LEONARD
WATER TEMPERATURE CONTROLS

NUCLEUS PROTON
DIGITALLY CONTROLLED MIXING VALVE

SELF BALANCING - SELF CLEANING

NUCLEUS PROTON
DIGITALLY CONTROLLED MIXING VALVE

Big Digital Perfomance

Available in:

- ¾" inlet - 1" outlet valve assembly
- 1" inlet - 1¼" outlet valve assembly
- 1¼" inlet - 1½" outlet valve assembly
- 2" inlet - 2" outlet valve assembly
- 3" inlet - 3" outlet valve assembly

Additional sizes available

Options:

✓ BPS │ Backup Power Supply: Up to 2 hours of uninterruptable run time

✓ LC │ Less Circulator (Only available for Megatron configurations)

✓ Digital Thermometer

✓ PNV-150, 200, and 300 available with or without servicable check/stop valves

All assemblies available with optional bronze ball valves

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

MANY MODELS AVAILABLE

PNV-200-LF
Base Valve Only

PNV-125-LF-R
Simple Recirculation

PNV-100-LF-R34
Enhanced Recirculation

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

Flows & Capacities

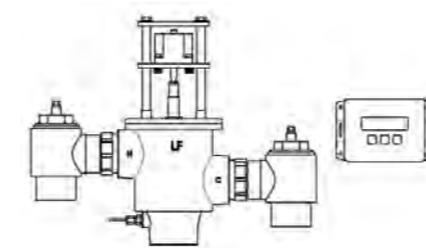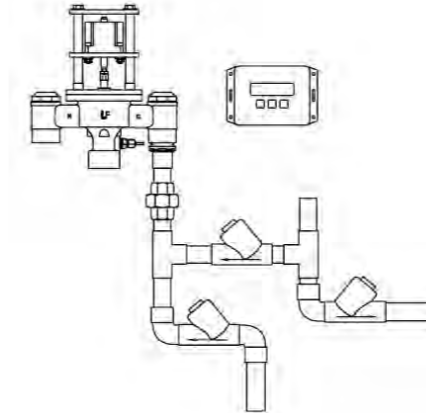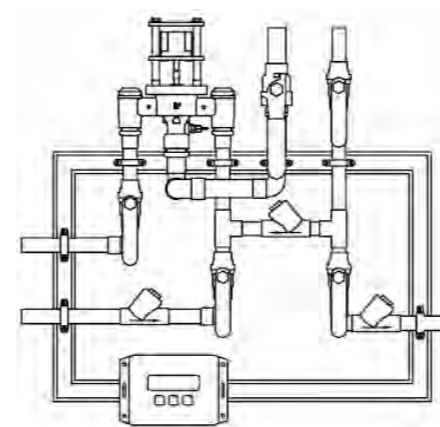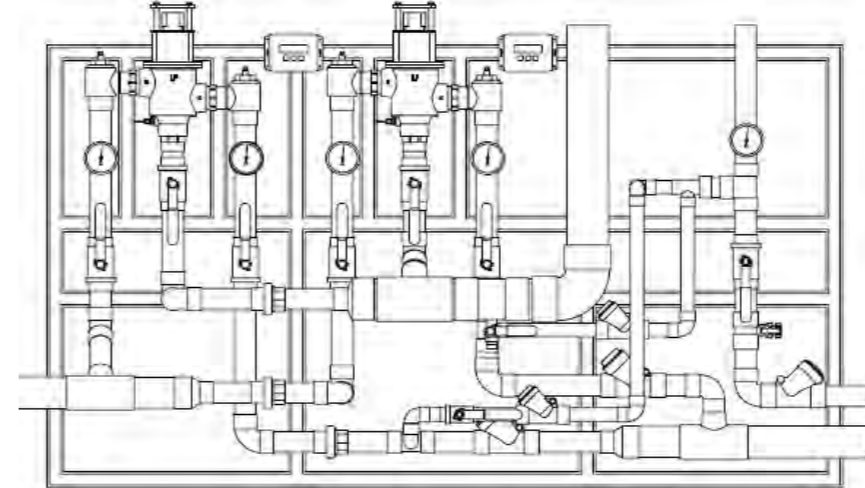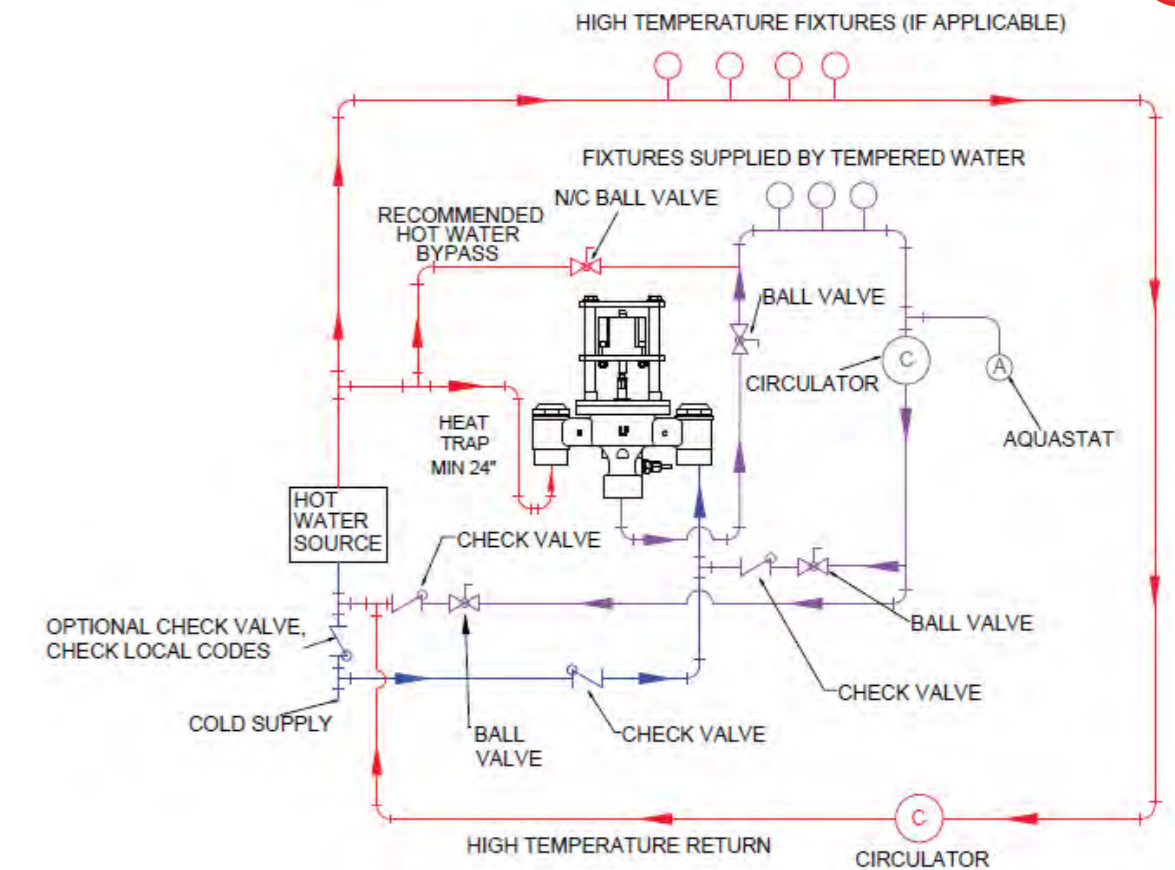| MODEL	IN	OUT	MINIMUM FLOW GPM	PRESSURE DROP											PSI
			L/MIN	6	10	15	20	25	30	35	40	45	50	BAR
				0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.4	
PNV-100-LF	3/4" (19.1mm)	1" (25.4mm)	0.25" 0.95"	17 84	25 95	28 106	32 121	36 136	39 148	43 163	45 170	48 182	51 193	GPM L/MIN
PNV-125-LF	1" (25.4mm)	1 1/4" (31.8mm)	0.25" 0.95"	40 151	56 212	68 250	77 291	86 326	95 360	104 394	109 413	114 432	120 454	GPM L/MIN
PNV-150-LF	1 1/4" (31.8mm)	1 1/2" (38.1mm)	0.25" 0.95"	50 189	72 273	86 326	100 379	115 436	122 463	139 515	140 530	156 598	165 625	GPM L/MIN
PNV-200-LF	3" (50.8mm)	2" (50.8mm)	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" (76.2mm)	3" (76.2mm)	0.25" 0.95"	97 366	135 510	163 616	191 722	213 805	235 886	262 990	288 1089	296 1119	303 1145	GPM L/MIN
PNV-150-LF-2PS	2" (50.8mm)	3" (76.2mm)	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" (79.2mm)	4" (102mm)	0.25" 0.95"	160 605	230 898	262 990	294 1111	320 1210	345 1306	371 1402	398 1497	424 1603	451 1709	GPM L/MIN
PNV-300-LF-2PS	4" (102mm)	5" (127mm)	0.25" 0.80"	194 733	270 1022	326 1444	382 1635	432 1777	470 1977	523 2177	576 2253	596 2291	606	GPM L/MIN
PNV-200-LF-3PS	4" (102mm)	4" (102mm)	0.25" 0.95"	240 908	345 1306	390 1476	441 1669	495 1874	518 1965	567 2146	594 2249	645 2442	678 2567	GPM L/MIN
PNV-300-LF-3PS	5" (127mm)	6" (152mm)	0.25" 0.95"	291 1100	405 1531	489 1848	573 2166	639 2415	705 2665	765 2887	864 3266	867 3353	909 3436	GPM L/MIN

VALVE ASSEMBLIES ARE ASSE STANDARD 1017 LISTED. ALL VALVE ASSEMBLIES ARE ASSE AND PARTY CERTIFIED TO BE LEAD FREE. *WHEN INSTALLED NEAR HOT WATER SOURCE AND WITH A PROPERLY SIZED, CONTINUOUSLY OPERATING RECIRCULATION PUMP

MAXIMUM FLOW CAPACITY

PIPING METHOD "W"

This installation at a skilled nursing facility shows how The Proton is easy to install, efficient, and effective in small to mid-sized applications

---