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ST-8A Hinge

Position control · Constant torque

- **Holds in every position**
- **No adjustment required**
- **Long cycle life**

Material and Finish

Zinc alloy, black paint

Performance Details

Cycle performance
20,000 cycles within ±20% of static torque specification

Installation Notes

Thread stud install with M3 nuts (not supplied)

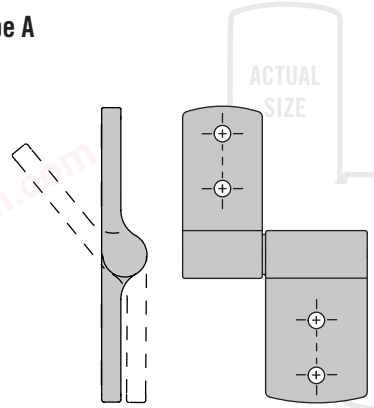
Thru hole install with M3 (No. 4) screws (not supplied)

To ensure proper function, assembly must include a minimum of one Type **A** and one Type **B** hinge

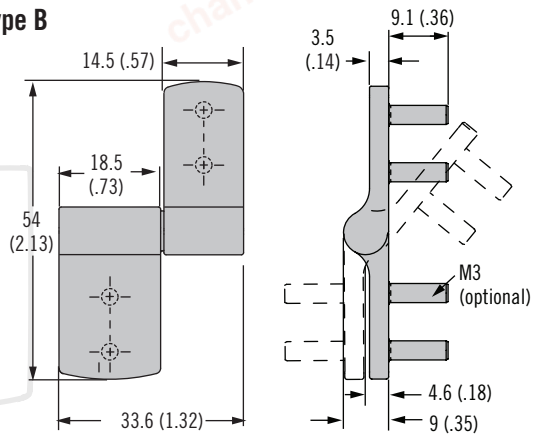
Part Number

See table

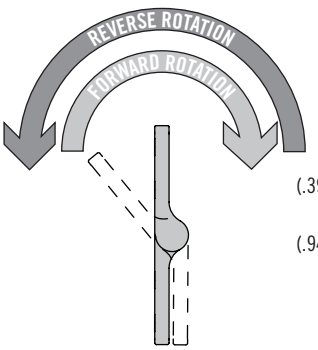
Type A



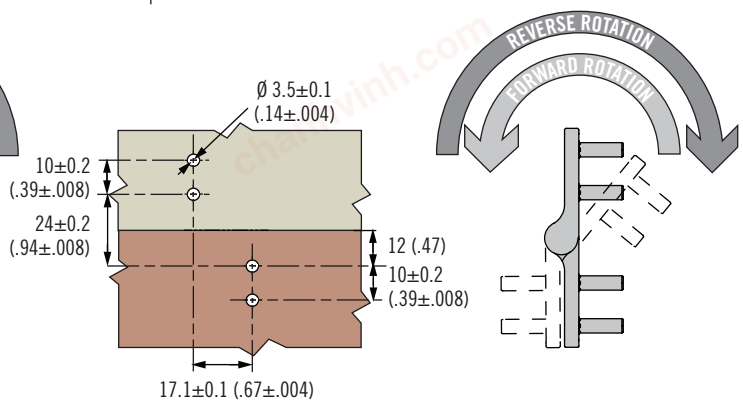
Type B



Thru Hole Version Shown



Thread Stud Version Shown



Symmetric Torque Version				
Part Number				Static Torque (forward and reverse) N•m (in•lbf)
M3 Thread Stud		Thru Hole		
Type A	Type B	Type A	Type B	
ST-8A1-40SA-50	ST-8A1-40SB-50	ST-8A-40SA-50	ST-8A-40SB-50	0.45 (4)
ST-8A1-60SA-50	ST-8A1-60SB-50	ST-8A-60SA-50	ST-8A-60SB-50	0.68 (6)
ST-8A1-80SA-50	ST-8A1-80SB-50	ST-8A-80SA-50	ST-8A-80SB-50	0.9 (8)

Asymmetric Torque Version					
Part Number				Forward Torque N•m (in•lbf)	Reverse Torque N•m (in•lbf)
M3 Thread Stud		Thru Hole			
Type A	Type B	Type A	Type B		
ST-8A1-40FA-50	ST-8A1-40FB-50	ST-8A-40FA-50	ST-8A-40FB-50	0.45 (4)	0.27 (2.4)
ST-8A1-60FA-50	ST-8A1-60FB-50	ST-8A-60FA-50	ST-8A-60FB-50	0.68 (6)	0.41 (3.6)
ST-8A1-80FA-50	ST-8A1-80FB-50	ST-8A-80FA-50	ST-8A-80FB-50	0.90 (8)	0.54 (4.8)
ST-8A1-100FA-50	ST-8A1-100FB-50	ST-8A-100FA-50	ST-8A-100FB-50	1.13 (10)	0.68 (6)
ST-8A1-40RA-50	ST-8A1-40RB-50	ST-8A-40RA-50	ST-8A-40RB-50	0.27 (2.4)	0.45 (4)
ST-8A1-60RA-50	ST-8A1-60RB-50	ST-8A-60RA-50	ST-8A-60RB-50	0.41 (3.6)	0.68 (6)
ST-8A1-80RA-50	ST-8A1-80RB-50	ST-8A-80RA-50	ST-8A-80RB-50	0.54 (4.8)	0.9 (8)
ST-8A1-100RA-50	ST-8A1-100RB-50	ST-8A-100RA-50	ST-8A-100RB-50	0.68 (6)	1.13 (10)

Dimensions in millimeters (inch) unless otherwise stated

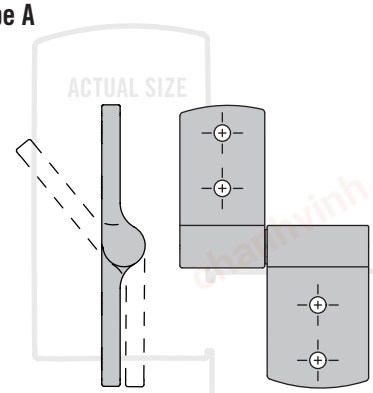
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ST-11A Hinge

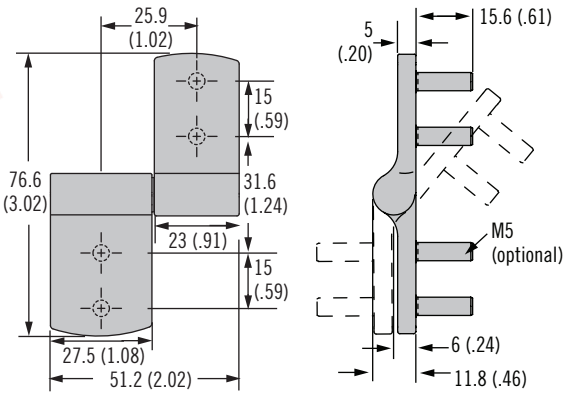
Position control · Constant torque



Type A

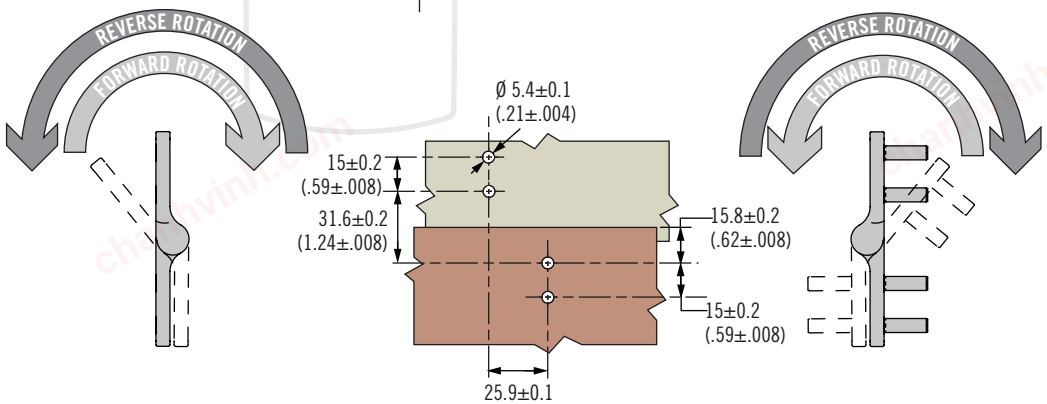


Type B



Thru Hole Version Shown

Thread Stud Version Shown



- **Holds in every position**
- **No adjustment required**
- **Long cycle life**

Material and Finish

Zinc alloy, black paint

Performance Details

Cycle performance
20,000 cycles within ±20% of static torque specification

Installation Notes

Thread stud install with M5 nuts (not supplied)

Thru hole install with M5 (No. 10) screws (not supplied)

To ensure proper function, assembly must include a minimum of one Type **A** and one Type **B** hinge

Part Number

See table

Symmetric Torque Version				
Part Number				Static Torque (forward and reverse) N•m (in•lbf)
M5 Thread Stud		Thru Hole		
Type A	Type B	Type A	Type B	
ST-11A1-140SA-50	ST-11A1-140SB-50	ST-11A-140SA-50	ST-11A-140SB-50	1.58 (14)
ST-11A1-200SA-50	ST-11A1-200SB-50	ST-11A-200SA-50	ST-11A-200SB-50	2.26 (20)
ST-11A1-260SA-50	ST-11A1-260SB-50	ST-11A-260SA-50	ST-11A-260SB-50	2.94 (26)

Asymmetric Torque Version					
Part Number				Forward Torque N•m (in•lbf)	Reverse Torque N•m (in•lbf)
M5 Thread Stud		Thru Hole			
Type A	Type B	Type A	Type B		
ST-11A1-140FA-50	ST-11A1-140FB-50	ST-11A-140FA-50	ST-11A-140FB-50	1.58 (14)	0.95 (8.4)
ST-11A1-200FA-50	ST-11A1-200FB-50	ST-11A-200FA-50	ST-11A-200FB-50	2.26 (20)	1.36 (12)
ST-11A1-260FA-50	ST-11A1-260FB-50	ST-11A-260FA-50	ST-11A-260FB-50	2.94 (26)	1.76 (15.6)
ST-11A1-320FA-50	ST-11A1-320FB-50	ST-11A-320FA-50	ST-11A-320FB-50	3.62 (32)	2.17 (19.2)
ST-11A1-140RA-50	ST-11A1-140RB-50	ST-11A-140RA-50	ST-11A-140RB-50	0.95 (8.4)	1.58 (14)
ST-11A1-200RA-50	ST-11A1-200RB-50	ST-11A-200RA-50	ST-11A-200RB-50	1.36 (12)	2.26 (20)
ST-11A1-260RA-50	ST-11A1-260RB-50	ST-11A-260RA-50	ST-11A-260RB-50	1.76 (15.6)	2.94 (26)
ST-11A1-320RA-50	ST-11A1-320RB-50	ST-11A-320RA-50	ST-11A-320RB-50	2.17 (19.2)	3.62 (32)

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ST-7A2 Hinge

Position control · Constant torque

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Maximum static radial load:
Type A/B: 400 N (90 lbf)
Type T/W: xxx N (xxx lbf)

Maximum static axial load:
Type A/B: 300 N (67 lbf)
Type T/W: xxx N (xxx lbf)

Cycle performance:
50,000 cycles within ±20% of static torque specification

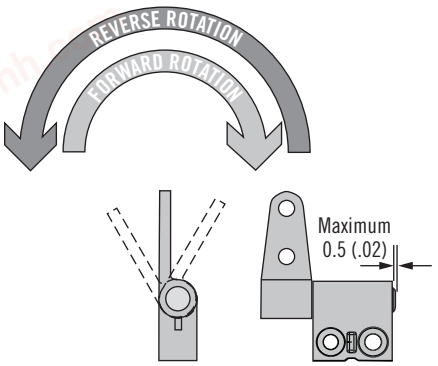
Installation Notes

1. Install hinge using No. 4 or M3 socket head cap screw.
2. For proper function, assembly must include a pair of hinges, mounted in opposing orientations.

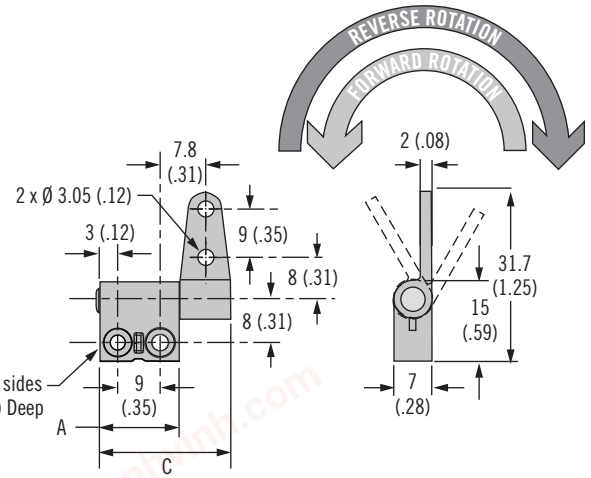
Part Number

See table on page 365

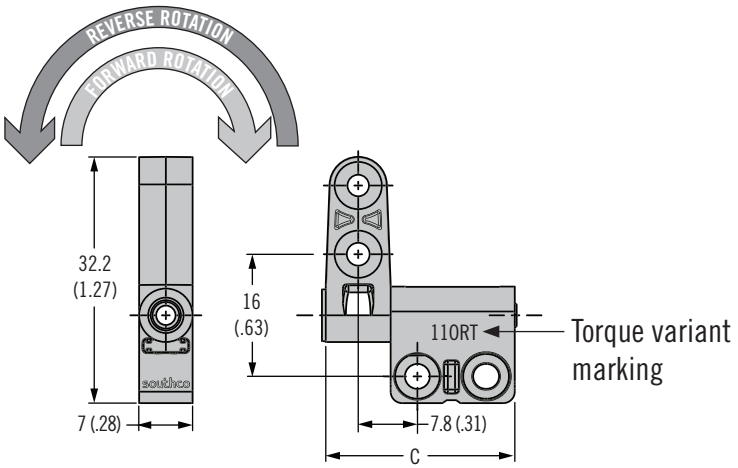
Type A - Low Profile Adapter (Handed with Type B)



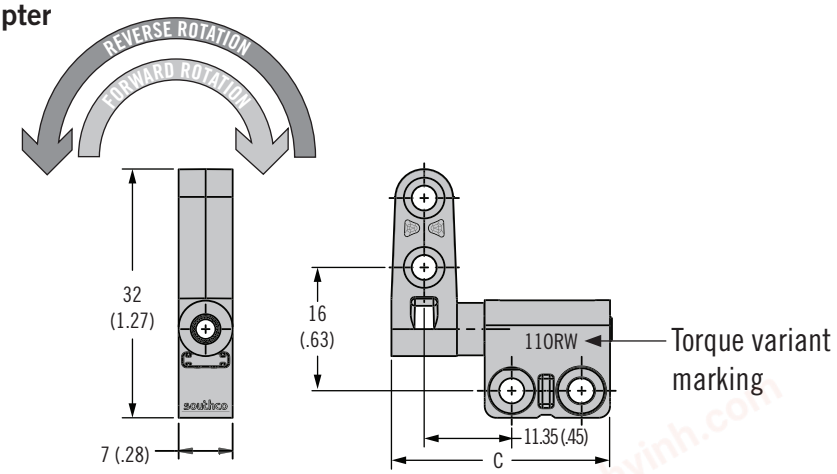
Type B



Type T - Heavy Duty Adapter



Type W - Offset Adapter



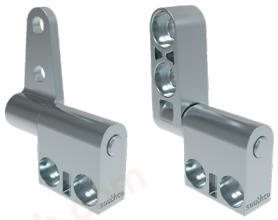
Dimensions in millimeters (inch) unless otherwise stated

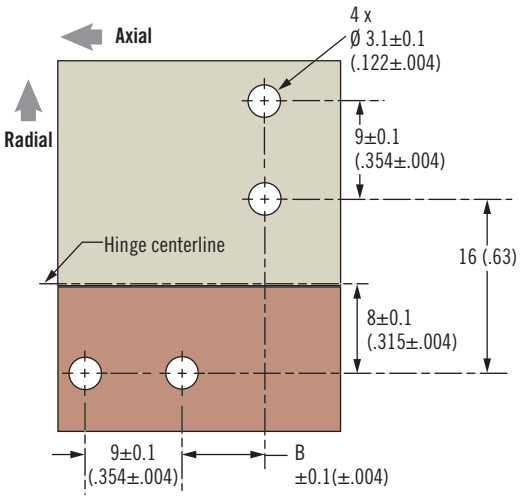
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ST-7A2 Hinge

Position control · Constant torque





		Low Profile Adapter		Heavy Duty Adapter		Offset Adapter	Static Torque Nm (in.lbf)	
		Type A	Type B	Type T		Type W		
Mount Hardware		No. 4	No. 4	No. 4	M3	M3 or No. 4	Forward	Reverse
Symmetric Torque		ST-7A2-30SA-33	ST-7A2-30SB-33	ST-7A2-30ST-33	ST-7A3-30ST-33	ST-7A3-30SW-33	0.34 (3)	
		ST-7A2-45SA-33	ST-7A2-45SB-33	ST-7A2-45ST-33	ST-7A3-45ST-33	ST-7A3-45SW-33	0.51 (4.5)	
		ST-7A2-60SA-33	ST-7A2-60SB-33	ST-7A2-60ST-33	ST-7A3-60ST-33	ST-7A3-60SW-33	0.68 (6)	
		-	-	ST-7A2-75ST-33	ST-7A3-75ST-33	ST-7A3-75SW-33	0.85 (7.5)	
		-	-	ST-7A2-90ST-33	ST-7A3-90ST-33	ST-7A3-90SW-33	1.0 (9)	
Asymmetric Torque		ST-7A2-30FA-33	ST-7A2-30FB-33	ST-7A2-30FT-33	ST-7A3-30FT-33	ST-7A3-30FW-33	0.34 (3)	0.29 (2.6)
		ST-7A2-40FA-33	ST-7A2-40FB-33	ST-7A2-40FT-33	ST-7A3-40FT-33	ST-7A3-40FW-33	0.45 (4)	0.36 (3.2)
		ST-7A2-50FA-33	ST-7A2-50FB-33	ST-7A2-50FT-33	ST-7A3-50FT-33	ST-7A3-50FW-33	0.56 (5)	0.45 (4)
		ST-7A2-60FA-33	ST-7A2-60FB-33	ST-7A2-60FT-33	ST-7A3-60FT-33	ST-7A3-60FW-33	0.68 (6)	0.52 (4.6)
		-	-	ST-7A2-70FT-33	ST-7A3-70FT-33	ST-7A3-70FW-33	0.79 (7)	0.6 (5.2)
		-	-	ST-7A2-90FT-33	ST-7A3-90FT-33	ST-7A3-90FW-33	1.02 (9)	0.75 (6.6)
		ST-7A2-30RA-33	ST-7A2-30RB-33	ST-7A2-30RT-33	ST-7A3-30RT-33	ST-7A3-30RW-33	0.29 (2.6)	0.34 (3)
		ST-7A2-40RA-33	ST-7A2-40RB-33	ST-7A2-40RT-33	ST-7A3-40RT-33	ST-7A3-40RW-33	0.36 (3.2)	0.45 (4)
		ST-7A2-50RA-33	ST-7A2-50RB-33	ST-7A2-50RT-33	ST-7A3-50RT-33	ST-7A3-50RW-33	0.45 (4)	0.56 (5)
		ST-7A2-60RA-33	ST-7A2-60RB-33	ST-7A2-60RT-33	ST-7A3-60RT-33	ST-7A3-60RW-33	0.52 (4.6)	0.68 (6)
		-	-	ST-7A2-70RT-33	ST-7A3-70RT-33	ST-7A3-70RW-33	0.6 (5.2)	0.79 (7)
		-	-	ST-7A2-90RT-33	ST-7A3-90RT-33	ST-7A3-90RW-33	0.75 (6.6)	1.02 (9)
Dimension	A	15 (.59)		15 (.59)	16.3 (.64)	16.3 (.64)		
	B	7.8 (.31)		7.8 (.31)		11.35 (.45)		
	C	25.2 (.99)		24.7 (.97)	26 (1.02)	28.7 (1.57)		

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Maximum static radial load:
Type A/B: 400 N (90 lbf)
Type T/W: xxx N (xxx lbf)

Maximum static axial load:
Type A/B: 300 N (67 lbf)
Type T/W: xxx N (xxx lbf)

Cycle performance:
50,000 cycles within ±20% of static torque specification

Installation Notes

1. Install hinge using No. 4 or M3 socket head cap screw.
2. For proper function, assembly must include a pair of hinges, mounted in opposing orientations.

Part Number

See table on page 365

Dimensions in millimeters (inch) unless otherwise stated

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ST-10A2 Hinge

Position control · Constant torque

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Maximum static radial load:
2300 N (517 lbf)

Maximum static axial load:
2400 N (540 lbf)

Cycle performance:
Type A/B: 30,000 cycles within ±20% of static torque specification
Type T/W: 50,000 cycles within ±20% of static torque specification

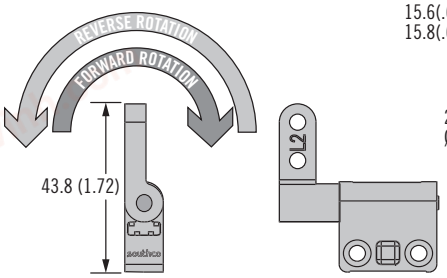
Installation Notes

1. Install hinge using M4 (No.8) socket head cap screw.
2. For proper function, assembly must include a pair of hinges, mounted in opposing orientations.

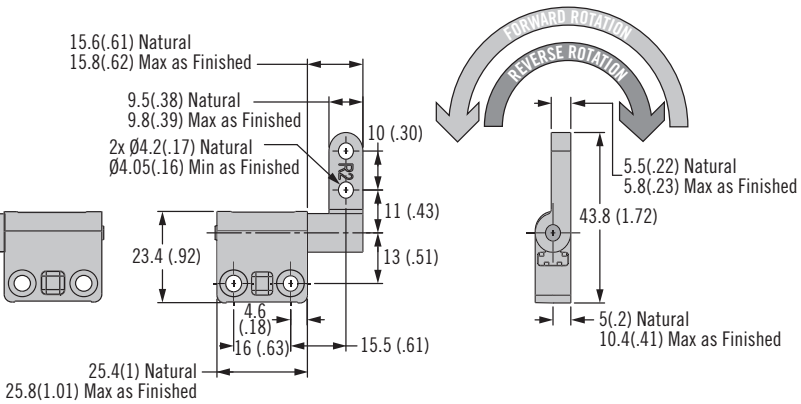
Part Number

See table

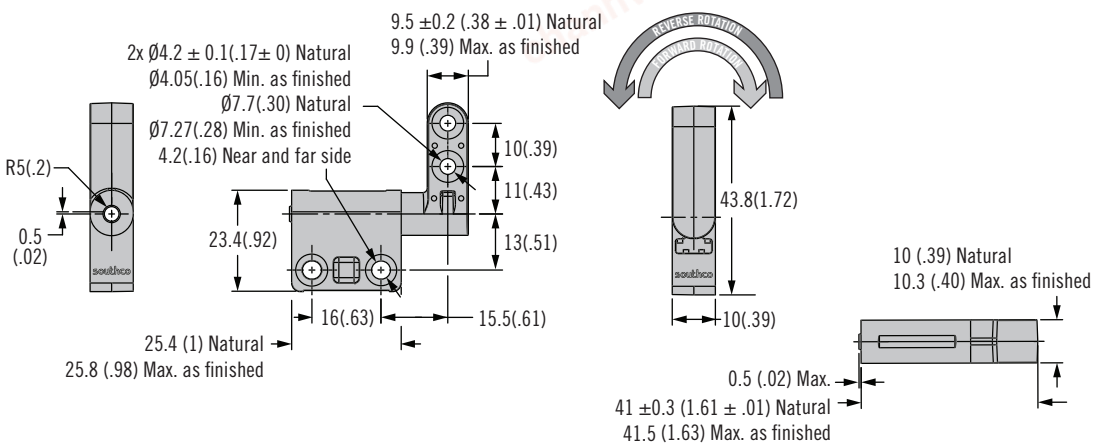
Type A Low Profile (Handed with Type B)



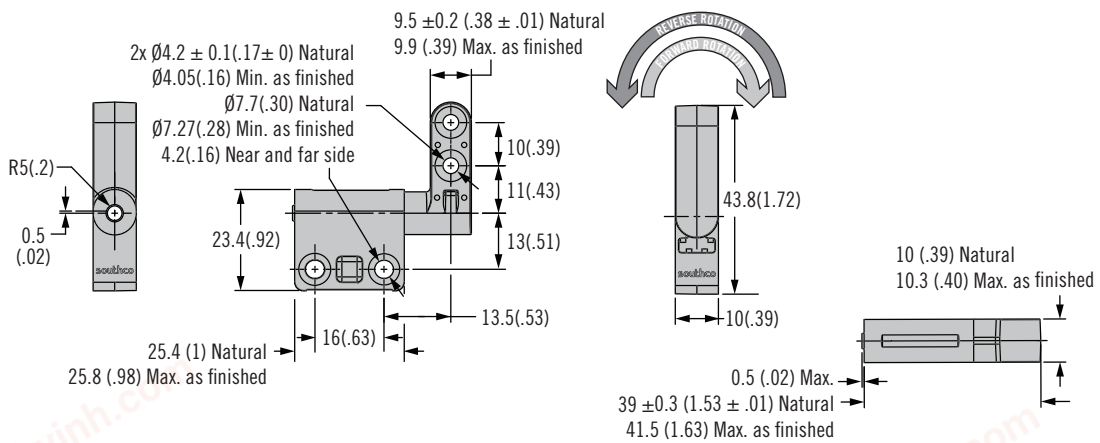
Type B



Type T Heavy Duty (Reversible)



Type W Heavy Duty Offset (Reversible)



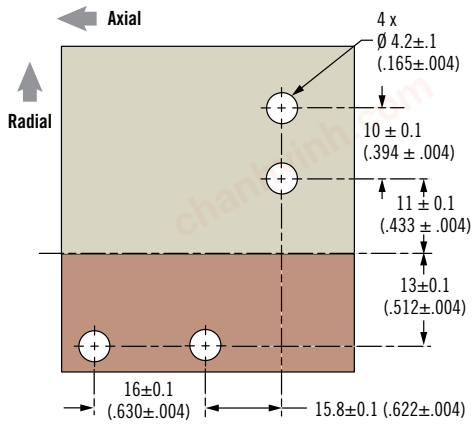
Dimensions in millimeters (inch) unless otherwise stated

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ST-10A2 Hinge

Position control · Constant torque





		Low Profile Adapter		Heavy Duty Adapter	Offset Adapter	Static Torque Nm (in.lbf)	
		Type A	Type B	Type T	Type W		
Mount Hardware		M4 or No. 8				Forward	Reverse
Symmetric Torque		ST-10A2-135SA-33	ST-10A2-135SB-33	ST-10A2-135ST-33	ST-10A2-135SW-33	1.36 (12)	
		ST-10A2-170SA-33	ST-10A2-170SB-33	ST-10A2-170ST-33	ST-10A2-170SW-33	1.70 (15)	
		ST-10A2-200SA-33	ST-10A2-200SB-33	ST-10A2-200ST-33	ST-10A2-200SW-33	2.04 (18)	
		-	-	ST-10A2-240ST-33	ST-10A2-240SW-33	2.38 (21)	
		-	-	ST-10A2-270ST-33	ST-10A2-270SW-33	2.72 (24)	
		-	-	ST-10A2-300ST-33	ST-10A2-300SW-33	3.06 (27)	
Asymmetric Torque		ST-10A2-115FA-33	ST-10A2-115FB-33	ST-10A2-115FT-33	ST-10A2-115FW-33	1.14 (10.1)	0.90 (8)
		ST-10A2-150FA-33	ST-10A2-150FB-33	ST-10A2-150FT-33	ST-10A2-150FW-33	1.52 (13.5)	1.20 (10.6)
		ST-10A2-190FA-33	ST-10A2-190FB-33	ST-10A2-190FT-33	ST-10A2-190FW-33	1.90 (16.8)	1.50 (13.3)
		ST-10A2-225FA-33	ST-10A2-225FB-33	ST-10A2-225FT-33	ST-10A2-225FW-33	2.28 (20.2)	1.80 (15.9)
		-	-	ST-10A2-270FT-33	ST-10A2-270FW-33	2.66 (23.5)	2.10 (18.6)
		-	-	ST-10A2-300FT-33	ST-10A2-300FW-33	3.04 (26.9)	2.40 (21.2)
		ST-10A2-115RA-33	ST-10A2-115RB-33	ST-10A2-115RT-33	ST-10A2-115RW-33	0.90 (8)	1.14 (10.1)
		ST-10A2-150RA-33	ST-10A2-150RB-33	ST-10A2-150RT-33	ST-10A2-150RW-33	1.20 (10.6)	1.52 (13.5)
		ST-10A2-190RA-33	ST-10A2-190RB-33	ST-10A2-190RT-33	ST-10A2-190RW-33	1.50 (13.3)	1.90 (16.8)
		ST-10A2-225RA-33	ST-10A2-225RB-33	ST-10A2-225RT-33	ST-10A2-225RW-33	1.80 (15.9)	2.28 (20.2)
		-	-	ST-10A2-270RT-33	ST-10A2-270RW-33	2.10 (18.6)	2.66 (23.5)
		-	-	ST-10A2-300RT-33	ST-10A2-300RW-33	2.40 (21.2)	3.04 (26.9)
Dimension	A	15.8 (.63)			13.5 (.53)		

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Maximum static radial load:
2300 N (517 lbf)

Maximum static axial load:
2400 N (540 lbf)

Cycle performance:
Type A/B: 30,000 cycles within ±20% of static torque specification
Type T/W: 50,000 cycles within ±20% of static torque specification

Installation Notes

1. Install hinge using M4 (No.8) socket head cap screw.
2. For proper function, assembly must include a pair of hinges, mounted in opposing orientations.

Part Number

See table

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ST-10E Hinge

Position control · Constant torque

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

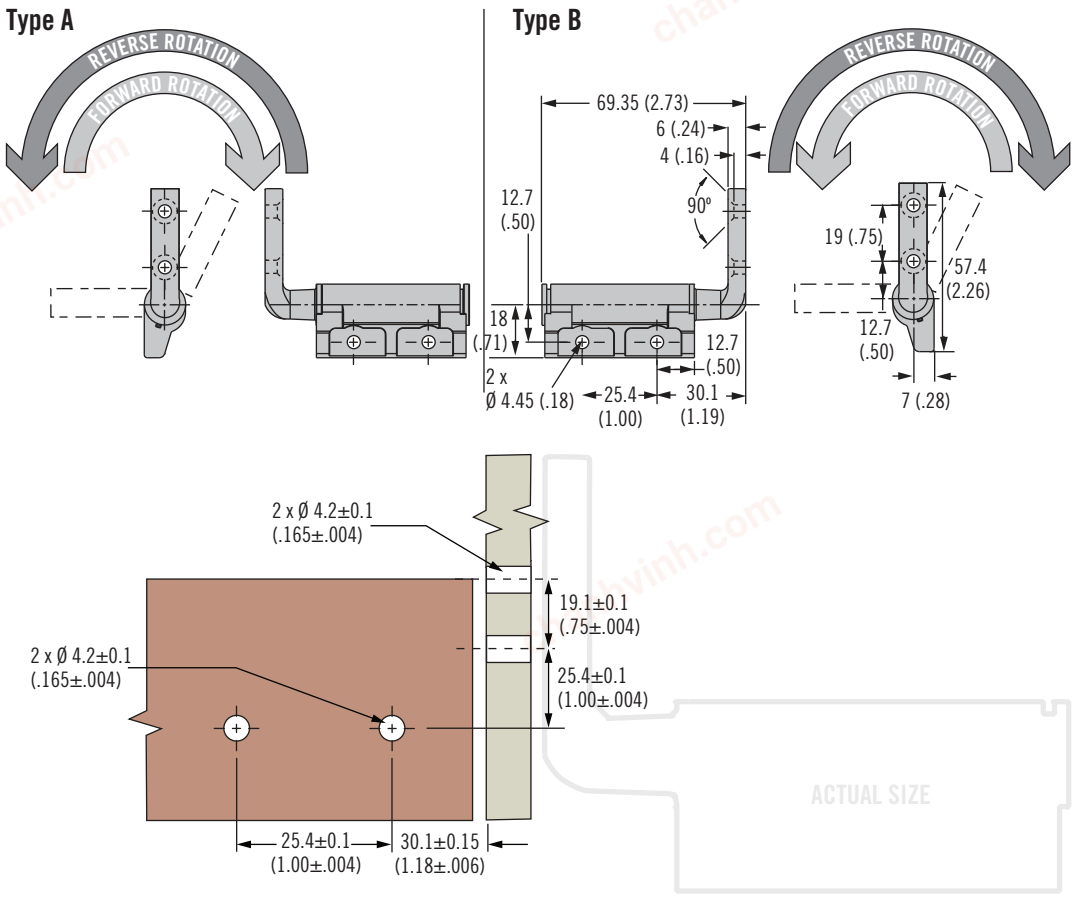
Cycle performance:
20,000 cycles within ±20% of static torque specification

Installation Notes

1. Install hinge using M4 (No.8) socket head cap screw.
2. For proper function, assembly must include(1) type A and (1) type B hinge.

Part Number

See table



Symmetric Torque Versions		
Part Number		Static Torque (Forward and Reverse) N·m (in·lbf)
Type A	Type B	
ST-10E-120SE-33	ST-10E-120SG-33	1.35 (12)
ST-10E-200SE-33	ST-10E-200SG-33	2.26 (20)
ST-10E-280SE-33	ST-10E-280SG-33	3.16 (28)
ST-10E-360SE-33	ST-10E-360SG-33	4.06 (36)

Asymmetric Torque Versions			
Part Number		Static Torque N·m (in·lbf)	
Type A	Type B	Forward N·m (in·lbf)	Reverse N·m (in·lbf)
ST-10E-200FE-33	ST-10E-200FG-33	2.26 (20)	1.35 (12)
ST-10E-280FE-33	ST-10E-280FG-33	3.16 (28)	2.26 (20)
ST-10E-360FE-33	ST-10E-360FG-33	4.06 (36)	2.44 (21.6)
ST-10E-440FE-33	ST-10E-440FG-33	4.97 (44)	2.93 (26)
ST-10E-200RE-33	ST-10E-200RG-33	1.35 (12)	2.26 (20)
ST-10E-280RE-33	ST-10E-280RG-33	2.26 (20)	3.16 (28)
ST-10E-360RE-33	ST-10E-360RG-33	2.44 (21.6)	4.06 (36)
ST-10E-440RE-33	ST-10E-440RG-33	2.93 (26)	4.97 (44)

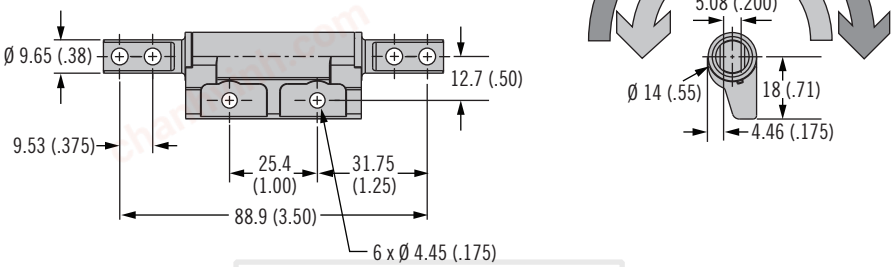
Dimensions in millimeters (inch) unless otherwise stated

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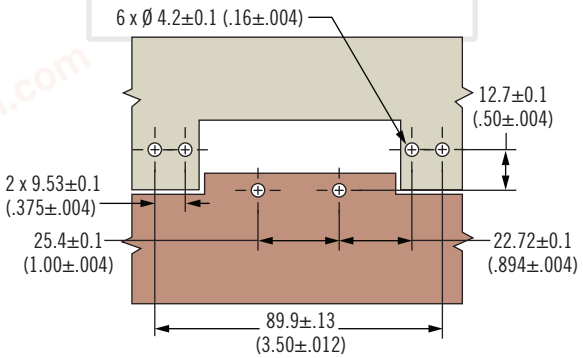
ST-10E Hinge

Position control · Constant torque





ACTUAL SIZE



- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Cycle performance:
20,000 cycles within ±20% of static torque specification

Installation Notes

Install hinge using M4 (No.8) socket head cap screw

Symmetric Torque Versions	
Part Number	**Static Torque (Forward and Reverse) N·m (in·lbf)**
ST-10E-120SH-33	1.35 (12)
ST-10E-200SH-33	2.26 (20)
ST-10E-280SH-33	3.16 (28)
ST-10E-360SH-33	4.06 (36)

Asymmetric Torque Versions		
Part Number	**Static Torque N·m (in·lbf)**	
	Forward N·m (in·lbf)	**Reverse N·m (in·lbf)**
ST-10E-200FH-33	2.26 (20)	1.35 (12)
ST-10E-280FH-33	3.16 (28)	1.89 (16.8)
ST-10E-360FH-33	4.06 (36)	2.44 (21.6)
ST-10E-440FH-33	4.97 (44)	2.93 (26)
ST-10E-200RH-33	1.35 (12)	2.26 (20)
ST-10E-280RH-33	1.89 (16.8)	3.16 (28)
ST-10E-360RH-33	2.44 (21.6)	4.06 (36)
ST-10E-440RH-33	2.93 (26)	4.97 (44)

Part Number

See table

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ST-10E Hinge

Position control · Constant torque

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Cycle performance:
20,000 cycles within ±20% of static torque specification

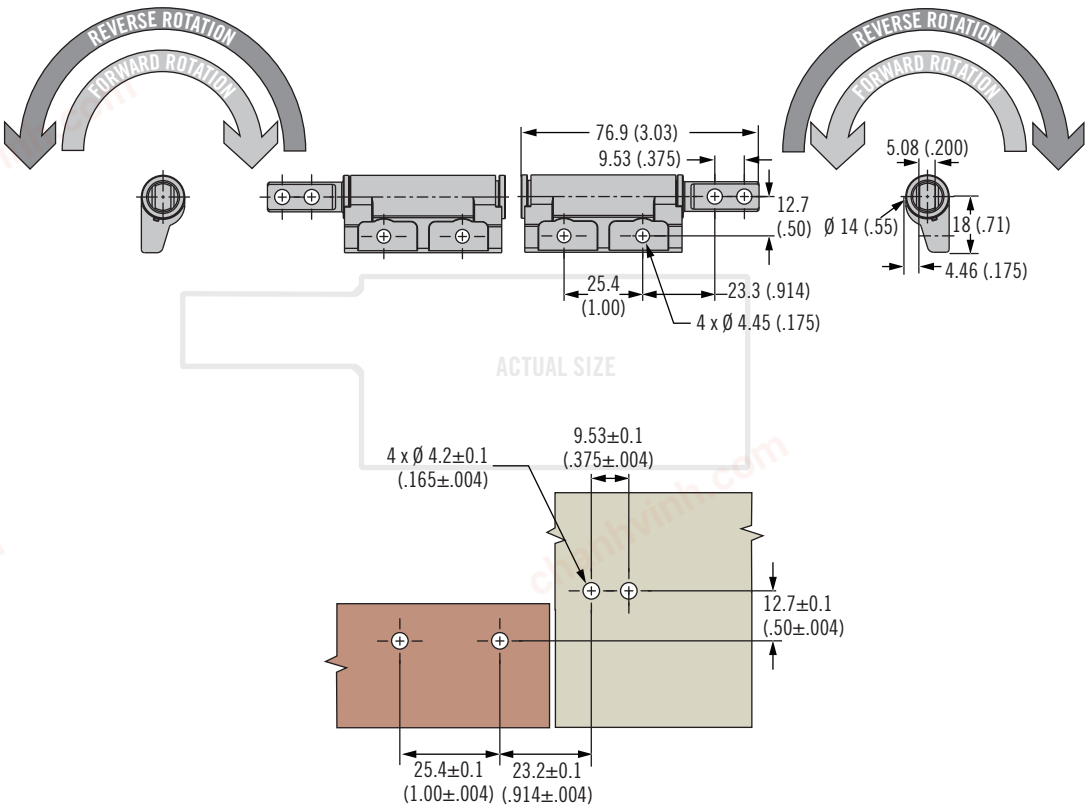
Installation Notes

1. Install hinge using M4 (No. 8 socket head cap screw.
2. For proper function, assembly must include (1) type A and (1) type B hinge.

Part Number

See table

Type A **Type B**



Symmetric Torque Versions		
Part Number		Static Torque (Forward and Reverse) N•m (in•lbf)
Type A	Type B	
ST-10E-120SJ-33	ST-10E-120SK-33	1.35 (12)
ST-10E-200SJ-33	ST-10E-200SK-33	2.26 (20)
ST-10E-280SJ-33	ST-10E-280SK-33	3.16 (28)
ST-10E-360SJ-33	ST-10E-360SK-33	4.06 (36)

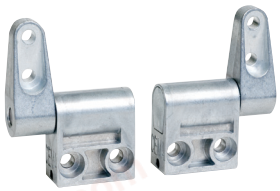
Asymmetric Torque Versions			
Part Number		Static Torque N•m (in•lbf)	
Type A	Type B	Forward N•m (in•lbf)	Reverse N•m (in•lbf)
ST-10E-200FJ-33	ST-10E-200FK-33	2.26 (20)	1.35 (12)
ST-10E-280FJ-33	ST-10E-280FK-33	3.16 (28)	1.89 (16.8)
ST-10E-360FJ-33	ST-10E-360FK-33	4.06 (36)	2.44 (21.6)
ST-10E-440FJ-33	ST-10E-440FK-33	4.97 (44)	2.93 (26)
ST-10E-200RJ-33	ST-10E-200RK-33	1.35 (12)	2.26 (20)
ST-10E-280RJ-33	ST-10E-280RK-33	1.89 (16.8)	3.16 (28)
ST-10E-360RJ-33	ST-10E-360RK-33	2.44 (21.6)	4.06 (36)
ST-10E-440RJ-33	ST-10E-440RK-33	2.93 (26)	4.97 (44)

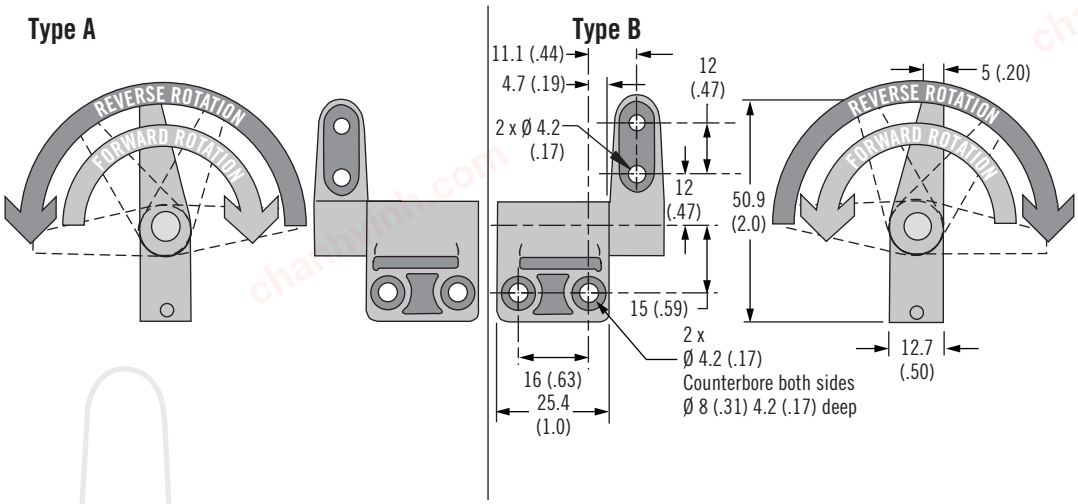
Dimensions in millimeters (inch) unless otherwise stated

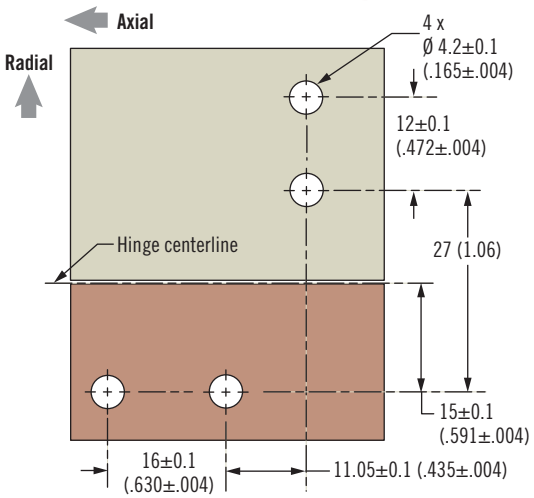
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ST-12A Hinge

Position control · Constant torque







Symmetric Torque Versions		
Part Number		Static Torque (Forward and Reverse) N·m (in·lbf)
Type A	Type B	
ST-12A-120SA-33	ST-12A-120SB-33	1.4 (12)
ST-12A-200SA-33	ST-12A-200SB-33	2.3 (20)
ST-12A-280SA-33	ST-12A-280SB-33	3.2 (28)
ST-12A-360SA-33	ST-12A-360SB-33	4.1 (36)

Asymmetric Torque Versions			
Part Number		Static Torque N·m (in·lbf)	
Type A	Type B	Forward N·m (in·lbf)	Reverse N·m (in·lbf)
ST-12A-200FA-33	ST-12A-200FB-33	2.3 (20)	1.5 (13.6)
ST-12A-280FA-33	ST-12A-280FB-33	3.2 (28)	2.2 (19.1)
ST-12A-360FA-33	ST-12A-360FB-33	4.1 (36)	2.8 (24.6)
ST-12A-440FA-33	ST-12A-440FB-33	5 (44)	3.4 (30)
ST-12A-200RA-33	ST-12A-200RB-33	1.5 (13.6)	2.3 (20)
ST-12A-280RA-33	ST-12A-280RB-33	2.2 (19.1)	3.2 (28)
ST-12A-360RA-33	ST-12A-360RB-33	2.8 (24.6)	4.1 (36)
ST-12A-440RA-33	ST-12A-440RB-33	3.4 (30)	5 (44)

- **Smooth, zero backlash operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Radial load:
Maximum static load:
1000 N (225 lbf)

Axial load:
Maximum static load:
1200 N (270 lbf)

Cycle performance:
20,000 cycles within ±20% of static torque specification

Installation Notes

1. Install hinge using M4 (No. 8) socket head cap screw.
2. For proper function, assembly must include (1) type A and (1) type B hinge.

Part Number

See table

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ST-4A , ST-5A, ST-10P Hinge

Position control · Constant torque

- **Smooth consistent operation**
- **Compact design fits the smallest applications**
- **Never requires adjustment**

Material and Finish

Aluminum, zinc alloy and steel, natural

Performance Details

Cycle performance:
20,000 cycles, see trade drawing at southco.com for details

ST-4A
Radial load:
Maximum static load:
200 N (45 lbf)

ST-5A
Radial load:
Maximum static load:
223 N (50 lbf)

ST-10P
Radial load:
Maximum static load:
400N

Part Number

See table



Part Number	Static Torque		X	Y
	Forward N•m (in•lbf)	Reverse N•m (in•lbf)		
ST-4A-3S-33	0.03 (0.3)		3.5 (.14)	3.5 (.14)
ST-4A-8S-33	0.08 (0.75)		9.5 (.37)	9.5 (.37)
ST-5A-10S-33	0.11 (1.0)		4.15 (.163)	7.4 (.291)
ST-5A-16S-33	0.18 (1.6)			
ST-5A-23S-33	0.26 (2.3)			
ST-5A-30S-33	0.34 (3.0)			
ST-10P-040S-33	0.45 (4)		9 (.35)	20.5 (.81)
ST-10P-080S-33	0.9 (8)			
ST-10P-100S-33	1.13 (10)			
ST-10P-140S-33	1.58 (14)			
ST-10P-040R-33	0.32 (2.8)	0.45 (4)		
ST-10P-080R-33	0.63 (5.6)	0.9 (8)		
ST-10P-120R-33	0.95 (8.4)	1.36 (12)		
ST-10P-160R-33	1.27 (11.2)	1.81 (16)		
ST-10P-040F-33	0.45 (4)	0.32 (2.8)		
ST-10P-080F-33	0.9 (8)	0.63 (5.6)		
ST-10P-120F-33	1.36 (12)	0.95 (8.4)		
ST-10P-160F-33	1.81 (16)	1.27 (11.2)		

Dimensions in millimeters (inch) unless otherwise stated

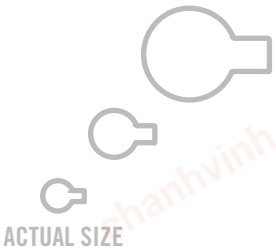
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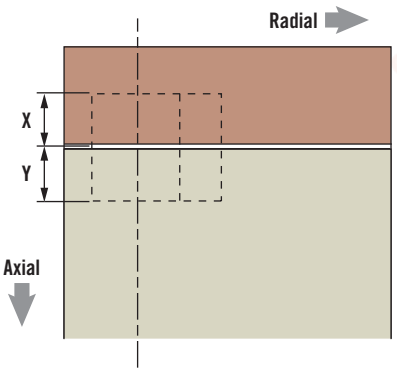
ST-4A, ST-5A, ST-10P Hinge

Position control · Constant torque

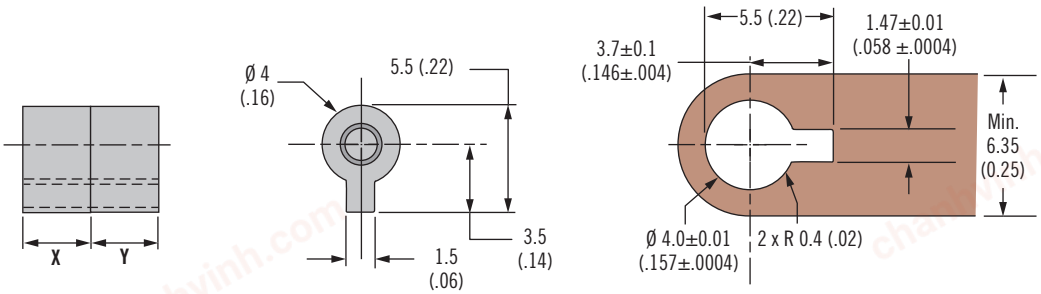


- Smooth consistent operation
- Compact design fits the smallest applications
- Never requires adjustment

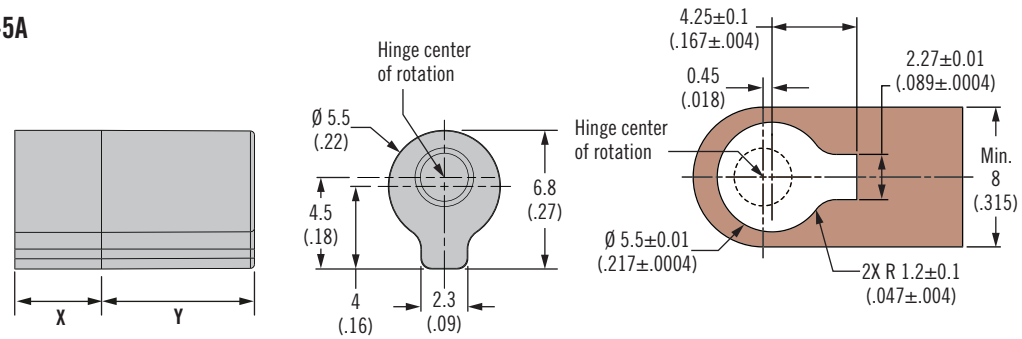




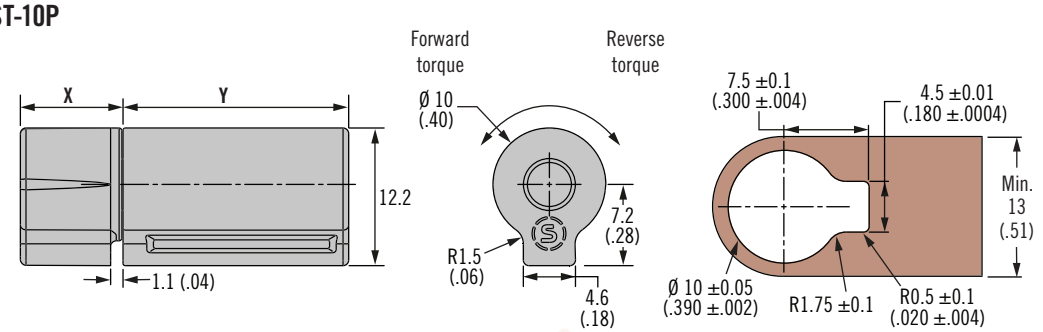
ST-4A



ST-5A



ST-10P



Part Number

See table

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ST-20L Hinge

Position control · Constant torque · Press-in · Nut mounting

- **Smooth operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

Material and Finish

Zinc alloy and steel, natural

Performance Details

Radial load:

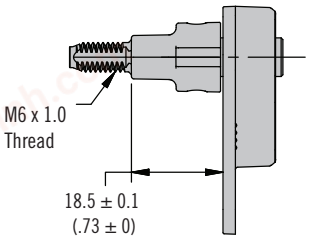
Maximum static load: 400 N (90 lbf)

Axial load:

Please note this hinge will not resist axial loads.

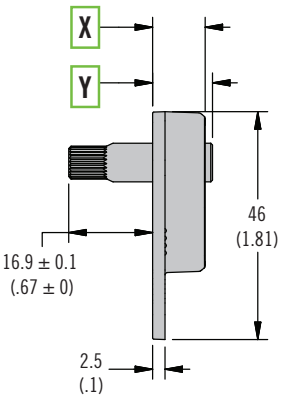
Cycle performance:

20,000 cycles within ±20% of static torque specification



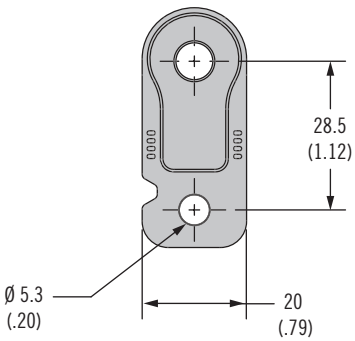
Nut mounting version

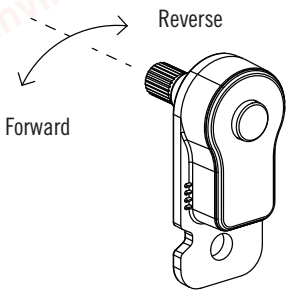
Tighten M6 nut (not supplied) to max 3.4Nm



Press-in version

Press shaft into mating hole in panel





Part Number

See table

	Part Number	Forward Torque Nm (ibf.in)	Reverse Torque Nm (ibf.in)	Dimension X mm (in)	Dimension Y mm (in)
Press-In	ST-20L-100FA/B-33	1.0 (8.9)	0.75 (6.6)	7.2 (.28)	8.8 (.35)
	ST-20L-100RA/B-33	0.75 (6.6)	1.0 (8.9)		
	ST-20L-200SA/B-33	1.75 (15.3)			
	ST-20L-300FA/B-33	3.0 (26.6)	2.3 (19.9)	8.9 (.35)	12.1 (.48)
	ST-20L-300RA/B-33	2.3 (19.9)	3.0 (26.6)		
	ST-20L-400SA/B-33	3.5 (31)		10.6 (.42)	
Nut Mount	ST-20L-100FJ/K-33	1.0 (8.9)	0.75 (6.6)	7.2 (.28)	8.8 (.35)
	ST-20L-100RJ/K-33	0.75 (6.6)	1.0 (8.9)		
	ST-20L-200SJ/K-33	1.75 (15.3)			
	ST-20L-300FJ/K-33	3.0 (26.6)	2.3 (19.9)	8.9 (.35)	12.1 (.48)
	ST-20L-300RJ/K-33	2.3 (19.9)	3.0 (26.6)		
	ST-20L-400SJ/K-33	3.5 (31)		10.6 (.42)	

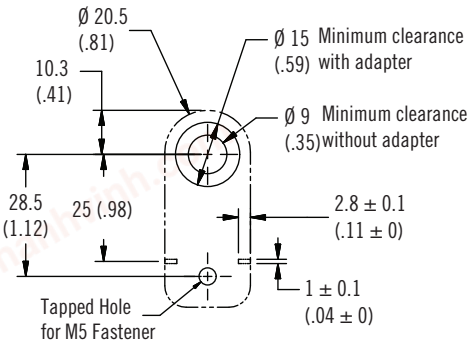
Dimensions in millimeters (inch) unless otherwise stated

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ST-20L Hinge

Position control · Constant torque · Panel Preparation



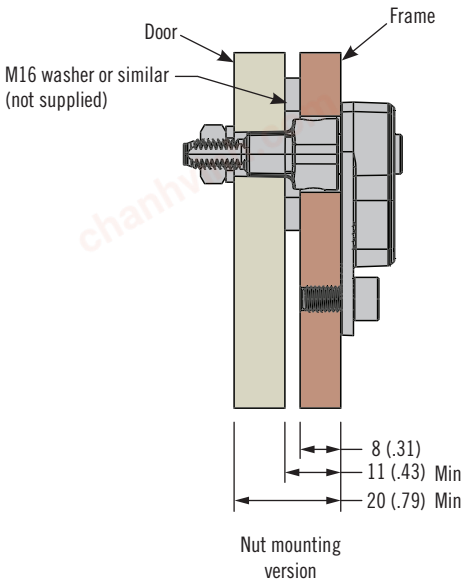


- **Smooth operation**
- **Space efficient design provides high torque in minimum space**
- **Constant torque, never needs adjusting**

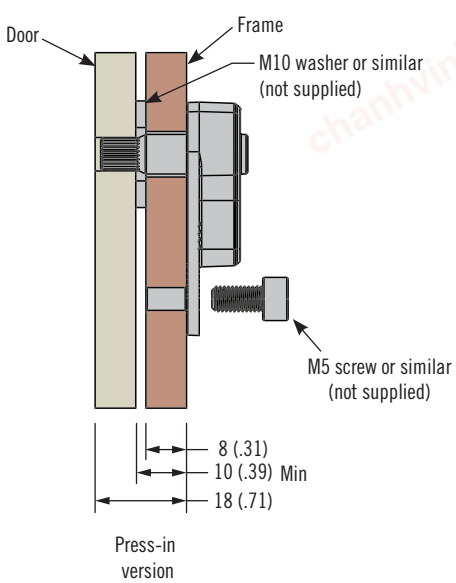
Installation Notes

1. Install hinge using M5 screw (not supplied)
2. For proper function, application should include a pair of hinges and constrain the system axially.
3. Hinge installation to frame or door may be reversed, but should be used as opposing pairs to avoid the hinge coming apart.
4. For alternative panel thicknesses and adaption to your application, please contact Southco
5. For panel preparation and installation details please refer to Southco trade drawing.

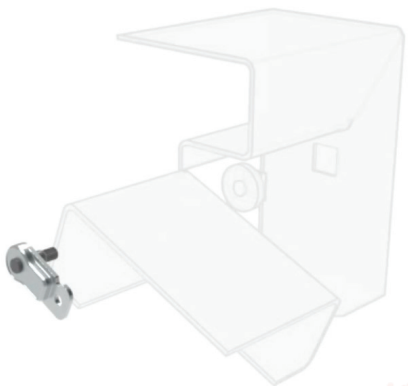
SIMPLIFIED INSTALLATION DETAILS



Nut mounting version



Press-in version





Dimensions in millimeters (inch) unless otherwise stated