



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 $\pm 20\%$ of static torque specification

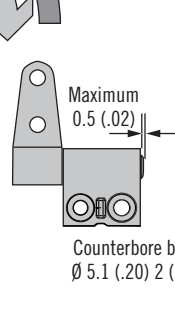
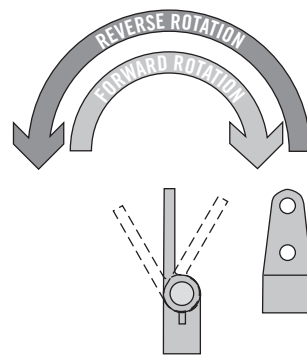
Installation Notes

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.

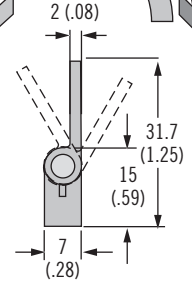
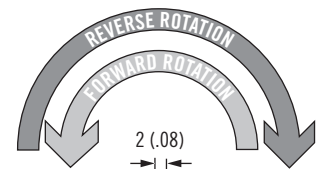
Part Number

See table on page 365

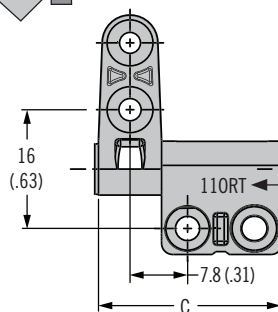
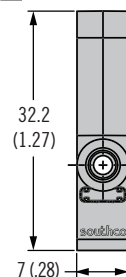
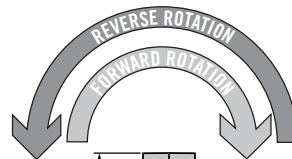
Type A - Low Profile Adapter (Handed with Type B)



Type B

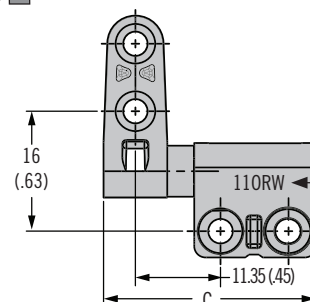
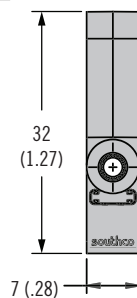
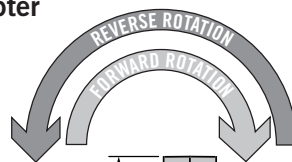


Type T - Heavy Duty Adapter



Torque variant marking

Type W - Offset Adapter



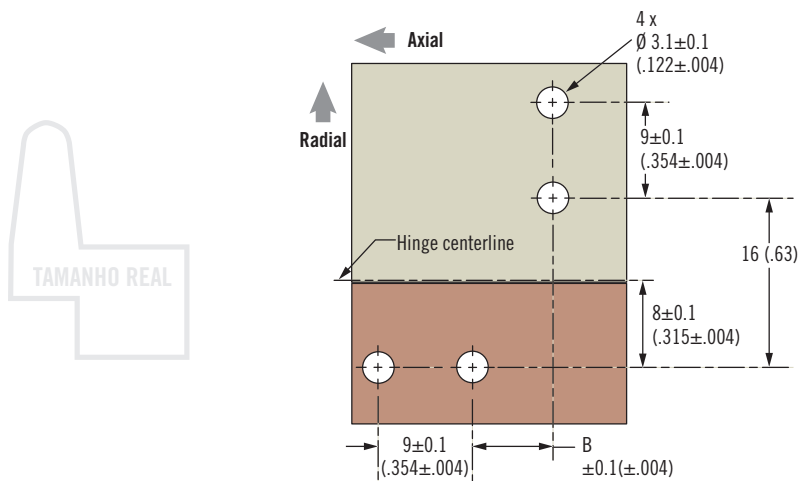
Torque variant marking

ST-7A2 Hinge

Position control · Constant torque



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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

	Low Profile Adapter		Heavy Duty Adapter		Offset Adapter	Static Torque Nm (in.lbf)	
	Type A	Type B	Type T		Type W	Forward	Reverse
Mount Hardware	No. 4	No. 4	No. 4	M3	M3 or No. 4		
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)		