



47 Captive Screws

Styled knob series · M3 thread size

- Smooth knob meets UL-1950
- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plated, chromate, plus sealer

Flare-in and Floating:

Aluminum, natural

P.C. board style: 300 Series

stainless steel, passivated

Knob:

Aluminum, natural or black powder coated

Screw: Hardened carbon steel, zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

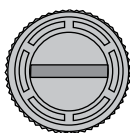
Notes



To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle

Recess Styles

Slotted



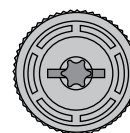
No. 1 Phillips



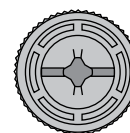
T10 TORX®



T10 TORX® /
Slot Combination

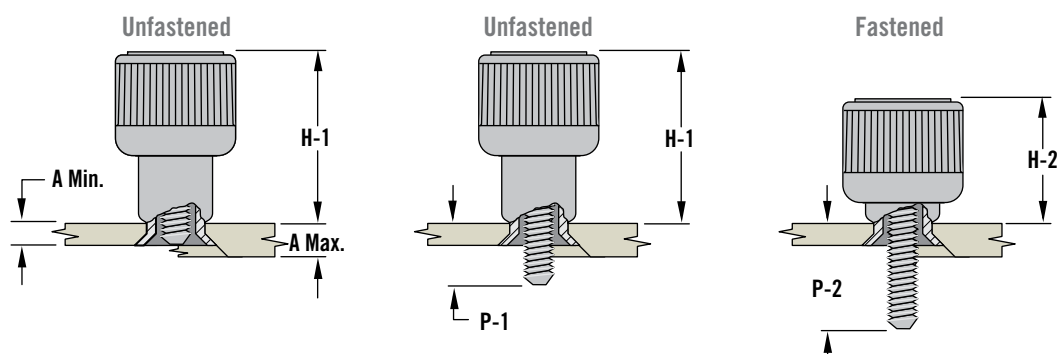


No. 1 Phillips /
Slot Combination

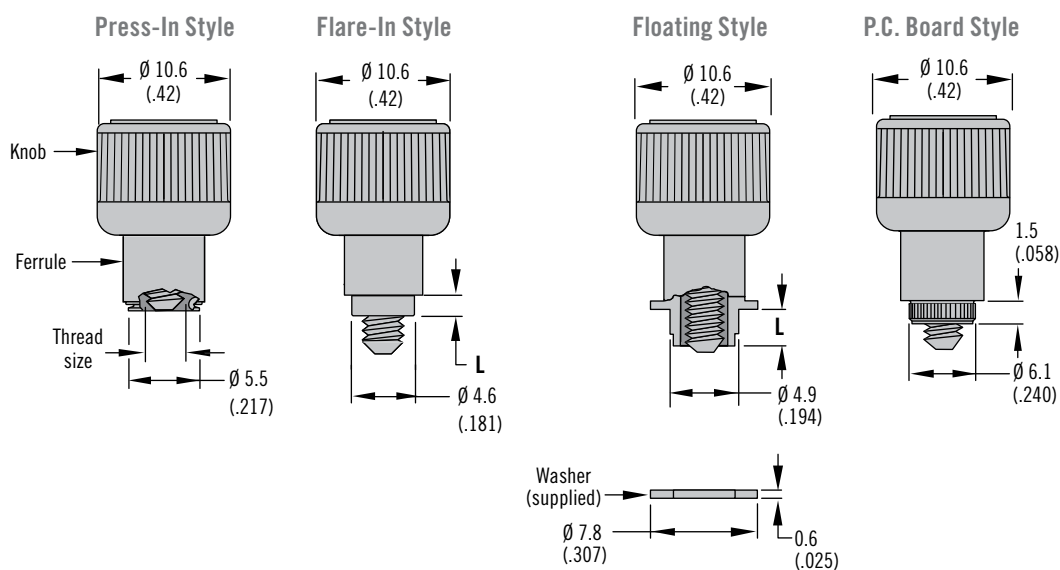


Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



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Dimensions in millimeters (inch) unless otherwise stated

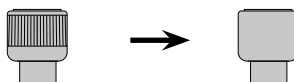
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number							
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination			
Press-In Style	11.3 (.45)	8.3 (.33)	0.9 (.036)	~	~	0.7 (.03)	~	0.8 (.03)	3.8 (.15)	47-90-101-24	47-90-121-24	47-90-141-24	47-90-161-20	47-90-181-24			
								2.5 (.10)	5.5 (.22)	47-91-101-24	47-91-121-24	47-91-141-24	47-91-161-20	47-91-181-24			
								4 (.16)	7 (.28)	47-92-101-24	47-92-121-24	47-92-141-24	47-92-161-20	47-92-181-24			
								5.6 (.22)	8.6 (.34)	47-93-101-24	47-93-121-24	47-93-141-24	47-93-161-20	47-93-181-24			
P.C. Board Style	11.5 (.45)	8.3 (.33)	1.6 (.061)	~	~	0.7 (.03)	~	1.5 (.06)	4.5 (.18)	47-95-101-34	47-95-121-34	47-95-141-34	47-95-161-30	47-95-181-34			
Flare-In Style	11.5 (.45)	8.1 (.32)	0.8 (.031)	1.5 (.058)	0.4 (.015)	0.7 (.03)	1.0 (.041)	0.8 (.03)	4 (.16)	47-80-101-14	47-80-121-14	47-80-141-14	47-80-161-10	47-80-181-14			
			1.5 (.059)	2.5 (.098)	0.4 (.015)		1.8 (.070)	1.5 (.06)	4.7 (.19)	47-80-102-14	47-80-122-14	47-80-142-14	47-80-162-10	47-80-182-14			
			2.5 (.098)	4 (.156)	0.8 (.031)		2.6 (.104)	2.5 (.10)	5.7 (.22)	47-80-103-14	47-80-123-14	47-80-143-14	47-80-163-10	47-80-183-14			
			4 (.157)	5.6 (.219)	2.4 (.093)		4.2 (.166)	4 (.16)	7.2 (.28)	47-80-105-14	47-80-125-14	47-80-145-14	47-80-165-10	47-80-185-14			
			5.6 (.220)	7.1 (.281)	4 (.156)		5.8 (.299)	5.6 (.22)	8.8 (.35)	47-80-107-14	47-80-127-14	47-80-147-14	47-80-167-10	47-80-187-14			
			0.8 (.031)	1.5 (.058)	0.4 (.015)		1.0 (.041)	2.5 (.10)	5.7 (.22)	47-81-101-14	47-81-121-14	47-81-141-14	47-81-161-10	47-81-181-14			
			1.5 (.058)	2.5 (.098)	0.4 (.015)		1.8 (.070)	4 (.16)	7.2 (.28)	47-82-101-14	47-82-121-14	47-82-141-14	47-82-161-10	47-82-181-14			
								5.6 (.22)	8.8 (.35)	47-83-101-14	47-83-121-14	47-83-141-14	47-83-161-10	47-83-181-14			
								3.2 (.13)	6.4 (.25)	47-81-102-14	47-81-122-14	47-81-142-14	47-81-162-10	47-81-182-14			
			Floating Style	11.4 (.45)	8.6 (.34)		~	0.8 (.031)	2 (.080)	2.6 (.101)	1.9 (.07)	5.1 (.20)	47-80-110-14	47-80-130-14	47-80-150-14	47-80-170-10	47-80-190-14
											3.4 (.13)	6.6 (.26)	47-81-110-14	47-81-130-14	47-81-150-14	47-81-170-10	47-81-190-14
											5 (.19)	8.2 (.32)	47-82-110-14	47-82-130-14	47-82-150-14	47-82-170-10	47-82-190-14
Floating Style	11.4 (.45)	8.6 (.34)	0.8 (.031)	1.6 (.063)	2.8 (.111)	3.4 (.132)	1.9 (.07)	5.1 (.20)	47-80-111-14	47-80-131-14	47-80-151-14	47-80-171-10	47-80-191-14				
							3.4 (.13)	6.6 (.26)	47-81-111-14	47-81-131-14	47-81-151-14	47-81-171-10	47-81-191-14				
							5 (.19)	8.2 (.32)	47-82-111-14	47-82-131-14	47-82-151-14	47-82-171-10	47-82-191-14				
			1.6 (.063)	2.4 (.094)	3.6 (.143)		4.2 (.164)	3.4 (.13)	6.6 (.26)	47-80-112-14	47-80-132-14	47-80-152-14	47-80-172-10	47-80-192-14			
								5 (.19)	8.2 (.32)	47-81-112-14	47-81-132-14	47-81-152-14	47-81-172-10	47-81-192-14			
								5 (.19)	8.2 (.32)	47-81-112-14	47-81-132-14	47-81-152-14	47-81-172-10	47-81-192-14			

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64
Change 3 to 7: 47-80-102-34
47-80-102-74



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · M3.5 thread size

- Smooth knob meets UL-1950
- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer
P.C. board: 300 Series stainless steel, passivated
Flare-in, floating and snap-in: Aluminum, natural

Knob: Aluminum, natural or black powder coated

Screw: Hardened carbon steel, zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

Notes



To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle

Recess Styles

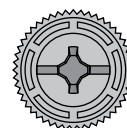
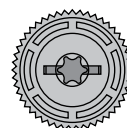
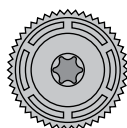
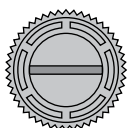
Slotted

No. 2 Phillips

T15 TORX®

T15 TORX® /
Slot Combination

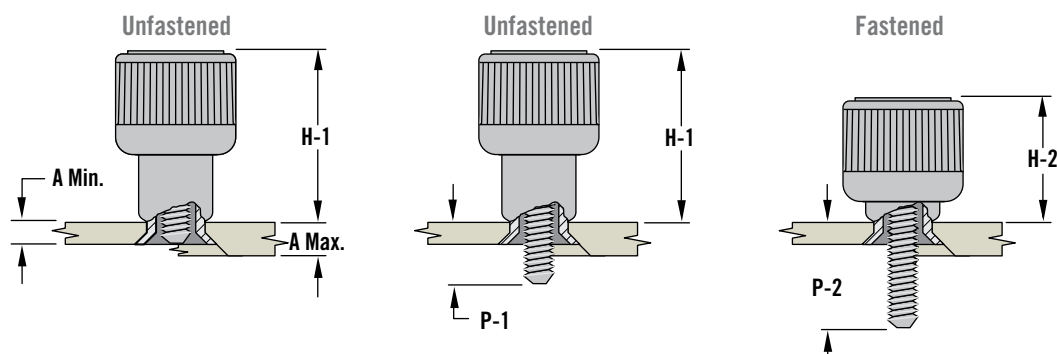
No. 2 Phillips /
Slot Combination



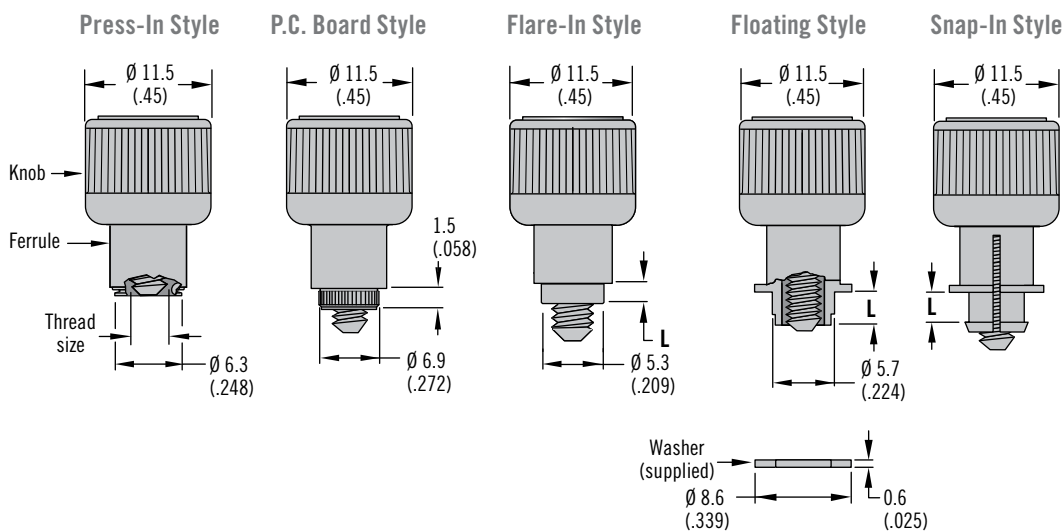
ACTUAL
SIZE

Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



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Dimensions in millimeters (inch) unless otherwise stated

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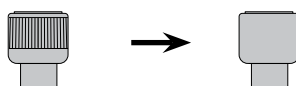
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number									
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination					
Press-In Style	15.9 (.63)	11.2 (.44)	0.9 (.036)	~	~	0.8 (.03)	~	0.5 (.02)	5.3 (.21)	47-90-201-24	47-90-221-24	47-90-241-24	47-90-261-20	47-90-281-24					
								2.1 (.09)	6.9 (.27)	47-91-201-24	47-91-221-24	47-91-241-24	47-91-261-20	47-91-281-24					
								3.7 (.15)	8.5 (.33)	47-92-201-24	47-92-221-24	47-92-241-24	47-92-261-20	47-92-281-24					
								5.3 (.21)	10.1 (.40)	47-93-201-24	47-93-221-24	47-93-241-24	47-93-261-20	47-93-281-24					
P.C. Board Style	14.8 (.58)	10 (.39)	1.6 (.061)	~	~	0.8 (.03)	~	1.4 (.06)	6.2 (.24)	47-95-201-34	47-95-221-34	47-95-241-34	47-95-261-30	47-95-281-34					
Flare-In Style	15.3 (.60)	10.4 (.41)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.8 (.03)	1.8 (.07)	1.1 (.04)	6 (.24)	47-80-202-14	47-80-222-14	47-80-242-14	47-80-262-10	47-80-282-14					
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.7 (.11)	7.6 (.30)	47-80-204-14	47-80-224-14	47-80-244-14	47-80-264-10	47-80-284-14					
			4.8 (.188)	6.4 (.250)	3.2 (.125)		5 (.197)	4.3 (.17)	9.2 (.36)	47-80-206-14	47-80-226-14	47-80-246-14	47-80-266-10	47-80-286-14					
			6.4 (.252)	7.9 (.312)	4.8 (.189)		6.6 (.26)	5.9 (.23)	10.8 (.43)	47-80-208-14	47-80-228-14	47-80-248-14	47-80-268-10	47-80-288-14					
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.07)	2.7 (.11)	7.6 (.30)	47-81-202-14	47-81-222-14	47-81-242-14	47-81-262-10	47-81-282-14					
								4.3 (.17)	9.2 (.36)	47-82-202-14	47-82-222-14	47-82-242-14	47-82-262-10	47-82-282-14					
								5.9 (.23)	10.8 (.43)	47-83-202-14	47-83-222-14	47-83-242-14	47-83-262-10	47-83-282-14					
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.3 (.17)	9.2 (.36)	47-81-204-14	47-81-224-14	47-81-244-14	47-81-264-10	47-81-284-14					
								5.9 (.23)	10.8 (.43)	47-82-204-14	47-82-224-14	47-82-244-14	47-82-264-10	47-82-284-14					
								5.9 (.23)	10.8 (.43)	47-81-206-14	47-81-226-14	47-81-246-14	47-81-266-10	47-81-286-14					
Floating Style	15.4 (.60)	10.6 (.42)	~	0.8 (.031)	2.1 (.083)	2.2 (.09)	2.9 (.113)	2.4 (.09)	7.2 (.28)	47-80-210-14	47-80-230-14	47-80-250-14	47-80-270-10	47-80-290-14					
								4 (.16)	8.8 (.35)	47-81-210-14	47-81-230-14	47-81-250-14	47-81-270-10	47-81-290-14					
								5.6 (.22)	10.4 (.41)	47-82-210-14	47-82-230-14	47-82-250-14	47-82-270-10	47-82-290-14					
							0.8 (.031)	1.6 (.063)	2.9 (.114)		3.7 (.144)	2.4 (.09)	7.2 (.28)	47-80-211-14	47-80-231-14	47-80-251-14	47-80-271-10	47-80-291-14	
			4 (.16)	8.8 (.35)	47-81-211-14							47-81-231-14	47-81-251-14	47-81-271-10	47-81-291-14				
			5.6 (.22)	10.4 (.41)	47-82-211-14							47-82-231-14	47-82-251-14	47-82-271-10	47-82-291-14				
			1.6 (.063)	2.4 (.094)	3.7 (.146)							4.5 (.176)	4 (.16)	8.8 (.35)	47-80-212-14	47-80-232-14	47-80-252-14	47-80-272-10	47-80-292-14
							5.6 (.22)	10.4 (.41)	47-81-212-14	47-81-232-14	47-81-252-14		47-81-272-10	47-81-292-14					
Snap-In Style	15.4 (.60)	10.6 (.42)					0.5 (.02)	1 (.039)	2 (.079)	0.8 (.03)	1.1 (.044)		0.8 (.03)	5.6 (.22)	47-90-210-14	47-90-230-14	47-90-250-14	47-90-270-10	47-90-290-14
													2.4 (.09)	7.2 (.28)	47-91-210-14	47-91-230-14	47-91-250-14	47-91-270-10	47-91-290-14
			4 (.16)	8.8 (.35)	47-92-210-14	47-92-230-14						47-92-250-14	47-92-270-10	47-92-290-14					
			1 (.039)	1.6 (.063)	2.6 (.103)		1.7 (.067)	5.6 (.22)	10.4 (.41)		47-93-210-14	47-93-230-14	47-93-250-14	47-93-270-10	47-93-290-14				
								2.4 (.09)	7.2 (.28)		47-90-212-14	47-90-232-14	47-90-252-14	47-90-272-10	47-90-292-14				
								4 (.16)	8.8 (.35)		47-91-212-14	47-91-232-14	47-91-252-14	47-91-272-10	47-91-292-14				
5.6 (.22)	10.4 (.41)	47-92-212-14	47-92-232-14	47-92-252-14	47-92-272-10	47-92-292-14													

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64
Change 3 to 7: 47-80-102-34
47-80-102-74



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · M4 thread size

- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel,
zinc plate, chromate, plus sealer

Flare-in, floating and snap-in:
Aluminum, natural

Knob: Aluminum, natural or black
powder coated

Screw: Hardened carbon steel,
zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

Notes



To ensure you receive
SOUTHCO® quality parts,
look for the segmented circle

Recess Styles

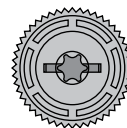
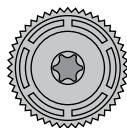
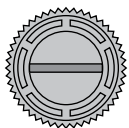
Slotted

No. 2 Phillips

T25 TORX®

T25 TORX® /
Slot Combination

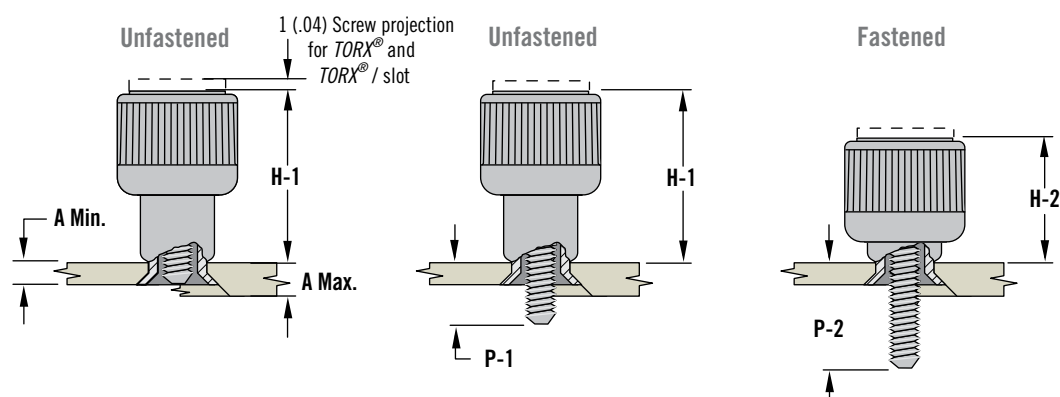
No. 2 Phillips /
Slot Combination



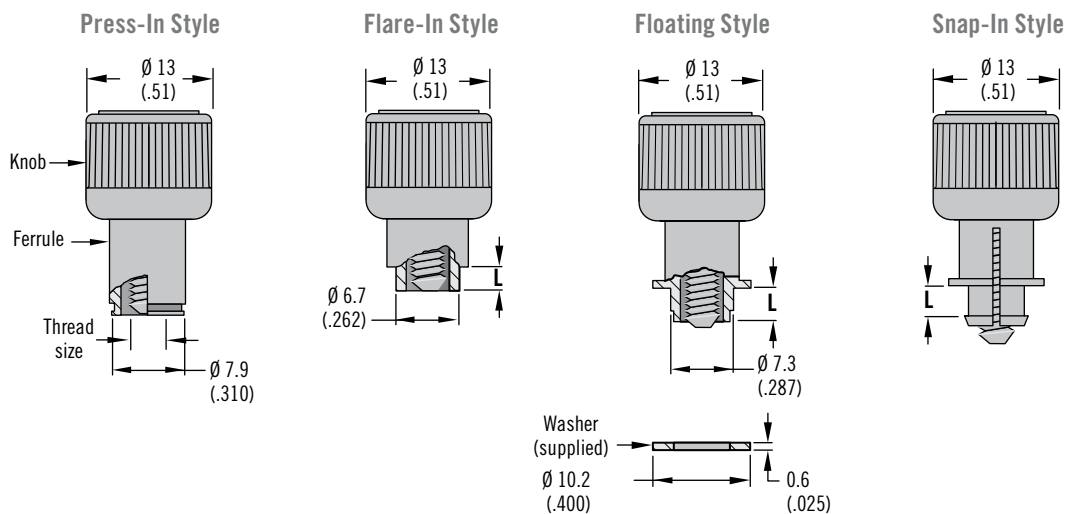
ACTUAL
SIZE

Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



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Dimensions in millimeters (inch) unless otherwise stated



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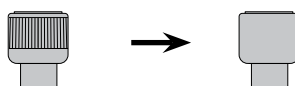
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number								
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination				
Press-In Style	16.2 (.64)	11.3 (.45)	0.9 (.036)	~	~	0.8 (.03)	~	0.6 (.02)	5.6 (.22)	47-90-301-24	47-90-321-24	47-90-341-20	47-90-361-20	47-90-381-20				
								2.2 (.09)	7.2 (.28)	47-91-301-24	47-91-321-24	47-91-341-20	47-91-361-20	47-91-381-20				
								3.8 (.15)	8.7 (.34)	47-92-301-24	47-92-321-24	47-92-341-20	47-92-361-20	47-92-381-20				
								5.4 (.21)	10.3 (.41)	47-93-301-24	47-93-321-24	47-93-341-20	47-93-361-20	47-93-381-20				
Flare-In Style	15.6 (.61)	10.5 (.41)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.9 (.03)	1.8 (.070)	1.2 (.05)	6.3 (.25)	47-80-302-14	47-80-322-14	47-80-342-10	47-80-362-10	47-80-382-10				
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.8 (.11)	7.9 (.31)	47-80-304-14	47-80-324-14	47-80-344-10	47-80-364-10	47-80-384-10				
			4.8 (.189)	6.4 (.251)	3.2 (.125)		5 (.197)	4.4 (.17)	9.5 (.37)	47-80-306-14	47-80-326-14	47-80-346-10	47-80-366-10	47-80-386-10				
			6.4 (.251)	7.9 (.312)	4.8 (.187)		6.6 (.26)	6 (.24)	11.1 (.44)	47-80-308-14	47-80-328-14	47-80-348-10	47-80-368-10	47-80-388-10				
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.07)	2.8 (.11)	7.9 (.31)	47-81-302-14	47-81-322-14	47-81-342-10	47-81-362-10	47-81-382-10				
								4.4 (.17)	9.5 (.37)	47-82-302-14	47-82-322-14	47-82-342-10	47-82-362-10	47-82-382-10				
								6 (.24)	11.1 (.44)	47-83-302-14	47-83-322-14	47-83-342-10	47-83-362-10	47-83-382-10				
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.4 (.17)	9.5 (.37)	47-81-304-14	47-81-324-14	47-81-344-10	47-81-364-10	47-81-384-10				
								6 (.24)	11.1 (.44)	47-82-304-14	47-82-324-14	47-82-344-10	47-82-364-10	47-82-384-10				
								6 (.24)	11.1 (.44)	47-81-306-14	47-81-326-14	47-81-346-10	47-81-366-10	47-81-386-10				
			Floating Style	16.2 (.64)	11.2 (.44)		~	0.8 (.031)	2.3 (.09)	2.3 (.09)	3.2 (.127)	2.4 (.09)	7.2 (.28)	47-80-310-14	47-80-330-14	47-80-350-10	47-80-370-10	47-80-390-10
												4 (.16)	8.8 (.35)	47-81-310-14	47-81-330-14	47-81-350-10	47-81-370-10	47-81-390-10
5.6 (.22)	10.4 (.41)	47-82-310-14				47-82-330-14						47-82-350-10	47-82-370-10	47-82-390-10				
0.8 (.031)	1.6 (.063)	3.1 (.121)				4 (.158)	2.4 (.09)	7.2 (.28)	47-80-311-14		47-80-331-14	47-80-351-10	47-80-371-10	47-80-391-10				
							4 (.16)	8.8 (.35)	47-81-311-14		47-81-331-14	47-81-351-10	47-81-371-10	47-81-391-10				
							5.6 (.22)	10.4 (.41)	47-82-311-14		47-82-331-14	47-82-351-10	47-82-371-10	47-82-391-10				
1.6 (.063)	2.4 (.094)	3.9 (.153)				4.8 (.190)	4 (.16)	7.2 (.28)	47-80-312-14		47-80-332-14	47-80-352-10	47-80-372-10	47-80-392-10				
							5.6 (.22)	8.8 (.35)	47-81-312-14		47-81-332-14	47-81-352-10	47-81-372-10	47-81-392-10				
Snap-In Style	15.7 (.62)	11.2 (.44)	0.5 (.02)	1 (.039)	2 (.079)	0.9 (.03)	1.1 (.044)	1.1 (.04)	5.6 (.22)	47-90-310-14	47-90-330-14	47-90-350-10	47-90-370-10	47-90-390-10				
								2.7 (.11)	7.2 (.28)	47-91-310-14	47-91-330-14	47-91-350-10	47-91-370-10	47-91-390-10				
								4.3 (.17)	8.8 (.35)	47-93-310-14	47-92-330-14	47-92-350-10	47-92-370-10	47-92-390-10				
								5.8 (.23)	10.4 (.41)	47-93-310-14	47-93-330-14	47-93-350-10	47-93-370-10	47-93-390-10				
			1 (.039)	1.6 (.063)	2.6 (.102)		1.7 (.068)	2.7 (.11)	7.2 (.28)	47-90-312-14	47-90-332-14	47-90-352-10	47-90-372-10	47-90-392-10				
								4.3 (.17)	8.8 (.35)	47-91-312-14	47-91-332-14	47-91-352-10	47-91-372-10	47-91-392-10				
								5.9 (.23)	10.4 (.41)	47-92-312-14	47-92-332-14	47-92-352-10	47-92-372-10	47-92-392-10				
								2.7 (.11)	7.2 (.28)	47-90-314-14	47-90-334-14	47-90-354-10	47-90-374-10	47-90-394-10				
			1.6 (.063)	2.5 (.098)	3.5 (.138)		2.6 (.103)	4.3 (.17)	8.8 (.35)	47-91-314-14	47-91-334-14	47-91-354-10	47-91-374-10	47-91-394-10				
								5.9 (.23)	10.4 (.41)	47-92-314-14	47-92-334-14	47-92-354-10	47-92-374-10	47-92-394-10				
								2.7 (.11)	7.2 (.28)	47-90-311-14	47-90-331-14	47-90-351-10	47-90-371-10	47-90-391-10				
								4.3 (.17)	8.8 (.35)	47-91-311-14	47-91-331-14	47-91-351-10	47-91-371-10	47-91-391-10				

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · M5 thread size

- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel,
zinc plate, chromate, plus sealer

Flare-in, floating and snap-in:

Aluminum, natural

Knob: Aluminum, natural or black
powder coated

Screw: Hardened carbon steel,
zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

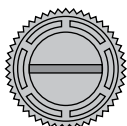
Notes



To ensure you receive
SOUTHCO® quality parts,
look for the segmented circle

Recess Styles

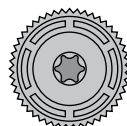
Slotted



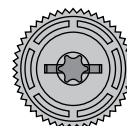
No. 2 Phillips



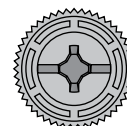
T25 TORX®



T25 TORX® /
Slot Combination

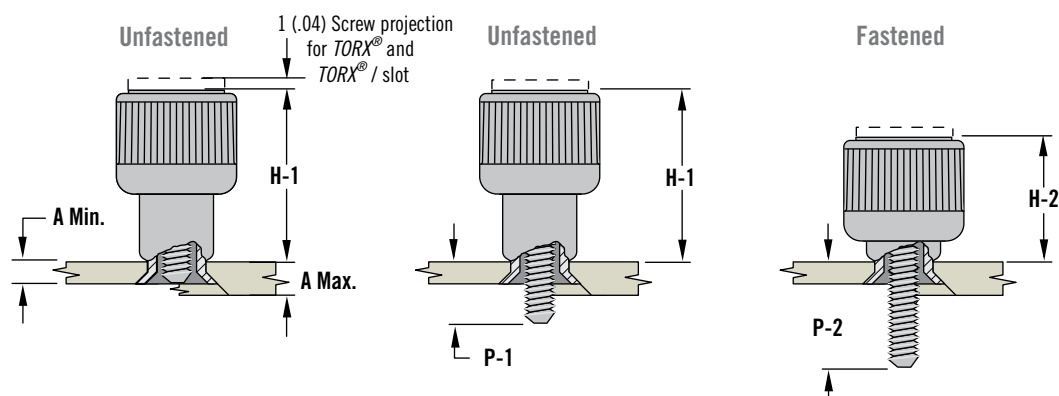


No. 2 Phillips /
Slot Combination

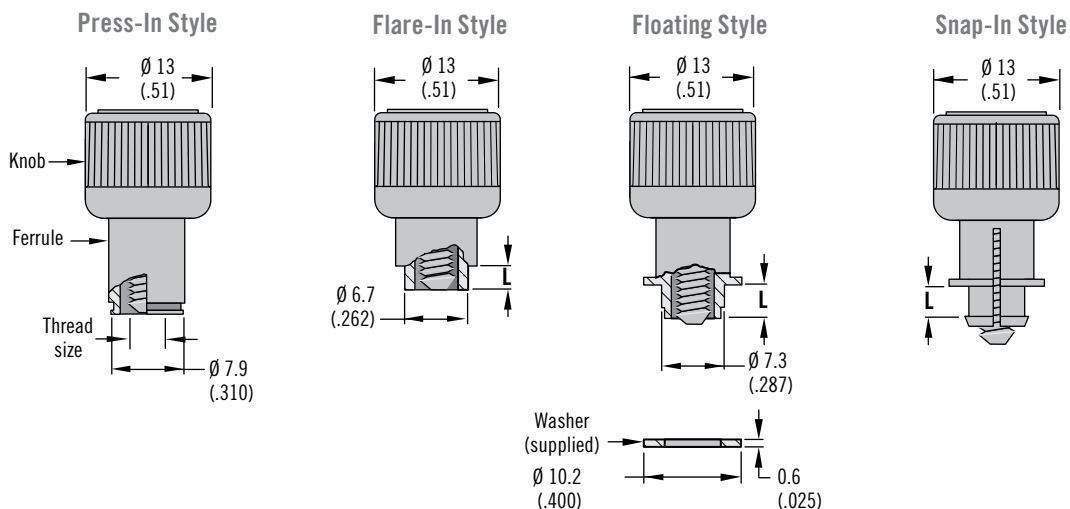


Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



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Dimensions in millimeters (inch) unless otherwise stated



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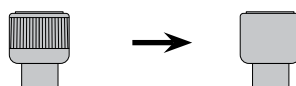
Installation Style	Knob Height		Outer Panel Dimensions			Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number								
	H-1	H-2	A Min.	A Max.	B			P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination				
Press-In Style	16.2 (.64)	11.3 (.45)	0.9 (.036)	~	~	0.6 (.02)	~	0.6 (.024)	5.5 (.22)	47-90-501-24	47-90-521-24	47-90-541-20	47-90-561-20	47-90-581-20				
								2.2 (.087)	7.1 (.28)	47-91-501-24	47-91-521-24	47-91-541-20	47-91-561-20	47-91-581-20				
								3.8 (.15)	8.7 (.34)	47-92-501-24	47-92-521-24	47-92-541-20	47-92-561-20	47-92-581-20				
								5.4 (.21)	10.3 (.41)	47-93-501-24	47-93-521-24	47-93-541-20	47-93-561-20	47-93-581-20				
Flare-In Style	15.6 (.61)	10.5 (.41)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.6 (.02)	1.8 (.070)	1.2 (.05)	6.3 (.25)	47-80-502-14	47-80-522-14	47-80-542-10	47-80-562-10	47-80-582-10				
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.8 (.11)	7.9 (.31)	47-80-504-14	47-80-524-14	47-80-544-10	47-80-564-10	47-80-584-10				
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	4.4 (.17)	9.5 (.37)	47-80-506-14	47-80-526-14	47-80-546-10	47-80-566-10	47-80-586-10				
			6.3 (.251)	7.9 (.312)	4.8 (.189)		6.6 (.260)	6 (.24)	11.1 (.44)	47-80-508-14	47-80-528-14	47-80-548-10	47-80-568-10	47-80-588-10				
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.070)	2.8 (.11)	7.9 (.31)	47-81-502-14	47-81-522-14	47-81-542-10	47-81-562-10	47-81-582-10				
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.4 (.17)	9.5 (.37)	47-82-502-14	47-82-522-14	47-82-542-10	47-82-562-10	47-82-582-10				
								6 (.24)	11.1 (.44)	47-83-502-14	47-83-522-14	47-83-542-10	47-83-562-10	47-83-582-10				
								4.4 (.17)	9.5 (.37)	47-81-504-14	47-81-524-14	47-81-544-10	47-81-564-10	47-81-584-10				
								6 (.24)	11.1 (.44)	47-82-504-14	47-82-524-14	47-82-544-10	47-82-564-10	47-82-584-10				
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	6 (.24)	11.1 (.44)	47-81-506-14	47-81-526-14	47-81-546-10	47-81-566-10	47-81-586-10				
			Floating Style	16 (.63)	11.2 (.44)		~	0.8 (.031)	2.3 (.090)	2.3 (.09)	3.2 (.127)	2.4 (.09)	7.2 (.28)	47-80-510-14	47-80-530-14	47-80-550-10	47-80-570-10	47-80-590-10
											4 (.16)	8.8 (.35)	47-81-510-14	47-81-530-14	47-81-550-10	47-81-570-10	47-81-590-10	
0.8 (.031)	1.6 (.063)	3.1 (.121)				4 (.158)	5.6 (.22)	10.4 (.41)	47-82-510-14		47-82-530-14	47-82-550-10	47-82-570-10	47-82-590-10				
							2.4 (.09)	7.2 (.28)	47-80-511-14		47-80-531-14	47-80-551-10	47-80-571-10	47-80-591-10				
							4 (.16)	8.8 (.35)	47-81-511-14		47-81-531-14	47-81-551-10	47-81-571-10	47-81-591-10				
							5.6 (.22)	10.4 (.41)	47-82-511-14		47-82-531-14	47-82-551-10	47-82-571-10	47-82-591-10				
1.6 (.063)	2.4 (.094)	3.9 (.153)				4.8 (.190)	4 (.16)	8.8 (.35)	47-80-512-14		47-80-532-14	47-80-552-10	47-80-572-10	47-80-592-10				
							5.6 (.22)	10.4 (.41)	47-81-512-14		47-81-532-14	47-81-552-10	47-81-572-10	47-81-592-10				
Snap-In Style	15.7 (.62)	11.2 (.44)	0.5 (.020)	1 (.039)	2 (.079)	.9 (.04)	1.1 (.044)	1.1 (.04)	5.6 (.22)	47-90-510-14	47-90-530-14	47-90-550-10	47-90-570-10	47-90-590-10				
								2.7 (.11)	7.2 (.28)	47-91-510-14	47-91-530-14	47-91-550-10	47-91-570-10	47-91-590-10				
								4.3 (.17)	8.8 (.35)	47-92-510-14	47-92-530-14	47-92-550-10	47-92-570-10	47-92-590-10				
								5.9 (.23)	10.4 (.41)	47-93-510-14	47-93-530-14	47-93-550-10	47-93-570-10	47-93-590-10				
			1 (.039)	1.6 (.063)	2.6 (.013)		1.7 (.068)	2.7 (.11)	7.2 (.28)	47-90-512-14	47-90-532-14	47-90-552-10	47-90-572-10	47-90-592-10				
								4.3 (.17)	8.8 (.35)	47-91-512-14	47-91-532-14	47-91-552-10	47-91-572-10	47-91-592-10				
								5.9 (.23)	10.4 (.41)	47-92-512-14	47-92-532-14	47-92-552-10	47-92-572-10	47-92-592-10				
								2.7 (.11)	7.2 (.28)	47-90-514-14	47-90-534-14	47-90-554-10	47-90-574-10	47-90-594-10				
			1.6 (.063)	2.5 (.098)	3.5 (.138)		2.6 (.103)	4.3 (.17)	8.8 (.35)	47-91-514-14	47-91-534-14	47-91-554-10	47-91-574-10	47-91-594-10				
								5.9 (.23)	10.4 (.41)	47-92-514-14	47-92-534-14	47-92-554-10	47-92-574-10	47-92-594-10				

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · M6 thread size

- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer

Flare-in and Floating:

Aluminum, natural

Knob: Aluminum, natural or black powder coated

Screw: Hardened carbon steel, zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

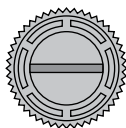
Notes



To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle

Recess Styles

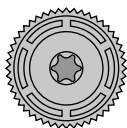
Slotted



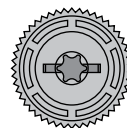
No. 2 Phillips



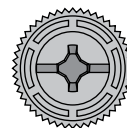
T30 TORX®



T30 TORX® /
Slot Combination



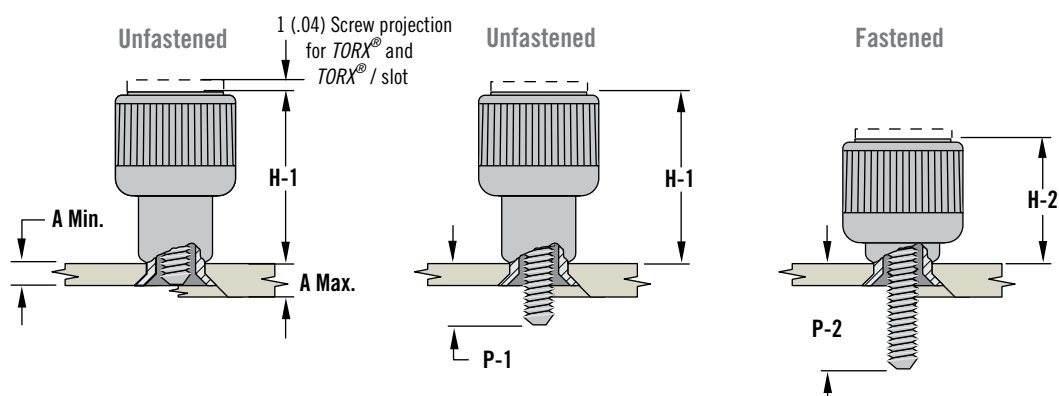
No. 2 Phillips /
Slot Combination



ACTUAL
SIZE

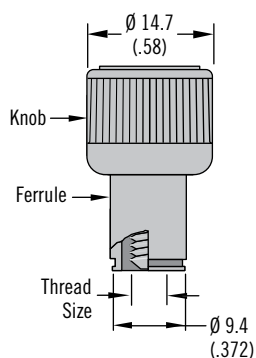
Knob Height and Screw Projection

(Flare-in style shown)

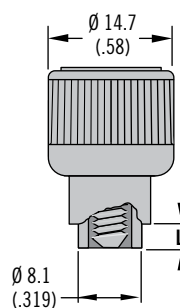


Installation Styles

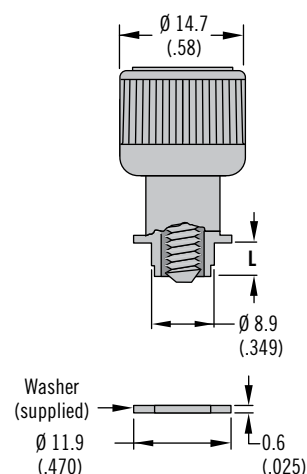
Press-In Style



Flare-In Style



Floating Style



TORX® is a registered trademark of Acument™ Intellectual Properties, LLC

Dimensions in millimeters (inch) unless otherwise stated



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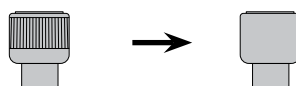
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number				
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination
Press-In Style	20 (.79)	13.4 (.53)	0.9 (.036)	~	~	0.8 (.03)	~	0.5 (.02)	7.1 (.28)	47-90-601-24	47-90-621-24	47-90-641-10	47-90-661-20	47-90-681-20
								2.1 (.08)	8.7 (.34)	47-91-601-24	47-91-621-24	47-91-641-10	47-91-661-20	47-91-681-20
								3.7 (.15)	10.3 (.41)	47-92-601-24	47-92-621-24	47-92-641-10	47-92-661-20	47-92-681-20
								5.3 (.21)	11.9 (.47)	47-93-601-24	47-93-621-24	47-93-641-10	47-93-661-20	47-93-681-20
Flare-In Style	19.3 (.76)	12.7 (.50)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.9 (.03)	1.8 (.070)	1.2 (.05)	7.8 (.31)	47-80-602-14	47-80-622-14	47-80-642-10	47-80-662-10	47-80-682-10
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.8 (.11)	9.4 (.31)	47-80-604-14	47-80-624-14	47-80-644-10	47-80-664-10	47-80-684-10
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	4.4 (.17)	11 (.43)	47-80-606-14	47-80-626-14	47-80-646-10	47-80-666-10	47-80-686-10
			6.4 (.251)	7.9 (.312)	4.8 (.189)		6.6 (.260)	6 (.24)	12.6 (.50)	47-80-608-14	47-80-628-14	47-80-648-10	47-80-668-10	47-80-688-10
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.070)	2.8 (.11)	9.4 (.37)	47-81-602-14	47-81-622-14	47-81-642-10	47-81-662-10	47-81-682-10
			3.2 (.126)	4.8 (.189)	1.6 (.062)			4.4 (.17)	11 (.43)	47-82-602-14	47-82-622-14	47-82-642-10	47-82-662-10	47-82-682-10
								6 (.24)	12.6 (.50)	47-83-602-14	47-83-622-14	47-83-642-10	47-83-662-10	47-83-682-10
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.4 (.17)	11 (.43)	47-81-604-14	47-81-624-14	47-81-644-10	47-81-664-10	47-81-684-10
			6 (.24)	12.6 (.50)	47-82-604-14			47-82-624-14	47-82-644-10	47-82-664-10	47-82-684-10			
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	6 (.24)	12.6 (.50)	47-81-606-14	47-81-626-14	47-81-646-10	47-81-666-10	47-81-686-10
Floating Style	20 (.79)	13.3 (.52)	~	0.8 (.031)	2.5 (.097)	2.3 (.09)	3.2 (.127)	2.1 (.08)	8.8 (.35)	47-80-610-14	47-80-630-14	47-80-650-10	47-80-670-10	47-80-690-10
								3.7 (.15)	10.4 (.41)	47-81-610-14	47-81-630-14	47-81-650-10	47-81-670-10	47-81-690-10
								5.3 (.21)	12 (.47)	47-82-610-14	47-82-630-14	47-82-650-10	47-82-670-10	47-82-690-10
			0.8 (.031)	1.6 (.063)	3.3 (.128)		4 (.158)	2.1 (.08)	8.8 (.35)	47-80-611-14	47-80-631-14	47-80-651-10	47-80-671-10	47-80-691-10
								3.7 (.15)	10.4 (.41)	47-81-611-14	47-81-631-14	47-81-651-10	47-81-671-10	47-81-691-10
								5.3 (.21)	12 (.47)	47-82-611-14	47-82-631-14	47-82-651-10	47-82-671-10	47-82-691-10
			1.6 (.063)	2.4 (.094)	4.1 (.160)		4.8 (.189)	3.7 (.15)	10.4 (.41)	47-80-612-14	47-80-632-14	47-80-652-10	47-80-672-10	47-80-692-10
								5.3 (.21)	12 (.47)	47-81-612-14	47-81-632-14	47-81-652-10	47-81-672-10	47-81-692-10

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · 4-40 thread size

- Smooth knob meets UL-1950
- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer

P.C. board style:

300 Series stainless steel

Flare-in and Floating:

Aluminum, natural

Knob: Aluminum, natural or black powder coated

Screw: Hardened carbon steel, zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

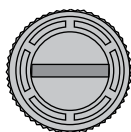
Notes



To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle

Recess Styles

Slotted



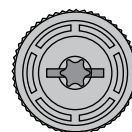
No. 1 Phillips



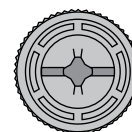
T10 TORX®



T10 TORX® / Slot Combination

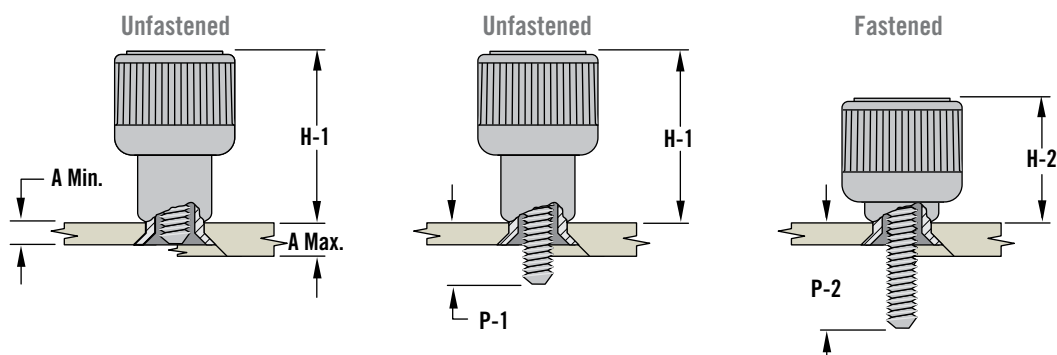


No. 1 Phillips / Slot Combination

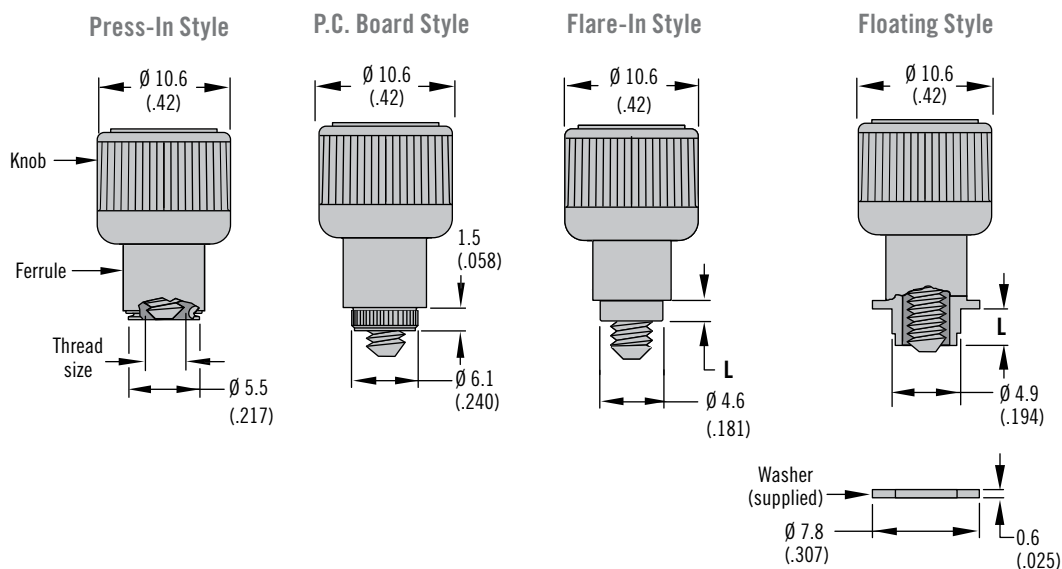


Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



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Dimensions in millimeters (inch) unless otherwise stated



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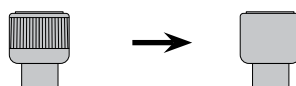
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number								
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination				
Press-In Style	11.3 (.45)	8.3 (.33)	0.9 (.036)	~	~	0.8 (.03)	~	0.8 (.03)	3.8 (.15)	47-60-101-24	47-60-121-24	47-60-141-24	47-60-161-20	47-60-181-24				
								2.5 (.10)	5.5 (.22)	47-61-101-24	47-61-121-24	47-61-141-24	47-61-161-20	47-61-181-24				
								4 (.16)	7 (.28)	47-62-101-24	47-62-121-24	47-62-141-24	47-62-161-20	47-62-181-24				
								5.6 (.22)	8.6 (.34)	47-63-101-24	47-63-121-24	47-63-141-24	47-63-161-20	47-63-181-24				
P.C. Board Style	11.5 (.45)	8.3 (.33)	1.6 (.061)	~	~	0.8 (.03)	~	1.5 (.06)	4.5 (.18)	47-65-101-34	47-65-121-34	47-65-141-34	47-65-161-30	47-65-181-34				
Flare-In Style	11.5 (.45)	8.1 (.32)	0.8 (.031)	1.5 (.058)	0.4 (.015)	0.6 (.03)	1 (.041)	0.8 (.03)	4 (.16)	47-10-101-14	47-10-121-14	47-10-141-14	47-10-161-10	47-10-181-14				
			1.5 (.059)	2.5 (.100)	0.4 (.015)		1.8 (.070)	1.5 (.06)	4.7 (.19)	47-10-102-14	47-10-122-14	47-10-142-14	47-10-162-10	47-10-182-14				
			2.5 (.1)	4 (.156)	0.8 (.031)		2.6 (.104)	2.5 (.10)	5.7 (.22)	47-10-103-14	47-10-123-14	47-10-143-14	47-10-163-10	47-10-183-14				
			4 (.157)	5.6 (.219)	2.4 (.093)		4.2 (.166)	4 (.16)	7.2 (.28)	47-10-105-14	47-10-125-14	47-10-145-14	47-10-165-10	47-10-185-14				
			5.6 (.220)	7.1 (.281)	4 (.156)		5.8 (.229)	5.6 (.22)	8.8 (.35)	47-10-107-14	47-10-127-14	47-10-147-14	47-10-167-10	47-10-187-14				
			0.8 (.031)	1.5 (.058)	0.4 (.015)		1 (.041)	2.5 (.10)	5.7 (.22)	47-11-101-14	47-11-121-14	47-11-141-14	47-11-161-10	47-11-181-14				
			1.5 (.059)	2.5 (.100)	0.4 (.015)			4 (.16)	7.2 (.28)	47-12-101-14	47-12-121-14	47-12-141-14	47-12-161-10	47-12-181-14				
								5.6 (.22)	8.8 (.35)	47-13-101-14	47-13-121-14	47-13-141-14	47-13-161-10	47-13-181-14				
			1.8 (.070)	3.2 (.13)	6.4 (.25)		47-11-102-14	47-11-122-14	47-11-142-14	47-11-162-10	47-11-182-14							
				4.7 (.19)	7.9 (.31)		47-12-102-14	47-12-122-14	47-12-142-14	47-12-162-10	47-12-182-14							
				6.3 (.25)	9.5 (.37)		47-13-102-14	47-13-122-14	47-13-142-14	47-13-162-10	47-13-182-14							
			Floating Style	11.4 (.45)	8.6 (.34)		~	0.8 (.031)	2 (.080)	2.1 (.08)	2.6 (.101)	1.9 (.07)	5.1 (.20)	47-10-110-14	47-10-130-14	47-10-150-14	47-10-170-10	47-10-190-10
												3.4 (.13)	6.6 (.26)	47-11-110-14	47-11-130-14	47-11-150-14	47-11-170-10	47-11-190-14
												5 (.19)	8.2 (.32)	47-12-110-14	47-12-130-14	47-12-150-14	47-12-170-10	47-12-190-14
0.8 (.031)	1.6 (.063)	2.8 (.111)				3.4 (.132)	1.9 (.07)	5.1 (.20)	47-10-111-14		47-10-131-14	47-10-151-14	47-10-171-10	47-10-191-14				
							3.4 (.13)	6.6 (.26)	47-11-111-14		47-11-131-14	47-11-151-14	47-11-171-10	47-11-191-14				
							5 (.19)	8.2 (.32)	47-12-111-14		47-12-131-14	47-12-151-14	47-12-171-10	47-12-191-14				
1.6 (.063)	2.4 (.094)	3.6 (.143)				4.2 (.164)	3.4 (.13)	6.6 (.26)	47-10-112-14		47-10-132-14	47-10-152-14	47-10-172-10	47-10-192-14				
							5 (.19)	8.2 (.32)	47-11-112-14		47-11-132-14	47-11-152-14	47-11-172-10	47-11-192-14				

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64
Change 3 to 7: 47-80-102-34
47-80-102-74



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · 6-32 thread size

- Smooth knob meets UL-1950
- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer
P.C. board style: 300 Series stainless steel, passivated
Flare-in, floating and snap-in: Aluminum, natural

Knob: Aluminum, natural or black powder coated

Screw: Hardened carbon steel, zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

Notes



To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle

Recess Styles

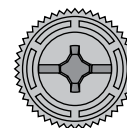
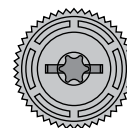
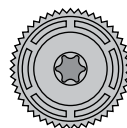
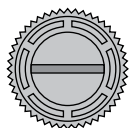
Slotted

No. 2 Phillips

T15 TORX®

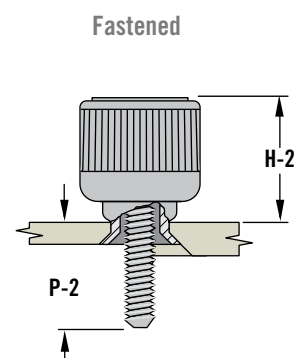
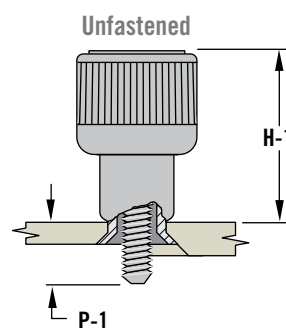
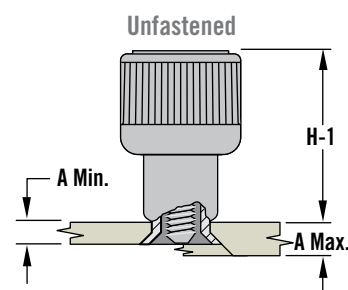
T15 TORX® /
Slot Combination

No. 2 Phillips /
Slot Combination



Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles

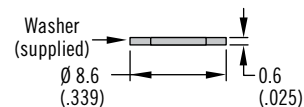
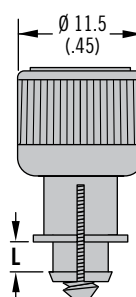
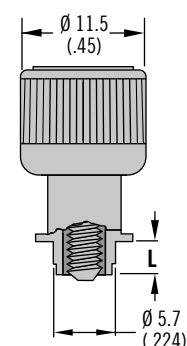
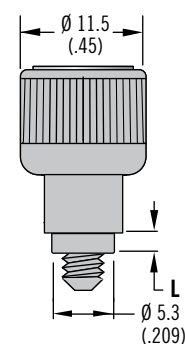
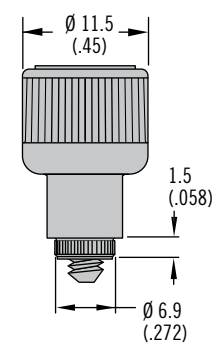
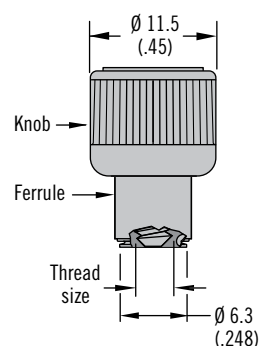
Press-In Style

P.C. Board Style

Flare-In Style

Floating Style

Snap-In Style



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Dimensions in millimeters (inch) unless otherwise stated



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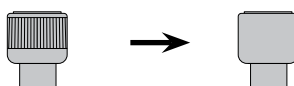
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number					
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination	
Press-In Style	15.9 (.63)	11.2 (.44)	0.9 (.036)	~	~	0.8 (.03)	~	0.5 (.02)	5.3 (.21)	47-60-201-24	47-60-221-24	47-60-241-24	47-60-261-10	47-60-281-24	
								2.1 (.08)	6.9 (.27)	47-61-201-24	47-61-221-24	47-61-241-24	47-61-261-10	47-61-281-24	
								3.7 (.15)	8.5 (.33)	47-62-201-24	47-62-221-24	47-62-241-24	47-62-261-10	47-62-281-24	
								5.3 (.21)	10.1 (.40)	47-63-201-24	47-63-221-24	47-63-241-24	47-63-261-10	47-63-281-24	
P.C. Board Style	14.8 (.58)	10 (.39)	1.6 (.061)	~	~	0.8 (.03)	~	1.4 (.06)	6.1 (.24)	47-65-201-34	47-65-221-34	47-65-241-34	47-65-261-30	47-65-281-34	
Flare-In Style	15.3 (.60)	10.4 (.41)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.8 (.03)	1.8 (.07)	1.1 (.04)	6 (.24)	47-10-202-14	47-10-222-14	47-10-242-14	47-10-262-10	47-10-282-14	
			3.2 (.125)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.7 (.11)	7.6 (.30)	47-10-204-14	47-10-224-14	47-10-244-14	47-10-264-10	47-10-284-14	
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	4.3 (.17)	9.2 (.36)	47-10-206-14	47-10-226-14	47-10-246-14	47-10-266-10	47-10-286-14	
			6.4 (.250)	7.9 (.312)	4.8 (.189)		6.1 (.26)	5.9 (.23)	10.8 (.43)	47-10-208-14	47-10-228-14	47-10-248-14	47-10-268-10	47-10-288-14	
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.07)	2.7 (.11)	7.6 (.30)	47-11-202-14	47-11-222-14	47-11-242-14	47-11-262-10	47-11-282-14	
			3.2 (.125)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.3 (.17)	9.2 (.36)	47-12-202-14	47-12-222-14	47-12-242-14	47-12-262-10	47-12-282-14	
								5.9 (.23)	10.8 (.43)	47-13-202-14	47-13-222-14	47-13-242-14	47-13-262-10	47-13-282-14	
								1.6 (.062)	4.8 (.189)	47-11-204-14	47-11-224-14	47-11-244-14	47-11-264-10	47-11-284-14	
								5.9 (.23)	10.8 (.43)	47-12-204-14	47-12-224-14	47-12-244-14	47-12-264-10	47-12-284-14	
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	5.9 (.23)	10.8 (.43)	47-11-206-14	47-11-226-14	47-11-246-14	47-11-266-10	47-11-286-14	
Floating Style	15.3 (.60)	10.6 (.42)	~	0.8 (.031)	2.1 (.083)	2.2 (.09)	2.9 (.113)	2.4 (.09)	7.2 (.28)	47-10-210-14	47-10-230-14	47-10-250-14	47-10-270-10	47-10-290-14	
							3.7 (.144)	4 (.16)	8.8 (.35)	47-11-210-14	47-11-230-14	47-11-250-14	47-11-270-10	47-11-290-14	
								5.6 (.22)	10.4 (.41)	47-12-210-14	47-12-230-14	47-12-250-14	47-12-270-10	47-12-290-14	
			0.8 (.031)	1.6 (.063)	2.9 (.114)		4.5 (.176)	2.4 (.09)	7.2 (.28)	47-10-211-14	47-10-231-14	47-10-251-14	47-10-271-10	47-10-291-14	
								4 (.16)	8.8 (.35)	47-11-211-14	47-11-231-14	47-11-251-14	47-11-271-10	47-11-291-14	
								5.6 (.22)	10.4 (.41)	47-12-211-14	47-12-231-14	47-12-251-14	47-12-271-10	47-12-291-14	
			1.6 (.063)	2.4 (.094)	3.7 (.146)		4.5 (.176)	4 (.16)	8.8 (.35)	47-10-212-14	47-10-232-14	47-10-252-14	47-10-272-10	47-10-292-14	
								5.6 (.22)	10.4 (.41)	47-11-212-14	47-11-232-14	47-11-252-14	47-11-272-10	47-11-292-14	
Snap-In Style	15.3 (.60)	10.6 (.42)	0.5 (.020)	1 (.039)	2 (.079)	0.8 (.03)	1.1 (.044)	0.8 (.03)	5.6 (.22)	47-60-210-14	47-60-230-14	47-60-250-14	47-60-270-10	47-60-290-14	
							2.4 (.09)	7.2 (.28)	47-61-210-14	47-61-230-14	47-61-250-14	47-61-270-10	47-61-290-14		
							4 (.16)	8.8 (.35)	47-62-210-14	47-62-230-14	47-62-250-14	47-62-270-10	47-62-290-14		
							5.6 (.22)	10.4 (.41)	47-63-210-14	47-63-230-14	47-63-250-14	47-63-270-10	47-63-290-14		
			1 (.039)	1.6 (.063)	2.6 (.103)		1.7 (.067)	2.4 (.09)	7.2 (.28)	47-60-212-14	47-60-232-14	47-60-252-14	47-60-272-10	47-60-292-14	
								4 (.16)	8.8 (.35)	47-61-212-14	47-61-232-14	47-61-252-14	47-61-272-10	47-61-292-14	
								5.6 (.22)	10.4 (.41)	47-62-212-14	47-62-232-14	47-62-252-14	47-62-272-10	47-62-292-14	

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64
Change 3 to 7: 47-80-102-34
47-80-102-74



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · 8-32 thread size

- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel,
zinc plate, chromate, plus sealer

Flare-in, floating and snap-in:

Aluminum, natural

Knob: Aluminum, natural or black
powder coated

Screw: Hardened carbon steel,
zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

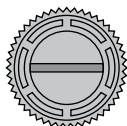
Notes



To ensure you receive
SOUTHCO® quality parts,
look for the segmented circle

Recess Styles

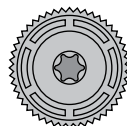
Slotted



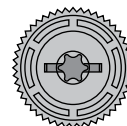
No. 2 Phillips



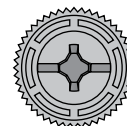
T25 TORX®



T25 TORX® /
Slot Combination



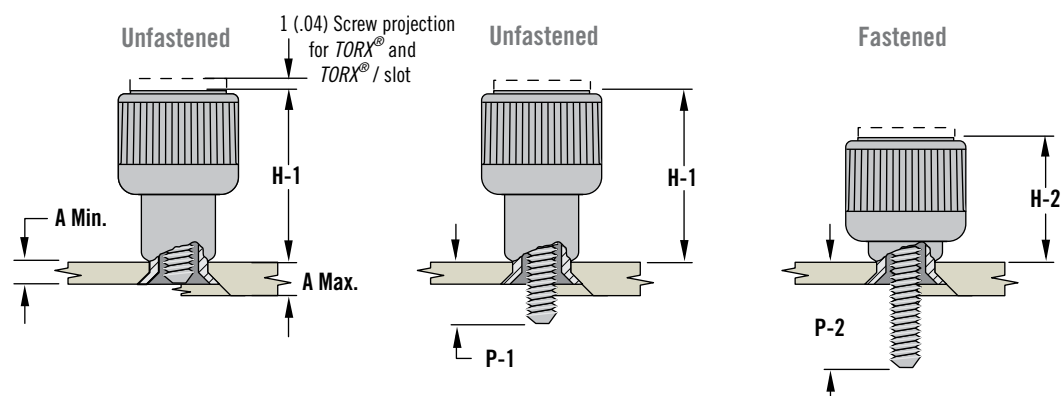
No. 2 Phillips /
Slot Combination



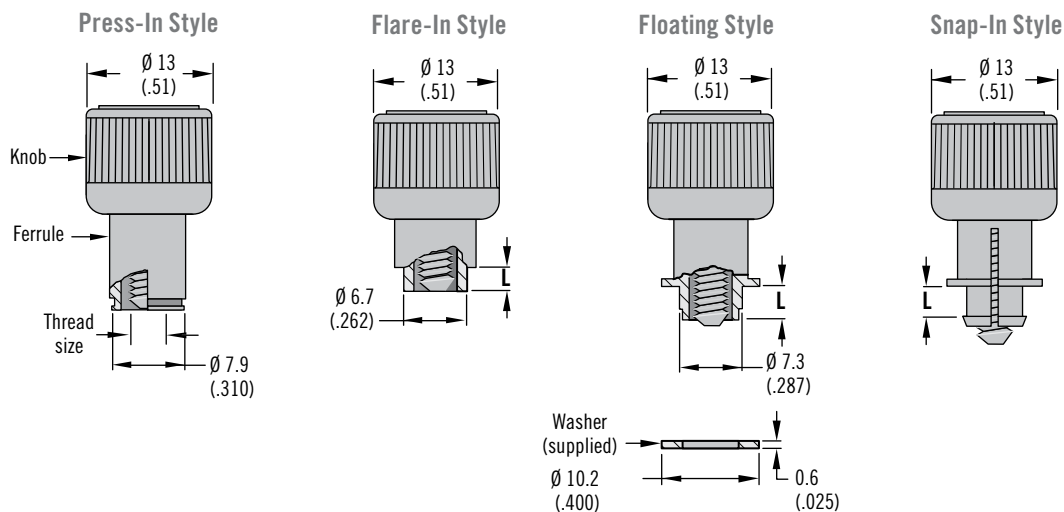
ACTUAL
SIZE

Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



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Dimensions in millimeters (inch) unless otherwise stated



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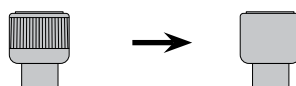
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number								
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination				
Press-In Style	16.2 (.64)	11.2 (.44)	0.9 (.036)	~	~	0.8 (.03)	~	0.5 (.02)	5.6 (.22)	47-60-301-24	47-60-321-24	47-60-341-10	47-60-361-10	47-60-381-10				
								2 (.08)	7.1 (.28)	47-61-301-24	47-61-321-24	47-61-341-10	47-61-361-10	47-61-381-10				
								3.8 (.15)	8.9 (.35)	47-62-301-24	47-62-321-24	47-62-341-10	47-62-361-10	47-62-381-10				
								5.3 (.21)	10.4 (.41)	47-63-301-24	47-63-321-24	47-63-341-10	47-63-361-10	47-63-381-10				
Flare-In Style	15.6 (.61)	10.5 (.41)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.9 (.03)	1.8 (.070)	1 (.04)	6 (.24)	47-10-302-14	47-10-322-14	47-10-342-10	47-10-362-10	47-10-382-10				
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.8 (.11)	7.6 (.3)	47-10-304-14	47-10-324-14	47-10-344-10	47-10-364-10	47-10-384-10				
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	4.3 (.17)	9.2 (.36)	47-10-306-14	47-10-326-14	47-10-346-10	47-10-366-10	47-10-386-10				
			6.3 (.251)	7.9 (.312)	4.8 (.189)		6.6 (.260)	5.8 (.23)	10.8 (.43)	47-10-308-14	47-10-328-14	47-10-348-10	47-10-368-10	47-10-388-10				
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.07)	2.8 (.11)	7.6 (.3)	47-11-302-14	47-11-322-14	47-11-342-10	47-11-362-10	47-11-382-10				
								4.3 (.17)	9.2 (.36)	47-12-302-14	47-12-322-14	47-12-342-10	47-12-362-10	47-12-382-10				
								5.8 (.23)	10.8 (.43)	47-13-302-14	47-13-322-14	47-13-342-10	47-13-362-10	47-13-382-10				
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.3 (.17)	9.2 (.36)	47-11-304-14	47-11-324-14	47-11-344-10	47-11-364-10	47-11-384-10				
								5.8 (.23)	10.8 (.43)	47-12-304-14	47-12-324-14	47-12-344-10	47-12-364-10	47-12-384-10				
								5 (.197)	5.8 (.23)	10.8 (.43)	47-11-306-14	47-11-326-14	47-11-346-10	47-11-366-10	47-11-386-10			
			Floating Style	16 (.63)	11.2 (.44)		~	0.8 (.031)	2.3 (.09)	2.3 (.09)	3.2 (.127)	2.3 (.09)	7.1 (.28)	47-10-310-14	47-10-330-14	47-10-350-10	47-10-370-10	47-10-390-10
												3.8 (.15)	8.9 (.35)	47-11-310-14	47-11-330-14	47-11-350-10	47-11-370-10	47-11-390-10
5.6 (.22)	10.4 (.41)	47-12-310-14				47-12-330-14						47-12-350-10	47-12-370-10	47-12-390-10				
2.3 (.09)	7.1 (.28)	47-10-311-14				47-10-331-14						47-10-351-10	47-10-371-10	47-10-391-10				
0.8 (.031)	1.6 (.063)	3.1 (.121)				4 (.158)	3.8 (.15)	8.9 (.35)	47-11-311-14		47-11-331-14	47-11-351-10	47-11-371-10	47-11-391-10				
							5.6 (.22)	10.4 (.41)	47-12-311-14		47-12-331-14	47-12-351-10	47-12-371-10	47-12-391-10				
							3.8 (.15)	8.9 (.35)	47-10-312-14		47-10-332-14	47-10-352-10	47-10-372-10	47-10-392-10				
							5.6 (.22)	10.4 (.41)	47-11-312-14		47-11-332-14	47-11-352-10	47-11-372-10	47-11-392-10				
Snap-In Style	15.7 (.62)	11.2 (.44)	0.5 (.020)	1 (.039)	2 (.079)	0.9 (.03)	1.1 (.044)	1 (.04)	3 (.22)	47-60-310-14	47-60-330-14	47-60-350-10	47-60-370-10	47-60-390-10				
								2.8 (.11)	7.1 (.28)	47-61-310-14	47-61-330-14	47-61-350-10	47-61-370-10	47-61-390-10				
								4.3 (.17)	8.9 (.35)	47-63-310-14	47-62-330-14	47-62-350-10	47-62-370-10	47-62-390-10				
								5.8 (.23)	10.4 (.41)	47-63-310-14	47-63-330-14	47-63-350-10	47-63-370-10	47-63-390-10				
			1 (.039)	1.6 (.063)	2.6 (.103)		1.7 (.068)	2.8 (.11)	7.1 (.28)	47-60-312-14	47-60-332-14	47-60-352-10	47-60-372-10	47-60-392-10				
								4.3 (.17)	8.9 (.35)	47-61-312-14	47-61-332-14	47-61-352-10	47-61-372-10	47-61-392-10				
								5.8 (.23)	10.4 (.41)	47-62-312-14	47-62-332-14	47-62-352-10	47-62-372-10	47-62-392-10				
								2.8 (.11)	7.1 (.28)	47-60-314-14	47-60-334-14	47-60-354-10	47-60-374-10	47-60-394-10				
1.6 (.063)	2.5 (.098)	3.5 (.138)		2.6 (.103)	4.3 (.17)	8.9 (.35)	47-61-314-14	47-61-334-14	47-61-354-10	47-61-374-10	47-61-394-10							
					5.8 (.23)	10.4 (.41)	47-62-314-14	47-62-334-14	47-62-354-10	47-62-374-10	47-62-394-10							

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · 10-32 thread size

- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel,
zinc plate, chromate, plus sealer

Flare-in, floating and snap-in:
Aluminum, natural

Knob: Aluminum, natural or black
powder coated

Screw: Hardened carbon steel,
zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

Notes



To ensure you receive
SOUTHCO® quality parts,
look for the segmented circle

Recess Styles

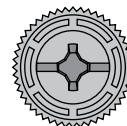
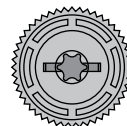
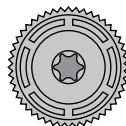
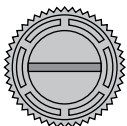
Slotted

No. 2 Phillips

T25 TORX®

T25 TORX®/
Slot Combination

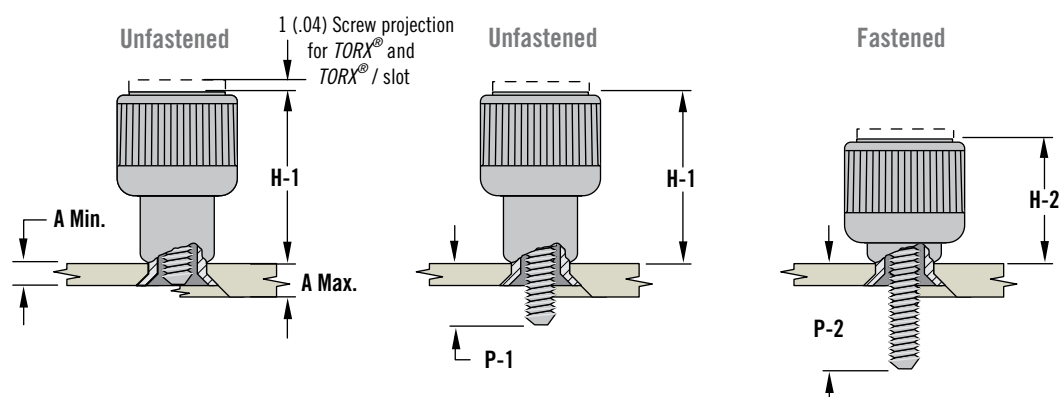
No. 2 Phillips /
Slot Combination



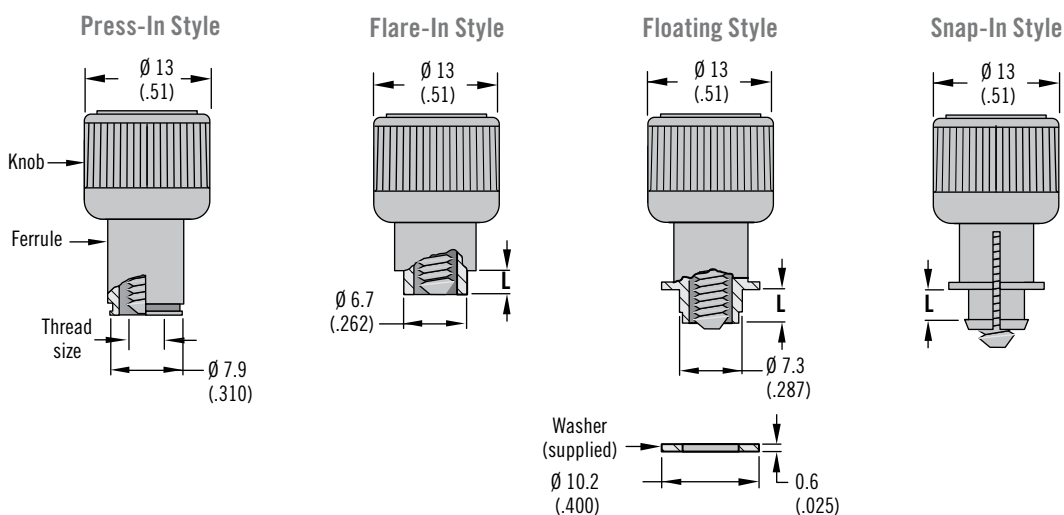
ACTUAL
SIZE

Knob Height and Screw Projection

(Flare-in style shown)



Installation Styles



TORX® is a registered trademark of Acument™ Intellectual Properties, LLC

Dimensions in millimeters (inch) unless otherwise stated



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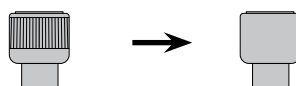
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number					
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination	
Press-In Style	16.2 (.64)	11.2 (.44)	0.9 (.036)	~	~	0.6 (.02)	~	0.6 (.02)	5.5 (.22)	47-60-501-24	47-60-521-24	47-60-541-20	47-60-561-20	47-60-581-20	
								2.2 (.09)	7.2 (.28)	47-61-501-24	47-61-521-24	47-61-541-20	47-61-561-20	47-61-581-20	
								3.8 (.15)	8.9 (.35)	47-62-501-24	47-62-521-24	47-62-541-20	47-62-561-20	47-62-581-20	
								5.4 (.21)	10.3 (.41)	47-63-501-24	47-63-521-24	47-63-541-20	47-63-561-20	47-63-581-20	
Flare-In Style	15.6 (.61)	10.5 (.41)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.6 (.02)	1.8 (.070)	1.2 (.05)	6.3 (.25)	47-10-502-14	47-10-522-14	47-10-542-10	47-10-562-10	47-10-582-10	
			3.2 (.125)	4.7 (.187)	1.6 (.062)		3.4 (.135)	2.8 (.11)	7.9 (.31)	47-10-504-14	47-10-524-14	47-10-544-10	47-10-564-10	47-10-584-10	
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	4.4 (.17)	9.5 (.37)	47-10-506-14	47-10-526-14	47-10-546-10	47-10-566-10	47-10-586-10	
			6.3 (.251)	7.9 (.312)	4.8 (.187)		6.6 (.260)	6 (.24)	11.1 (.44)	47-10-508-14	47-10-528-14	47-10-548-10	47-10-568-10	47-10-588-10	
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.070)	2.8 (.11)	7.9 (.31)	47-11-502-14	47-11-522-14	47-11-542-10	47-11-562-10	47-11-582-10	
			3.2 (.125)	4.8 (.187)	1.6 (.062)		3.4 (.135)	4.4 (.17)	9.5 (.37)	47-12-502-14	47-12-522-14	47-12-542-10	47-12-562-10	47-12-582-10	
								6 (.24)	11.1 (.44)	47-13-502-14	47-13-522-14	47-13-542-10	47-13-562-10	47-13-582-10	
								4.4 (.17)	9.5 (.37)	47-11-504-14	47-11-524-14	47-11-544-10	47-11-564-10	47-11-584-10	
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	6 (.24)	11.1 (.44)	47-12-504-14	47-12-524-14	47-12-544-10	47-12-564-10	47-12-584-10	
								6 (.24)	11.1 (.44)	47-11-506-14	47-11-526-14	47-11-546-10	47-11-566-10	47-11-586-10	
Floating Style	16 (.63)	11.2 (.44)	~	0.8 (.031)	2.3 (.090)	2.3 (.09)	3.2 (.127)	2.3 (.09)	7.1 (.28)	47-10-510-14	47-10-530-14	47-10-550-10	47-10-570-10	47-10-590-10	
							4 (.158)	4 (.16)	8.8 (.35)	47-11-510-14	47-11-530-14	47-11-550-10	47-11-570-10	47-11-590-10	
								5.6 (.22)	10.4 (.41)	47-12-510-14	47-12-530-14	47-12-550-10	47-12-570-10	47-12-590-10	
								2.4 (.09)	7.1 (.28)	47-10-511-14	47-10-531-14	47-10-551-10	47-10-571-10	47-10-591-10	
			0.8 (.031)	1.6 (.063)	3.1 (.122)		4 (.158)	4 (.16)	8.8 (.35)	47-11-511-14	47-11-531-14	47-11-551-10	47-11-571-10	47-11-591-10	
								5.6 (.22)	10.4 (.41)	47-12-511-14	47-12-531-14	47-12-551-10	47-12-571-10	47-12-591-10	
								4 (.16)	8.8 (.35)	47-10-512-14	47-10-532-14	47-10-552-10	47-10-572-10	47-10-592-10	
			1.6 (.063)	2.4 (.094)	3.9 (.153)		4.8 (.190)	5.6 (.22)	10.4 (.41)	47-11-512-14	47-11-532-14	47-11-552-10	47-11-572-10	47-11-592-10	
1.2 (.04)	5.6 (.22)	47-60-510-14						47-60-530-14	47-60-550-10	47-60-570-10	47-60-590-10				
Snap-In Style	15.7 (.62)	11.2 (.44)	0.5 (.020)	1 (.039)	2 (.079)	.9 (.04)	1.1 (.044)	2.8 (.11)	7.1 (.28)	47-61-510-14	47-61-530-14	47-61-550-10	47-61-570-10	47-61-590-10	
								4.3 (.17)	8.8 (.35)	47-63-510-14	47-62-530-14	47-62-550-10	47-62-570-10	47-62-590-10	
								5.9 (.23)	10.4 (.41)	47-63-510-14	47-63-530-14	47-63-550-10	47-63-570-10	47-63-590-10	
								2.8 (.11)	7.1 (.28)	47-60-512-14	47-60-532-14	47-60-552-10	47-60-572-10	47-60-592-10	
			1 (.039)	1.6 (.063)	2.6 (.103)		1.7 (.068)	4.3 (.17)	8.8 (.35)	47-61-512-14	47-61-532-14	47-61-552-10	47-61-572-10	47-61-592-10	
								5.9 (.23)	10.4 (.41)	47-62-512-14	47-62-532-14	47-62-552-10	47-62-572-10	47-62-592-10	
								2.8 (.11)	7.1 (.28)	47-60-514-14	47-60-534-14	47-60-554-10	47-60-574-10	47-60-594-10	
			1.6 (.063)	2.5 (.098)	3.5 (.138)		2.6 (.103)	4.3 (.17)	8.8 (.35)	47-61-514-14	47-61-534-14	47-61-554-10	47-61-574-10	47-61-594-10	
								5.9 (.23)	10.4 (.41)	47-62-514-14	47-62-534-14	47-62-554-10	47-62-574-10	47-62-594-10	

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



47 Captive Screws

Styled knob series · 1/4-20 thread size

- Designed for hand operation
- Spring ejected
- Wide variety of sizes, recesses and installation options

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer
Flare-in and Floating: Aluminum, natural

Knob: Aluminum, natural or black powder coated

Screw: Hardened carbon steel, zinc plated, chromate, plus sealer

Installation Notes

See pages 392 - 393, 497

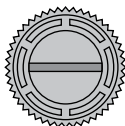
Notes



To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle

Recess Styles

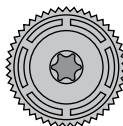
Slotted



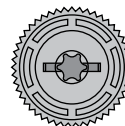
No. 2 Phillips



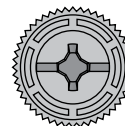
T30 TORX®



T30 TORX® / Slot Combination



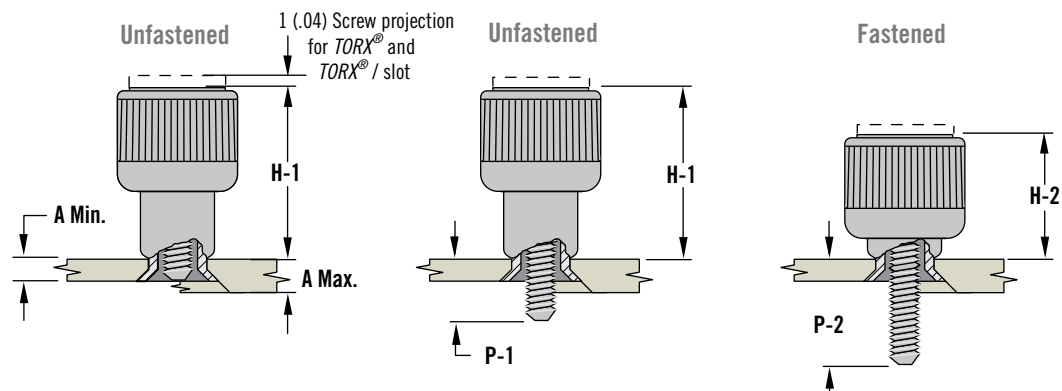
No. 2 Phillips / Slot Combination



ACTUAL
SIZE

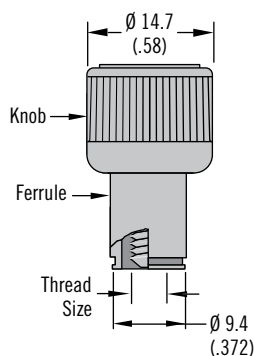
Knob Height and Screw Projection

(Flare-in style shown)

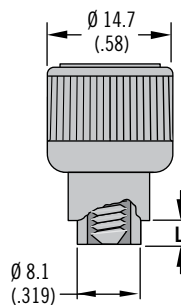


Installation Styles

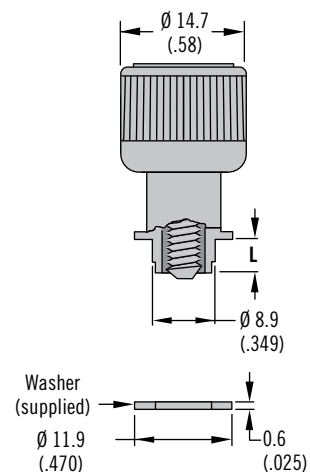
Press-In Style



Flare-In Style



Floating Style



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Dimensions in millimeters (inch) unless otherwise stated



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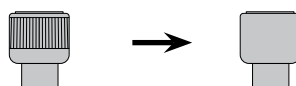
Installation Style	Knob Height		Outer Panel Dimensions		B	Total Float	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number				
	H-1	H-2	A Min.	A Max.				P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess	TORX® / Slot Combination	Phillips / Slot Combination
Press-In Style	20 (.79)	13.4 (.53)	0.9 (.036)	~	~	0.8 (.03)	~	0.5 (.02)	7.1 (.28)	47-60-601-24	47-60-621-24	47-60-641-20	47-60-661-20	47-60-681-20
								2.1 (.08)	8.7 (.34)	47-61-601-24	47-61-621-24	47-61-641-20	47-61-661-20	47-61-681-20
								3.7 (.15)	10.3 (.41)	47-62-601-24	47-62-621-24	47-62-641-20	47-62-661-20	47-62-681-20
								5.3 (.21)	11.9 (.47)	47-63-601-24	47-63-621-24	47-63-641-20	47-63-661-20	47-63-681-20
Flare-In Style	19.3 (.76)	12.7 (.50)	1.5 (.058)	3.2 (.125)	0.4 (.015)	0.9 (.03)	1.8 (.070)	1.2 (.05)	7.8 (.31)	47-10-602-14	47-10-622-14	47-10-642-10	47-10-662-10	47-10-682-10
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	2.8 (.11)	9.4 (.37)	47-10-604-14	47-10-624-14	47-10-644-10	47-10-664-10	47-10-684-10
			4.8 (.188)	6.4 (.250)	3.2 (.125)		5 (.197)	4.4 (.17)	11 (.43)	47-10-606-14	47-10-626-14	47-10-646-10	47-10-666-10	47-10-686-10
			6.4 (.251)	7.9 (.312)	4.8 (.189)		6.6 (.260)	6 (.24)	12.6 (.50)	47-10-608-14	47-10-628-14	47-10-648-10	47-10-668-10	47-10-688-10
			1.5 (.058)	3.2 (.125)	0.4 (.015)		1.8 (.070)	2.8 (.11)	9.4 (.37)	47-11-602-14	47-11-622-14	47-11-642-10	47-11-662-10	47-11-682-10
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.4 (.17)	11 (.43)	47-12-602-14	47-12-622-14	47-12-642-10	47-12-662-10	47-12-682-10
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	6 (.24)	12.6 (.50)	47-13-602-14	47-13-622-14	47-13-642-10	47-13-662-10	47-13-682-10
			3.2 (.126)	4.8 (.189)	1.6 (.062)		3.4 (.135)	4.4 (.17)	11 (.43)	47-11-604-14	47-11-624-14	47-11-644-10	47-11-664-10	47-11-684-10
			4.8 (.189)	6.4 (.250)	3.2 (.125)		5 (.197)	6 (.24)	12.6 (.50)	47-12-604-14	47-12-624-14	47-12-644-10	47-12-664-10	47-12-684-10
			~	0.8 (.031)	2.3 (.090)		3.2 (.127)	2.1 (.08)	8.8 (.35)	47-10-610-14	47-10-630-14	47-10-650-10	47-10-670-10	47-10-690-10
			0.8 (.031)	1.6 (.063)	3.1 (.122)		4 (.158)	3.7 (.15)	10.4 (.41)	47-11-610-14	47-11-630-14	47-11-650-10	47-11-670-10	47-11-690-10
			1.6 (.063)	2.4 (.094)	3.9 (.153)		4.8 (.190)	5.3 (.21)	12 (.47)	47-12-610-14	47-12-630-14	47-12-650-10	47-12-670-10	47-12-690-10
Floating Style	20 (.79)	13.3 (.52)	~	0.8 (.031)	2.3 (.090)	2.3 (.09)	3.2 (.127)	2.1 (.08)	8.8 (.35)	47-10-611-14	47-10-631-14	47-10-651-10	47-10-671-10	47-10-691-10
			0.8 (.031)	1.6 (.063)	3.1 (.122)		4 (.158)	3.7 (.15)	10.4 (.41)	47-11-611-14	47-11-631-14	47-11-651-10	47-11-671-10	47-11-691-10
			1.6 (.063)	2.4 (.094)	3.9 (.153)		4.8 (.190)	5.3 (.21)	12 (.47)	47-12-611-14	47-12-631-14	47-12-651-10	47-12-671-10	47-12-691-10
			~	0.8 (.031)	2.3 (.090)		3.2 (.127)	2.1 (.08)	8.8 (.35)	47-10-612-14	47-10-632-14	47-10-652-10	47-10-672-10	47-10-692-10
			0.8 (.031)	1.6 (.063)	3.1 (.122)		4 (.158)	3.7 (.15)	10.4 (.41)	47-11-612-14	47-11-632-14	47-11-652-10	47-11-672-10	47-11-692-10
			1.6 (.063)	2.4 (.094)	3.9 (.153)		4.8 (.190)	5.3 (.21)	12 (.47)	47-12-612-14	47-12-632-14	47-12-652-10	47-12-672-10	47-12-692-10
			~	0.8 (.031)	2.3 (.090)		3.2 (.127)	2.1 (.08)	8.8 (.35)	47-10-610-14	47-10-630-14	47-10-650-10	47-10-670-10	47-10-690-10
			0.8 (.031)	1.6 (.063)	3.1 (.122)		4 (.158)	3.7 (.15)	10.4 (.41)	47-11-610-14	47-11-630-14	47-11-650-10	47-11-670-10	47-11-690-10

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 1 to 5: 47-80-102-14
47-80-102-54
Change 2 to 6: 47-80-102-24
47-80-102-64



For a smooth knob, change the part number from the table as shown:

Change 0 to 1: 47-90-161-20
47-90-161-21
Change 4 to 5: 47-90-101-24
47-90-101-25

Part Number

See table

All screw part numbers shown in table are for a natural knob finish and a knurled knob

For black finish and smooth knob options, minimums may apply



4C Captive Screws

Prism series · M3, M4 and M5 thread size

- Designate access points with color
- Color match captive screws to your industrial design
- High strength screw for use with high torque drivers

Material and Finish

Knob: PC/ABS

Screw: Hardened carbon steel, zinc plate, chrome, plus sealer

Spring: 300 series stainless steel, passivated

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chrome, plus sealer

PCB: Stainless steel

Flare-in and Floating:

Aluminum, natural

Performance Details

Flammability Rating: UL94-V0

Installation Notes

See pages 392 - 393, 497

Notes

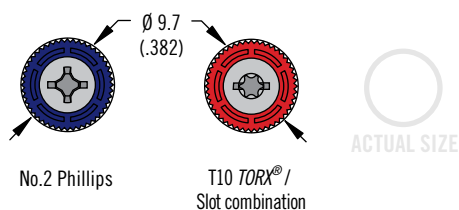
Press-in: Max. panel hardness
170 HV (85 HRB)



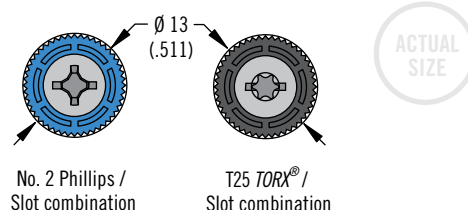
To ensure you receive
SOUTHCO® quality parts,
look for the segmented circle.

Recess Styles

M3

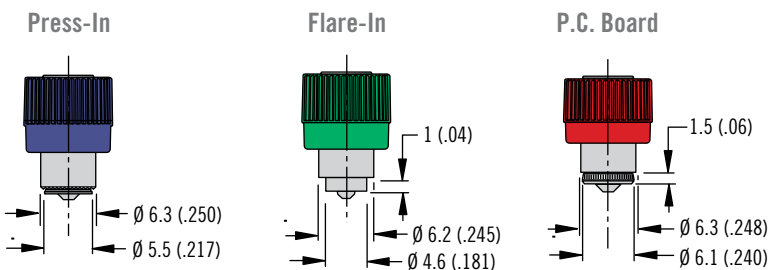


M4 and M5

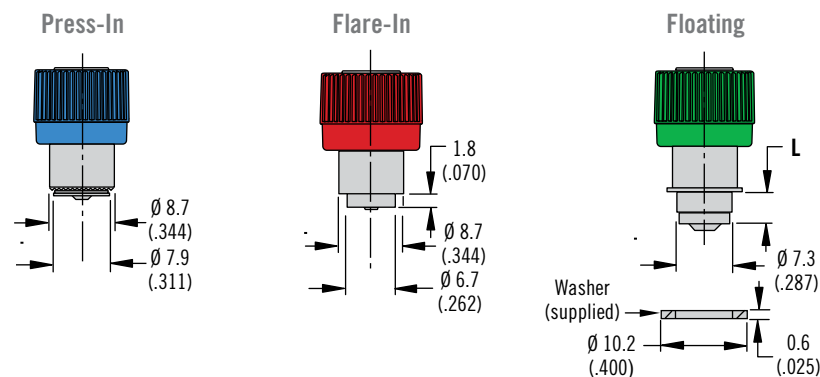


Installation Styles

M3

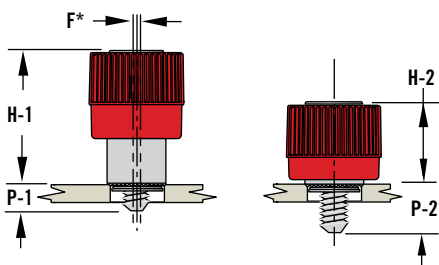


M4 and M5



Knob Height and Screw Projection

(Press-in style shown)



TORX is a registered trademark of Acument™ Intellectual Properties, LLC

Dimensions in millimeters (inch) unless otherwise stated

M3 Thread Size

Installation Style	Outer Panel Dimensions		B	Part Number		Screw Projection Beyond Outer Surface of Panel		Knob Height†		Total Float	Panel Preparation	
	A Min.	A Max.		Phillips Recess	TORX® / Slot Combination	P-1	P-2	H-1	H-2		Ø D	Ø Z
Press-In Style	0.9 (.036)	~	~	4C-PH-M3-1P0-K000	4C-TS-M3-1P0-K000	0.8 (.03)	3.7 (.15)	11.5 (.45)	8.6 (.34)	0.7 (.03)	5.6 ^{+0.04} _{-0.04}	3.2 ^{+0.2} _{-0.1}
				4C-PH-M3-2P0-K000	4C-TS-M3-2P0-K000	2.5 (.10)	5.4 (.21)				(.219 ^{+0.03} _{-0.03})	(.125 ^{+0.08} _{-0.04})
P.C. Board Style	1.6 (.063)	~	~	4C-PH-M3-1B0-K000	4C-TS-M3-1B0-K000	1.5 (.06)	3.8 (.15)	10.9 (.43)	8.5 (.33)	0.7 (.03)	5.6 ^{+0.1} _{-0.05}	3.2 ^{+0.2} _{-0.1}
Flare-In Style	0.8 (.031)	1.5 (.058)	0.4 (.016)	4C-PH-M3-1F1-K000	4C-TS-M3-1F1-K000	0.8 (.03)	3.7 (.15)	11.5 (.45)	8.6 (.34)	0.7 (.03)	4.8 ^{+0.08} _{-0.05}	3.0 ^{+0.2} _{-0.1}
				4C-PH-M3-2F1-K000	4C-TS-M3-2F1-K000	1.5 (.06)	5.4 (.21)				(.189 ^{+0.03} _{-0.02})	(.125 ^{+0.08} _{-0.04})

ATCA compliant parts

M4 Thread Size

Installation Style	Outer Panel Dimensions		B	L	Part Number		Screw Projection Beyond Outer Surface Of Panel		Knob Height†		Total Float	Panel Preparation	
	A Min.	A Max.			Phillips / Slot Combination	TORX®/Slot Combination	P-1	P-2	H-1	H-2		Ø D	Ø Z
Press-In Style	0.9 (.036)†	~	~	~	4C-PS-M4-1P0-K000	4C-TS-M4-1P0-K000	0.5 (.02)	5.6 (.22)	16.3 (.64)	11.3 (.45)	0.7 (.03)	8 ⁺⁰ _{-0.08}	4.4 ^{+0.2} _{-0.1}
					4C-PS-M4-2P0-K000	4C-TS-M4-2P0-K000	2 (.08)	7.1 (.28)				(.315 ⁺⁰ _{-0.03})	(.173 ^{+0.08} _{-0.04})
Flare-In Style	1.5 (.060)	3.2 (.058)	0.4 (.016)	~	4C-PS-M4-1F1-K000	4C-TS-M4-1F1-K000	0.6 (.02)	5.6 (.22)	16.3 (.64)	11.3 (.45)	0.6 (.02)	6.8 ^{+0.08} _{-0.04}	4.2 ^{+0.05} ₋₀
					4C-PS-M4-2F1-K000	4C-TS-M4-2F1-K000	2.1 (.08)	7.1 (.28)				(.266 ^{+0.05} ₋₀)	(.165 ^{+0.02} ₋₀)
Floating Style	0.8 (.031)	1.6 (.063)	3.1 (.122)	4 (.158)	4C-PS-M4-3T2-K000	4C-TS-M4-3T2-K000	3.8 (.15)	8.8 (.35)	16.2 (.64)	11.2 (.44)	2.3 (.09)	8.8 ^{+0.08} _{-0.03}	~
	1.6 (.063)	2.4 (.094)	3.9 (.153)	4.8 (.190)	4C-PS-M4-4T2-K000	4C-TS-M4-4T2-K000	5.4 (.21)	10.4 (.41)					
					4C-PS-M4-3T3-K000	4C-TS-M4-3T3-K000	3.8 (.15)	8.8 (.35)					
					4C-PS-M4-4T3-K000	4C-TS-M4-4T3-K000	5.4 (.21)	10.4 (.41)					

M5 Thread Size

Installation Style	Outer Panel Dimensions		B	L	Part Number		Screw Projection Beyond Outer Surface of Panel		Knob Height†		Total Float	Panel Preparation	
	A Min.	A Max.			Phillips / Slot Combination	TORX® / Slot Combination	P-1	P-2	H-1	H-2		Ø D	Ø Z
Press-In Style	0.9 (.036)†	~	~	~	4C-PS-M5-1P0-K000	4C-TS-M5-1P0-K000	0.4 (.2)	5.6 (.22)	16.4 (.65)	11.3 (.45)	0.8 (.03)	8 ⁺⁰ _{-0.08}	5.2 ^{+0.2} _{-0.1}
					4C-PS-M5-2P0-K000	4C-TS-M5-2P0-K000	2 (.08)	7.2 (.28)				(.315 ⁺⁰ _{-0.03})	(.205 ^{+0.08} _{-0.04})
Flare-In Style	1.5 (.06)	3.2 (.058)	0.4 (.016)	~	4C-PS-M5-1F1-K000	4C-TS-M5-1F1-K000	0.5 (.02)	5.6 (.22)	16.4 (.65)	11.3 (.45)	0.7 (.03)	6.8 ^{+0.08} _{-0.04}	4.9 ^{+0.05} ₋₀
					4C-PS-M5-2F1-K000	4C-TS-M5-2F1-K000	2.1 (.08)	7.2 (.28)				(.266 ^{+0.05} ₋₀)	(.191 ^{+0.02} ₋₀)
Floating Style	0.8 (.031)	0.9 (.036)	3.1 (.122)	4 (.158)	4C-PS-M5-3T2-K000	4C-TS-M5-3T2-K000	3.7 (.15)	8.9 (.35)	16.3 (.64)	11.2 (.44)	2.3 (.09)	8.8 ^{+0.08} _{-0.03}	~
					4C-PS-M5-4T2-K000	4C-TS-M5-4T2-K000	5.3 (.21)	10.5 (.41)				(.346 ^{+0.03} _{-0.01})	

(shown in table)



000
Black



008
Blue



012
Purple



013
Red



014
Green



Your Color
Contact Southco

Notes: *F indicates the maximum float in the unfastened position.

† For panels thinner than 0.9 (.035), contact Southco.

TORX is a registered trademark of Acument™ Intellectual Properties, LLC

Dimensions in millimeters (inch) unless otherwise stated

Part Number

See table

Specifying Color:

To indicate color, change the last three digits of the part number.

Example:

4C-PS-06-1P0-K000, black

4C-PS-06-1P0-K013, red





4C Captive Screws

Prism series · 4-40, 6-32 and 10-32 thread size

- Designate access points with color
- Color match captive screws to your industrial design
- High strength screw for use with high torque drivers

Material and Finish

Knob: PC/ABS

Screw: Hardened carbon steel, zinc plate, chromate, plus sealer

Spring: 300 series stainless steel, passivated

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer

PCB: Stainless steel

Flare-in and Floating: Aluminum, natural

Performance Details

Flammability Rating: UL94-V0

Installation Notes

See pages 392 - 393, 497

Notes

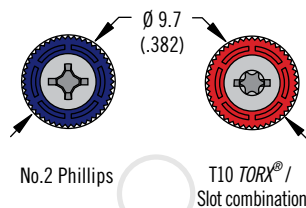
Press-in: Max. panel hardness 170 HV (85 HRB)



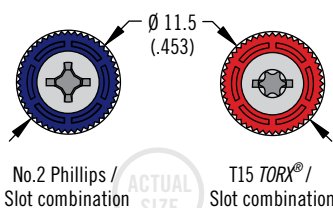
To ensure you receive **SOUTHCO®** quality parts, look for the segmented circle.

Recess Styles

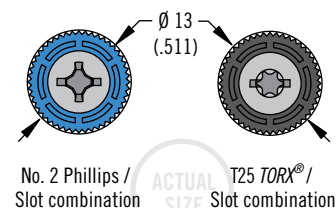
4-40



6-32



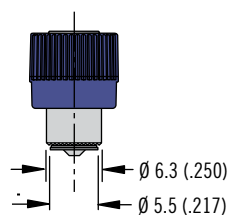
10-32



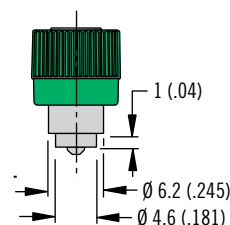
Installation Styles

4-40

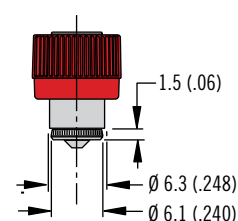
Press-In



Flare-In

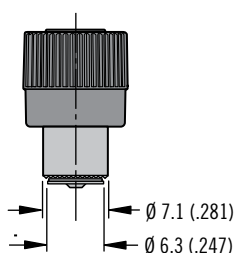


P.C. Board

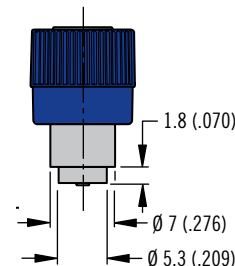


6-32

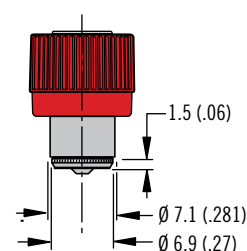
Press-In



Flare-In

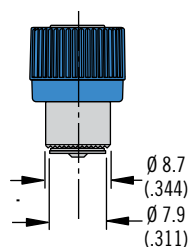


P.C. Board

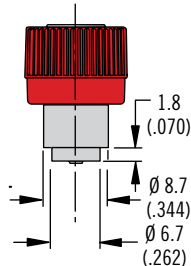


10-32

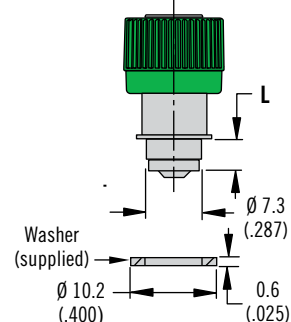
Press-In



Flare-In

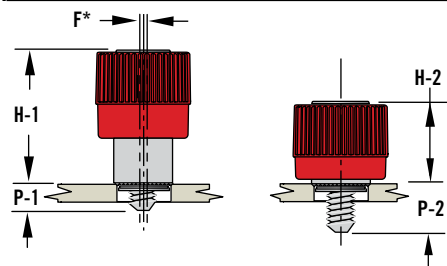


Floating



Knob Height and Screw Projection

(Press-in style shown)



TORX is a registered trademark of Acument™ Intellectual Properties, LLC

Dimensions in millimeters (inch) unless otherwise stated

4-40 Thread Size

Installation Style	Outer Panel Dimensions		B	Part Number		Screw Projection Beyond Outer Surface of Panel		Knob Height†		Total Float	Panel Preparation	
	A Min.	A Max.		Phillips Recess	TORX® / Slot Combination	P-1	P-2	H-1	H-2		Ø D	Ø Z
Press-In Style	0.9† (.036)	~	~	4C-PH-04-1P0-K000	4C-TS-04-1P0-K000	0.8 (.03)	3.8 (.15)	11.5 (.45)	8.6 (.34)	0.7 (.03)	5.6 $\begin{smallmatrix} +.04 \\ -.04 \end{smallmatrix}$ (.219 $\begin{smallmatrix} +.003 \\ -.0 \end{smallmatrix}$)	3.2 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.125 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
				4C-PH-04-2P0-K000	4C-TS-04-2P0-K000	2.5 (.10)	5.3 (.21)					
P.C. Board Style	1.6 (.063)	~	~	4C-PH-04-1B0-K000	4C-TS-04-1B0-K000	1.5 (.06)	3.8 (.15)	10.9 (.43)	8.5 (.33)	0.7 (.03)	5.6 $\begin{smallmatrix} +.01 \\ -.05 \end{smallmatrix}$ (.220 $\begin{smallmatrix} +.004 \\ -.002 \end{smallmatrix}$)	3.2 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.220 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
				4C-PH-04-2B0-K000	4C-TS-04-2B0-K000	3.3 (.13)	5.5 (.22)					
Flare-In Style	0.8 (.031)	1.5 (.059)	0.4 (.016)	4C-PH-04-1F1-K000	4C-TS-04-1F1-K000	0.8 (.03)	3.7 (.15)	11.5 (.45)	8.6 (.34)	0.7 (.03)	4.8 $\begin{smallmatrix} +.08 \\ -.05 \end{smallmatrix}$ (.220 $\begin{smallmatrix} +.003 \\ -.002 \end{smallmatrix}$)	3.0 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.125 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
				4C-PH-04-2F1-K000	4C-TS-04-2F1-K000	2.5 (.10)	5.4 (.21)					

6-32 Thread Size

Installation Style	Outer Panel Dimensions		B	Part Number		Screw Projection Beyond Outer Surface of Panel		Knob Height†		Total Float	Panel Preparation	
	A Min.	A Max.		Phillips / Slot Combination	TORX® / Slot Combination	P-1	P-2	H-1	H-2		Ø D	Ø Z
Press-In Style	0.9† (.036)	~	~	4C-PS-06-1P0-K000	4C-TS-06-1P0-K000	0.7 (.03)	5 (.20)	15.5 (.61)	11.3 (.44)	0.7 (.03)	6.4 $\begin{smallmatrix} +.003 \\ -.05 \end{smallmatrix}$ (.250 $\begin{smallmatrix} +.003 \\ -.0 \end{smallmatrix}$)	3.7 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.146 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
				4C-PS-06-2P0-K000	4C-TS-06-2P0-K000	2.3 (.09)	6.6 (.26)					
P.C. Board Style	1.5 (.06)	~	~	4C-PS-06-1B0-K000	4C-TS-06-1B0-K000	1.7 (.07)	6.2 (.25)	14.5 (.57)	10 (.39)	0.7 (.03)	6.4 $\begin{smallmatrix} +.003 \\ -.05 \end{smallmatrix}$ (.250 $\begin{smallmatrix} +.003 \\ -.0 \end{smallmatrix}$)	3.7 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.146 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
Flare-In Style	1.5 (.059)	3.2 (.125)	0.4 (.016)	4C-PS-06-1F1-K000	4C-TS-06-1F1-K000	0.8 (.03)	5 (.20)	15.5 (.61)	11.3 (.44)	0.7 (.03)	6.4 ±0.1 (.252±.004)	3.7 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.146 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
				4C-PS-06-2F1-K000	4C-TS-06-2F1-K000	2.3 (.09)	6.6 (.26)					

10-32 Thread Size

Installation Style	Outer Panel Dimensions		B	L	Part Number		Screw Projection Beyond Outer Surface of Panel		Knob Height†		Total Float	Panel Preparation	
	A Min.	A Max.			Phillips / Slot Combination	TORX® / Slot Combination	P-1	P-2	H-1	H-2		Ø D	Ø Z
Press-In Style	0.9† (.036)	~	~	~	4C-PS-10-1P0-K000	4C-TS-10-1P0-K000	0.5 (.02)	5.6 (.22)	16.3 (.64)	11.3 (.45)	0.6 (.02)	8 $\begin{smallmatrix} +.0 \\ -.08 \end{smallmatrix}$ (.315 $\begin{smallmatrix} +.0 \\ -.003 \end{smallmatrix}$)	5.2 $\begin{smallmatrix} +.02 \\ -.01 \end{smallmatrix}$ (.205 $\begin{smallmatrix} +.008 \\ -.004 \end{smallmatrix}$)
					4C-PS-10-2P0-K000	4C-TS-10-2P0-K000	2 (.08)	7.1 (.28)					
Flare-In Style	1.5 (.058)	3.2 (.125)	0.4 (.016)	1.8 (.070)	4C-PS-10-1F1-K000	4C-TS-10-1F1-K000	0.6 (.02)	5.6 (.22)		11.3 (.45)	0.6 (.02)	6.8 $\begin{smallmatrix} +.008 \\ -.04 \end{smallmatrix}$ (.266 $\begin{smallmatrix} +.005 \\ -.0 \end{smallmatrix}$)	4.9 $\begin{smallmatrix} +.005 \\ -.0 \end{smallmatrix}$ (.191 $\begin{smallmatrix} +.002 \\ -.0 \end{smallmatrix}$)
					4C-PS-10-2F1-K000	4C-TS-10-2F1-K000	2.1 (.08)	7.1 (.28)					
Floating Style	0.8 (.031)	1.6 (.063)	3.1 (.122)	4 (.158)	4C-PS-10-3T2-K000	4C-TS-10-3T2-K000	3.8 (.15)	8.8 (.35)		11.2 (.44)	2.3 (.09)	8.8 $\begin{smallmatrix} +.08 \\ -.03 \end{smallmatrix}$ (.346 $\begin{smallmatrix} +.003 \\ -.001 \end{smallmatrix}$)	~
					4C-PS-10-4T2-K000	4C-TS-10-4T2-K000	5.4 (.21)	10.4 (.41)					
	1.6 (.063)	2.4 (.094)	3.9 (.153)	4.8 (.190)	4C-PS-10-3T3-K000	4C-TS-10-3T3-K000	3.8 (.15)	8.8 (.35)					
					4C-PS-10-4T3-K000	4C-TS-10-4T3-K000	5.4 (.21)	10.4 (.41)					

(shown in table)



000
Black



008
Blue



012
Purple



013
Red



014
Green



Your Color
Contact Southco

Notes: *F indicates the maximum float in the unfastened position.
† For panels thinner than 0.9 (.035), contact Southco.

TORX is a registered trademark of Acument™ Intellectual Properties, LLC
Dimensions in millimeters (inch) unless otherwise stated

Part Number

See table

Specifying color:

To indicate color, change the last three digits of the part number.

Example:

4C-PS-06-1P0-K000, black

4C-PS-06-1P0-K**013**, red





47 Captive Screws

Restricted access series · M4 and M5 thread size

- Reduces risk of unauthorized access
- Meets UL-1950, IEC 950 and EN-60950
- Hand operation with tool-only removal

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer
Flare-in and Floating: Aluminum, natural

Knob: Aluminum, natural or black powder coated

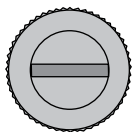
Screw: Hardened carbon steel, zinc plate, chromate, plus sealer

Installation Notes

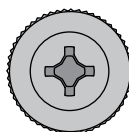
See pages 392 - 393, 497

Recess Styles

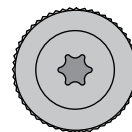
Slotted



No. 2 Phillips



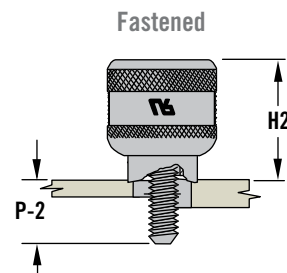
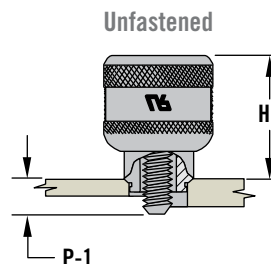
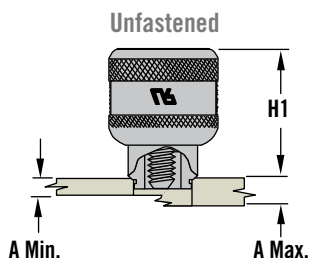
T25 TORX®



ACTUAL
SIZE

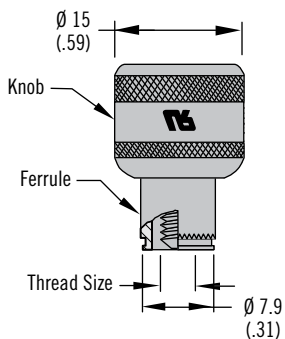
Knob Height and Screw Projection

(Press-in style shown)

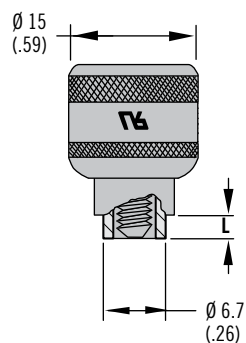


Installation Styles

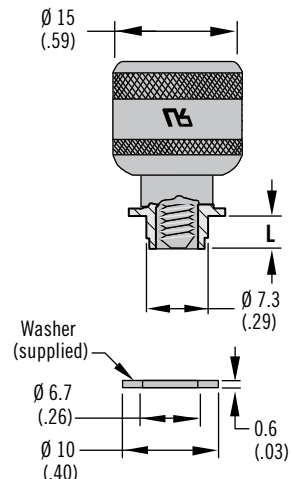
Press-In Style



Flare-In Style



Floating Style



TORX is a registered trademark of Acument™ Intellectual Properties, LLC

Dimensions in millimeters (inch) unless otherwise stated



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M4 Thread Size

Installation Style	Knob Height		Outer Panel Dimensions		Dimension B*	Flange Length L	Screw Projection Beyond Outer Surface of Panel		Part Number		
	H-1	H-2	A Min.	A Max.			P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess
Press-In Style	18.5 (.73)	14 (.55)	0.9 (.036)	~	~	~	0.7 (.03)	5.6 (.22)	47-90-301-22	47-90-321-22	47-90-341-22
							2.3 (.09)	7.2 (.28)	47-91-301-22	47-91-321-22	47-91-341-22
							3.8 (.15)	8.7 (.34)	47-92-301-22	47-92-321-22	47-92-341-22
							5.4 (.21)	10.3 (.41)	47-93-301-22	47-93-321-22	47-93-341-22
Flare-In Style	18 (.70)	13 (.51)	1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	1.4 (.06)	6.2 (.24)	47-80-302-22	47-80-322-22	47-80-342-22
			3.2 (.125)	4.8 (.188)	1.6 (.062)	3.4 (.14)	3.1 (.12)	7.9 (.31)	47-80-304-22	47-80-324-22	47-80-344-22
			1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	3.1 (.12)	7.9 (.31)	47-81-302-22	47-81-322-22	47-81-342-22
							4.1 (.16)	8.9 (.35)	47-82-302-22	47-82-322-22	47-82-342-22
							6.1 (.24)	10.9 (.43)	47-83-302-22	47-83-322-22	47-83-342-22
Floating Style	18 (.70)	14 (.55)	0.1 (.001)	0.8 (.031)	2.3 (.09)	3.2 (.13)	2.4 (.09)	7.2 (.28)	47-80-310-22	47-80-330-22	47-80-350-22
							3.4 (.13)	8.2 (.32)	47-81-310-22	47-81-330-22	47-81-350-22
							5.4 (.21)	10.2 (.40)	47-82-310-22	47-82-330-22	47-82-350-22
			0.8 (.031)	1.6 (.063)	3.1 (.12)	4 (.16)	2.4 (.09)	7.2 (.22)	47-80-311-22	47-80-331-22	47-80-351-22
							3.4 (.13)	8.2 (.32)	47-81-311-22	47-81-331-22	47-81-351-22
							5.4 (.21)	10.2 (.40)	47-82-311-22	47-82-331-22	47-82-351-22

M5 Thread Size

Press-In Style	18.5 (.73)	14 (.55)	0.9 (.036)	~	~	~	0.7 (.03)	5.6 (.22)	47-90-501-22	47-90-521-22	47-90-541-22
							2.3 (.09)	7.2 (.28)	47-91-501-22	47-91-521-22	47-91-541-22
							3.8 (.15)	8.7 (.34)	47-92-501-22	47-92-521-22	47-92-541-22
							5.4 (.21)	10.3 (.41)	47-93-501-22	47-93-521-22	47-93-541-22
Flare-In Style	18 (.70)	13 (.51)	1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	1.4 (.06)	6.2 (.24)	47-80-502-22	47-80-522-22	47-80-542-22
			3.2 (.125)	4.8 (.188)	1.6 (.062)	3.4 (.14)	3.1 (.12)	7.9 (.31)	47-80-504-22	47-80-524-22	47-80-544-22
			1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	3.1 (.12)	7.9 (.31)	47-81-502-22	47-81-522-22	47-81-542-22
							4.1 (.16)	8.9 (.35)	47-82-502-22	47-82-522-22	47-82-542-22
							6.1 (.24)	10.9 (.43)	47-83-502-22	47-83-522-22	47-83-542-22
			3.2 (.125)	4.8 (.188)	1.6 (.062)	3.4 (.14)	4.1 (.16)	8.9 (.35)	47-81-504-22	47-81-524-22	47-81-544-22
							6.1 (.24)	10.9 (.43)	47-82-504-22	47-82-524-22	47-82-544-22
			Floating Style	18 (.70)	14 (.55)	0.1 (.001)	0.8 (.031)	2.3 (.09)	3.2 (.13)	2.4 (.09)	7.2 (.28)
3.4 (.13)	8.2 (.32)	47-81-510-22								47-81-530-22	47-81-550-22
5.4 (.21)	10.2 (.40)	47-82-510-22								47-82-530-22	47-82-550-22
0.8 (.031)	1.6 (.063)	3.1 (.12)				4 (.16)	2.4 (.09)	7.2 (.28)	47-80-511-22	47-80-531-22	47-80-551-22
							3.4 (.13)	8.2 (.32)	47-81-511-22	47-81-531-22	47-81-551-22
							5.4 (.21)	10.4 (.40)	47-82-511-22	47-82-531-22	47-82-551-22
1.6 (.063)	2.4 (.094)	3.9 (.15)				4.8 (.19)	3.4 (.15)	8.2 (.35)	47-80-512-22	47-80-532-22	47-80-552-22
							5.4 (.21)	10.2 (.40)	47-81-512-22	47-81-532-22	47-81-552-22

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 2 to 6: 47-80-102-22
 47-80-102-62

Part Number

See table

All screw part numbers shown in table are for a natural finish

For black finish minimums may apply



47 Captive Screws

Restricted access series · 6-32 and 10-32 thread size

- Reduces risk of unauthorized access
- Meets UL-1950, IEC 950 and EN-60950
- Hand operation with tool-only removal

Material and Finish

Ferrule:

Press-in: Hardened carbon steel, zinc plate, chromate, plus sealer
Flare-in and Floating: Aluminum, natural

Knob: Aluminum, natural or black powder coated

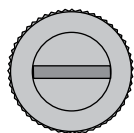
Screw: Hardened carbon steel, zinc plate, chromate, plus sealer

Installation Notes

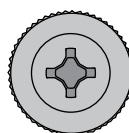
See pages 392 - 393, 497

Recess Styles

Slotted

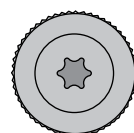


No. 2 Phillips



T 15 TORX® - 6-32

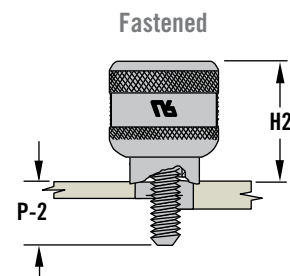
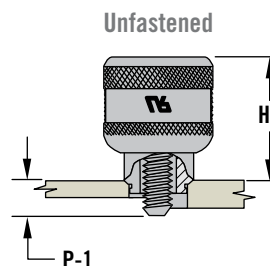
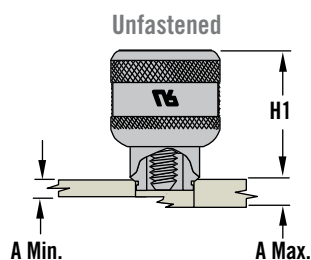
T 25 TORX® - 10-32



ACTUAL
SIZE

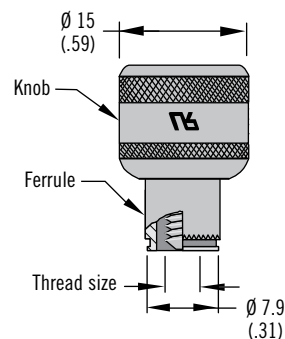
Knob Height and Screw Projection

(Press-in style shown)

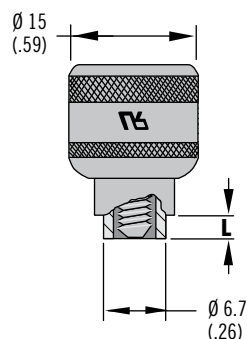


Installation Styles

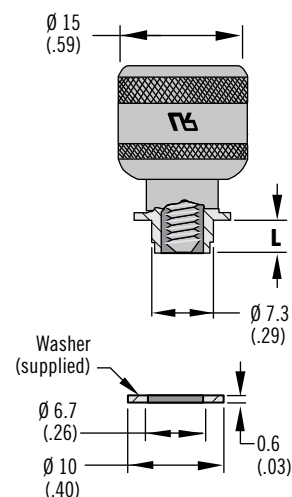
Press-In Style



Flare-In Style



Floating Style



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Dimensions in millimeters (inch) unless otherwise stated



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6-32 Thread Size

Installation Style	Knob Height†		Outer Panel Dimensions		Dimension B*	Flange Length L	Screw Projection Beyond Outer Surface Of Panel		Part Number		
	H-1	H-2	A Min.	A Max.			P-1	P-2	Slotted Recess	Phillips Recess	TORX® Recess
Press-In Style	18.5 (.73)	14 (.54)	0.9 (.036)	~	~	~	0.5 (.02)	5.3 (.21)	47-60-201-22	47-60-221-22	47-60-241-22
							2.3 (.09)	6.9 (.27)	47-61-201-22	47-61-221-22	47-61-241-22
							3.8 (.15)	8.3 (.33)	47-62-201-22	47-62-221-22	47-62-241-22
							5.3 (.21)	10.1 (.41)	47-63-201-22	47-63-221-22	47-63-241-22
Flare-In Style	18 (.70)	13 (.51)	1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	1.4 (.06)	6.2 (.24)	47-10-202-22	47-10-222-22	47-10-242-22
			3.2 (.125)	4.8 (.189)	1.6 (.062)	3.4 (.14)	3.1 (.12)	7.9 (.31)	47-10-204-22	47-10-224-22	47-10-244-22
			1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	3.1 (.12)	7.9 (.31)	47-11-202-22	47-11-222-22	47-11-242-22
							4.1 (.16)	8.9 (.35)	47-12-202-22	47-12-222-22	47-12-242-22
			6.1 (.24)	10.9 (.43)	47-13-202-22	47-13-222-22	47-13-242-22				
								4.1 (.16)	8.9 (.35)	47-11-204-22	47-11-224-22
			6.1 (.24)	10.9 (.43)	47-12-204-22	47-12-224-22	47-12-244-22				
			Floating Style	18 (.70)	14 (.54)	0.1 (.001)	0.8 (.031)	2.3 (.09)	3.2 (.13)	2.4 (.09)	7.2 (.28)
3.4 (.13)	8.2 (.32)	47-11-210-22								47-11-230-22	47-11-250-22
5.4 (.21)	10.2 (.40)	47-12-210-22								47-12-230-22	47-12-250-22
0.8 (.031)	1.6 (.063)	3.1 (.12)				4 (.16)	2.4 (.09)	7.2 (.22)	47-10-211-22	47-10-231-22	47-10-251-22
							3.4 (.13)	8.2 (.32)	47-11-211-22	47-11-231-22	47-11-251-22
							5.4 (.21)	10.2 (.40)	47-12-211-22	47-12-231-22	47-12-251-22
1.6 (.063)	2.4 (.094)	3.9 (.15)				4.8 (.19)	3.4 (.13)	8.2 (.32)	47-10-212-22	47-10-232-22	47-10-252-22
							5.4 (.21)	10.2 (.40)	47-11-212-22	47-11-232-22	47-11-252-22

10-32 Thread Size

Press-In Style	18.5 (.73)	14 (.54)	0.9 (.036)	~	~	~	0.7 (.03)	5.6 (.22)	47-60-501-22	47-60-521-22	47-60-541-22
							2.3 (.09)	7.2 (.28)	47-61-501-22	47-61-521-22	47-61-541-22
							3.8 (.15)	8.7 (.34)	47-62-501-22	47-62-521-22	47-62-541-22
							5.4 (.21)	10.3 (.41)	47-63-501-22	47-63-521-22	47-63-541-22
Flare-In Style	18 (.70)	13 (.51)	1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	1.4 (.06)	6.2 (.24)	47-10-502-22	47-10-522-22	47-10-542-22
			3.2 (.125)	4.8 (.189)	1.6 (.062)	3.4 (.14)	3.1 (.12)	7.9 (.31)	47-10-504-22	47-10-524-22	47-10-544-22
			1.5 (.058)	3.2 (.125)	0.6 (.023)	1.8 (.07)	3.1 (.12)	7.9 (.31)	47-11-502-22	47-11-522-22	47-11-542-22
							4.1 (.16)	8.9 (.35)	47-12-502-22	47-12-522-22	47-12-542-22
			3.2 (.125)	4.8 (.189)	1.6 (.062)	3.2 (.14)	6.1 (.24)	10.9 (.43)	47-13-502-22	47-13-522-22	47-13-542-22
							4.1 (.16)	8.9 (.35)	47-11-504-22	47-11-524-22	47-11-544-22
			6.1 (.24)	10.9 (.43)	47-12-504-22	47-12-524-22	47-12-544-22				
Floating Style	18 (.70)	14 (.54)	0.1 (.001)	0.8 (.031)	2.3 (.09)	3.2 (.13)	2.4 (.09)	7.2 (.28)	47-10-510-22	47-10-530-22	47-10-550-22
							3.4 (.13)	8.2 (.32)	47-11-510-22	47-11-530-22	47-11-550-22
							5.4 (.21)	10.2 (.40)	47-12-510-22	47-12-530-22	47-12-550-22
			0.8 (.031)	1.6 (.063)	3.1 (.12)	4 (.16)	2.4 (.09)	7.2 (.28)	47-10-511-22	47-10-531-22	47-10-551-22
							3.4 (.13)	8.2 (.32)	47-11-511-22	47-11-531-22	47-11-551-22
							5.4 (.21)	10.2 (.40)	47-12-511-22	47-12-531-22	47-12-551-22
			1.6 (.063)	2.4 (.094)	3.9 (.15)	4.8 (.19)	3.4 (.13)	8.2 (.32)	47-10-512-22	47-10-532-22	47-10-552-22
							5.4 (.21)	10.2 (.40)	47-11-512-22	47-11-532-22	47-11-552-22

Part numbers in shaded rows (shown in table) are fully retracting in minimum panel thickness



To add a black powder coated finish, change the part number from the table as shown:

Change 2 to 6: 47-80-102-22
 47-80-102-62

Part Number

See table

All screw part numbers shown in table are for a natural finish

For black finish minimums may apply



47/4C Captive Screws

Panel preparation and installation

Installation Notes

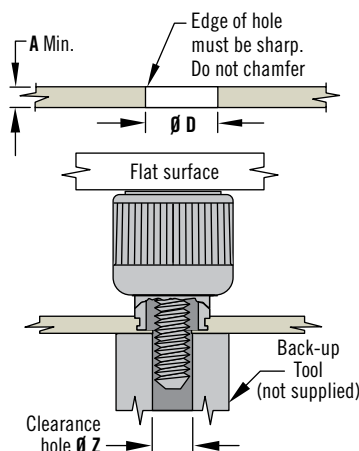
1. Prepare panel as shown. Top edge of hole should be sharp
2. Press captive screw into panel until ferrule is installed as shown

Installation closer to the panel edge requires a fixture to constrain the panel edges

Notes

Recommended minimum distance from edge of panel to centerline of hole is $1.5 \times \phi D$

Press-In Style



See page 497 for additional installation guidelines

Notes: For use in material hardnesses RB85 or less, such as low carbon steels that are half hard or softer, stainless steels in the annealed condition and aluminum.

Thread Size	ϕD	Clearance Hole ϕZ $+0.2 \begin{smallmatrix} +.008 \\ -.1 \end{smallmatrix} \begin{smallmatrix} (.004) \end{smallmatrix}$
M3 or 4-40	$5.6^{+0.03}_{-0.05}$ (.219)	3.2 (.125)
M3.5 or 6-32	$6.4^{+0.03}_{-0.05}$ (.250)	3.7 (.146)
M4 or 8-32	$8^{+0}_{-0.08}$ (.315)	4.4 (.173)
M5 or 10-32	$8^{+0}_{-0.08}$ (.315)	5.2 (.205)
M6 or 1/4-20	$9.5^{+0.1}_{-0}$ (.375)	6.2 (.260)

Performance Details

Pullout force: 360 N (80 lbf)
Side load against unfastened knob: 200 N (45 lbf)

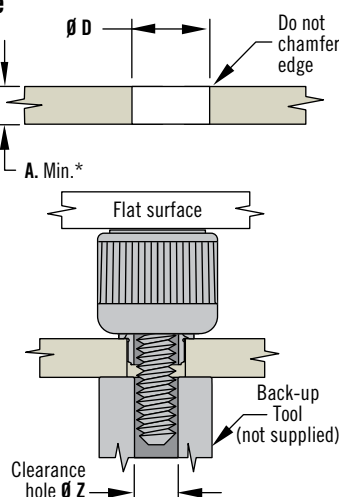
Installation Notes

1. Prepare panel as shown.
2. Use pilot lead-in to guide assembly into hole and press knurl into panel until ferrule shoulder contacts surface

Notes

Strength data based on drilled holes in G-10 P.C. Board

P.C. Board Style



Thread Size	ϕD	Clearance Hole ϕZ $+0.2 \begin{smallmatrix} +.008 \\ -.1 \end{smallmatrix} \begin{smallmatrix} (.004) \end{smallmatrix}$
M3 or 4-40	$5.6^{+0.1}_{-0.05}$ (.219)	3.2 (.125)
M3.5 or 6-32	6.4 ± 1 (.252 $\pm$.004)	3.7 (.146)

Installation Notes

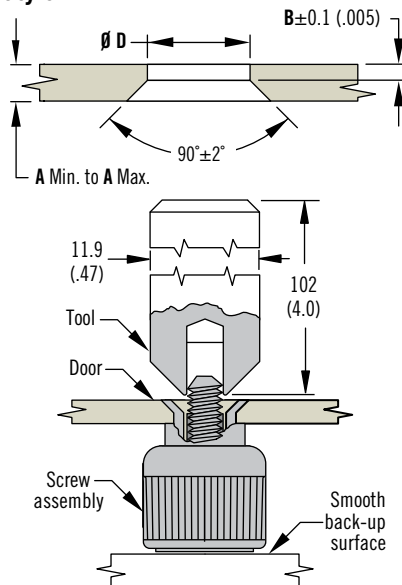
1. Prepare panel as shown.
2. Install tool in suitable press. Only LIGHT pressure will be required
3. Insert screw assembly into prepared hole in panel
4. Place work under press, center tool over screw thread and flare ferrule into counter-sink in panel. Use LIGHT pressure

Installation Force:

600 N (350 lbf) to 2500 N (550 lbf)

Installation force depends on thread size

Flare-In Style

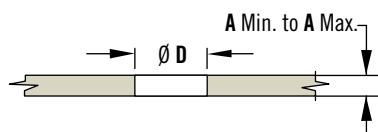
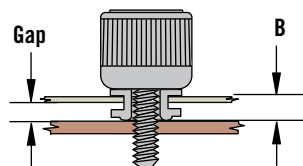


Thread Size	ϕD	Tool Part Number
M3 or 4-40	$4.8^{+0.08}_{-0.05}$ (.187)	47-104
M3.5 or 6-32	$5.4^{+0.1}_{-0}$ (.213)	47-106
M4 or 8-32	$6.8^{+0.08}_{-0.04}$ (.266)	47-108
10-32	$6.8^{+0.08}_{-0.04}$ (.266)	47-110
M5	$6.8^{+0.08}_{-0.04}$ (.266)	47-115
M6 or 1/4-20	$8.2^{+0.1}_{-0}$ (.323)	47-125

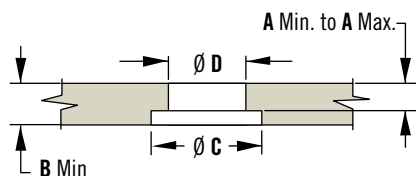
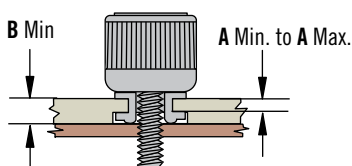
Notes: For use in material hardnesses RB85 or less, such as low carbon steels that are half hard or softer, stainless steels in the annealed condition and aluminum.

Floating Style

Panel preparation 1

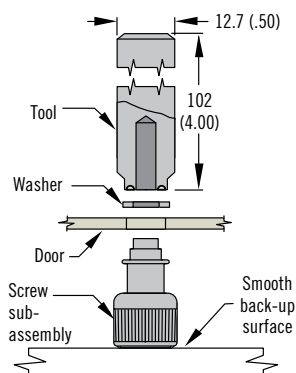


Panel preparation 2



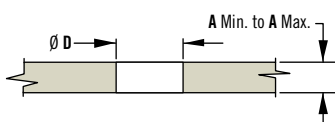
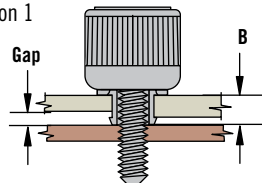
Thread Size	Tool Part Number
M3 or 4-40	47-04
M3.5 or 6-32	47-06
M4 or 8-32	47-08
M5 or 10-32	47-05
10-32	47-10
M6 or 1/4-20	47-25

Thread Size	ϕD +0.008 -0.03 (+0.003 -0.001)	Counterbore Min. ϕC
M3 or 4-40	6.4 (.250)	9.4 (.375)
M3.5 or 6-32	7.2 (.283)	10.5 (.413)
M4 or 8-32	8.8 (.346)	12 (.469)
M5 or 10-32	8.8 (.346)	12 (.469)
M6 or 1/4-20	10.5 (.413)	13.5 (.531)

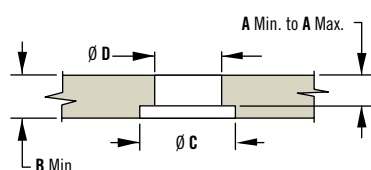
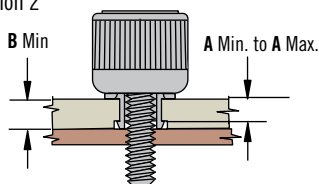


Snap-In Style

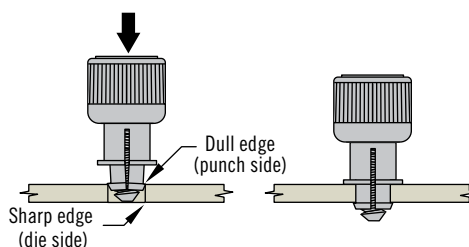
Panel preparation 1



Panel preparation 2



Thread Size	ϕD +0 -0.1 ($\pm .002$)	Counterbore Min. ϕC
M3.5 or 6-32	6.4 (.250)	7.5 (.295)
M4 or 8-32	6.4 (.250)	7.5 (.295)
M5 or 10-32	6.4 (.250)	7.5 (.295)



Dimensions in millimeters (inch) unless otherwise stated

Installation Notes

Floating and Snap-in style:

Panel preparation 1:

Requires space between inner and outer panels.

Specify the fastener for panel thickness A to fall between the range A Min. to A Max.:

gap = B - A outer panel thickness

Panel preparation 2:

Counter bore the panel

(B = Min. panel thickness) to a thickness (A) between the range of A Min. and A Max.

Minimum bore depth =
panel thickness - A Max.

For gap = ϕ , panel thickness must be $\geq$ to B value (before counterbore) for the given part number

Notes

B and A Max. values are provided in the corresponding fastener selection tables for each part number

If holes are drilled, top edge of hole should be chamfered