

PRESSURE RELIEF VALVES



PRESSURE RELIEF VALVES

Recommended for all cold water system installations - to protect against damage to piping and pressure tanks. PRV's are set at 75 psi or 100 psi. PRV's have a +/- 15% setting accuracy.

NOTE: These valves are not T&P valves that are required with water heaters. There is the same need for PRV on cold water pressure tanks. **NOTE:** Warranty void on pressure relief valves if used on air systems.

NOTE: Merrill pressure relief valves may not reseal themselves after pressure relief. Manual disassembly and reseating of valve may be required. Repeated opening of a pressure relief valve is beyond intended use and voids warranty.

WARNING: All PRV, SSPRV, and PRVNL valves must be set a minimum of 15 psi above the typical high of the water system pressure, so valve chatter or rapid open and close will not occur. Valve chatter can cause failure of the valve and voids warranty.

NOTE: All PRV valves are field adjustable - by removing cap and turning internal disk down to increase pressure. **Field adjustment of valve voids warranty.**

NOTE: Valve warranty void after change in adjustment due to possible error.

Brass Pressure Relief Valves Not Approved for use with Drinking Water in USA

Order Number	UPC Bar Code (Qty.1)	Inlet x Outlet	Ctn. Qty.	Approx. Weight/Ctn.
PRV50	6 42367 02251 8	1/2" x 1/2"	10	3.5 lbs

A perfect companion to Merrill Galvanized Tank Tees 1X, 100X, 102X, and 125X.



PRV50

Stainless Steel Pressure Relief Valves

Order Number	UPC Bar Code (Qty.1)	Inlet x Outlet	Ctn. Qty.	Approx. Weight/Ctn.
SSPRV50	6 42367 12289 8	1/2" x 1/2"	10	3.0 lbs
SSPRV75	6 42367 12290 4	3/4" x 1/2"	10	5.0 lbs
SSPRV75775	6 42367 43419 9	3/4" x 3/4"	10	5.2 lbs
SSPRV50100	6 42367 12942 2	1/2" x 1/2"	10	3.0 lbs
SSPRV75100	6 42367 12943 9	3/4" x 1/2"	10	5.0 lbs
SSPRV757100	6 42367 43420 5	3/4" x 3/4"	10	5.2 lbs



SSPRV50

Note: Valves set at 100 psi

No Lead Brass Pressure Relief Valves

Order Number	UPC Bar Code (Qty.1)	Inlet x Outlet	Ctn. Qty.	Approx. Weight/Ctn.
PRVNL50	6 42367 08885 9	1/2" x 1/2"	10	3.5 lbs
PRVNL75	6 42367 08886 6	3/4" x 1/2"	10	3.8 lbs
PRVNL757	6 42367 41251 7	3/4" x 3/4"	10	3.9 lbs
PRVNL50100	6 42367 12471 7	1/2" x 1/2"	10	3.5 lbs
PRVNL75100	6 42367 12472 4	3/4" x 1/2"	10	3.5 lbs
PRVNL757100	6 42367 12473 1	3/4" x 3/4"	10	4.0 lbs



PRVNL50

Note: Valves set at 100 psi

PVC Pressure Relief Valve (Dark Gray)

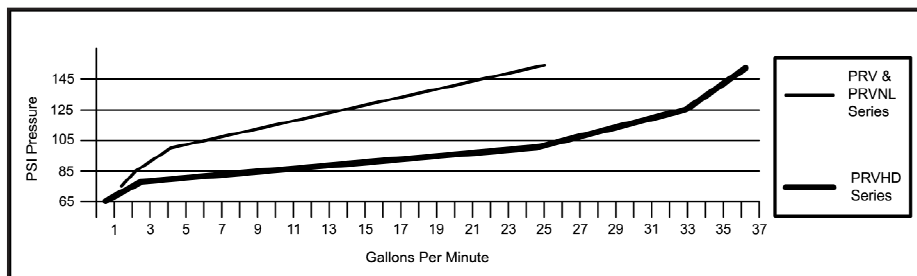
Order Number	UPC Bar Code (Qty.1)	Inlet x Outlet	Ctn. Qty.	Approx. Weight/Ctn.
PVCPRV50	6 42367 11391 9	1/2" MIP x 1/2" FIP	1	.20 lbs

A perfect companion to Merrill PVC Tank Tees 100C, 100CS, 100CSF, and 1025CSF.



PVCPRV50

Pressure Relief Valves - Reflects 3/4" Valve



WARNING: This product can expose you to lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

WARNING: This product meets Federal USA Drinking Water requirements but has not been specifically tested or approved as no-lead in the State of California.



No-Lead



CA. Certified



Lead

Recommended for all cold water system installations - to protect against damage to piping and pressure tanks. PRVHDNL's are factory set at 75 psi. PRVHDNL's have a ± 15% setting accuracy.

NOTE: These valves are not T&P valves that are required with water heaters. There is the same need for PRVHDNL's on cold water pressure tanks. **NOTE:** Warranty void on pressure relief valves if used on air systems.

NOTE: Merrill pressure relief valves may not reseal themselves after pressure relief. Manual disassembly and resealing of valve may be required. Repeated opening of a pressure relief valve is beyond intended use and voids warranty.

WARNING: All PRVHDNL valves must be set a minimum of 15 psi above the typical high of the water system pressure, so valve chatter or rapid open and close will not occur. Valve chatter can cause failure of the valve and voids warranty.

NOTE: All PRVHDNL's valves are field adjustable - by removing cap and turning internal disk down to increase pressure. **Field adjustment of valve voids warranty.**






NOTE: Valve warranty void after change in adjustment due to possible error.



 No-Lead

 Lead

No Lead Heavy-Duty Pressure Relief Valves

Order Number	UPC Bar Code (Qty.1)	Inlet x Outlet	Ctn. Qty.	Approx. Weight/Ctn.
 PRVHDNL75	6 42367 41210 4	3/4" x 3/4"	1	1.6 lbs
 PRVHDNL100	6 42367 41211 1	1" x 1"	1	2.7 lbs
 PRVHDNL125	6 42367 41212 8	1-1/4" x 1-1/4"	1	4.3 lbs
 PRVHDNL150	6 42367 41213 5	1-1/2" x 1-1/2"	1	5.5 lbs
 PRVHDNL200	6 42367 41214 2	2" x 2"	1	9.3 lbs







Merrill PRVHDNL Valves can be factory adjusted to a custom setting upon request at extra cost. Custom set relief valves are non-cancelable and non-returnable. PRVHDNL's are recommended for use up to 150 psi on water systems only. **Field adjustment of valve voids warranty.**



No Lead Heavy-Duty Pressure Relief Valves

Domestic Heavy-Duty Pressure Relief Valves

Not Approved for use with Drinking Water in USA

Order Number	UPC Bar Code (Qty.1)	Inlet x Outlet	Ctn. Qty.	Approx. Weight/Ctn.
 DPRV50	6 42367 09301 3	1/2" x 1/2"	1	2.3 lbs
 DPRV75	6 42367 09302 0	3/4" x 3/4"	1	2.3 lbs
 DPRV100	6 42367 09303 7	1" x 1"	1	3.5 lbs
 DPRV125	6 42367 09304 4	1-1/4" x 1-1/4"	1	5.0 lbs
 DPRV150	6 42367 09305 1	1-1/2" x 1-1/2"	1	6.3 lbs
 DPRV200	6 42367 09306 8	2" x 2"	1	11.0 lbs

Available factory set at 5 psi to 300 psi. DPRV's are set at 75 psi. DPRV's are field adjustable and recommended for use up to 300 psi on water systems only. **Field adjustment of valve voids warranty.**

NOTE: Special order non-stock item.

MOUNTING POSITION - Pressure relief valves should only be mounted in a vertical upright position. There is no warranty for a valve that has been installed in any other position. The flanges and sealing faces of the valve and all connecting piping must be free from dirt, sediment and scale. All flange bolts should be drawn evenly to prevent distortion of the valve body and the inlet nozzle.

INLET PIPING - The inlet piping to the valve should be short and direct from the vessel or equipment being protected. The connection to the vessel should be provided with a radius to permit smooth flow to the valve. In no event should the inlet piping be smaller in diameter than the inlet connection of the valve. Pressure relief valve inlets should not be located where excessive turbulence is present such as near elbows, tees, bends, orifice plates, or throttling valves.

The design of the inlet connection shall consider stress conditions induced by reaction force, during valve operation, by external loading, by vibration and by loads due to thermal expansion of piping.

DISCHARGE PIPING - Alignment of the internal parts of a pressure relief valve is important to insure proper operation. Care should be taken to insure thermal expansion of piping and support system does not produce strains in a valve.

Drains should be piped away to prevent injury, as well as the collection of water or corrosive liquid in the valve body. Attention should be given to the support of the drainage piping.

When two or more valves are piped to discharge into a common header the build-up back pressure resulting from the opening of one (or more) valve(s) may cause a superimposed back pressure in the remaining valves unless the bonnet is vented. Under these conditions use of bellows valves are recommended.

In every case, the nominal discharge pipe size should be as large as, or larger than, the nominal size of the pressure relief valve outlet flange, in the case of long discharge piping; it sometimes must be much larger.

Approximate Relief in GPM from the Heavy-Duty Pressure Relief Valves

Set PSI	Approximate Relief in GPM				
	3/4"	1"	1-1/4"	1-1/2"	2"
50	15	25	44	68	132 GPM
60	16	28	48	75	145 GPM
70	17	30	52	81	156 GPM
80	19	32	55	87	167 GPM
90	20	34	59	92	177 GPM
100	21	36	62	97	187 GPM
110	21	36	62	97	187 GPM
120	23	39	68	106	205 GPM
130	24	41	71	110	213 GPM



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