



D4 DZUS® Standard Line Quarter-Turn Fasteners

Stud selection · Size 3

Material and Finish

Studs:

Steel, zinc plated or stainless steel

82

85

D8

D1

D4

D7

NY

To select correct fastener:

1. Select receptacle

Choose a receptacle from page 309

2. Select retainer and accessories

from pages 310 - 311 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 (right) 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

D4-S3-175 use column A

For TMT value calculated as 5.2 (.206), K = 35

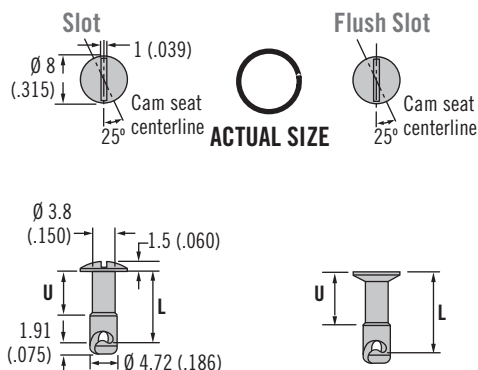
For slotted head style in steel material, completed part number: D4-AJ3-35

A complete example can be found on page 271.

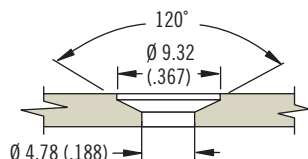
Notes

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

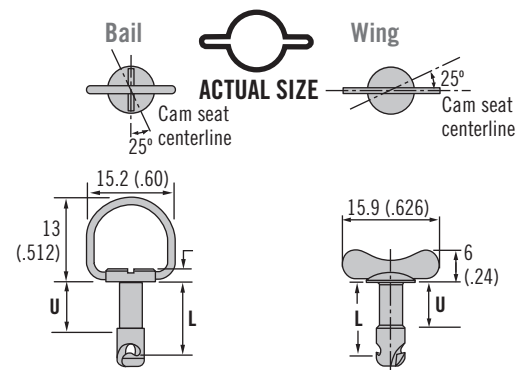
H Head Styles - Tool Actuated



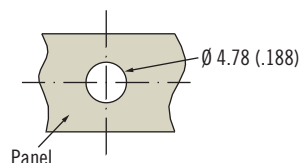
Flush



H Head Styles - Hand Actuated



Standard



H Head style
AJ Slot
AJW Wing head
BJR Bail
FJ Flush slot

K Length
 Enter number from selection table below

M Material
SS Stainless steel
 Omit for steel, zinc plated

D4 - H 3 - K M

Stud Length Table

A				B				K	U	L
TMT Range For: Rivet-On Receptacle D4-S3-175		TMT Range For: Rivet-On Receptacle D4-S3-150		TMT Range For: Weld-On Receptacle D4-X735-205		TMT Range For: Weld-On Receptacle D4-X735-180				
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.			
2.41 (.095)	3.02 (.119)	3.05 (.12)	3.66 (.144)	1.65 (.065)	2.26 (.089)	2.29 (.09)	2.9 (.114)	25	1.91 (.075)	6.35 (.250)
3.68 (.145)	4.29 (.169)	4.32 (.17)	4.93 (.194)	2.92 (.115)	3.53 (.139)	3.56 (.14)	4.17 (.164)	30	2.54 (.100)	7.62 (.300)
4.95 (.195)	5.56 (.219)	5.59 (.22)	6.2 (.244)	4.19 (.165)	4.8 (.189)	4.83 (.19)	5.44 (.214)	35	3.81 (.150)	8.89 (.350)
6.22 (.245)	6.83 (.269)	6.86 (.27)	7.47 (.294)	5.46 (.215)	6.07 (.239)	6.1 (.24)	6.71 (.264)	40	5.08 (.200)	10.16 (.400)
7.49 (.295)	8.1 (.319)	8.13 (.32)	8.74 (.344)	6.73 (.265)	7.34 (.289)	7.37 (.29)	7.98 (.314)	45	5.77 (.227)	11.43 (.450)
8.76 (.345)	9.37 (.369)	9.4 (.37)	10.01 (.394)	8.00 (.315)	8.61 (.339)	8.64 (.34)	9.25 (.364)	50	6.35 (.250)	12.70 (.500)
10.03 (.395)	10.64 (.419)	10.67 (.42)	11.28 (.444)	9.27 (.365)	9.88 (.389)	9.91 (.39)	10.52 (.414)	55	6.99 (.275)	13.97 (.547)
11.3 (.445)	11.91 (.469)	11.94 (.47)	12.55 (.494)	10.54 (.415)	11.15 (.439)	11.18 (.44)	11.79 (.464)	60	7.62 (.300)	15.24 (.600)
12.57 (.495)	13.18 (.519)	13.21 (.52)	13.82 (.544)	11.81 (.465)	12.42 (.489)	12.45 (.49)	13.06 (.514)	65	8.89 (.350)	16.51 (.647)
13.84 (.545)	14.45 (.569)	14.48 (.57)	15.09 (.594)	13.08 (.515)	13.69 (.539)	13.72 (.54)	14.33 (.564)	70		17.78 (.700)
15.11 (.595)	15.72 (.619)	15.75 (.62)	16.36 (.644)	14.35 (.565)	14.96 (.589)	14.99 (.59)	15.6 (.614)	75	9.5 (.374)	19.05 (.746)
16.38 (.645)	16.99 (.669)	17.02 (.67)	17.63 (.694)	15.62 (.615)	16.23 (.639)	16.26 (.64)	16.87 (.664)	80	10.16 (.400)	20.32 (.800)

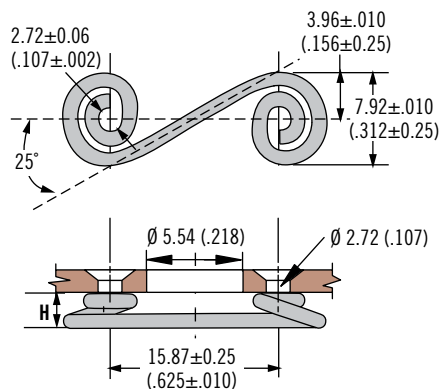
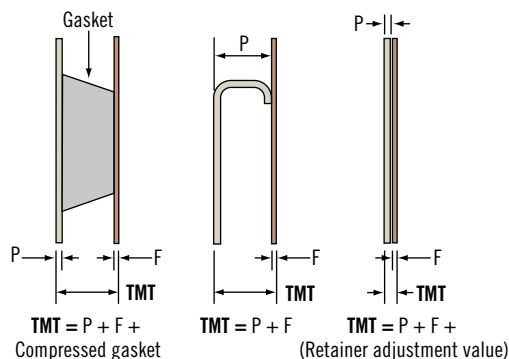
D4 DZUS® Standard Line Quarter-Turn Fasteners

Receptacles · Size 3



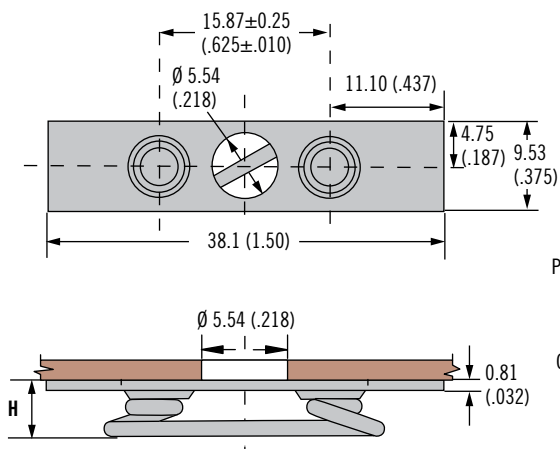
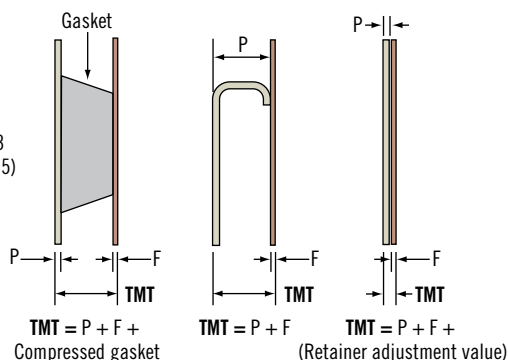
309

Rivet-On



Part Number		H±0.25(.010)	Stud Selection Column
Steel	Stainless Steel		
D4-S3-150	D4-S3-150SS	3.81 (.150)	A
D4-S3-175	D4-S3-175SS	4.45 (.175)	

Weld-On



ACTUAL SIZE

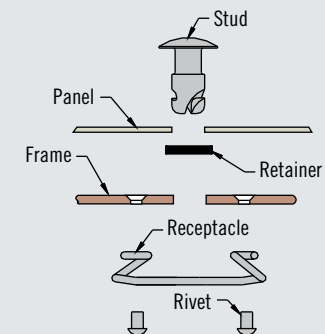
Part Number	H	Stud Selection Column
D4-X735-180	4.57 (.180)	B
D4-X735-205	5.21 (.205)	

Material and Finish

Steel, zinc plated or stainless steel

Notes

After selecting receptacle use stud selection letter **A** and follow instruction on page 308



Part Number

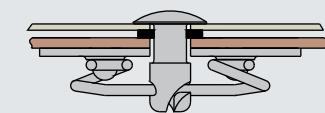
See table

Material and Finish

Steel, zinc plated

Notes

After selecting receptacle use stud selection letter **B** and follow instruction on page 308



Part Number

See table



D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 3

Material and Finish

Retaining ring and spring:

Stainless steel

Retainer GH: Aluminum, natural

Retainer GP, natural: HD polythene

Retainer GP, black: Polypropylene

Installation Notes

1. Place the retainer on the mandrel as shown
2. Align ring or spring ends so that they will miss the stud cam
3. Place mandrel in end of stud cam
4. Place tool over mandrel
5. Push retainer until it is sealed in stud undercut

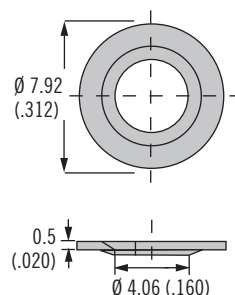
Notes

Tooling:

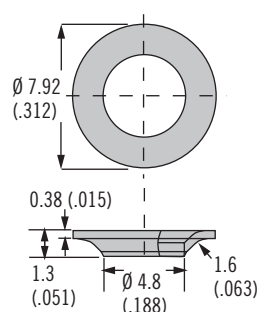
29 - TFRS hand tool: Spreads the inside diameter of retainers over stud shanks and then pushes them into stud undercuts.

29 - TB1A block: Nests stud heads during installation. (Any flat block may be used for BJR bail head studs).

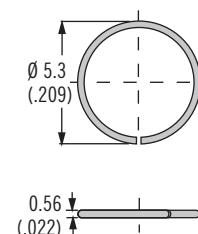
Retainer GP



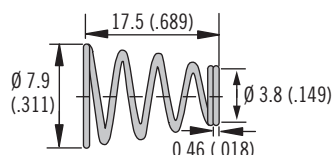
Retainer GH



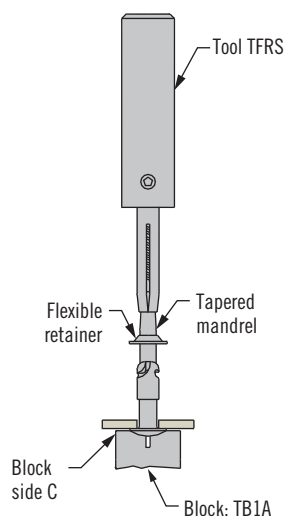
Retaining Ring



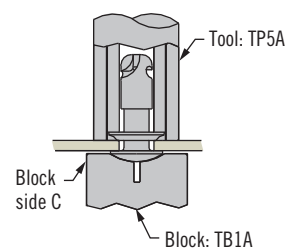
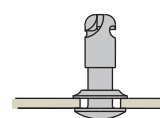
Retaining Spring



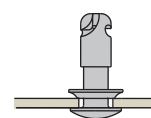
Install Retainer GP, Retaining Ring and SX



Install Retainer GH



Oversized Hole
Large diameter faces panel



Standard Hole
Small diameter faces panel

Part Number

See table

Type	Part Number	Adjustment Value	Installation Tool Part Number
Retainer GP, natural	D4-GP3	Add 0.51 (.020)	29-TFRS3 and 29-TB1A3 (both required for correct installation - see images above)
Retainer GP, black	D4-GP3B		
Retainer GH	D4-GH3	Add 0.38 (.015)	29-TP5A3 and 29-TB1A3 (both required for correct installation - see images above)
Retaining ring	D4-RR3	Add 0.56 (.022)	29-TFRS3 and 29-TB1A3 (both required for correct installation - see images above)
Retaining spring	D4-SX520	Add 0.91 (.036)	

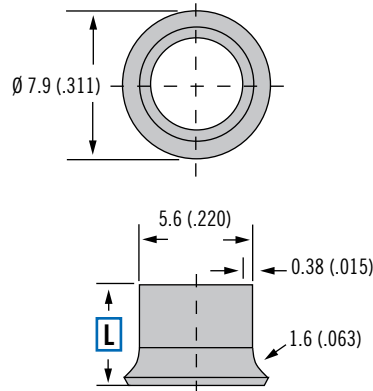
D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 3



311

Retainer GA

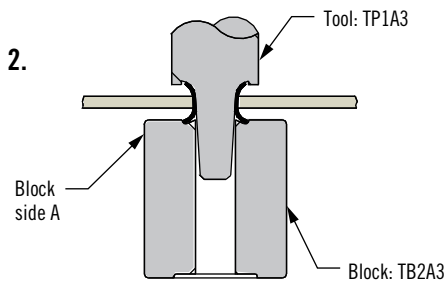


Installation Retainer GA

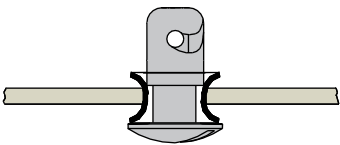
1.



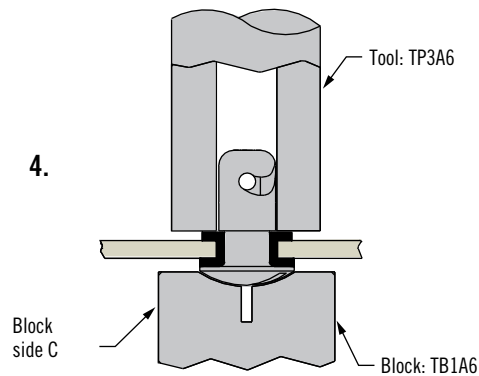
2.



3.



4.



Material and Finish

Retainer GA: Aluminum, natural

Installation Notes

1. Insert retainer in panel hole
2. Set retainer
3. Insert stud
4. Flatten retainer

82

85

D8

D1

D4

D7

NY



Panel Thickness	L	Part Number	Adjustment Formula	Installation Tool Part Number
0.38 - 0.64 (.015 - .025)	4.45 (.175)	D4-GA3-175	Add 0.38 (.015)	29-TP1A3, 29-TP3A3, 29-TB1A3 and 29-TB2A3 (all four required for correct installation - see images above)
0.66 - 1.27 (.026 - .050)	5.08 (.200)	D4-GA3-200		
1.29 - 2.38 (.051 - .094)	6.35 (.250)	D4-GA3-250		

Part Number

See table



D4 DZUS® Standard Line Quarter-Turn Fasteners

Stud selection · Size 4

Material and Finish

Studs:

Steel, zinc plated or stainless steel

82

85

D8

D1

D4

D7

NY



To select correct fastener:

1. Select receptacle

Choose a receptacle from pages 314 - 315

2. Select retainer and accessories

from pages 316 - 317 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 (right) using the column (A, B, C, or D) 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

D4-S4-225 use column A

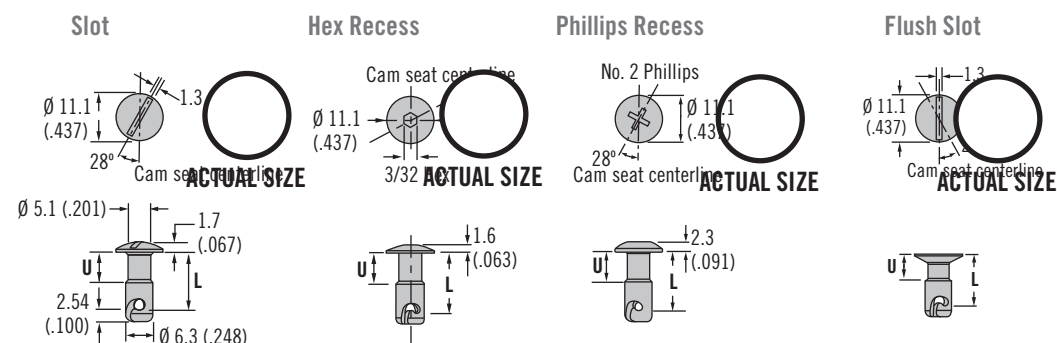
For TMT value calculated as 5.2 (.206), K = 40

For slotted head style in steel material, completed part number:

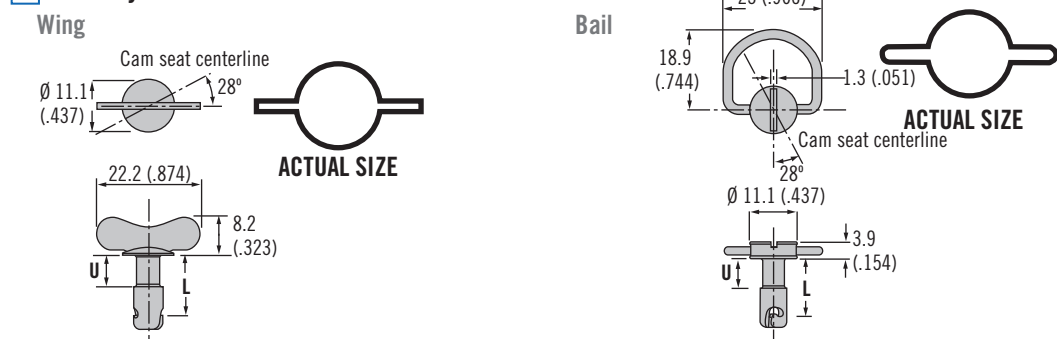
D4-AJ4-40

A complete example can be found on page 271

H Head Styles - Tool Actuated

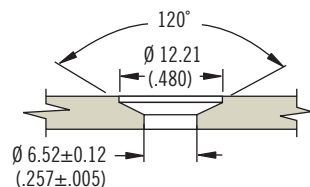


H Head Styles - Hand Actuated

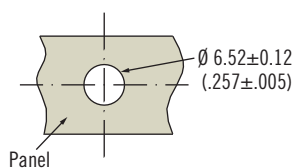


Stud Length Table										
A				B				K	U	L
TMT Range For: Rivet-On Receptacle D4-S4-225		TMT Range For: Rivet-On Receptacle D4-S4-200		TMT Range For: Weld-On Receptacle D4-X485-300		TMT Range For: Weld-On Receptacle D4-X485-275				
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.			
1.27 (.050)	1.88 (.074)	1.91 (.075)	2.51 (.099)	~	~	~	~	25	1.91 (.075)	6.35 (.250)
2.54 (.100)	3.15 (.124)	3.18 (.125)	3.78 (.149)	0.64 (.025)	1.24 (.049)	1.27 (.050)	1.88 (.074)	30	2.54 (.100)	7.62 (.300)
3.81 (.150)	4.42 (.174)	4.45 (.175)	5.05 (.199)	1.91 (.075)	2.51 (.099)	2.54 (.100)	3.15 (.124)	35	3.81 (.150)	8.89 (.350)
5.08 (.200)	5.69 (.224)	5.72 (.225)	6.32 (.249)	3.18 (.125)	3.78 (.149)	3.81 (.150)	4.42 (.174)	40	5.08 (.200)	10.16 (.400)
6.35 (.250)	6.96 (.274)	6.99 (.275)	7.59 (.299)	4.45 (.175)	5.05 (.199)	5.08 (.200)	5.69 (.224)	45	5.72 (.225)	11.43 (.450)
7.62 (.300)	8.23 (.324)	8.26 (.325)	8.86 (.349)	5.72 (.225)	6.32 (.249)	6.35 (.250)	6.96 (.274)	50	6.35 (.250)	12.70 (.500)
8.89 (.350)	9.50 (.374)	9.53 (.375)	10.13 (.399)	6.99 (.275)	7.59 (.299)	7.62 (.300)	8.23 (.324)	55	6.99 (.275)	13.97 (.550)
10.16 (.400)	10.77 (.424)	10.80 (.425)	11.40 (.449)	8.26 (.325)	8.86 (.349)	8.89 (.350)	9.50 (.374)	60	7.62 (.300)	15.24 (.600)
11.43 (.450)	12.04 (.474)	12.07 (.475)	12.67 (.499)	9.53 (.375)	10.13 (.399)	10.16 (.400)	10.77 (.424)	65	8.89 (.350)	16.51 (.650)
12.70 (.500)	13.31 (.524)	13.34 (.525)	13.94 (.549)	10.80 (.425)	11.40 (.449)	11.43 (.450)	12.04 (.474)	70		17.78 (.700)
13.97 (.550)	14.58 (.574)	14.61 (.575)	15.21 (.599)	12.07 (.475)	12.67 (.499)	12.70 (.500)	13.31 (.524)	75	10.16 (.400)	19.05 (.750)
15.24 (.600)	15.85 (.624)	15.88 (.625)	16.48 (.649)	13.34 (.525)	13.94 (.549)	13.97 (.550)	14.58 (.574)	80		20.32 (.800)
16.51 (.650)	17.12 (.674)	17.15 (.675)	17.75 (.699)	14.61 (.575)	15.21 (.599)	15.24 (.600)	15.85 (.624)	85	12.70 (.500)	21.59 (.850)
17.78 (.700)	18.39 (.724)	18.42 (.725)	19.02 (.749)	15.88 (.625)	16.48 (.649)	16.51 (.650)	17.12 (.674)	90	15.24 (.600)	22.86 (.900)
19.05 (.750)	19.66 (.774)	19.69 (.775)	20.29 (.799)	17.15 (.675)	17.75 (.699)	17.78 (.700)	18.39 (.724)	95		24.13 (.950)
20.32 (.800)	20.93 (.824)	20.96 (.825)	21.56 (.849)	18.42 (.725)	19.02 (.749)	19.05 (.750)	19.66 (.774)	100		25.40 (1.00)

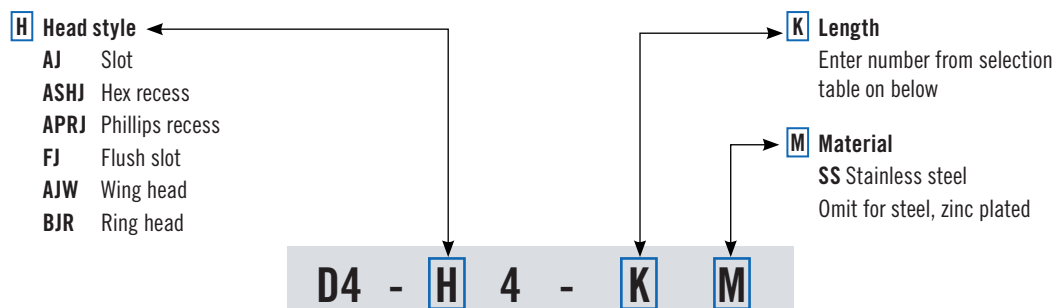
Flush



Standard



Part Number Selection



Stud Length Table						
C				K	U	L
TMT Range For: Clip-On Receptacle D4-SL4-305		TMT Range For: Clip-On Receptacle D4-SL4-280				
Min.	Max.	Min.	Max.			
~	~	~	~	25	1.91 (.075)	6.35 (.250)
~	~	1.17 (.046)	1.78 (.070)	30	2.54 (.100)	7.62 (.300)
1.80 (.071)	2.41 (.095)	2.44 (.096)	3.05 (.120)	35	3.81 (.150)	8.89 (.350)
3.07 (.121)	3.68 (.145)	3.71 (.146)	4.32 (.170)	40	5.08 (.200)	10.16 (.400)
4.34 (.171)	4.95 (.195)	4.98 (.196)	5.59 (.220)	45	5.72 (.225)	11.43 (.450)
5.61 (.221)	6.22 (.245)	6.25 (.246)	6.86 (.270)	50	6.35 (.250)	12.70 (.500)
6.88 (.271)	7.49 (.295)	7.52 (.296)	8.13 (.320)	55	6.99 (.275)	13.97 (.550)
8.15 (.321)	8.76 (.345)	8.79 (.346)	9.40 (.370)	60	7.62 (.300)	15.24 (.600)
9.42 (.371)	10.03 (.395)	10.06 (.396)	10.67 (.420)	65	8.89 (.350)	16.51 (.650)
10.69 (.421)	11.30 (.445)	11.33 (.446)	11.94 (.470)	70		17.78 (.700)
11.96 (.471)	12.57 (.495)	12.60 (.496)	13.21 (.520)	75	10.16 (.400)	19.05 (.750)
13.23 (.521)	13.84 (.545)	13.87 (.546)	14.48 (.570)	80		20.32 (.800)
14.50 (.571)	15.11 (.595)	15.14 (.596)	15.75 (.620)	85	12.7 (.500)	21.59 (.850)
15.77 (.621)	16.38 (.645)	16.41 (.646)	17.02 (.670)	90	15.24 (.600)	22.86 (.900)
17.04 (.671)	17.65 (.695)	17.68 (.696)	18.29 (.720)	95		24.13 (.950)
18.31 (.721)	18.92 (.745)	18.95 (.746)	19.56 (.770)	100		25.40 (1.00)

Stud Length Table					
D			K	U	L
TMT Range For: Snap-In - Rear Mount Receptacle D4-SQC4-F					
Min.	Max.	D4-GP4B			
0.48 (.019)	1.09 (.043)	None	45	5.72 (.225)	11.43 (.450)
1.12 (.044)	1.73 (.068)	One	50	6.35 (.250)	12.70 (.500)
1.75 (.069)	2.36 (.093)	None	50		
2.39 (.094)	3.00 (.118)	One	55	6.99 (.275)	13.97 (.550)
3.02 (.119)	3.63 (.143)	None	55		
3.66 (.144)	4.27 (.168)	One	60	7.62 (.300)	15.24 (.600)
4.29 (.169)	4.90 (.193)	None	60		
4.93 (.194)	5.54 (.218)	One	65	8.89 (.350)	16.51 (.650)
5.56 (.219)	6.17 (.243)	None	65		
6.20 (.244)	6.81 (.268)	One	70		17.78 (.700)
6.83 (.269)	7.44 (.293)	None	70	10.16 (.400)	19.05 (.750)
7.47 (.294)	8.08 (.318)	One	75		
8.10 (.319)	8.71 (.343)	None	75		
8.74 (.344)	9.35 (.368)	One	80		20.32 (.800)
9.37 (.369)	9.98 (.393)	None	80		



D4 DZUS® Standard Line Quarter-Turn Fasteners

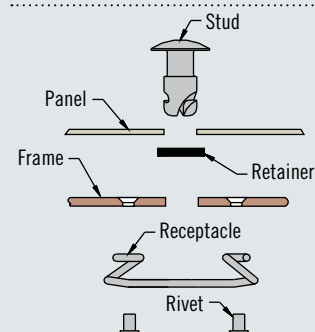
Receptacles · Size 4

Material and Finish

Steel, zinc plated or stainless steel

Notes

After selecting receptacle use stud selection letter **A** and follow instruction on page 312



Part Number

See table

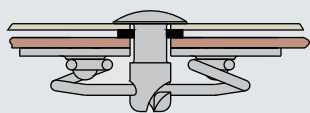
Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 312 - 313

Material and Finish

Steel, zinc plated or stainless steel

Notes

After selecting receptacle use stud selection letter **B** and follow instruction on page 312

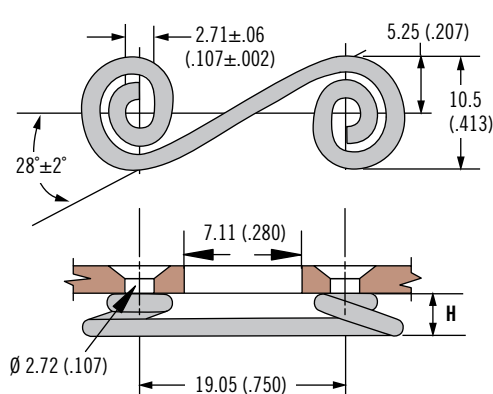


Part Number

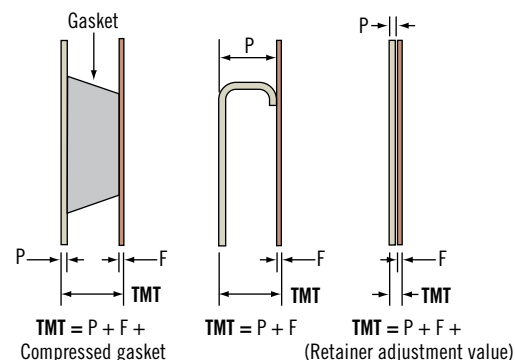
See table

Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 312 - 313

Rivet-On

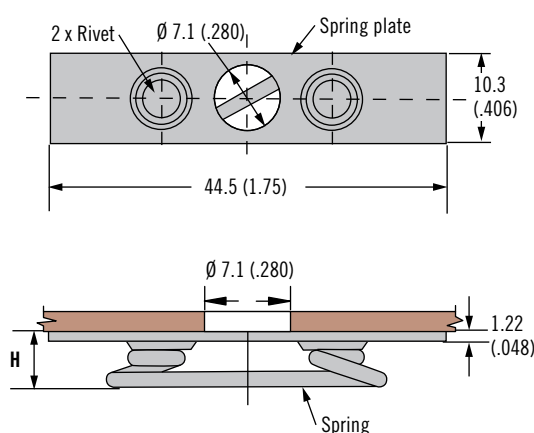
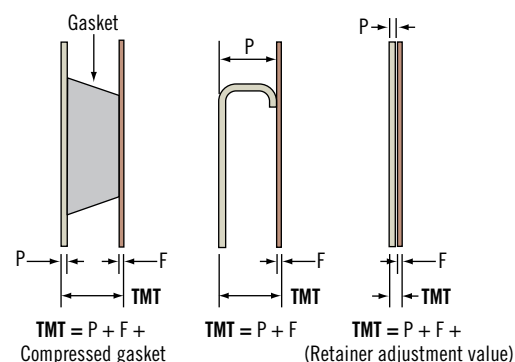


ACTUAL SIZE



Part Number		H	Stud Selection Column
Steel	Stainless Steel		
D4-S4-200	D4-S4-200SS	5.08 (.200)	A
D4-S4-225	D4-S4-225SS	5.72 (.225)	

Weld-On



ACTUAL SIZE

Part Number		H	Stud Selection Column
Steel	Stainless Steel		
D4-X485-275	D4-X485-275SS	6.98 (.275)	B
D4-X485-300	D4-X485-300SS	7.62 (.300)	

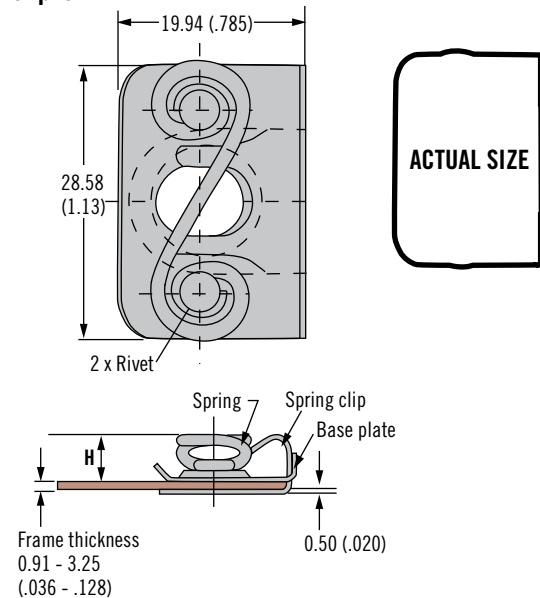
D4 DZUS® Standard Line Quarter-Turn Fasteners

Receptacles · Size 4

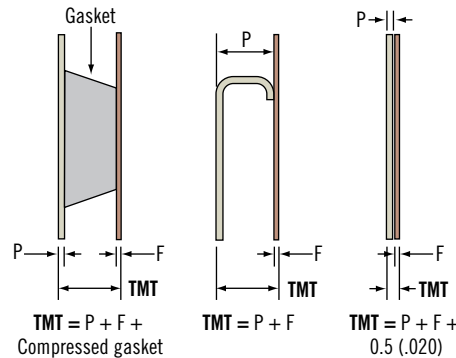
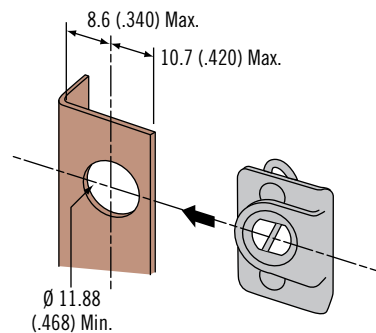


315

Clip-On



Part Number	H	Stud Selection Column
D4-SL4-280	7.11 (.280)	C
D4-SL4-305	7.75 (.305)	



Material and Finish

Steel, zinc plated

Notes

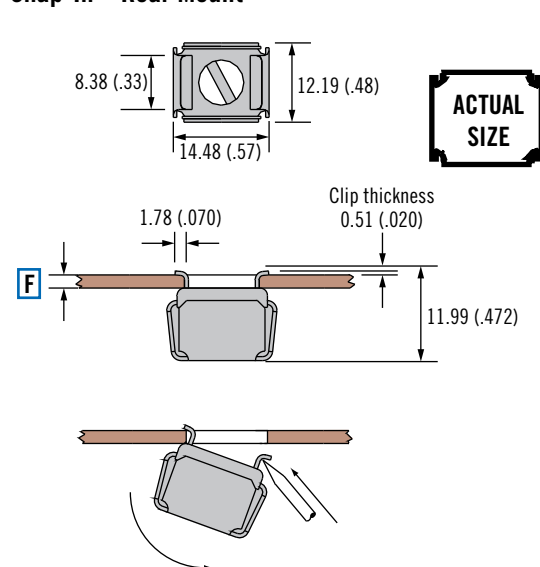
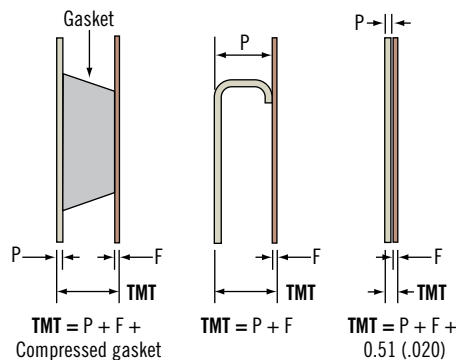
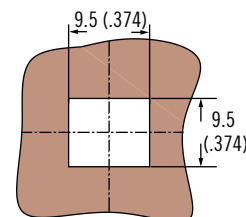
After selecting receptacle use stud selection letter **C** and follow instruction on page 312

Part Number

See table

Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 312 - 313

Snap-In – Rear Mount



Part Number	F Frame Thickness	H	Stud Selection Column
D4-SQC4-16	0.78 - 1.42 (.031 - .056)	11.48 (.452)	D
D4-SQC4-20	1.47 - 1.98 (.058 - .078)	11.48 (.452)	
D4-SQC4-25	2 - 2.49 (.079 - .098)	11.48 (.452)	
D4-SQC4-30	2.59 - 3.18 (.102 - .125)	11.48 (.452)	

Material and Finish

Steel, zinc plated

Installation Notes

For stud retention use only retaining ring part number: D4-RR4

Notes

After selecting receptacle use stud selection letter **D** and follow instruction on page 312

Part Number

See table

Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 312 - 313



D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 4

Material and Finish

Retaining ring and spring:

Stainless steel

Retainer GH: Aluminum, natural

Retainer GP, natural: HD polythene

Retainer GP, black: Polypropylene

Installation Notes

1. Place the retainer on the mandrel as shown
2. Align ring or spring ends so that they will miss the stud cam
3. Place mandrel in end of stud cam
4. Place tool over mandrel
5. Push retainer until it is sealed in stud undercut

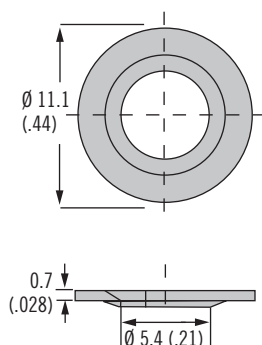
Notes

Tooling:

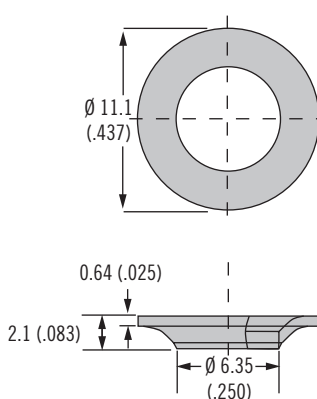
TFRS hand tool: Spreads the inside diameter of retainers over stud shanks and then pushes them into stud undercuts.

TB1A block: Nests stud heads during installation. (Any flat block may be used for BJR bail head studs).

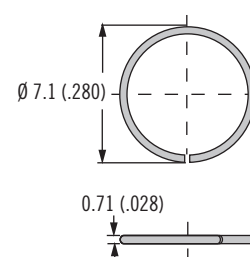
Retainer GP



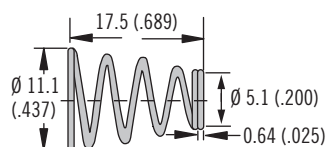
Retainer GH



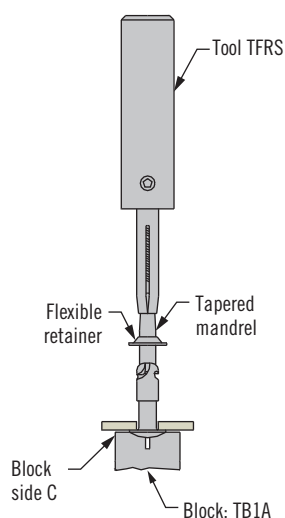
Retainer Ring



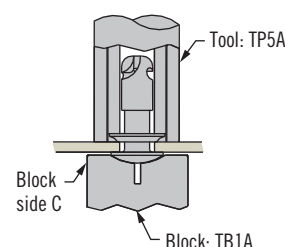
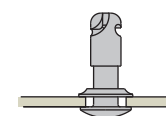
Spring



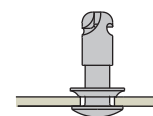
Install Retainer GP, Retaining Ring and SX



Install Retainer GH



Oversized Hole
Large diameter faces panel



Standard Hole
Small diameter faces panel

Part Number

see table

Type	Part Number	Adjustment Value	Installation Tool Part Number
Retainer GP, natural	D4-GP4	Add 0.7 (.028)	29-TFRS4 and 29-TB1A4 (both required for correct installation - see images above)
Retainer GP, black	D4-GP4B		
Retainer GH	D4-GH4	Add 0.64 (.025)	29-TP5A4 and 29-TB1A4 (both required for correct installation - see images above)
Retaining ring	D4-RR4	Add 0.74 (.029)	29-TFRS4 and 29-TB1A4 (both required for correct installation - see images above)
Retaining spring	D4-SX523	Add 1.28 (.050)	

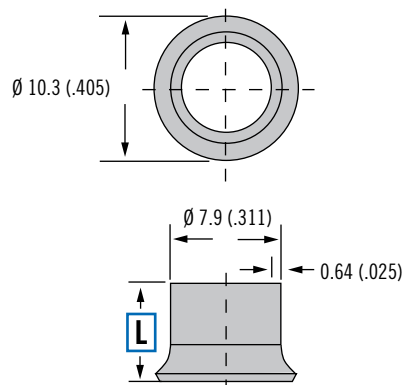
D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 4

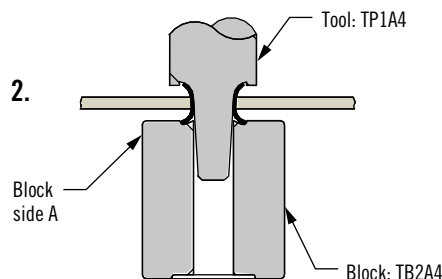
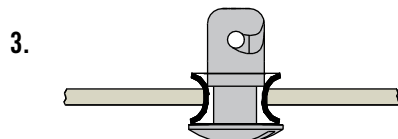
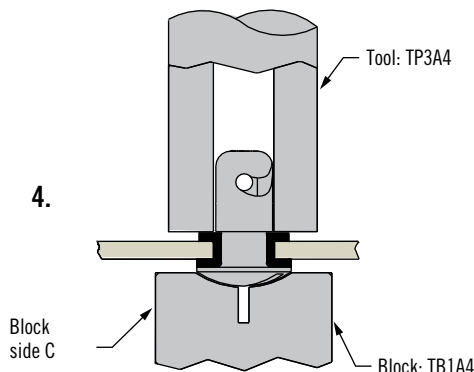


317

Retainer GA



Installation Retainer GA



Material and Finish

Retainer GA: Aluminum, natural

Installation Notes

1. Insert retainer in panel hole
2. Set retainer
3. Insert stud
4. Flatten retainer

82

85

D8

D1

D4

D7

NY



Panel Thickness	L	Part Number	Adjustment Value	Installation Tool Part Number
0.38 - 0.64 (.015 - .025)	4.45 (.175)	D4-GA4-175	Add 1.28 (.050)	29-TP1A4, 29-TP3A4 and 29-TB1A4 (all required for correct installation - see images above)
0.66 - 1.27 (.026 - .050)	5.08 (.200)	D4-GA4-200		
1.29 - 2.38 (.051 - .094)	6.35 (.250)	D4-GA4-250		

Part Number

see table



D4 DZUS® Standard Line Quarter-Turn Fasteners

Stud selection · Size 5

Material and Finish

Studs:

Steel, zinc plated or stainless steel

82

85

D8

D1

D4

D7

NY

To select correct fastener:

1. Select receptacle

Choose a receptacle from pages 320 - 321

2. Select retainer and accessories

from pages 322 - 323 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 (right) using the column (A, B or C) 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

D4-S5-225 use column A

For TMT value calculated as 5.21 (.205), K = 40

For slotted head style in steel material, completed part number: D4-AJ5-40

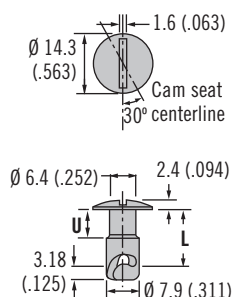
A complete example can be found on page 271.

Notes

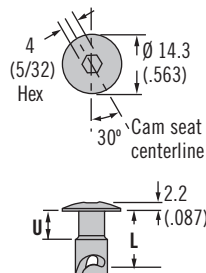
Stainless steel material may require a higher minimum order quantity. Contact Southco for details.

[H] Head Styles - Tool Actuated

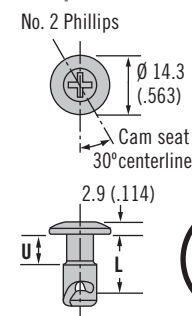
Slot



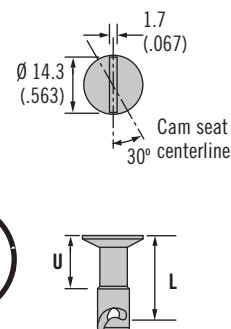
Hex Recess



Phillips Recess

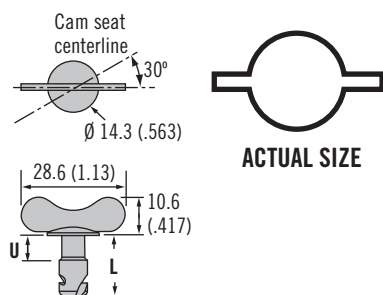


Flush slot

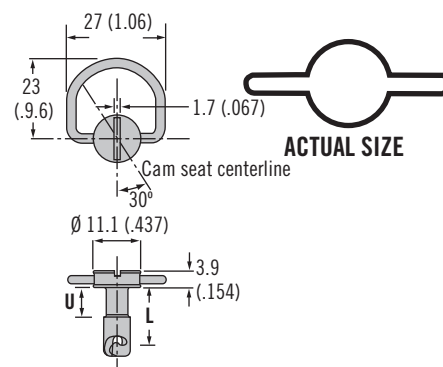


[H] Head Styles - Hand Actuated

Wing

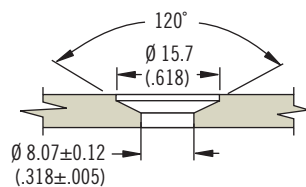


Bail

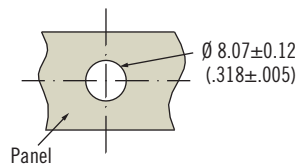


Stud Length Table									
A				B				U	L
TMT Range For: Rivet-On Receptacle D4-S5-225	TMT Range For: Rivet-On Receptacle D4-S5-200	TMT Range For: Weld-On Receptacle D4-X414-310	TMT Range For: Weld-On Receptacle D4-X414-285						
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
2.67 (.105)	3.28 (.129)	3.3 (.13)	3.91 (.154)	~	~	~	~	3.18 (.125)	7.62 (.300)
3.94 (.155)	4.55 (.179)	4.57 (.18)	5.18 (.204)	1.65 (.065)	2.26 (.089)	2.29 (.09)	2.9 (.114)		8.89 (.350)
5.21 (.205)	5.82 (.229)	5.84 (.23)	6.45 (.254)	2.92 (.115)	3.53 (.139)	3.56 (.14)	4.17 (.164)	4.83 (.200)	10.16 (.400)
6.48 (.255)	7.09 (.279)	7.11 (.28)	7.72 (.304)	4.19 (.165)	4.8 (.189)	4.83 (.19)	5.44 (.214)		11.43 (.450)
7.75 (.305)	8.36 (.329)	8.38 (.33)	8.99 (.354)	5.46 (.215)	6.07 (.239)	6.1 (.24)	6.71 (.264)	6.35 (.250)	12.70 (.500)
9.02 (.355)	9.63 (.379)	9.65 (.38)	10.26 (.404)	6.73 (.265)	7.34 (.289)	7.37 (.29)	7.98 (.314)	6.99 (.275)	13.97 (.550)
10.29 (.405)	10.9 (.429)	10.92 (.43)	11.53 (.454)	8.00 (.315)	8.61 (.339)	8.64 (.34)	9.25 (.364)	7.62 (.300)	15.24 (.600)
11.56 (.455)	12.17 (.479)	12.19 (.48)	12.8 (.504)	9.27 (.365)	9.88 (.389)	9.91 (.39)	10.52 (.414)	8.89 (.350)	16.51 (.650)
12.83 (.505)	13.44 (.529)	13.46 (.53)	14.07 (.554)	10.54 (.415)	11.15 (.439)	11.18 (.44)	11.79 (.464)	10.16 (.400)	17.78 (.700)
14.1 (.555)	14.71 (.579)	14.73 (.58)	15.34 (.604)	11.81 (.465)	12.42 (.489)	12.45 (.49)	13.06 (.514)		19.05 (.750)
15.37 (.605)	15.98 (.629)	16.00 (.63)	16.61 (.654)	13.08 (.515)	13.69 (.539)	13.72 (.54)	14.33 (.564)	12.7 (.500)	20.32 (.800)
16.64 (.655)	17.25 (.679)	17.27 (.68)	17.88 (.704)	14.35 (.565)	14.96 (.589)	14.99 (.59)	15.6 (.614)		21.59 (.850)
17.91 (.705)	18.52 (.729)	18.54 (.73)	19.15 (.754)	15.62 (.615)	16.23 (.639)	16.26 (.64)	16.87 (.664)	15.24 (.600)	22.86 (.900)
19.18 (.755)	19.79 (.779)	19.81 (.78)	20.42 (.804)	16.89 (.665)	17.5 (.689)	17.53 (.69)	18.14 (.714)		24.13 (.950)
20.45 (.805)	21.06 (.829)	21.08 (.83)	21.69 (.854)	18.16 (.715)	18.77 (.739)	18.8 (.74)	19.41 (.764)	17.78 (.70)	25.40 (1.00)

Flush



Standard

**H** Head style

- AJ** Slot
- ASHJ** Hex recess
- APRJ** Phillips recess
- FJ** Flush slot
- AJW** Wing head
- BJR** Bail head

K Length

Enter number from
selection table below

M Material

SS Stainless steel
Omit for steel, zinc plated

D4 - H 5 - K M

Part Number Selection

Stud Length Table						
C				U	L	K
TMT Range For: Clip-On Receptacle D4-SL5-305		TMT Range For: Clip-On Receptacle D5-SL5-280				
Min.	Max.	Min.	Max.			
~	~	1.17 (.046)	1.78 (.07)	3.18 (.125)	7.62 (.300)	30
1.8 (.071)	2.41 (.095)	2.44 (.096)	3.05 (.12)		8.89 (.350)	35
3.07 (.121)	3.68 (.145)	3.71 (.146)	4.32 (.17)	4.83 (.200)	10.16 (.400)	40
4.34 (.171)	4.95 (.195)	4.98 (.196)	5.59 (.22)		11.43 (.450)	45
5.61 (.221)	6.22 (.245)	6.25 (.246)	6.86 (.27)	6.35 (.250)	12.70 (.500)	50
6.88 (.271)	7.49 (.295)	7.52 (.296)	8.13 (.32)	6.99 (.275)	13.97 (.550)	55
8.15 (.321)	8.76 (.345)	8.79 (.346)	9.4 (.37)	7.62 (.300)	15.24 (.600)	60
9.42 (.371)	10.03 (.395)	10.06 (.396)	10.67 (.42)	8.89 (.350)	16.51 (.650)	65
10.69 (.421)	11.3 (.445)	11.33 (.446)	11.94 (.47)	10.16 (.400)	17.78 (.700)	70
11.96 (.471)	12.57 (.495)	12.6 (.496)	13.21 (.52)		19.05 (.750)	75
13.23 (.521)	13.84 (.545)	13.87 (.546)	14.48 (.57)	12.7 (.500)	20.32 (.800)	80
14.5 (.571)	15.11 (.595)	15.14 (.596)	15.75 (.62)		21.59 (.850)	85
15.77 (.621)	16.38 (.645)	16.41 (.646)	17.02 (.67)	15.24 (.600)	22.86 (.900)	90
17.04 (.671)	17.65 (.695)	17.68 (.696)	18.29 (.72)		24.13 (.950)	95
18.31 (.721)	18.92 (.745)	18.95 (.746)	19.56 (.77)	17.78 (.70)	25.40 (1.00)	100

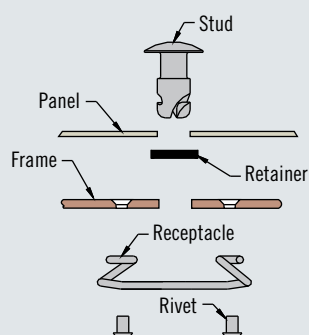


D4 DZUS® Standard Line Quarter-Turn Fasteners

Receptacles · Size 5

Material and Finish

Steel, zinc plated or stainless steel



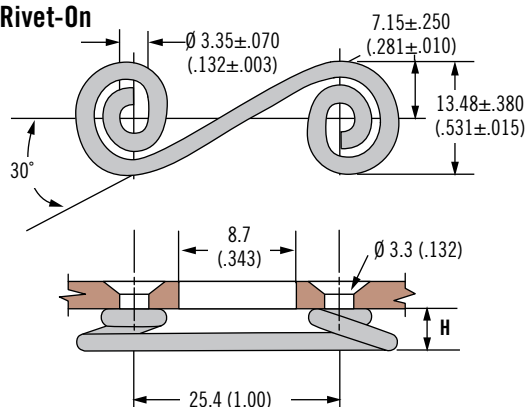
Part Number

See table

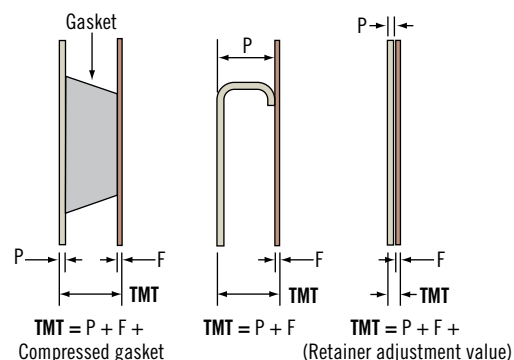
Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 318

Rivet-On



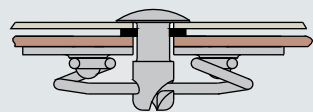
ACTUAL SIZE



Part Number		H	Stud Selection Column
Steel	Stainless Steel		
D4-S5-200	D4-S5-200SS	5.08 (.200)	A
D4-S5-225	D4-S5-225SS	5.72 (.225)	

Material and Finish

Steel, zinc plated or stainless steel



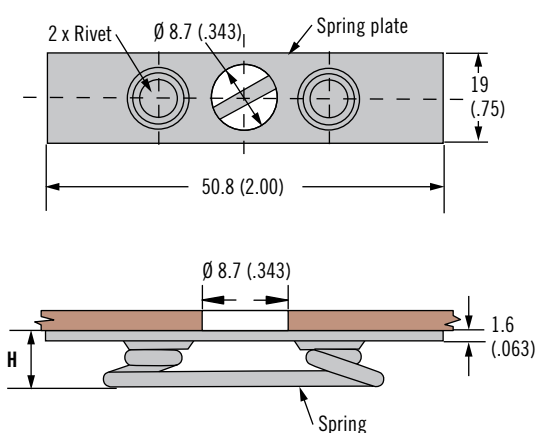
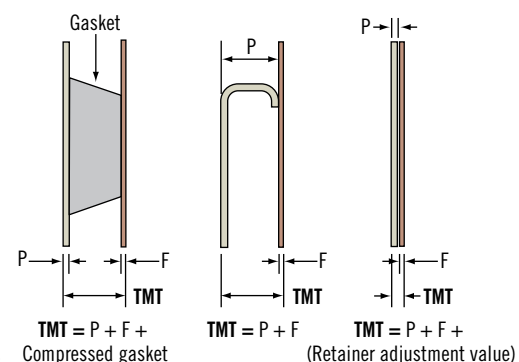
Part Number

See table

Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 318

Weld-On



ACTUAL SIZE

Part Number		H	Stud Selection Column
Steel	Stainless Steel		
D4-X414-285	D4-X414-285SS	7.2 (.285)	B
D4-X414-310	D4-X414-310SS	7.9 (.310)	

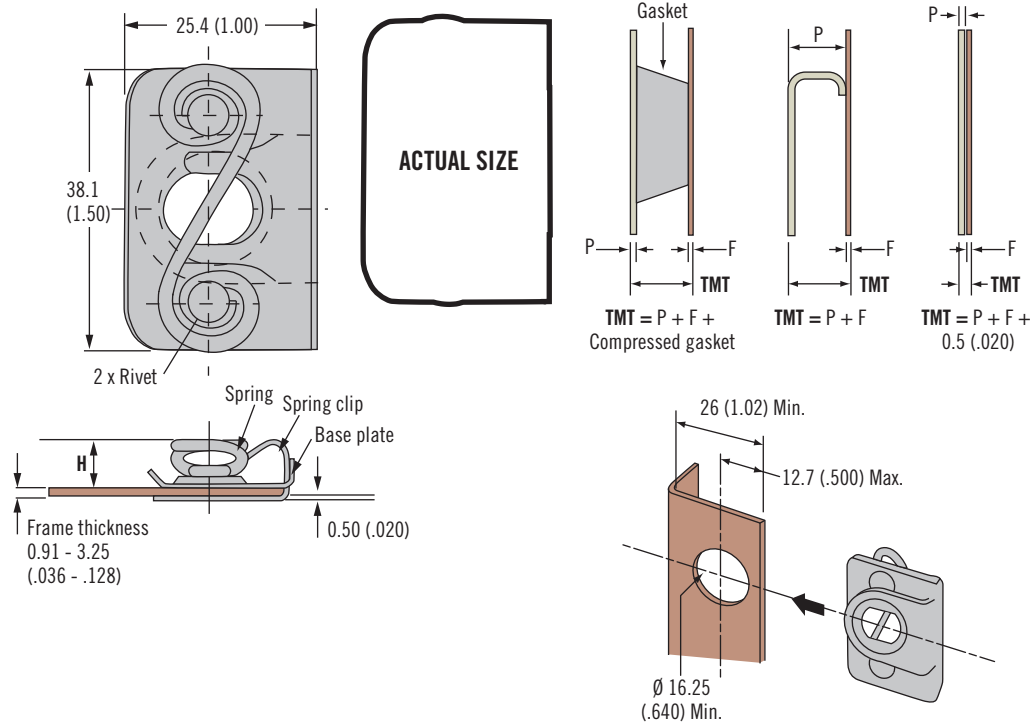
D4 DZUS® Standard Line Quarter-Turn Fasteners

Receptacles · Size 5



321

Clip-On



Note:

Panel misalignment can be tolerated by increasing the support hole to 17.86 (.703) and decreasing the hole center to edge distance to 11.43 (.450)

Part Number	H	Stud Selection Column
D4-SL5-280	7.11 (.280)	C
D4-SL5-305	7.75 (.305)	

Material and Finish

Studs: Steel, zinc plated

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 318



D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 5

Material and Finish

Retaining ring and spring:

Stainless steel

Retainer GH: Aluminum, natural

Retainer GP, natural: HD polythene

Retainer GP, black: Polypropylene

Installation Notes

1. Place the retainer on the mandrel as shown
2. Align ring or spring ends so that they will miss the stud cam
3. Place mandrel in end of stud cam
4. Place tool over mandrel
5. Push retainer until it is sealed in stud undercut

Notes

Tooling:

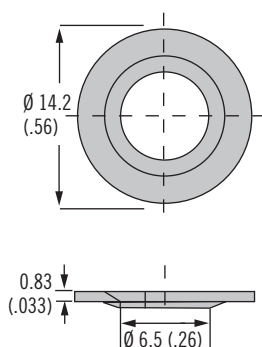
TFRS hand tool: Spreads the inside diameter of retainers over stud shanks and then pushes them into stud undercuts

TB1A block: Nests stud heads during installation. (Any flat block may be used for BJR bail head studs).

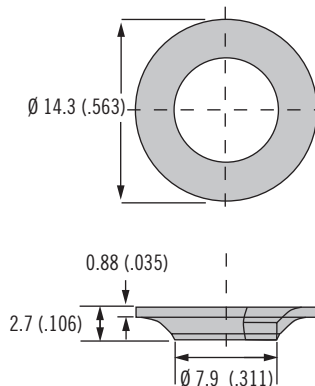
Part Number

See table

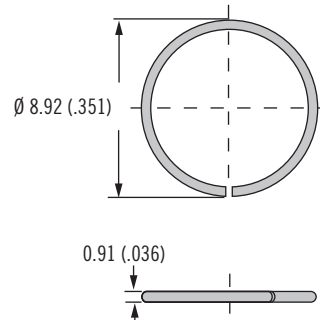
Retainer GP



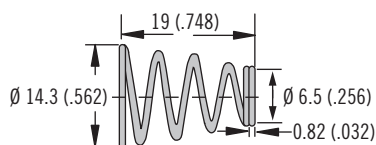
Retainer GH



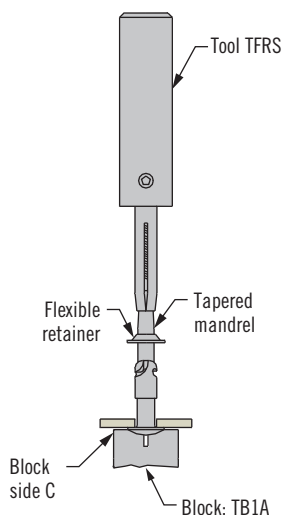
Retainer Ring



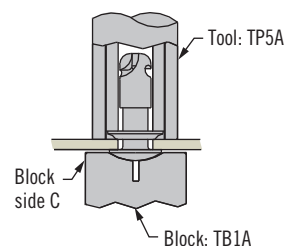
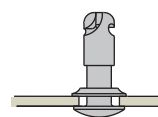
Spring



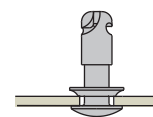
Install Retainer GP, Retaining Ring and SX



Install Retainer GH



Oversized Hole
Large diameter faces panel



Standard Hole
Small diameter faces panel

Type	Part Number	Adjustment Value	Installation Tool Part Number
Retainer GP, natural	D4-GP5	Add 0.86 (.034)	29-TFRS5 and 29-TB1A5 (both required for correct installation - see images above)
Retainer GP, black	D4-GP5B		
Retainer GH	D4-GH5	Add 0.78 (.031)	29-TP5A5 and 29-TB1A5 (both required for correct installation - see images above)
Retaining ring	D4-RR5	Add 0.91 (.035)	29-TFRS5 and 29-TB1A5 (both required for correct installation - see images above)
Retaining spring	D4-SX510	Add 1.64 (.064)	

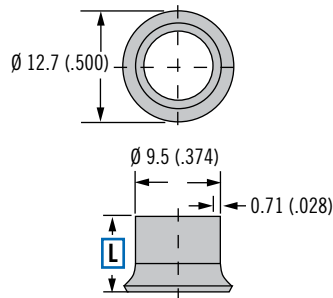
D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 5

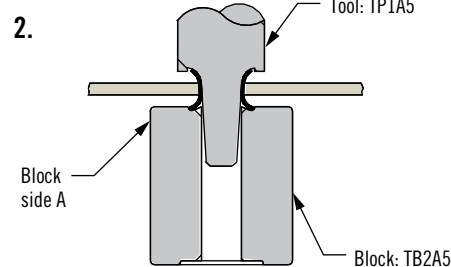
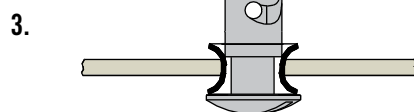
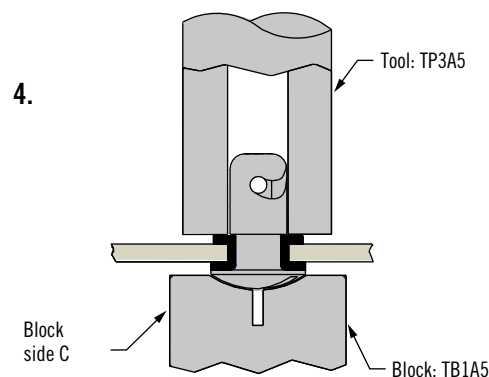


323

Retainer GA



Installation Retainer GA



Material and Finish

Retainer GA: Aluminum, natural

Installation Notes

1. Insert retainer in panel hole
2. Set retainer
3. Insert stud
4. Flatten retainer

82

85

D8

D1

D4

D7

NY



Panel Thickness	L Length	Part Number	Adjustment Value	Installation Tool Part Number
0.38 - 0.64 (.015 - .025)	4.45 (.175)	D4-GA5-175	Add 1.42 (.056)	29-TP1A5, 29-TP3A5, 29-TB1A5 and 29-TB2A5 (all four required for correct installation - see images above)
0.66 - 1.27 (.026 - .050)	5.08 (.200)	D4-GA5-200		
1.29 - 2.38 (.051 - .094)	6.35 (.250)	D4-GA5-250		

Part Number

See table



D4 DZUS® Standard Line Quarter-Turn Fasteners

Stud selection · Size 6

Material and Finish

Studs:

Steel, zinc plated or stainless steel

To select correct fastener:

1. Select receptacle

Choose a receptacle from page 325

2. Select retainer and accessories

from pages 326 - 327 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 (right) 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

D4-S6-300 use column A

For TMT value calculated as 5.2 (.206), K = 45

For slotted head style in steel material, completed part number: D4-AJ6-45

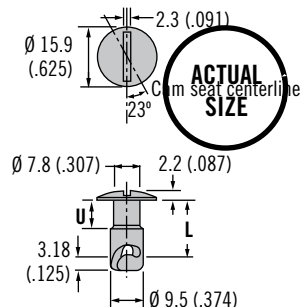
A complete example can be found on page 271.

Notes

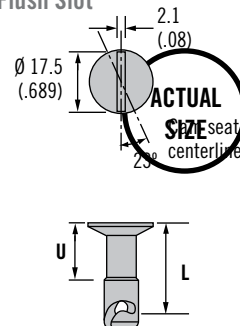
Stainless steel material may require a higher minimum order quantity. Contact Southco for details.

H Head Styles - Tool Actuated

Slot

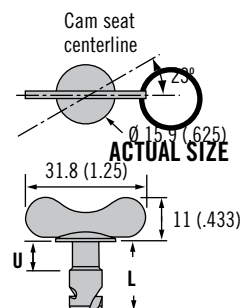


Flush Slot

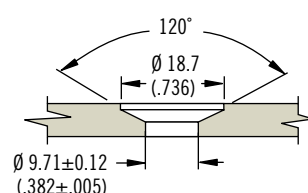


H Head Styles - Hand Actuated

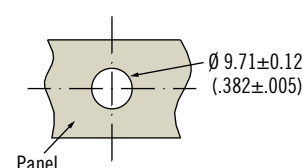
Wing



Flush



Standard



H Head style

AJ Slot recess
AJW Wing head
FJ Flush slot

K Length

Enter number from selection table below

M Material

SS Stainless steel
Omit for steel, zinc plated

D4 - H 6 - K M

Stud Length Table										
A				B				U	L	K
TMT Range For: Rivet-On Receptacle D4-S6-300		TMT Range For: Rivet-On Receptacle D4-S6-275		TMT Range For: Weld-On Receptacle D4-X441-335		TMT Range For: Weld-On Receptacle D4-X441-310				
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.			
2.29 (.090)	2.90 (.114)	2.92 (.115)	3.53 (.139)	1.40 (.055)	2.01 (.079)	2.03 (.080)	2.64 (.104)	4.45 (.175)	8.89 (.350)	35
3.56 (.140)	4.17 (.164)	4.19 (.165)	4.80 (.189)	2.67 (.105)	3.28 (.129)	3.30 (.130)	3.91 (.154)	5.08 (.200)	10.16 (.400)	40
4.83 (.190)	5.44 (.214)	5.46 (.215)	6.07 (.239)	3.94 (.155)	4.55 (.179)	4.57 (.180)	5.18 (.204)	5.72 (.225)	11.43 (.450)	45
6.10 (.240)	6.71 (.264)	6.73 (.265)	7.34 (.289)	5.21 (.205)	5.82 (.229)	5.84 (.230)	6.45 (.254)	6.35 (.250)	12.70 (.500)	50
7.37 (.290)	7.98 (.314)	8.00 (.315)	8.61 (.339)	6.48 (.255)	7.09 (.279)	7.11 (.280)	7.72 (.304)	6.99 (.275)	13.97 (.550)	55
8.64 (.340)	9.25 (.364)	9.27 (.365)	9.88 (.389)	7.75 (.305)	8.36 (.329)	8.38 (.330)	8.99 (.354)	7.62 (.300)	15.24 (.600)	60
9.91 (.390)	10.52 (.414)	10.54 (.415)	11.15 (.439)	9.02 (.355)	9.63 (.379)	9.65 (.380)	10.26 (.404)	8.89 (.350)	16.51 (.650)	65
11.18 (.440)	11.79 (.464)	11.81 (.465)	12.42 (.489)	10.29 (.405)	10.90 (.429)	10.92 (.430)	11.53 (.454)		17.78 (.700)	70
12.45 (.490)	13.06 (.514)	13.08 (.515)	13.69 (.539)	11.56 (.455)	12.17 (.479)	12.19 (.480)	12.80 (.504)	10.16 (.400)	19.05 (.750)	75
13.72 (.540)	14.33 (.564)	14.35 (.565)	14.96 (.589)	12.83 (.505)	13.44 (.529)	13.46 (.530)	14.07 (.554)	11.43 (.450)	20.32 (.800)	80
14.99 (.590)	15.60 (.614)	15.62 (.615)	16.23 (.639)	14.10 (.555)	14.71 (.579)	14.73 (.580)	15.34 (.604)	12.7 (.500)	21.59 (.850)	85
16.26 (.640)	16.87 (.664)	16.89 (.665)	17.50 (.689)	15.37 (.605)	15.98 (.629)	16.00 (.630)	16.61 (.654)	13.97 (.550)	22.86 (.900)	90
17.53 (.690)	18.14 (.714)	18.16 (.715)	18.77 (.739)	16.64 (.655)	17.25 (.679)	17.27 (.680)	17.88 (.704)	15.24 (.600)	24.13 (.950)	95
18.80 (.740)	19.41 (.764)	19.43 (.765)	20.04 (.789)	17.91 (.705)	18.52 (.729)	18.54 (.730)	19.15 (.754)	16.51 (.650)	25.40 (1.00)	100

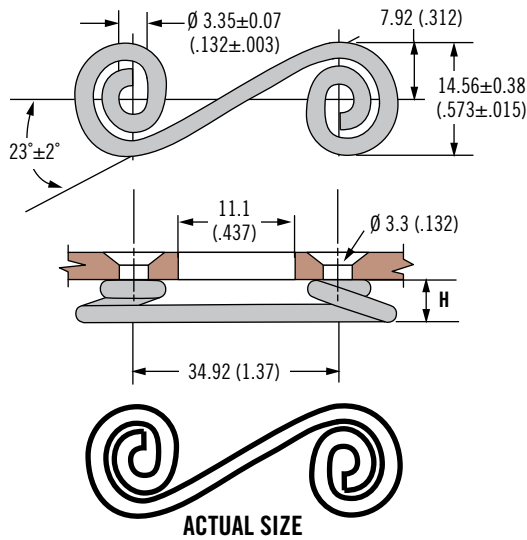
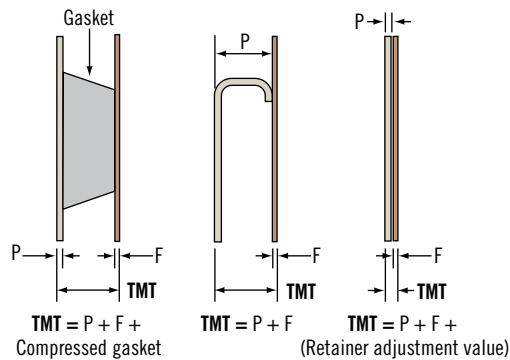
D4 DZUS® Standard Line Quarter-Turn Fasteners

Receptacles · Size 6



325

Rivet-On

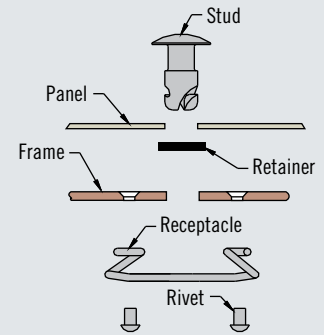


Material and Finish

Steel, zinc plated or stainless steel

Notes

After selecting receptacle use stud selection letter **A** and follow instruction on page 324



82

85

D8

D1

D4

D7

NY

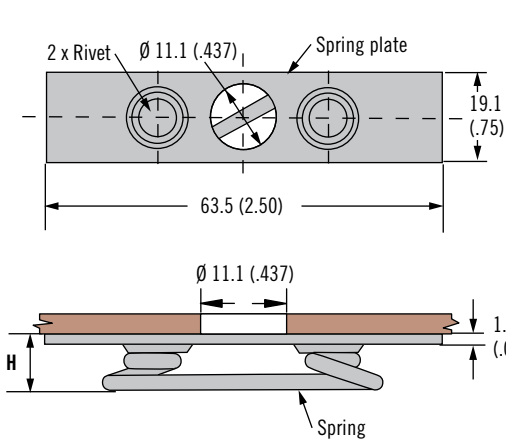
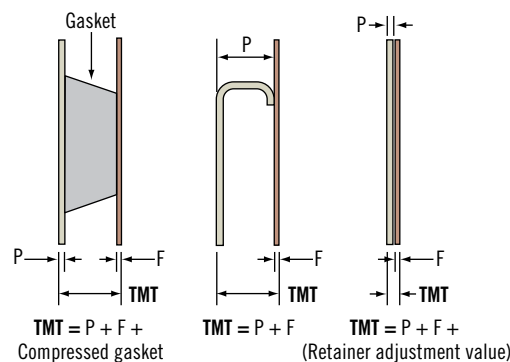


Part Number		H	Stud Selection Column
Steel	Stainless Steel		
D4-S6-275	D4-S6-275SS	6.99 (.275)	A
D4-S6-300	D4-S6-300SS	7.62 (.300)	

Part Number

See table

Weld-On

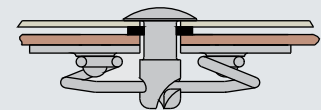


Material and Finish

Steel, zinc plated

Notes

After selecting receptacle use stud selection letter **B** and follow instruction on page 324



ACTUAL SIZE

Part Number	H	Stud Selection Column
D4-X441-310	7.87 (.310)	B
D4-X441-335	8.51 (.335)	

Part Number

See table



D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 6

Material and Finish

Retaining ring and spring:

Stainless steel

Retainer GH: Aluminum, natural

Installation Notes

1. Place the retainer on the mandrel as shown
2. Align ring or spring ends so that they will miss the stud cam
3. Place mandrel in end of stud cam
4. Place tool over mandrel
5. Push retainer until it is sealed in stud undercut

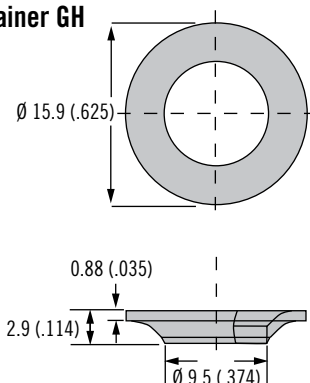
Notes

Tooling:

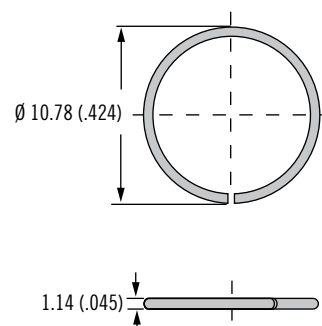
TFRS hand tool: Spreads the inside diameter of retainers over stud shanks and then pushes them into stud undercuts.

TB1A block: Nests stud heads during installation. (Any flat block may be used for BJR bail head studs).

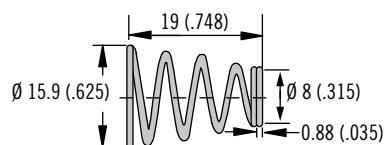
Retainer GH



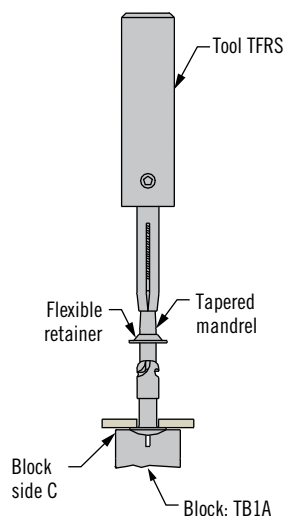
Retainer Ring



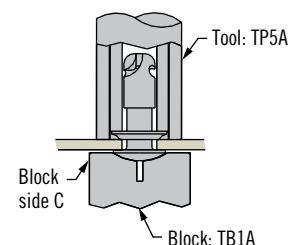
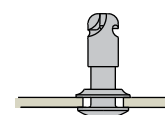
Spring



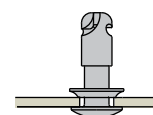
Install Retainer GP, Retaining Ring and SX



Install Retainer GH



Oversized Hole
Large diameter faces panel



Standard Hole
Small diameter faces panel

Part Number

See table

Type	Part Number	Adjustment Formula	Installation Tool Part Number
Retainer GH	D4-GH6	Add .88 (.035)	29-TP5A6 and 29-TB1A6 (both required for correct installation - see images above)
Retaining ring	D4-RR6	Add 1.14 (.045)	29-TFRS6 and 29-TB1A6 (both required for correct installation - see images above)
Retaining spring	D4-SX518	Add 1.76 (.070)	

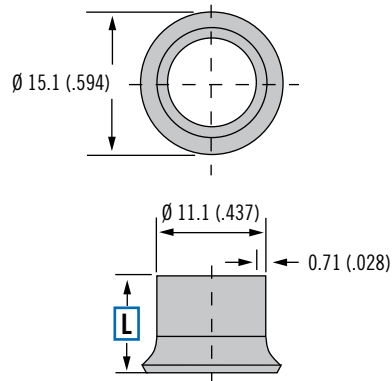
D4 DZUS® Standard Line Quarter-Turn Fasteners

Retainers · Size 6

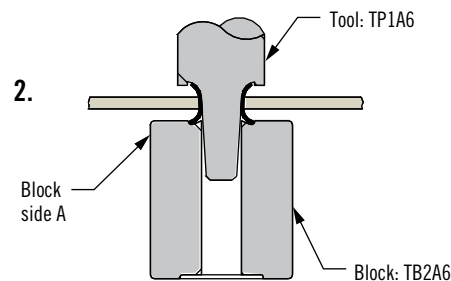
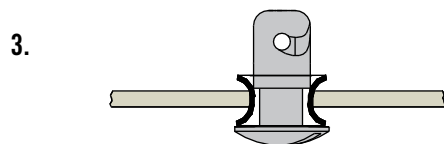
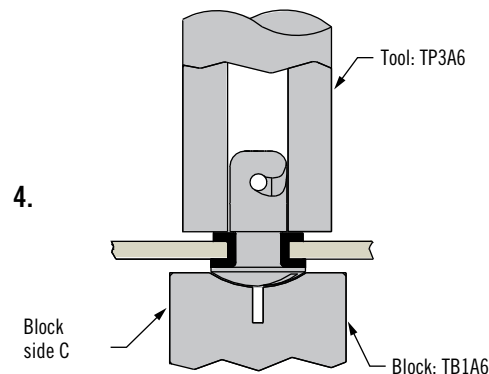


327

Retainer GA



Installation Retainer GA



Panel Thickness	L	Part Number	Adjustment Value	Installation Tool Part Number
0.38 - 0.64 (.015 - .025)	4.45 (.175)	D4-GA6-175	Add 1.42 (.056)	29-TP1A6, 29-TP3A6, 29-TB1A6 and 29-TB2A6 (all four required for correct installation - see images above)
0.66 - 1.27 (.026 - .050)	5.08 (.200)	D4-GA6-200		
1.29 - 2.38 (.051 - .094)	6.35 (.250)	D4-GA6-250		

Material and Finish

Retainer GA: Aluminum, natural

Installation Notes

1. Insert retainer in panel hole
2. Set retainer
3. Insert stud
4. Flatten retainer

82

85

D8

D1

D4

D7

NY



Part Number

See table