IMPORTANT NOTICE - READ CAREFULLY

Pressure Relief Valve Information Sheet

⚠ WARNING Every installation where the pump is capable of more pressure than its related system components (e.g. pressure tank) must have a pressure relief valve. Accidental sticking of the pressure switch can cause the pump to develop pressure that could burst the tank.

A.Y. McDonald Model 6214 Pressure Relief Valves are Factory Set to open at 75 PSIG on 1/2” through 1” valves and the 1-1/4” through 2” valves are set to open at 65 PSIG. Select 3/4", 1" and 1 1/4" valves open at 100 PSI.

It is the responsibility of the system designer or installer to properly select a pressure relief valve with adequate flow characteristics to maintain a maximum pressure considerably below the system’s design pressure. Usually, this a determined by the maximum pressure rating of the pressure tank

The following performance may be used to help select the proper size relief valve:

SIZE	FACTORY SETTING TO OPEN (#)	MAXIMUM FLOW (U.S. GPM)* AT 120 PSIG SYSTEM PRESSURE**
1/2”	75# PSIG	33 GPM
3/4”	75# PSIG	47 GPM
3/4"	100# PSIG	30 GPM
1”	75# PSIG	37 GPM
1"	100# PSIG	41 GPM
1-1/4”	65# PSIG	51 GPM
1-1/4"	100# PSIG	25 GPM
1-1/2”	65# PSIG	70 GPM
2”	65# PSIG	80 GPM

\# = Pounds per Square Inch Gage pressure

* = Flow rates (U.S. gallons per minute) do not include friction loss in piping.

** = If flow rates at lower system pressures are required, consult factory.

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⚠ WARNING **Field adjustment is NOT recommended on A.Y. McDonald Model 6214 Pressure Relief Valves.**

If the factory setting is changed, in the field, to increase the preset opening pressure, the installer must test the system to verify the changed setting will still allow adequate pressure relief relative to the capacity of the entire system. i.e. The submersible pump's total head and flow can not exceed the pressure tank's rated capacity if the switch fails to cut-off the pump.

Failure to verify could cause serious damage, personal injury or death.

This test is accomplished by SAFELY bypassing the pressure switch while watching a calibrated pressure gage in the system. The tester must be in a position to switch off the pump manually if the system pressure approaches the maximum rating of the pressure tank. If the output of the pump exceeds the capacity of the "re-set" Pressure Relief Valve a higher flow rate PRV must be selected.

WARNING: It is unlawful in **CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014)** to use any product in the installation or repair of any public water system or any plumbing in a facility or system that provides water for human consumption if the wetted surface area of the product has a weighted average lead content greater than 0.25%. This prohibition does not extend to service saddles used in California, Louisiana or under USA Public Law 111-380.

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