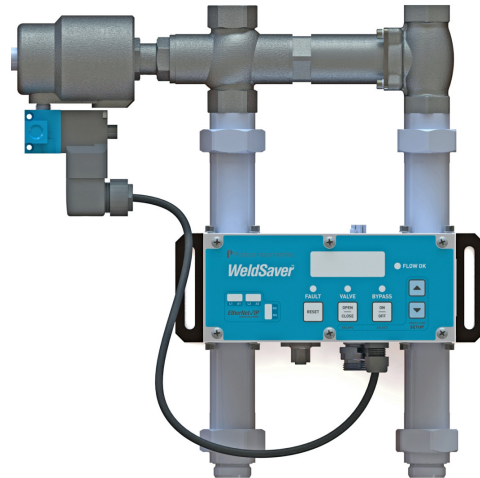


WeldSaverTM 6

Coolant control, leak detection, and expulsion prevention for robotic welding systems



STANDARD PNEUMATIC OR ELECTRIC SHUTOFF VALVE



eVacTM COOLANT RETRACTION MODULE

The WeldSaverTM 6 is the leading flow control device for leak detection and coolant-expulsion prevention in robotic welding applications. Whether monitoring coolant flow to weld guns or to the entire cooling circuit for a weld cell, the WeldSaver rapidly and reliably detects changes in flow continuity created by slow leak, cap loss, hose burst, or other catastrophic event and significantly reduces or prevents the expulsion of coolant on expensive equipment and weld cell floors.

- » Ensures adequate electrode cooling by continuously monitoring and communicating coolant flow and temperature conditions based on user-selectable operating parameters and alarm settings.
- » Real-time indication of measured flow rate and temperature on browser-based user interface and local display with keypad controls.
- » Enables fast weld cycles by sending alarm to weld controller in less than 0.4 seconds using proprietary leak-detection algorithm.
- » Reduces unsafe coolant expulsion by shutting off flow in less than 1 second after cap loss.
- » Network integration your PLC, robot, and weld controller using industry-standard EtherNet/IPTM and PROFINET[®] control interface options.

- » Single assembly with built-in 3-way pneumatic valve and check valve is fully integrated into the WeldSaver system and firmware—not a bolt-on.
- » Keeps expensive equipment dry by redirecting coolant flow during cap change or cap loss.
- » Remote control of valve and system states to support gun changers and weld-cap changers.

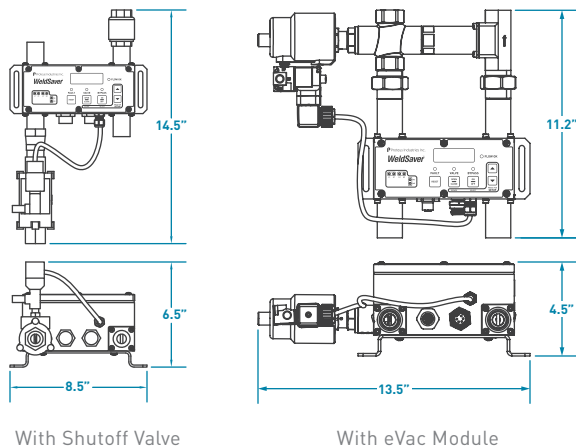
The WeldSaver graphical user interface provides information on device status in real time, with clear visual indicators and descriptions. The interface can be accessed over a network using most JavaScript[™]-enabled web browsers by entering the working IP address of the device.



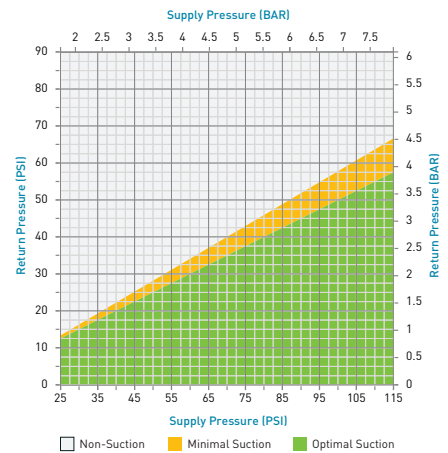
Performance Characteristics

| | | |
|---------------------------|---|--|
| Product Line | WeldSaver 6 with Standard Shutoff Valve | WeldSaver 6 with eVac™ Coolant Retraction Module |
| Control Interface Options | EtherNet/IP™ • PROFINET® | |
| User Interface | Browser-based user interface • Local display with keypad | |
| Flow Range | 6.0 – 50 LPM / 1.5 – 13 GPM | |
| Temperature Range | 4.0 – 110 °C / 39 – 230 °F | |
| Connection Options | G 3/4" (BSPP) • 3/4" NPT | G 3/4" (BSPP) standard • 3/4" NPT with adapters |
| Shutoff Valve Options | Electric Solenoid • Pneumatic | Integrated 3-Way Pneumatic |
| Check Valve | Poppet-Style Standard | Integrated Swing Gate |
| Coolant Supply Pressure | 83 – 689 kPa / 12 – 100 psig | |
| Coolant Return Pressure | 52 – 689 kPa / 7.5 – 100 psig | |
| Differential Pressure | 14 – 620 kPa / 2.0 – 90 psig | 138 – 414 kPa / 20 – 60 psig |
| Compressed Air Pressure | 300 – 800 kPa / 43.5-116 psig | |
| Low Flow Response | < 0.2 sec. | |
| Reset / Override Response | < 1.0 sec. | |
| Leak Detection Response | 0.3 – 1.0 sec. depending on response time selection and back pressure | |
| Leak Sensitivity | Able to detect a loss of flow continuity from 1–20 balanced parallel flow paths | |
| Accuracy | ± 3% of full scale | |
| Repeatability | ± 1% of full scale from 0.1 to 1.0 × full scale | |
| Operating Environment | Indoor use only | |
| Ambient Temperature | 4.0 – 50 °C / 39 – 122 °F [DO NOT FREEZE] | |
| Max. Relative Humidity | 80% | |
| Enclosure Protection | IP66 / NEMA 4X | |


Nominal Dimensions



eVac Module Operating Pressures



Contact WeldSaver Applications Support at weldsaver@proteusind.com or (650) 964-4163 and let our experts create a product configured to your exact requirements!

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Information in this document was correct at the time of creating; however, specifications are subject to change as Proteus Industries' continuous improvement processes establish new capabilities.

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