

$$A = 53" \pm 4"$$
 $B = 42" \pm 4"$
 $C = 70" \pm 4"$

NOTE: Options may change dimensions

STANDARD CONTROL BOX



NEW "ENHANCED FEATURE SET" CONTROL BOX SEE SELECTABLE OPTIONS PAGE 2



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

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.Ca.gov

Submittal Data Sheet S-PNV-200-LF-3PS January, 2023

PNV-200-LF-3PS

- Three Digital Mixing Valves with check stops, integral RTD Sensors
- 4" 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 1017
- Controls water temperature to $\pm \, 2^o F$ 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

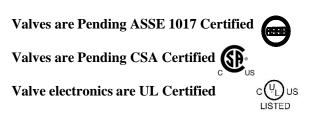
This product meets Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

****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



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

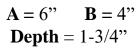


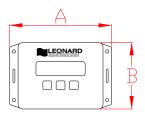
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310 Email: info@leonardvalve.com Web Site: http://www.leonardvalve.com

PNV-CONTROLLER OPTIONS

Standard Controller 1.0 Version



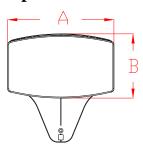




Enhanced Controller 2.0, 2.5, 3.0 Versions



A = 8" B = 4-3/4" Depth = 1-1/4"



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STANDARD CONTROLLER:

1.0 – See PAGE 1 for info

ENHANCED CONTROLLER OPTIONS:

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
- **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

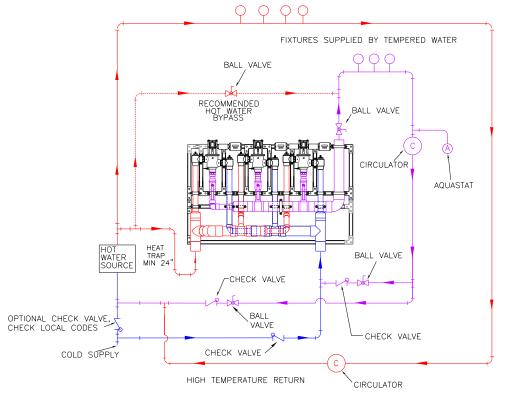


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Single Valve Flow Capacity shown, Triple flow rate when all valves are running

MINIMUM FLOW (GPM)	_	PRESSURE DROP											
	5	10	15	20	25	30	35	40	45	50	PSI		
(I/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		





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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