

# Aria™ Valve

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

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



## INSTALLATION INSTRUCTIONS

The Aria Valve features auto-expulsion function. It may be used for all suction socket applications which incorporate a sealing sleeve 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 unscrewing the valve cap from valve in a counter clockwise direction. 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 then screw on cap in a clockwise direction.
11. Apply silicone sealant around valve "O" ring before screwing valve into socket thru 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 socket until the valve sits 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 unscrewing the valve cap from valve in a counter clockwise direction. 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 then screw on cap in a clockwise direction.
7. Apply silicone sealant around valve "O" ring before screwing valve into the socket.

### INSTRUCTIONS FOR REMOVING ARIA VALVE FROM SOCKET USING ARIA VALVE TOOL

To remove Aria Valve from socket, unscrew valve cap in a counter clockwise direction to remove it, exposing two holes on inside surface of valve body. Use the pronged end of the Aria Valve Tool and insert the two prongs into the two holes on inside surface of valve. Once prongs are engaged with the holes, use tool to easily unscrew valve from socket.



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