



The Next Generation of Digital Mixing Valve Solutions



ASSE 1017 CERTIFIED | NSF 372 COMPLIANT

PROUDLY ASSEMBLED IN THE USA

WATER TEMPERATURE SOLUTIONS START WITH LEONARD

-  Self-balancing
-  Daily self-cleaning feature
-  ± 2 °F temperature accuracy
-  Integral check valves available
-  Flow rates ideal for small to mid-sized design projects
-  Self-diagnostic
-  Digital electronic control with 2-line LCD display
-  Programmable temperature setpoint
-  Easy setup/easy error coding
-  Upon power failure, holds last set temperature to avoid thermal shock

PROTON SERIES: MODEL FEATURES GUIDE

	Proton 1.0	Proton 2.0	Proton 2.5	Proton 3.0
Simple and intuitive user commissioning and setup	●	●	●	●
Alarms for when unit maintenance is required	●	●	●	●
User programmable set point range between 65 °F and 180 °F	●	●	●	●
Automatic hot/cold water shutoff upon cold/hot water inlet supply failure	●	●	●	●
Valve controls at time of no use: 0.0 GPM*	●	●	●	●
Single valves available in 1" to 3" valve outlet sizes	●	●	●	●
Manifold assemblies available in up to 6" valve outlet sizes	●	●	●	●
Enhanced controller with programmable disinfection mode		●	●	●
Enhanced controller with BACnet MS/TP connection			●	●
Enhanced controller with Wi-Fi				●
Three additional temperature probes (inlet hot, inlet cold, return temp.)		+	+	●
Five relay contacts that switch on during alarm states		+	+	●
Remote alerts to assist Maintenance and Service Personnel		+	+	●
Loss of power alert		+	+	●
Broken temperature probe alert		+	+	●
"Out of range" temperature alert (± 10 °F)		+	+	●
Motor connectivity and operation alert		+	+	●
Service required @90% full shuttle movement alert		+	+	●

*When properly installed near the hot water source with a continuously operating recirculation pump

● Standard
+ Optional

Big Digital Performance

Available in:

- ¾" inlet - 1" outlet valve assembly (PNV-100-LF)
- 1" inlet - 1¼" outlet valve assembly (PNV-125-LF)
- 1¼" inlet - 1½" outlet valve assembly (PNV-150-LF)
- 2" inlet - 2" outlet valve assembly (PNV-200-LF)
- 3" inlet - 3" outlet valve assembly (PNV-300-LF)

Additional sizes available

Options:

- ✓ BPS | Backup Power Supply: Up to 2 hours of uninterruptable run time
- ✓ LC | Less Circulator (Only available for Megatron configurations)
- ✓ 150, 200, and 300 models available with or without servicable check/stop valves
- ✓ All assemblies available with optional bronze ball valves

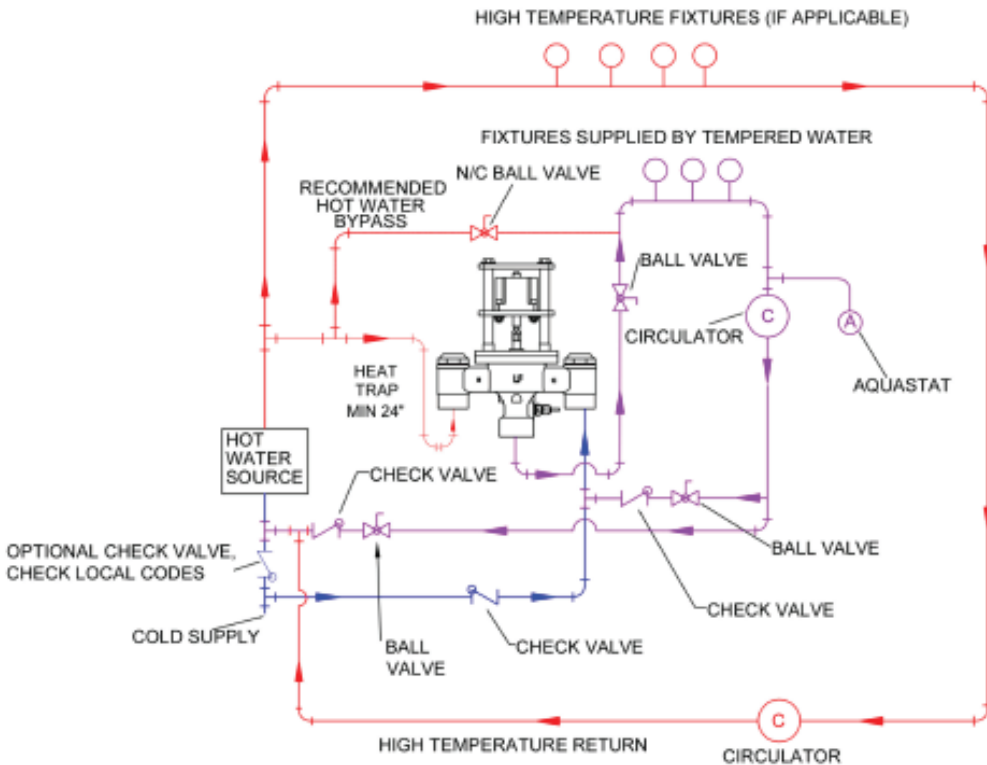
All assemblies available with any Proton Series control box

Control box also for use with The Neutron/ENV-6100-LF Digital Emergency Mixing Valve

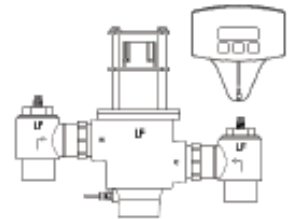
Flows & Capacities

MODEL	IN	OUT	MIN. FLOW GPM	PRESSURE DROP										
				5	10	15	20	25	30	35	40	45	50	PSI
				L/MIN	0.3	0.7	0.97	1.4	1.7	2.1	2.4	2.8	3.1	3.4
PNV-100-LF	¾" 19.1 mm	1" 25.4 mm	0.25* 0.95*	17 64	25 95	28 106	32 121	36 136	39 148	43 163	45 170	48 182	51 193	GPM L/MIN
PNV-125-LF	1" 25.4 mm	1-1/4" 31.6 mm	0.25* 0.95*	40 151	56 212	66 250	77 291	86 326	95 360	104 394	109 413	114 432	120 454	GPM L/MIN
PNV-150-LF	1-1/4" 31.6 mm	1-1/2" 38.1 mm	0.25* 0.95*	50 189	72 273	86 326	100 379	115 435	122 462	136 515	140 530	158 598	165 625	GPM L/MIN
PNV-200-LF	2" 50.8 mm	2" 50.8 mm	0.25* 0.95*	80 303	115 435	130 492	147 556	165 625	173 655	189 715	198 750	215 814	226 856	GPM L/MIN
PNV-300-LF	3" 76.2 mm	3" 76.2 mm	0.25* 0.95*	97 366	135 510	163 616	191 722	213 805	235 888	262 990	288 1089	296 1119	303 1145	GPM L/MIN
PNV-150-LF-2PS	2" 50.8 mm	3" 76.2 mm	0.25* 0.95*	100 378	144 544	177 669	200 758	222 839	244 922	262 990	280 1058	305 1153	330 1247	GPM L/MIN
PNV-200-LF-2PS	3" 76.2 mm	4" 102 mm	0.25* 0.95*	160 605	230 896	262 990	294 1111	320 1210	346 1308	371 1402	396 1497	424 1603	451 1709	GPM L/MIN
PNV-300-LF-2PS	4" 102mm	5" 127 mm	0.25* 0.95*	194 733	270 1021	326 1232	382 1444	432 1633	470 1777	523 1977	576 2177	596 2253	606 2291	GPM L/MIN
PNV-200-LF-3PS	4" 102 mm	4" 102 mm	0.25* 0.95*	240 908	345 1306	390 1476	441 1669	495 1874	519 1965	567 2146	594 2249	645 2442	678 2567	GPM L/MIN
PNV-300-LF-3PS	5" 127 mm	6" 152 mm	0.25* 0.95*	291 1100	405 1531	489 1848	573 2166	639 2415	705 2665	785 2967	864 3266	887 3353	909 3436	GPM L/MIN
VALVE ASSEMBLY(S) ARE ASSE STANDARD 1017 LISTED ALL VALVES ASSEMBLY(S) ARE 3RD PARTY CERTIFIED TO BE LEAD-FREE *WHEN INSTALLED NEAR HOT WATER SOURCE AND WITH A PROPERLY SIZED, CONTINUOUSLY OPERATING RECIRCULATION PUMP				MAXIMUM FLOW CAPACITY										

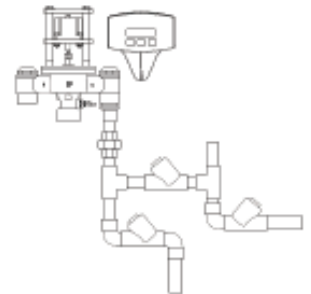
Leonard Digital Valves use Piping Method "W", an economical and environmentally friendly recirculation loop



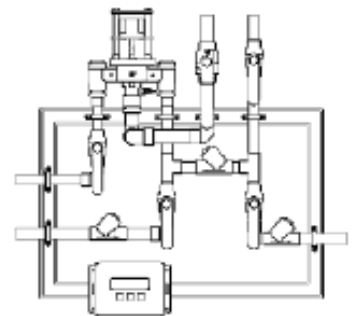
PNV-200-LF
 Base Valve Only



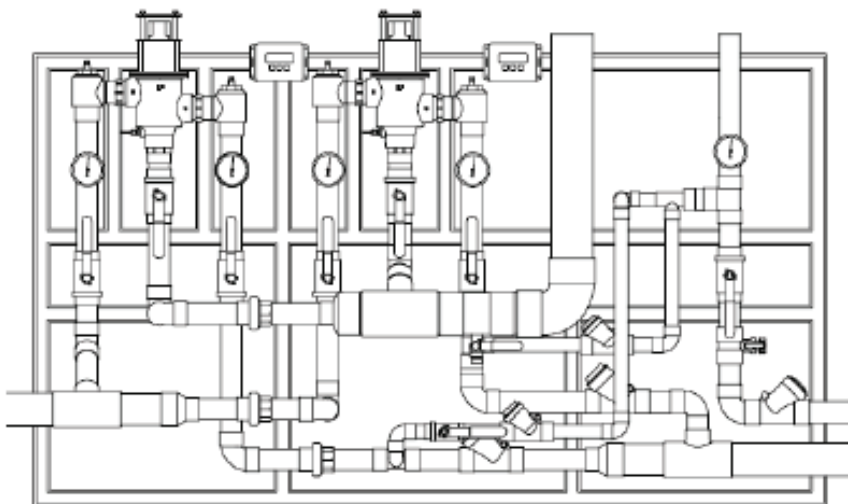
PNV-125-LF-R
 Simple Recirculation



PNV-100-LF-R34
 Enhanced Recirculation



Megatron-PNV-200-2PS-LF-LC
 High-Capacity Proton Megatron



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 submittal sheets

