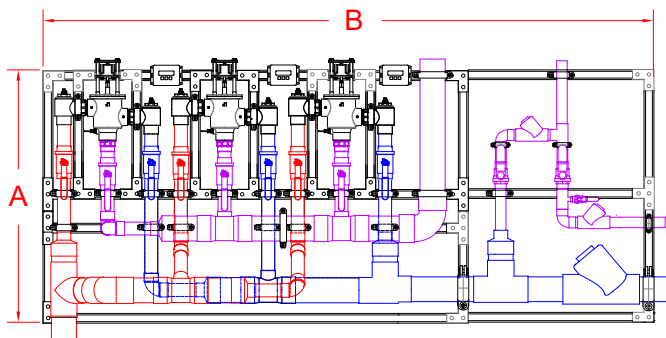


MEGATRON[®] M-PNV-200-LF-3PS-LC

- Three Digital Mixing Valves with check stops, integral RTD Sensors
- 4" inlets, 4" outlet, 2" return (102mm X 102mm X 51mm)
- 0.25 GPM** (.95 L/min) minimum flow capacity each
- Maximum operating pressure: 200 PSIG (1379 KPA)
- Controls water temperature to $\pm 2^{\circ}\text{F}$ in accordance with ASSE 1017
- Controls water temperature to $\pm 2^{\circ}\text{F}$ 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
- Not for use in process applications nor intended to deliver final temperature control
- Primary use as an ASSE 1017 Distribution Valve/Master Mixer in a Domestic Hot Water System when combined with proper downstream protection devices approved to ASSE 1016, 1069, 1070 or 1071



Approximate Dimensions

A = 42" $\pm$ 6"

B = 98" $\pm$ 12"

NOTE: Options may change dimensions

STANDARD CONTROL BOX



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.

NEW "ENHANCED FEATURE SET" CONTROL BOX

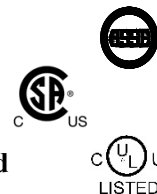
SEE SELECTABLE OPTIONS PAGE 2



Valves are ASSE 1017 Certified

Valves are CSA Certified

Valve electronics are UL Certified



LEONARD[®]
WATER TEMPERATURE CONTROLS

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

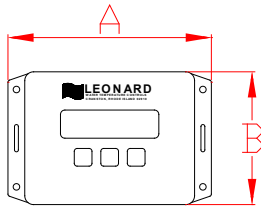
Web Site: <http://www.leonardvalve.com>

PNV-CONTROLLER OPTIONS

Standard Controller 1.0 Version



A = 6" B = 4"
Depth = 1-3/4"



STANDARD CONTROLLER:

_____ **1.0** – See PAGE 1 for info

ENHANCED CONTROLLER OPTIONS:

_____ **2.0** – Enhanced Proton Controller with Programmable Disinfection Mode

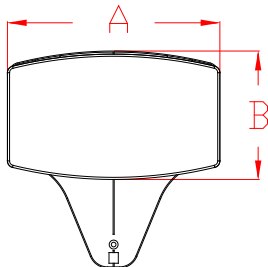
Options:

- _____ **3T**– Three Additional Temperature Sensors for Monitoring of Inlet Hot, Inlet Cold, and Return Temperatures
- _____ **REL** – 5 Relay Contacts that Switch during Alarm State
 - 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 ($\pm 10^{\circ}\text{F}$)
 - Motor Connectivity and Operation
 - Maintenance (Service Required) @ $< 90\%$ Full travel

Enhanced Controller 2.0, 2.5, 3.0 Versions



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



_____ **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



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OPTIONS AND ACCESSORIES



____ **BPS – Backup Power Supply**

- Uninterruptable Power Supply with up to 2 hours run time in case of primary power loss

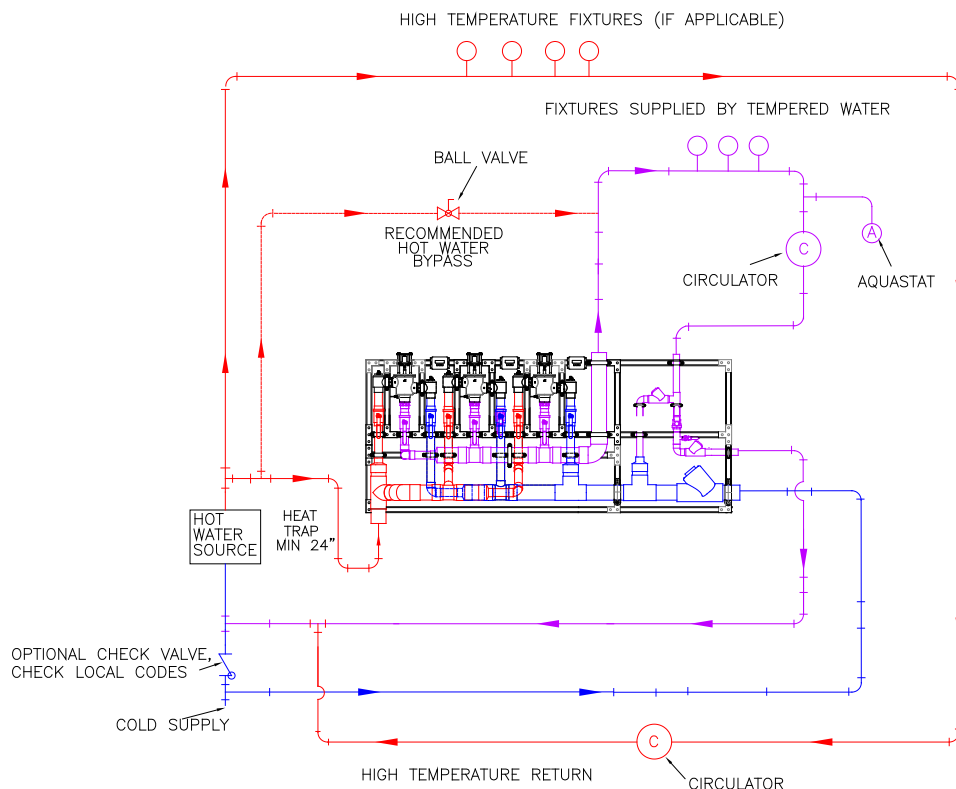
____ **RP3 – 3” Return piping**

ANY OPTION CHOSEN WILL ALTER PRICING – CONTACT LEONARD VALVE COMPANY FACTORY



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

MINIMUM FLOW (GPM) (l/min)	PRESSURE DROP										
	5	⑩	⑮	⑳	25	30	35	40	45	50	PSI
	.3	.7	.97	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR
0.25** (.95)	80 303	115 435	130 492	147 556	165 625	173 655	189 715	198 750	215 814	226 856	GPM 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. Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.



WARNING: Risk of cancer and reproductive harm from exposure to lead – See www.P65Warnings.ca.gov

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