

**Porta Series: Hinge 90° Glass to Glass**  
**Grazia Series: Hinge 90° Glass to Glass**

**Part Number:**

**Porta Series: 2603, POR-HGTG90 (Beveled)**  
**Grazia Series: 2613, GRA-HGTG90 (Squared)**

**Maximum Door Capacities**

Maximum Door Capacity	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
2 Hinges	90 lbs (41kg)	31 1/2" (800mm)	90 lbs (41kg)	31 1/2" (800mm)
3 hinges	130 lbs (59 kg)	36" (914mm)	130 lbs (59 kg)	36" (914mm)

**Important Information:**

This hinge is set for normal door closing operation. If you require the hinge to close 5° inward, (to put sealing pressure against a door stop for example), please refer to Figure. # 1 for information on converting the hinge pin to the 85° position. **DO NOT USE POWER TOOLS WHEN INSTALLING THESE HINGES.**

**Specifications:**

- Hinge can be used on 3/8" (10mm) or 1/2" (12mm) tempered safety glass.
- Hinge is made of solid brass and plated for protection
- Hinge is "self centering" within 25° of the closed position.
- Hinge requires a "mouse ear" style cut out which is shown on the back page.
- Hinge includes gaskets for either 3/8" 10mm or 1/2" 12mm glass thickness.

**Gaskets:**

- For 3/8" (10mm) glass thickness, use two thick gaskets, one on each side.
- For 1/2" (12mm) glass thickness, use two thin gaskets, one on each side.
- *It is RECOMMENDED that only Tempered Safety Glass is used with these hinges.*

**Maintenance:**

This hinge is greased at the factory and should require no maintenance other than keeping the outer surfaces of the hinge clean. Cleaning is outlined below. If the hinge should develop any squeaking, apply a drop or 2 of light oil like "3 in 1 Oil", to the white bushings located at each end of the hinge pin. The hinge does not need to be disassembled. **DO NOT USE ANY SPRAY LUBRICANT ON THIS HINGE.** This can cause contamination of the gaskets or glass compromising the grip of the hinge.

Should the hinge ever be disassembled, upon reassembly, use a lithium based grease to lubricate the springs, riders and hinge pin.

**Cleaning:**

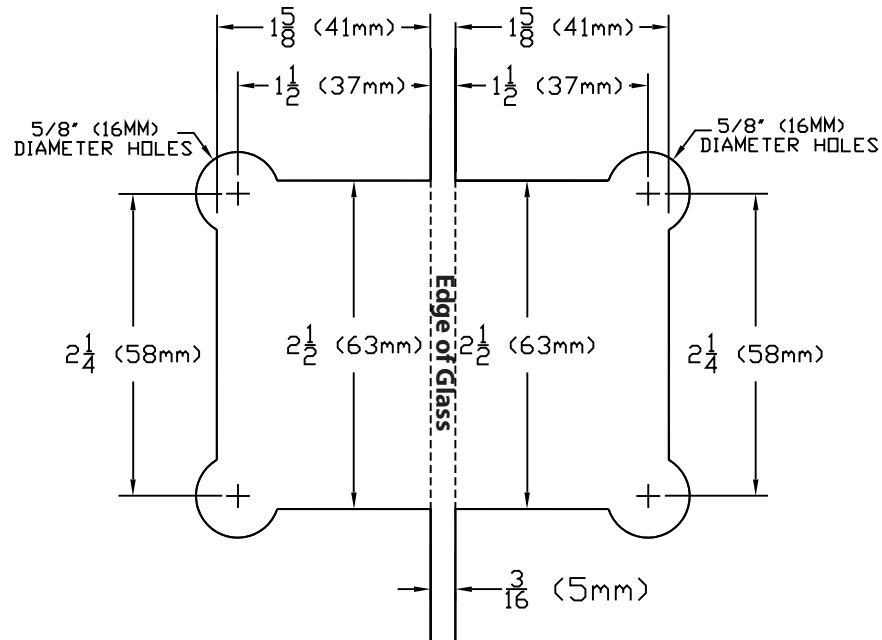
Never use industrial chemicals or chemicals that contain abrasives on the hinges as they can scratch and or damage the surface finish. Drying the hinges and other hardware on a daily basis is the best way to keep them looking new. If cleaning is required, use a soft cloth and a few drops of mild dish washing liquid in a cup of warm water. Rinse thoroughly with clean water and dry them so they don't spot.

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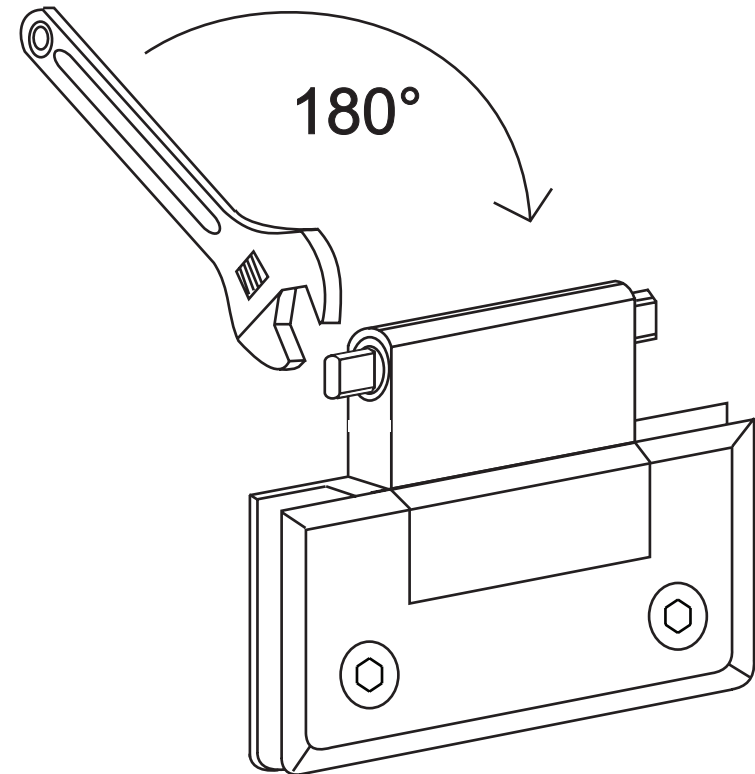
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**Figure #1 - Converting the hinge pin to the 85° position**



**IMPORTANT NOTE:**

**Project measurements from the edge of the glass.**

**\*\* THE HINGE CUT OUT DIAGRAM MAY NOT BE TO SCALE. IT IS FOR REFERENCE ONLY. \*\***