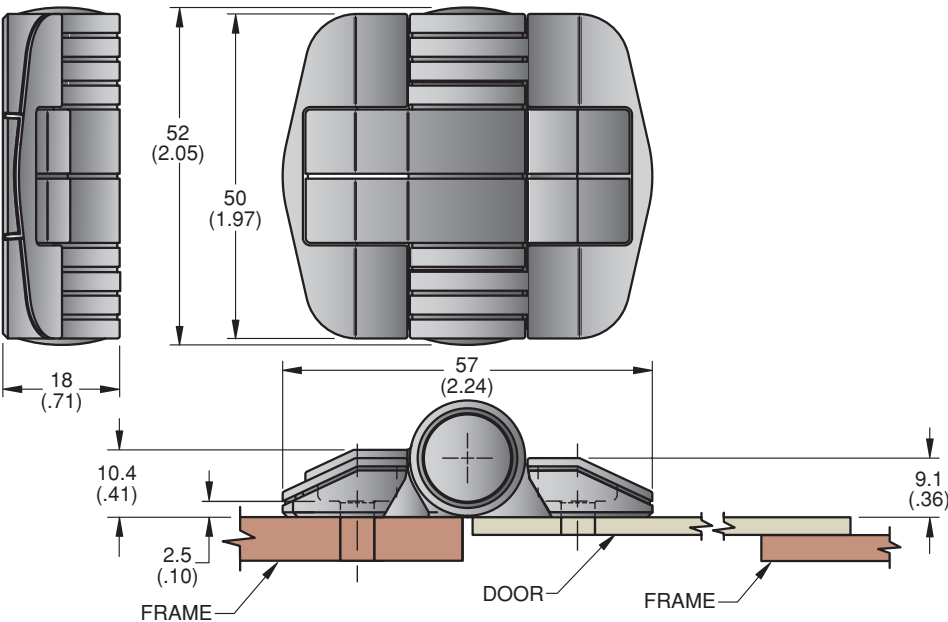


Southco® Hinges

Door-positioning Hinge

- Holds doors open without secondary mechanical support
- 3 positioning torques hold doors at 80°, 115° or 150°
- All versions can be further opened to 180°
- Free-swinging style available
- Secure, snap-on covers conceal mounting hardware

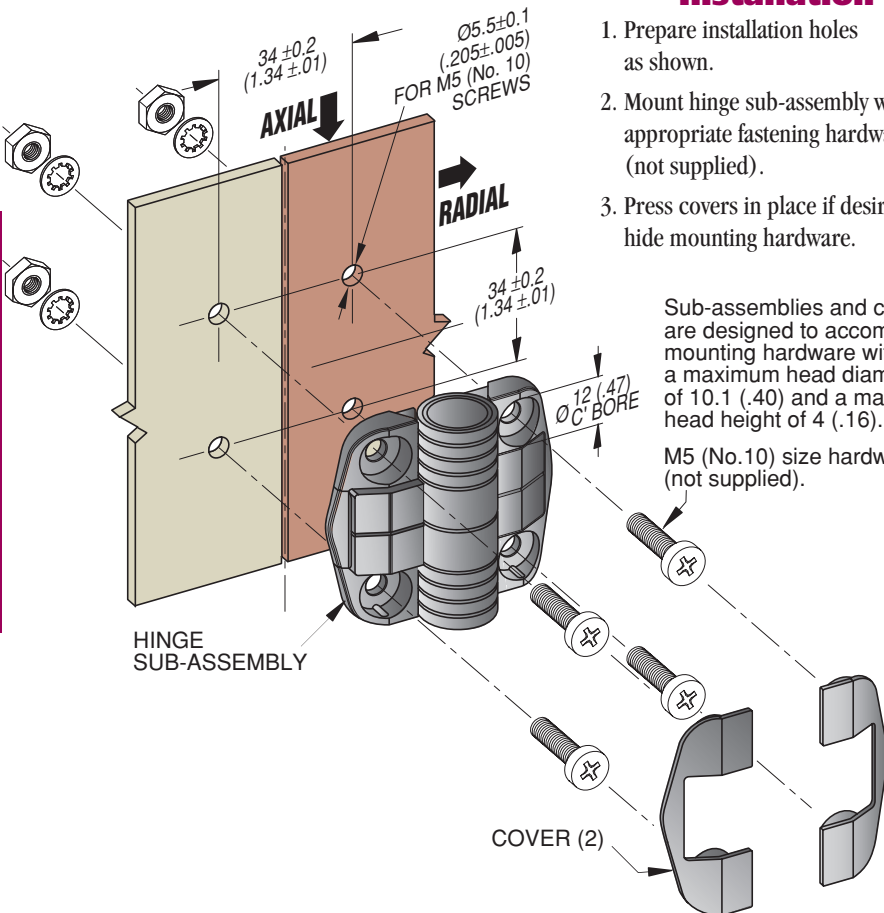


Installation

1. Prepare installation holes as shown.
2. Mount hinge sub-assembly with appropriate fastening hardware (not supplied).
3. Press covers in place if desired, to hide mounting hardware.

Sub-assemblies and covers are designed to accommodate mounting hardware with a maximum head diameter of 10.1 (.40) and a maximum head height of 4 (.16).

M5 (No.10) size hardware (not supplied).



Material and Finish

External components
HINGE LEAVES, RETAINING TAB, END PLUGS, and COVERS: Acetal, black.



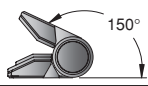

Flammability Rating: UL94-HB

Internal components

SPRINGS: 302 Stainless steel, natural.

DETENT BALLS: Chrome steel, zinc plate, chromate plus sealer.

DETENT TUBE: 1065 Steel hardened, zinc plate, chromate plus sealer, or 304 stainless steel passivated.

PART NUMBERS		POSITIONING TORQUE N•m (in. lbs.)	DETENTED OPEN ANGLE
Stainless Steel Detent tube	Hardened Steel Detent tube		
C6-21 •	C6-1 •	0.7 (6)	 80°
C6-22 •	C6-2 •	1.1 (10)	
C6-23 •	C6-3 •	1.7 (15)	
C6-24 •	C6-4 •	0.7 (6)	 115°
C6-25 •	C6-5 •	1.1 (10)	
C6-26 •	C6-6 •	1.7 (15)	
C6-27 •	C6-7 •	0.7 (6)	 150°
C6-28 •	C6-8 •	1.1 (10)	
C6-29 •	C6-9 •	1.7 (15)	
C6-20 •	C6-0 •	—	NO DETENTS 

Note: Part numbers shown consist of one sub-assembly and two covers, shipped separately, bulk.

Product Strength Guidelines

(To assist in your product selection; samples are available for your evaluation.)

RADIAL

Maximum working load - 450 N (100 lbs.)
Average ultimate load - 2600 N (575 lbs.)

AXIAL

Maximum working load - 450 N (100 lbs.)
Average ultimate load - 1800 N (400 lbs.)

CYCLE LIFE (stainless steel): Up to 5000
(steel): Up to 20,000

Operating Temperature Range:
-40°C (-40°F) To 80°C (180°F)

millimeter (inch)
millimeter
(inch)

Dimensions without tolerances are for reference only.



G6 Hinge

Position control · Detent

- Holds doors open without secondary mechanical support
- Detent holds door at 120° and 170°
- Can be opened to 180°

Material and Finish

Acetal and nylon, black

Performance Details

Radial load:

Maximum static load: 130 N (30 lbf)

Average ultimate load:

970 N (220 lbf)

Axial load:

Maximum static load: 130 N (30 lbf)

Average ultimate load:

1450 N (325 lbf)

Cycle life: 10,000 cycles

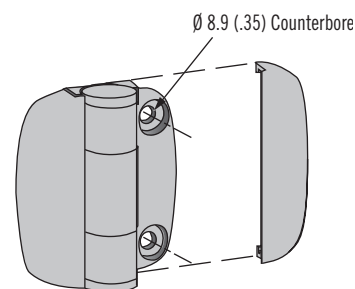
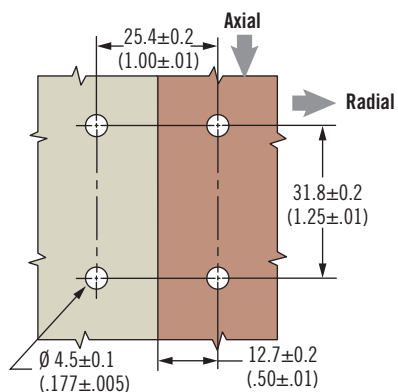
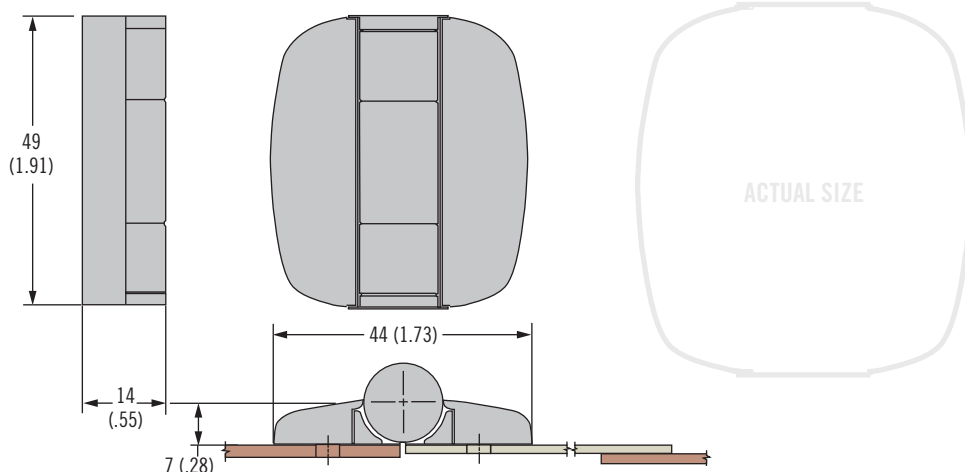
Operating temperature range:

-20 °C (0° F) to 80° C (180° F)

Installation Notes

Screws not supplied

Hinge designed to accommodate M4 (No. 8) size Pan Head mounting hardware.



Part Number

See table

Part Number	Detent Angle	Positioning Torque
G6-0-1	<p>Free swinging (no detents)</p>	~
G6-5-1		1.1 N·m (10 in·lbf)

Other options available. For complete details on variety, part numbers, installation and specification, go to



www.southco.com/G6

Dimensions in millimeters (inch) unless otherwise stated

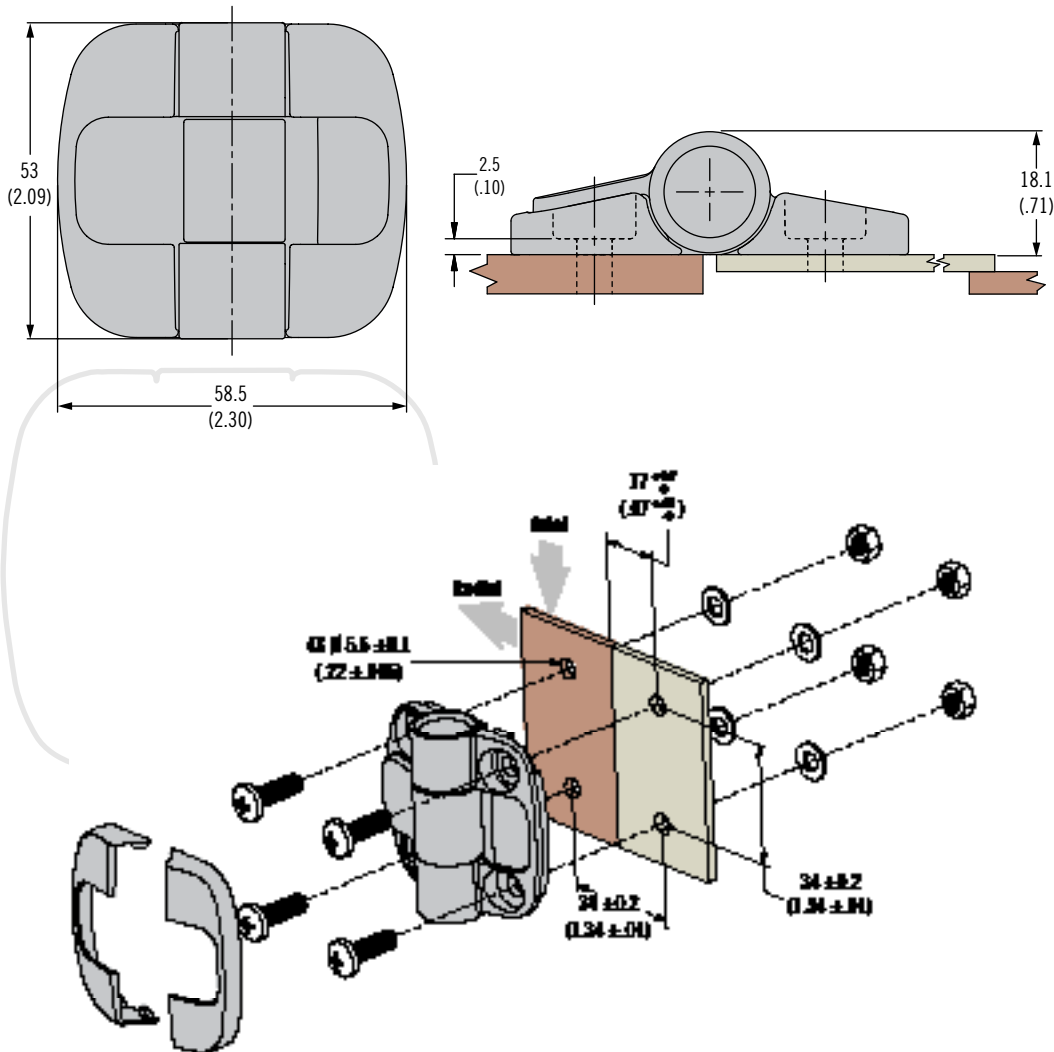
southco
CONNECT · CREATE · INNOVATE

C6 Hinge

Position control · Detent



345



- Holds doors open without secondary mechanical support
- Detents holds door at 80°, 115° or 150°
- All versions can be further opened to 180°

Material and Finish

Acetal, black

Internal components:

Stainless steel

Performance Details

Radial load:

Maximum static load:

450 N (100 lbf)

Average ultimate load:

2600 N (575 lbf)

Axial load:

Maximum static load:

450 N (100 lbf)

Average ultimate load:

1800 N (400 lbf)

Cycle life: Up to 20,000

Operating temperature range:

-40°C (-40°F) to 80°C (180°F)





Installation Notes

Mounting hardware not supplied.

Designed to accommodate M5 (No. 10) mounting hardware with a maximum head diameter of 10.1 (.40) and a maximum head height of 3 (.12).

Part Number

See table

Type	Positioning Torque N·m (in·lbf)	Part Number
 No Detents	Free operating	C6-220
 80 Degree	0.7 (6)	C6-221
	1.1 (10)	C6-222
	1.7 (15)	C6-223
 115 Degree	0.7 (6)	C6-224
	1.1 (10)	C6-225
	1.7 (15)	C6-226
 150 Degree	0.7 (6)	C6-227
	1.1 (10)	C6-228
	1.7 (15)	C6-229