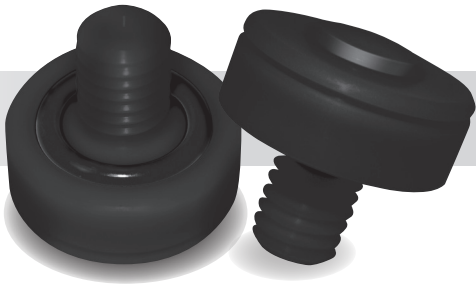


# Aria™ Valve Plus

Part Nr./Ref: CA200-AVP (US Threads)

Part Nr./Ref: CA200-AVPM (Metric Threads)



## INSTALLATION INSTRUCTIONS

The Aria Valve Plus features auto-expulsion function with a push button release. It may be used for a variety of prosthetic suction socket applications (BK, Symes, AK and upper limb) and is appropriate for installation into ALL prosthetic socket materials.

### INSTALLATION INTO THERMOPLASTIC MATERIALS

For installation into thermoplastic socket materials, use the enclosed Aria Valve Threaded Housing (Part Nr./Ref: CA200-TH/CA200-THM).

1. Determine location for valve placement on your cast model and flatten that area so that the threaded housing sits flush on the model.
2. Mark the location of the center hole of the threaded housing with a marker.
3. Drill a 4mm (5/32") pilot hole at the location of the mark. This will be the hole for the enclosed mounting screw used to secure the threaded housing onto the cast.
4. Drill a vacuum hole adjacent to the pilot hole. The vacuum hole should extend to the bottom of the cast model for optimal draw when vacuum forming.
5. Securely mount threaded housing onto the cast model using the enclosed mounting screw and then press the enclosed self-adhesive disc over the screw head.
6. Under vacuum, drape or blister mold thermoplastic material of choice. Be sure to guide the plastic material around the threaded housing to ensure that the plastic molds well around the shape of the housing.
7. Once plastic is cooled, use a disc sander to grind plastic enough to expose the self adhesive disc. Remove self adhesive disc and continue sanding slowly until you reach the top of the mounting screw, then remove the screw.
8. Screw the valve into the threaded housing until the valve sits flush against the outside of the socket wall. Determine trim length of threaded valve stem and mark.
9. Once marked, unscrew valve from the housing and sand the valve shank to the desired length.
10. **IMPORTANT-** After valve shank is trimmed, disassemble the valve by inserting a flat screw driver into the groove directly under the valve cap, gently twisting so that the cap pops off. Remove the spring, rubber diaphragm and vent spool. Use compressed air on valve and through valve stem to dislodge any debris that might have accumulated during the sanding process. Warm water may also be used if needed. After cleaning, replace vent spool, rubber diaphragm (plastic side up), center the spring then snap on the push button cap.
11. Apply silicone sealant around valve "O" ring before screwing valve into socket through threaded housing.

### INSTALLATION INTO PRE-EXISTING HARD SOCKETS

1. After hard socket construction is complete, determine appropriate location for valve and mark.
2. Drill square to the socket wall with a 5/16" (metric 8.4mm-8.5mm) drill bit. **MAKE SURE TO DRILL THE HOLE STRAIGHT, NOT AT AN ANGLE AS THIS COULD CAUSE VALVE SHANK TO SNAP WHEN SCREWING VALVE INTO THE SOCKET.**
3. Tap the hole using a 3/8"-16 tap for US threaded valve (M 10X1.5 tap for metric threaded valve)
4. Screw the valve into the hole until the valve is flush against the outside of the socket wall. Determine trim length of threaded valve stem and mark.
5. Once marked, unscrew valve from the socket and sand the valve shank to the desired length.
6. **IMPORTANT-** After valve shank is trimmed, disassemble the valve by inserting a flat screw driver into the groove directly under the valve cap, gently twisting so that the cap pops off. Remove the spring, rubber diaphragm and vent spool. Use compressed air on valve and through valve stem to dislodge any debris that might have accumulated during the sanding process. Warm water may also be used if needed. After cleaning, replace vent spool, rubber diaphragm (plastic side up), center the spring then snap on the push button cap.
7. Apply silicone sealant around valve "O" ring before screwing valve into socket.