

SP 110-B Beadless  
Welding Tool



T-343 Purad<sup>®</sup> PVDF  
Zero Deadleg Valve



## Background

Asahi/America's Purad<sup>®</sup> UHP PVDF, the premier product for high purity water systems, is used in demanding applications such as biotech and pharmaceutical manufacturing. The selected SOLEF<sup>™</sup> PVDF resin and stringent cleanroom manufacturing process provides the cleanest fluid handling material available for pipe, valves, and fittings. Asahi/America's Purad<sup>®</sup> is the foremost choice for systems with critical water quality requirements and product manufacturing impact prevention.

## Problem

A major medical device company needed to replace a valve in a high purity water line in their manufacturing

facility; however, their valve supplier had an unacceptable 12-week lead time. Asahi/America's distributor suggested the Purad<sup>®</sup> PVDF T-343 zero dead leg diaphragm valve with sanitary adaptors (shown above) as an alternative.

## Solution

Asahi/America was able to deliver the T-343 valve in less than two weeks after the order was placed. The customer was very pleased with the quick turnaround time. The T-343 valve also offered the advantage of a one-piece molded construction compared to the competing supplier's valve, which was machined and prone to leaking. In addition, sanitary adaptors were installed on the valve with Asahi/America's advanced SP 110-B beadless IR welding technology, which impressed the customer.

*The distributor salesman stated, "Asahi's team was ready to help and I will always consider them first for PVDF medical device manufacturing applications."*

## Asahi Advantage

- Custom fabrication options
- On-site weld training opportunities
- Advanced IR welding technology available
- Start-to-finish project assistance

Asahi/America is a supplier of a wide range of valves, actuators, pipe, fittings, and welding equipment for high purity, commercial, industrial and environmental applications. Discover more at [www.asahi-america.com](http://www.asahi-america.com)

## **PURAD** PVDF Piping



### **Purad® Ultra High Purity PVDF Piping System**

#### **Pipe and Fittings**

- 20-280 mm (1/2"-11") SDR21 (230psi)
- 90-315mm (3"-12") SDR33 (150psi)
- 355-400mm (14"-16")

#### **Valves**

- T-342 diaphragm valves: 20-110mm (1/2"-4")
- T-343 zero dead leg valves: 20-110mm (1/2"-4")
- Type-21 ball valves: 20-110mm (1/2"-4")
- Frank series regulating valves: 20-75mm (1/2"-2 1/2")

#### **Sizes**

- 20-315mm (1/2"-12") SDR31 (230psi)
- 90-315mm (3"-12") SDR33 (150psi)

#### **Applications**

- Pharmaceutical
- UPW
- WFI
- Semiconductor
- Photovoltaic
- Nanotech

#### **Welding methods**



### **SP 110-B Beadless Welding Tool**

#### **Features/ Benefits**

- Internal validation program
- Full automation eliminates operator influence during fusion process and provides unmatched repeatability
- Provides several QA sources
- Includes printer and cleanroom labels
- Ideal for shop operations
- 110-230 VAC power converter

#### **Size Range**

- 20-110mm (1/2"-4")

#### **Materials**

- PVDF, PP, PPn

#### **Notes**

- Available for purchase or rental
- Requires balloons

## **Ultra High Purity Piping Systems**

At the core of the Purad® system is its resin. Utilizing only high purity grades of Solvay Polymer's SOLEF™ 1000 series resins, Purad® provides unmatched quality and low leachouts for all of its pipe, fittings, valves, and raw material. Absolutely no stabilizers, additives or processing agents are used during production.

**Another  
Corrosion  
Problem  
Solved.™**