



## Installation and Operating Guide

Thank you for ordering a Q31501 pneumatic controller! These controllers have been specially designed to work with most of Pawling EP's inflatable seals and clamps. Use of the controller ensures the right operating pressure is being used. Plus, it's quick and easy to install and operate.

Please follow the installation and operating instructions below. If you have any questions, feel free to [contact](#) one of our Sales Engineers using the information on the back of this guide. We will be happy to help.

### 1 INSPECTION

Please inspect the controller prior to installation for any damage incurred during shipping and/or storage.



**WARNING: A DAMAGED CONTROLLER MAY POSE A SAFETY HAZARD. IMMEDIATELY CONTACT PAWLING EP IF YOU HAVE QUESTIONS OR CONCERNS.**

### 2 INSTALLATION

Controller installation is quick and easy. Swing the wing supports, so they are parallel with the plastic controller housing. Review the included drawing for key dimensional details regarding hole location. Use the 10-32 button socket screws and mating T-slot nuts to attach the controller. Note the T-slot nuts are designed for use with many of the standard aluminum frame systems used for machine and enclosure construction. If you plan to use this type of frame, loosely attach the nut with the screw to the wing supports and slide the nut into the frame extrusion. Once the controller is in place, tighten the screws down with the supplied 1/8" hex wrench.

The controller can also be installed onto a plate. Review the included drawing to ensure proper hole location and use the supplied screws and T-slot nuts to attach the controller.

### What's Inside?



PR31501.001 Controller (Qty 1)



10-32 Button  
Socket Cap,  
1/2" (Qty 4)



10-32 T-Slot  
Nut (Qty 4)



1/8" Hex  
Wrench (Qty 1)

### Optional Accessories



1/4" Industrial  
Quick Connect  
Fitting



1/4" OD Push  
Connect Hose  
Fitting

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When attaching the controller to your compressed air source, make sure the controller switch is set to “deflate”. Pull the regulator knob until you hear a noticeable click, then turn the knob counter-clockwise until it stops. This will ensure that air will not travel through the controller during installation and regulator pressure is set to zero (0) psi.



**WARNING: FAILURE TO ENSURE THE CONTROLLER IS SET TO DEFLATE AND THE REGULATOR SET TO ZERO (0) PSI COULD RESULT IN A SAFETY HAZARD.**

Attach the fittings (if supplied) to the controller using an adjustable wrench (not included). Make sure the proper fittings are used for the inlet and outlet (i.e. industrial quick connect fitting for inlet (“IN”) and 1/4” push connect fitting for outlet (“OUT”). If necessary, use teflon tape to ensure they are leak tight.

Once the fittings have been installed, attach the compressed air line to the “IN” fitting and the inflatable seal/clamp to the “OUT” fitting.



**WARNING: FAILURE TO ATTACH THE COMPRESSED AIR SOURCE TO THE “IN” (INLET) AND SEAL/CLAMP TO THE “OUT” (OUTLET) COULD RESULT IN A SAFETY HAZARD.**

### **3 OPERATION**

The controller is very easy to operate. Prior to use, make sure the Inflate/Deflate switch is set to “Deflate”. Pull the regulator knob out until it makes a click then turn the knob counter-clockwise until it stops. This sets the regulator to 0 psi.



**WARNING: FAILURE TO ENSURE THE CONTROLLER IS SET TO DEFLATE AND THE REGULATOR SET TO ZERO (0) PSI COULD RESULT IN A SAFETY HAZARD AND DAMAGE THE INFLATABLE SEAL/CLAMP.**

When ready to first cycle the inflatable seal/clamp, turn the switch to inflate and slowly turn the regulator knob until the regulator displays the recommended operating pressure. Note that recommended operating pressures are included with the installation guides for most of our inflatable brands (Pneuma-Seal<sup>®</sup>, Q<sup>™</sup>, and Pneuma-Cel<sup>®</sup>). Once the right operating pressure is set, push the regulator knob in until it clicks. This will set the regulator to the prescribed pressure.

Note that most Pawling seal/clamp products may be operated effectively at lower pressures if required.

During operation, turn the switch from “Deflate” to “Inflate” in order to inflate the seal. To deflate the seal, turn the switch back to “Deflate” - easy-peasy!

If you have any questions, please do not hesitate to [contact](#) one of our Sales Engineers for further assistance.

#### IMPORTANT NOTICE

Pawling EP products have a well deserved reputation for giving long, dependable service - even under severe use. For its Pneuma-Seal<sup>®</sup>, Pneuma-Cel<sup>®</sup>, and Q<sup>™</sup> inflatable products, they are intended to be operated under contained pneumatic pressure and because conditions of handling, installation, use, and maintenance of such products are controlled exclusively by the user, the manufacturer disclaims all responsibility for damage or injury resulting from the use of any inflatable product and the user assumes all responsibility for any and all claims arising directly or indirectly from the product and/or its use.

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