

 $A = 60" \pm 4"$   $B = 42" \pm 4"$ 

NOTE: Options may change dimensions

#### STANDARD CONTROL BOX





WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information,

#### NEW "ENHANCED FEATURE SET" CONTROL BOX **UL Listing Pending** SEE SELECTIBLE OPTIONS PAGE 2





This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Product is non-cancellable and non-returnable from date from order with factory. Signed submittal required with purchase order.

## **PNV-200-LF-2PS**

- Two Digital Mixing Valves with check stops, integral RTD Sensors
- 3" inlets, 4" outlet (76mm X 102mm)
- 0.25 GPM\*\* (.95 L/min) minimum flow capacity each
- Maximum operating pressure: 125 PSIG (860 KPA)
- Controls water temperature to  $\pm 2^{\circ}F$  in accordance with ASSE
- Controls water temperature to  $\pm 2^{\circ}F$  during times of low / no system demand
- Automatic Hot/Cold Water shutoff upon cold/ hot water inlet supply failure
- User programmable set point range between 65°F and 180°F
- **UL Listed Control Box**
- UL Listed 120V plug in power supply with 6' cord
- Simple/intuitive user commissioning and setup
- Factory assembled and tested

This product meets Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

\*\*NOTE: Each valve will maintain temperature with 0.25 GPM flow from the domestic hot water loop when properly installed near the hot water source with a continuously operating recirculation pump.

#### **OPTIONS:**

IOT - Internet of Things, Modbus to Wi-Fi gateway that connects to the Cloud to allow online monitoring of outlet temperature and Modbus connectivity to BMS

**BPS** – Back-up Power Supply, uninterruptable power supply with up to 2 hours run time in case of primary power loss

Valves are Pending ASSE 1017 Certified



Valves are Pending CSA Certified



Valve electronics are UL Certified





1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: http://www.leonardvalve.com

## PNV-CONTROLLER OPTIONS

## Standard Controller 1.0 Version

#### STANDARD CONTROLLER:



\_\_\_\_\_ **1.0** – See PAGE 1 for info

## $\mathbf{A} = 6" \qquad \mathbf{B} = 4"$

## ENHANCED CONTROLLER OPTIONS:

**Depth** = 1-3/4"

LEONARD

UL Listing Pending on 2.0, 2.5 and 3.0 controllers Note: Boxes not field upgradeable



**2.0** – Enhanced Proton Controller with Programable Disinfection Mode

#### **Options:**

**REL** – 5 Relay Contacts that Switch during Alarm State

- Helpful for Remote Alerts Within Building to Assist Maintenance and Service Personnel
- 5 Unique States:
  - Loss of Power
  - Broken Temperature Probe
  - "Out of Range" Temperature (±10°F)
  - Motor Connectivity and Operation
  - Maintenance (Service Required) @ <90%Full travel

# **Enhanced Controller 2.0, 2.5, 3.0 Versions**

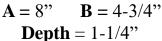
2.5 – Enhanced Proton Controller including all of 2.0 as well as BACnet MS/TP Connection which provides ability to serve up all data to BMS system



**Options:** 

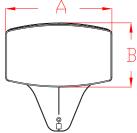
\_\_\_\_3T – Three Additional Temperature Sensors for Monitoring of Inlet Hot, Inlet Cold, and Return Temperatures

**REL** – 5 Relay Contacts that Switch during Alarm State (as shown above)



- **3.0** Enhanced Proton Controller including all of 2.5 as well as all items below as standard,
  - WiFi Wifi enabled
  - 3T 3 Additional Temperature Sensors for Monitoring of Inlet Hot, Inlet Cold and Return Temperatures
  - REL 5 Relay Contacts that Switch during Alarm State

\*\*AVALIBLE  $\approx 2^{nd}$  Quarter 2023



Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.



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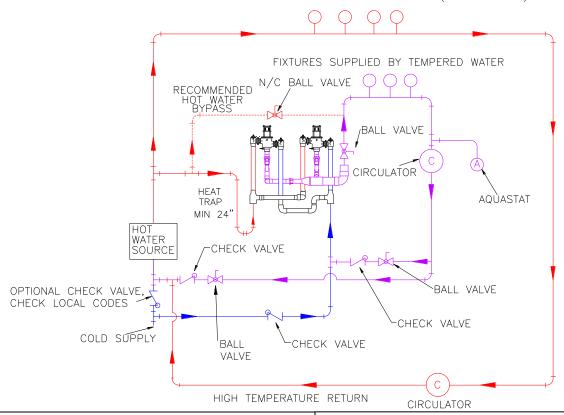
Web Site: http://www.leonardvalve.com

Single Valve Flow Capacity shown,

**Double flow rate when both valves are running** 

MINIMUM	PRESSURE DROP										
FLOW (GPM)	5	10	15	20	25	30	35	40	45	50	PSI
(l/min)	.3	.7	.97	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR
0.25**	80	115	130	147	165	173	189	198	215	226	GPM
(.95)	303	435	492	556	625	655	715	750	814	856	l/min

HIGH TEMPERATURE FIXTURES (IF APPLICABLE)



**CAUTION!** All thermostatic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE. Minimum flow must be no less than as indicated.

NOTE: Flow rates will vary depending on existing field conditions. Leonard Valve Company always recommends using CASPAK® sizing software for proper valve sizing and model number applications.

Engineer's Approval	Job #				
	Arch/Eng.				
	Contractor				

Note: The models shown represent Leonard Products which are believed to be equivalent in type and function to items specified. Leonard Valve Company is not responsible for errors or omissions due to differences in interpretations of information provided.

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