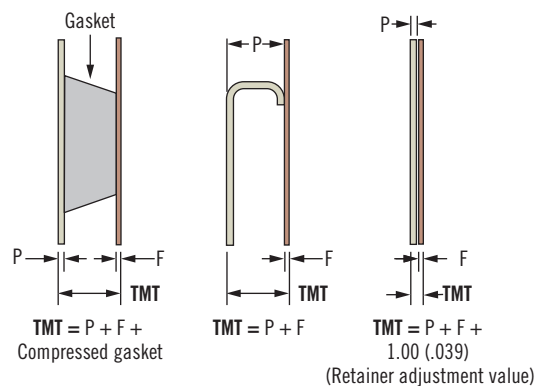
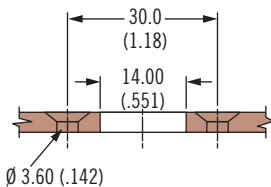
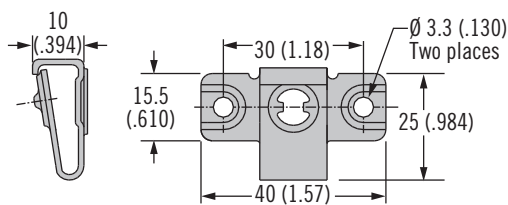
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 405

Rivet-On

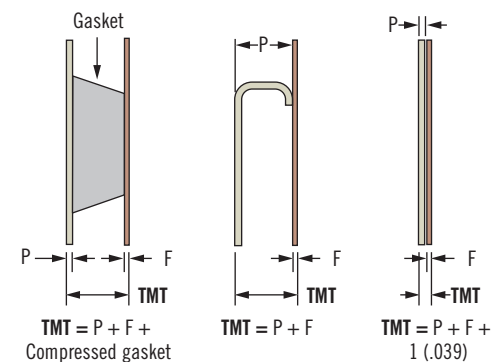
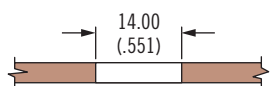
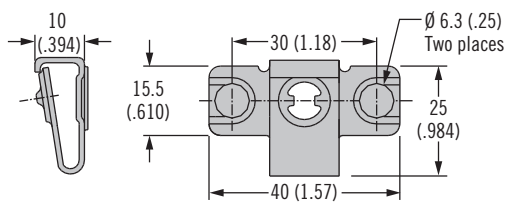


Part Number	Stud Selection Column
D8-339-400-121	A

Material and Finish

Steel, zinc immersion coating

Weld-On



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

Part Number

See table

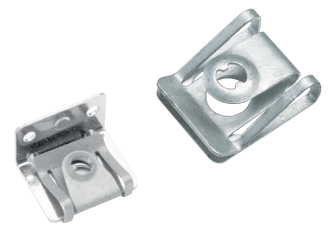
Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 405

Dimensions in millimeters (inch) unless otherwise stated

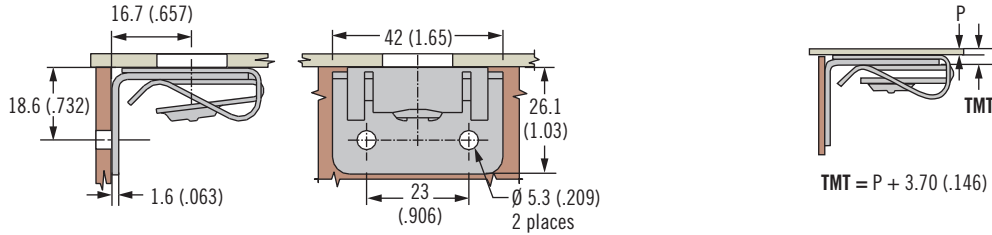
D8 DZUS® PANEX Quarter-Turn Fasteners

Receptacles · Size 9



407

Side Mount



Material and Finish

Steel, zinc immersion coating

82

85

D8

D9

D1

D4

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D7

NY



Part Number

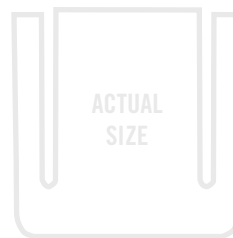
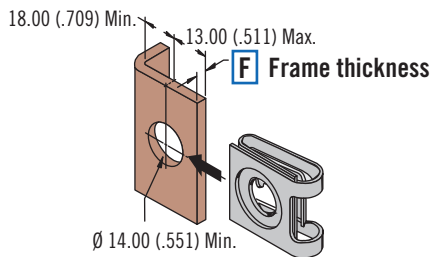
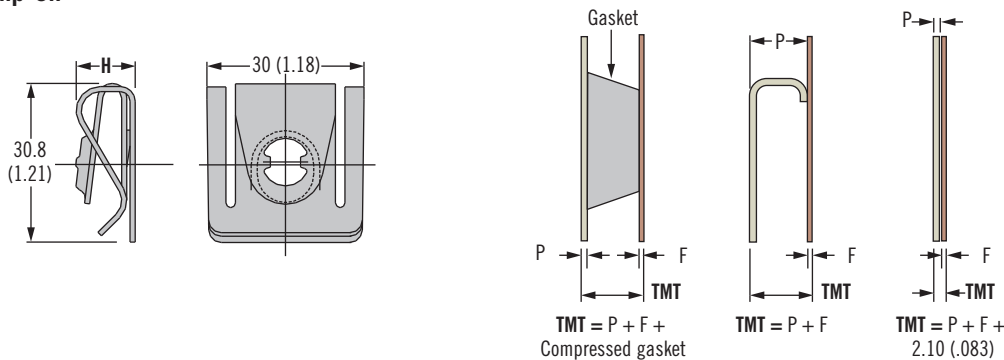
See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 405

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 405

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

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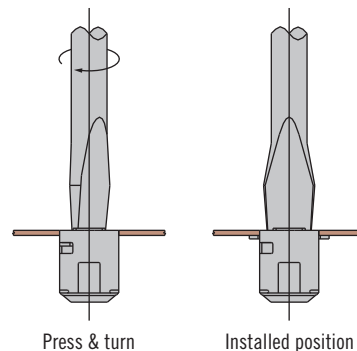
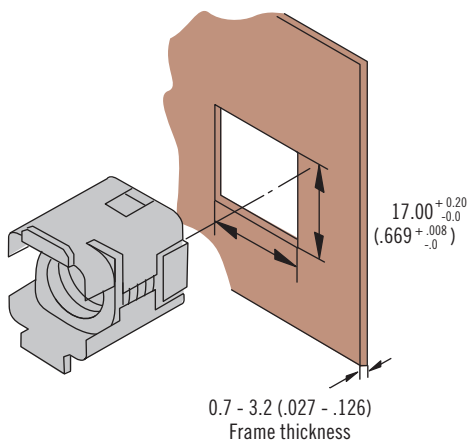
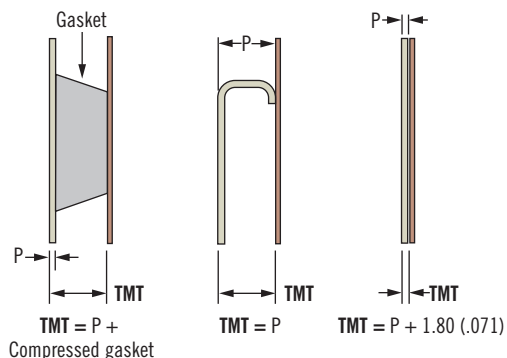
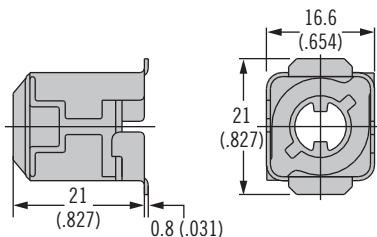
D4

D5

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 405

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

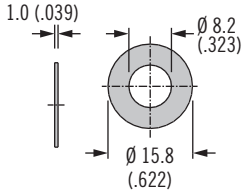


D8 DZUS® PANEX Quarter-Turn Fasteners

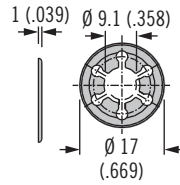
Retainers and accessories · Size 9



Retainer Push-On, Plastic



Retainer Push-On, Steel



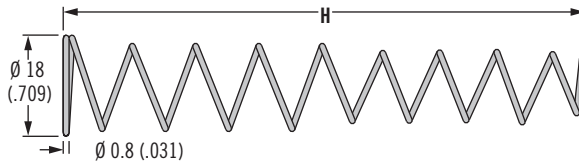
Type	Part Number	Material	Adjustment Value
Push-on Plastic	D8-329-101-040	Nylon 6/6 Black	Included in TMT calculation
Push-on	D8-329-101-200	Stainless steel	

Material and Finish

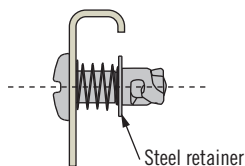
See table

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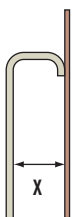
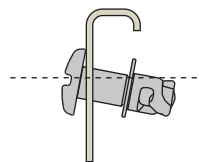
Retainer Spring (Must be secured with steel retainer)



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)

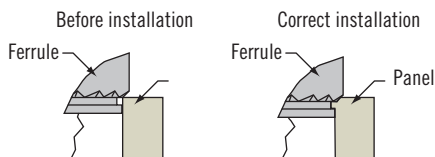
Installation Guidelines

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:

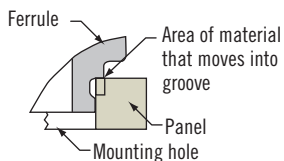
Material:

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:

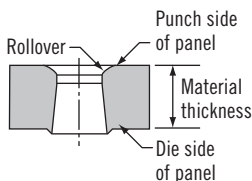
Mounting holes may be drilled, punched, or cast.

- 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.



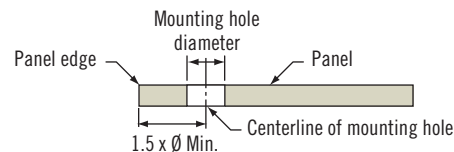
- If the hole is too large, not enough material will flow into the

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.

