



# MyControl Bathing System Signature Series

Touch Assist Touch Pad and CM Technologies

## Seal Pressure Regulation Instructions

**Acceptable seal inflation pressure setting must be varified, and adjusted if necessary, before the bath system is used for the first time.**

**DO NOT ATTEMPT THE TESTING OR REGULATION OF SEAL WATER PRESSURE UNLESS YOU ARE A QUALIFIED PLUMBER AND HAVE A CLEAR UNDERSTAND OF HOW A PRESSURE REGULATOR AND GAUGE WORKS. Burst seal and damaged components are NOT covered by warranty.**

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## MyControl's Custom-fit Inflatable Seal Keeps Water In

Our seal manufacturing team includes individuals who were instrumental in the pioneering and development of inflatable seals as far back as the 1940's.

Since that time, these specialists continued to refine their craft in rubber technology and specialized products. These specialists have produced over 5,700 innovative products for use in a variety of applications.

### WHAT IS AN INFLATABLE SEAL?

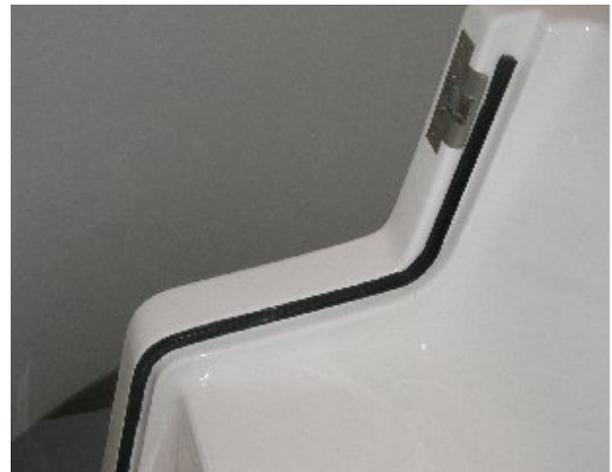
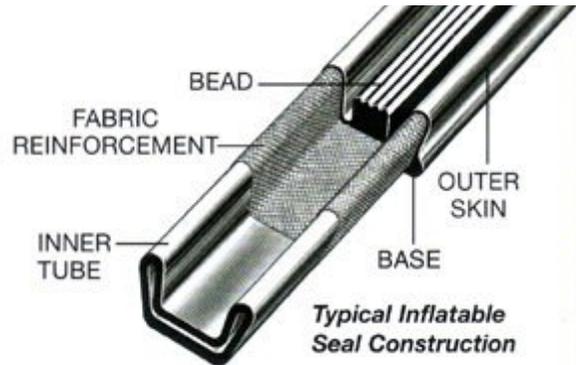
MyControl's inflatable seal is a fabric-reinforced elastomeric tube, custom molded in a concave, convoluted, or flat configuration. It is designed to round out with the introduction of an inflation medium to form a tight barrier between a mounting and striking surface. For example, MyControl's door seal inflates using water. The seal inflates between the door and the custom seal seat-groove, filling a 1/16" to 1/8" gap.

### HOW DOES THE MYCONTROL INFLATABLE SEAL WORK?

MyControl's door is made water tight by use of a custom designed and manufactured reinforced inflatable EPDM rubber seal. The door seal is filled and emptied using electric water solenoids and readily available tap water. Upon introduction of the inflation medium (water), the seal quickly expands to the striking surface (custom seal seat-groove), effecting a positive seal. When the inflation medium is removed, the seal retracts naturally to the deflated "memorized" configuration. This position provides a clearance for free movement of the door.

MyControl's inflatable seal isn't a simple rubber extrusion. The seal was designed and is built and molded to fit our particular application. This insures maximum structural integrity and reliability. The door seal rests in a tailored groove on the basin. The rubber seal inflates automatically, with the door latched (seated in the closed position) when water is detected in the bath's basin. The seal deflates when all water has completely evacuated from the basin. Because the door strikes won't release until all water has drained from the basin and the seal fills and drains via electric solenoids, even during a power outage the seal and door remain secure.

**Operation Note:** The door seal fills automatically when water is detected in the drain (drain in closed state). The seal inflation process has two parts to it. First part; the seal will fill to an adjustment pressure at first detection of water in the basin drain. Water sources (faucet; wall shower; hand shower) will flow water. Second part; all water sources (faucet; wall shower; hand shower) will be interrupted briefly while the seal adjusts to a final inflation pressure. All water features will be re-activated after completion of the final seal pressurization. Seal inflation process should only take approximately 3 to 4 seconds.



# Getting to know the seal pressure regulator and seal fill and drain network



Seal Regulator Shut-off valve. ABT's seal regulator shut-off valve is designed and manufactured to be trouble free for many years of service life. The shut-off valve is designed and manufactured in polypropylene, a high performance thermal plastic material. The shut-off valve is approved and certified to NSF-61. The quick-connect design allows for quick and easy tube connections without installation tools for a zero leak connection. Temperature and pressure max. 150 psi @70 Degrees F (10 bar @ 20 Degrees C) Max 60 psi @ 140 Degrees F (4 bar @ 60 Degrees C) Min. 33 Degrees F/1 Degrees C.

- ANSI/NSF-61 approved
- No tools needed to connect/disconnect tubing
- Fittings are made from FDA approved materials
- Reusable

## Exclusive O-ring Guide Design

All Quick-connect fittings used in MyControl incorporate an exclusive O-ring guide for improved reliability. This unique feature ensures zero-leak protection by:

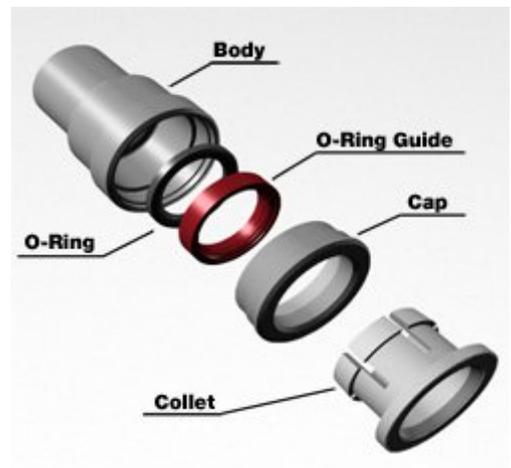
- Protecting the o-ring from damage during connection
- Increasing the connector's side load capacity
- Correctly aligning the tubing with the o-ring every time
- Preventing the o-ring from becoming dislodged

## Tube removal

Hold fitting end with thumb and index finger and push collar of fitting back into fitting while pulling outward on tubing.

## Install tubing

Push tubing into fitting until it bottoms out.



## Door seal pressurization

MyControl's door seal is pressurized using tap water supplied from the water valve network. The seal has its own special network of components that control inflation and deflation. Two of the various components are the water pressure regulator and the water pressure gauge. The seal must maintain a constant pressure to be effective. It is extremely important to make sure that the seal is receiving the correct water pressure. Too little pressure may cause the door to leak. Too much pressure may cause the seal to burst or damage the door components. MyControl Bathing System seal pressure is tested and set during manufacture and quality control testing. Although rare, changes in pressure setting may occur as a result of shipping vibrations. Follow the steps provided in this and any other recommended manuals to assess, and when necessary adjust, the water pressure.



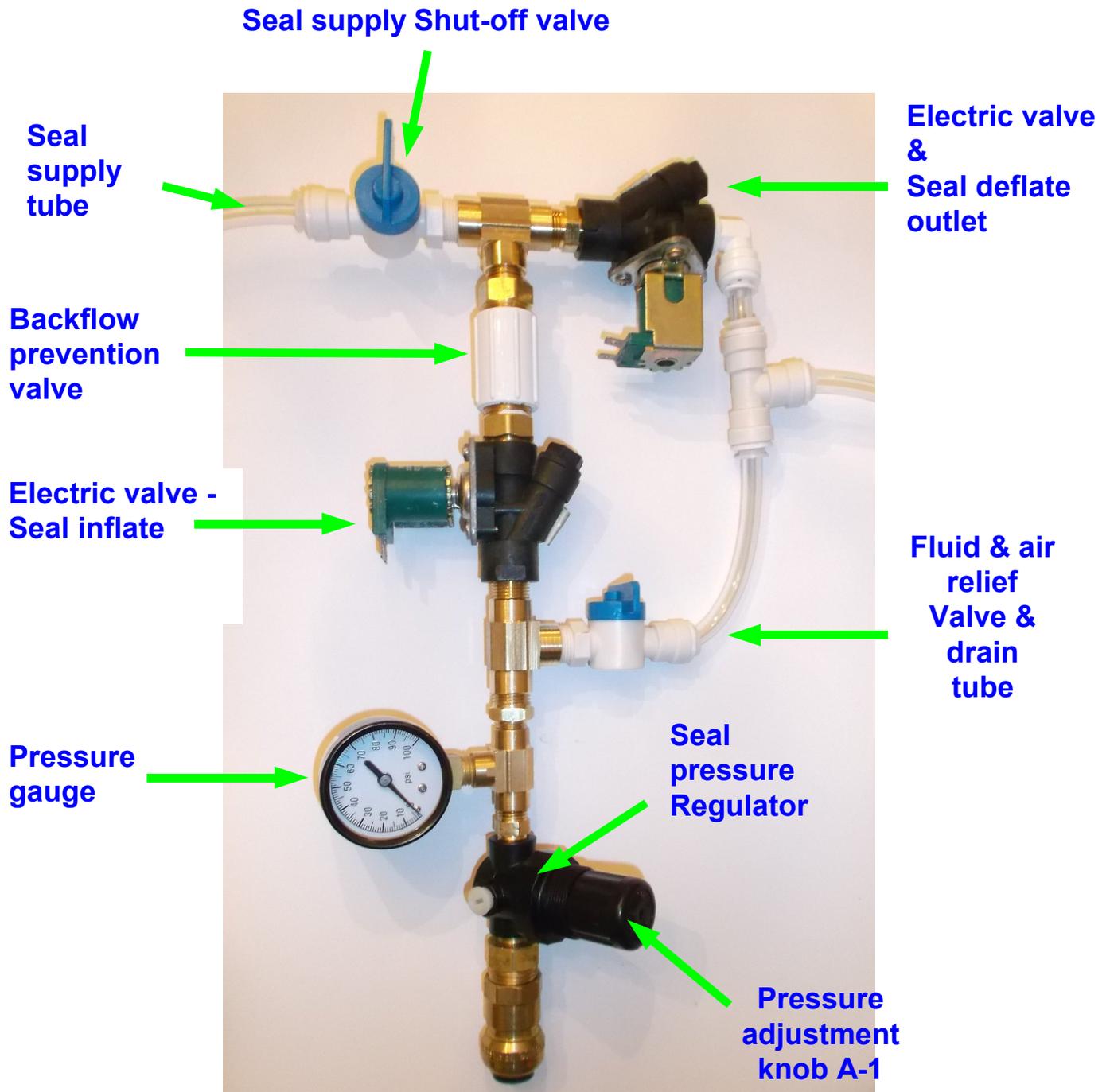
Acceptable seal inflation pressure setting must be verified, and adjusted if necessary, before the bath system is used for the first time.

DO NOT ATTEMPT THE TESTING OR REGULATION OF SEAL WATER PRESSURE UNLESS YOU ARE A QUALIFIED PLUMBER AND HAVE A CLEAR UNDERSTAND OF HOW A PRESSURE REGULATOR AND GAUGE WORKS. Burst seal and damaged components are NOT covered by warranty.

## **WARNING**

MyControl's door seal side inlet tube is not shipped connected to the seal-to-valve in-line coupler. Test seal pressure supplied by the regulator or adjust seal pressure regulator before connecting seal side tube to coupler.

# Seal pressure regulator and seal fill and drain network



# Seal Regulator drain/bleed tube and seal drain outlets

The water pressure regulator is a non-relieving type. Pressure adjustments must be made with some fluid flow in the seal fill system. If made with no flow (dead-end) conditions, the regulator will trap the over-pressure in the down stream line. The pressure gauge might not reflect true pressure reading if this occurs.

The seal inflation and deflation network photos with individual component descriptions will assist in getting to know how things work. Please study all information carefully.

The fluid and air relief valve purges through a 3/8" tube and quick connect adapter located at the electric valve outlet and at the water faucet inlet near where the faucet attaches to the bath back side wall.

The seal deflates when an electric valve opens and allows water to purge through a 3/8" tube and a quick connect adapter.

## NOTE: 3/8" Tube connection points

Actual connection locations are subject to relocation without notice. Use good visual judgement when referring to these connections.



## Seal Pressure Regulator

### Warning

The accuracy of the gauge indication of pressure can change, both during shipment (despite care in packaging) and during the service life. The gauge should be calibrated before initial installation of the bathing system and at regular intervals during use.

### Technical data

Water inlet pressure can not exceed 125 degrees F.

Water pressure regulator must maintain a minimum 15 PSI +/- 1 or 2 PSI.

The regulator can be operated at any angle

- mounted before the cycling valves
- with fluid flow in direction of arrow on body.

All connections to regulator are made using inert pipe thread sealant such as Teflon tape on male threads only. Do not allow sealant to enter interior of regulator.

## Pressure Regulator Adjustment

The gauge and regulator should be calibrated before initial inflation of bathing system seal and at regular intervals during product use. Water pressure **MUST** be tested prior to filling the bath system basin with water to any level above the basin drain outlets.

### NOTE

This is a non-relieving regulator. Make pressure adjustments with some fluid flow in the seal fill system. If made with no flow (dead-end) conditions, the regulator will trap the over-pressure in the down stream line. The pressure gauge might not reflect true pressure reading if this occurs.

To assure fluid flow first make sure that the seal fill and seal drain electric solenoids are off. Both Straight quick connect shut off valves **SV-1** and **SV-2** (photo S-1) should have been shipped in the closed position. Check that shut-off valves SV-1 and SV-2 are in the closed position. The valves are open when the lever paddle is inline with individual shut-off valve inlet and outlet. Apply water to the water valve network. Open straight shut-off valve SV-2 only. Water should flow from the outlet side of shut-off valve SV-2 through the connected tube. Close shut-off valve SV-2. Read the pressure reading on the gauge (located near the regulator). The pressure should read a pressure of 15 psi. If it does not, the regulator must be adjusted. Before adjustment of the regulator pressure, repeat the pressure test process several times. Note the pressure at each test. If the pressure is within 1 to 2 psi of the 15 psi target to the plus side (15 psi to 17 psi), do not adjust pressure at this time. Proceed to "test door seal operation". NEVER EXCEED 17 PSI.

**To adjust pressure regulator:** Pull adjustment knob outward from regulator assembly. Turn adjustment knob A-1 (photo S-2) clockwise to increase and counter clockwise to decrease pressure setting. Always approach the desired 15 PSI from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure value less than that desired, then bring up to 15 psi. After each adjustment attempt, open and then close straight shut-off valve SV-2. This will provide the best indication of "real pressure" when the electric seal fill valve opens and then closes during normal operation. Repeat fluid flow test process several times. If the pressure is within 1 to 2 psi of the 15 psi target to the plus side (15 to 17 psi) no further adjustment is necessary. Push adjustment knob inward to lock. NEVER EXCEED 17 PSI.

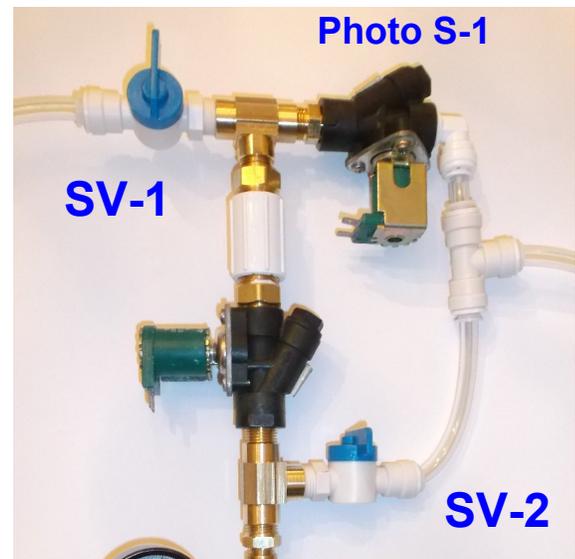
Pressure reading may fluctuate 1 to 2 psi +/- during bathing system use (faucet, wall shower, hand shower in operation) or when water pressure supplied to the water valve network inlet is reduced. This is normal. The in-line check valve will maintain water pressure until released by the seal deflate electric valve.

### Test door seal operation.

Locate and then Connect the seal supply 3/8" tube to SV-1 outlet. Make sure that shutoff valve SV-2 is closed. Open shutoff valve SV-1. Allow just enough water to flow into the basin drain outlet (basin electric drain in closed position) to activate the "fill seal" electric water valve. The reading on the regulator gauge should indicate a pressure of 15 psi (14 -17 psi is acceptable) and the seal should inflate. Open the basin drain to evacuate all water from the basin drain outlet. The seal should deflate.



Valve shown in closed position



Check for proper door sealing. Start by filling bath basin with water to a level just above the door bottom inside edge. The bath seal final pressurization feature will engage shortly after first detection of water in the drain. At this point, all water flow avenues will be disengaged for the preset seal pause period. Check for any water leakage. If no water leakage is present, continue to fill basin at 1/4 capacity intervals until maximum capacity shut off engages. If water leakage is detected AT ANY TIME during the basin fill process, stop water flow avenue(s) and drain bath basin immediately. Check seal pressure. Make pressure adjustments to achieve a tight door seal. NEVER exceed a seal pressure of 17 PSI.

**Disassembly - To be done by an authorized service technician only**

In the rare event that the regulator needs to be changed out, follow this process

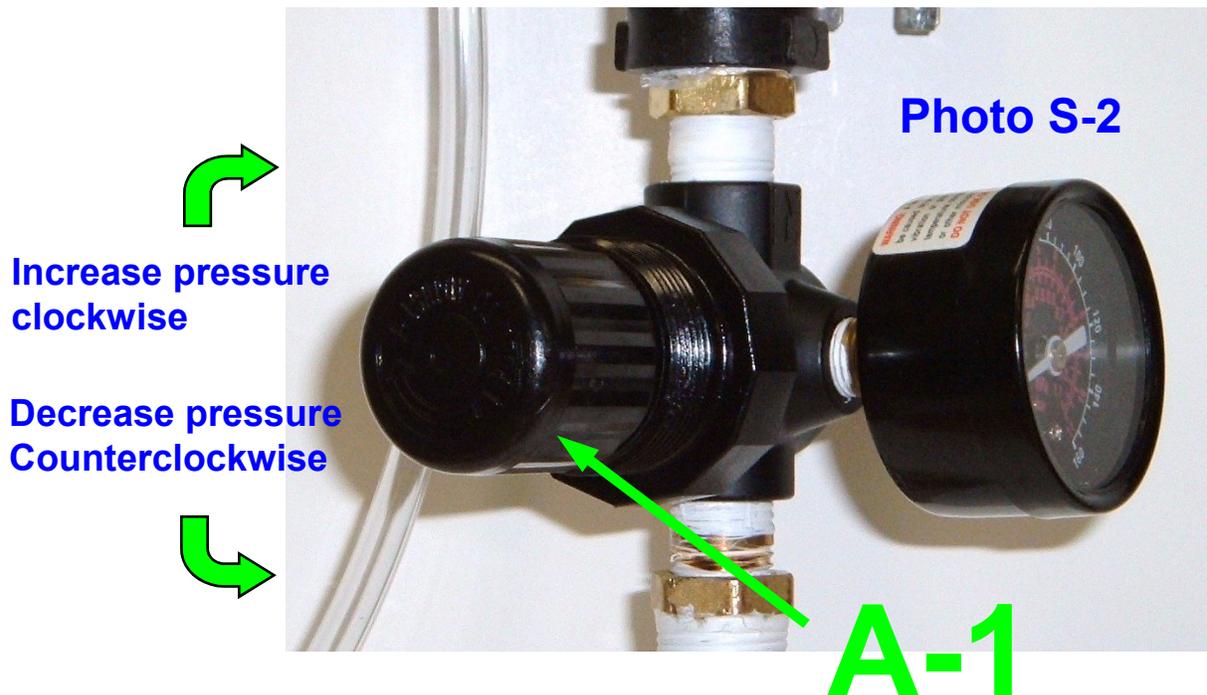
1. Shut off inlet water pressure. Reduce pressure in inlet and outlet to zero by opening the seal regulator shut-off valve SV-2 then closing it.
2. Turn adjustment (1) fully counterclockwise.
3. Disassemble in general accordance with the visual assemble.

**Cleaning**

Clean parts with warm water and soap.

Rinse and dry parts. Blow out internal passages in body with clean, dry compressed air.

Inspect parts. Replace those found to be damaged.



Seal pressure regulator and pressure gauge may differ in style and appearance than as shown in the above photo. The operation of each component will perform the same unless specified in any accompanying documentation.

**NOTES:**