The V30501P and V40501P actuator brackets are designed to allow safe and reliable mounting of Electric and Pneumatic actuators on Colonial 3 & 4” FULL BLOCK™ True Union Ball Valves made after 1/1/2013. The bracket is mounted to the valve using a set of anchoring screws and nuts. Therefore, it can be mounted with the actuator and shipped as a complete assembly, or it can be field-mounted to an installed valve at a later date.

Parts included:
PVC Bracket and a set of anchoring screws and nuts

Parts sold separately:
True Union Ball Valve of your selection from the FULL BLOCK™ series
K11033 Stem Coupling

Parts to be furnished by user:
The four mounting bolts and washers needed to mount the actuator to the bracket. Colonial does not include these because the thread-type and bolt length may vary depending on the brand of actuator used. Minimum bolt length: 1”. Flat washers must be used to protect the plastic surface of the bracket.

Description: The bracket is molded from High Impact PVC (colored light gray), and is suitable for use on both PVC and CPVC ball valves, providing that the atmospheric temperature does not exceed 120 deg F. It is designed for use in the HORIZONTAL position (valve stem facing up), not for vertical (valve stem facing to the side) applications. The maximum allowable weight for the actuator is 25 lbs. The bracket and stem coupling comply with ISO 5211 F10 mounting (PCD of 102mm and 17mm square stem coupling).

Installation instructions:

1. Remove handle from valve. The handle is retained on the stem with a molded “snap-fit” rib, so removal requires some carefully applied force. Turn the handle so the valve is in the closed position. The valve body must be fixed (installed in piping or firmly secured to a bench). Hold one side of the handle and gently hammer the bottom of the handle on the other side with a rubber mallet. This will allow the handle to rise up on the stem and become free.

2. After you have freed the handle from the stem, place it loosely over the top of the stem again*, just enough to allow you to turn the stem back to the OPEN position. *or use an adjustable wrench over the flats of the stem.
3. Place the bracket over the top area of the body, allowing the molded “ears” on the body to mate with the slots on the sides of the bracket.

4. Use the supplied anchoring screws (#10 socket head cap screw) and nuts to secure the bracket to the valve body. Note – for the 4” bracket, there is a molded flat area on one side. Place the NUT at this location. The flat area will allow you to hold the nut with an open-end 3/8” wrench while turning the screw with a 5/32 Allen Wrench. The nuts have nylon inserts to prevent loosening from vibration. **Tighten the screws only until bracket is making contact with the ears on the body. Do NOT over-tighten.**

5. Place the stem coupling over the stem though the top of the bracket. You are now ready to mount the actuator of your choice.

**UNION NUT CONNECTIONS:** Tighten union nuts with the valve in the OPEN position. It is mandatory to avoid the misalignment of the mating pipes, as this can cause excess stress on the valve, and can create a false “hand-tight” condition. With proper alignment, all union nut connections for ½-2” plastic valves should be “hand-tight”. For valves 2” and larger, a strap wrench or approved union-nut wrench may be used to tighten the nut 1/10th turn maximum past hand-tight.

Climate conditions: PVC valves (and pipe & fittings) are pressure rated at 73 deg F, and must be de-rated as operating temperatures increase. Normally, we are referring to the fluid passing through the system, but in this case, we are also talking about the exterior environment. Once plastic pipe, valves and fittings are in a box and / or down hole, away from direct sunlight, they will be closer to ambient, so they can function at their rated pressure.

PVC & CPVC Valves and piping components exposed to direct sunlight can reach temperatures of up to 140 deg F. PVC is fully de-rated for pressure at 140 deg, and can start to mal-form when pressurized. So these components may be damaged and unusable after reaching this rate of heat.

Avoid storing valves in direct sunlight or very hot areas.
Avoid leaving valves exposed to sunlight in open trenches
Allow valves, pipe and fittings to cool and settle before pressurizing them with water.
These recommendations apply to any thermoplastic pipe, valves & fittings (PVC, or HDPE).