1548300

MODEL PRC & PRCLF 1/2"-1" (36C & 36CLF SERIES) PRESSURE REDUCING VALVE WITH INTEGRAL BY-PASS FEATURE



Installation

Prior to installing the PRC & PRCLF, all debris should be flushed from the line. Isolate the section where PRC or PRCLF is to be installed by closing the appropriate shut-off valves. Refer to Table 1 below for length dimensions for the size and end configuration of the PRC or PRCLF you plan to install. The PRC & PRCLF is designed to be Installed in a piping system with the arrow on the valve pointing in the direction of flow.

TABLE 1 Dimensions (inches)	Non-union (npt x npt)		Inlet-union (npt, solder or meter x npt)		Double-union (npt, solder or solder x solder)	
Size	1/2" & 3/4"	1"	1/2" & 3/4"	1"	1/2" & 3/4"	1"
А	3 1/2"	3 3/4"	N/A	N/A	N/A	N/A
В	N/A	N/A	4 13/32"	4 3/4"	N/A	N/A
С	N/A	N/A	N/A	N/A	5 3/8"	5 7/8"
D	1 5/8"	1 1/2"	1 5/8"	1 1/2"	1 5/8"	1 1/2"



NOTE: If a solder union is to be used, sweat the union tailpiece and nut onto the pipe prior to installing the PRC assembly, otherwise the heat could damage the assembly components.

Operation

The PRC & PRCLF are designed to reduce pressures up to 400 psi to a more functional level within its adjustment range. The standard PRC is factory set at 50 psi outlet pressure and is adjustable from 25 to 75 psi.* To increase the set pressure, loosen the locknut and turn the adjusting screw clockwise. To decrease the set pressure, turn the adjusting screw counterclockwise. Re-tighten the locknut. Allow for some fall-off from set pressure during flow conditions. Refer to Chart 1 below to determine the amount of fall-off to expect at a certain rate of flow.

Example: A PRC & PRCLF 3/4" has a inlet pressure of 100 psi and a set outlet pressure of 50 psi in the static, no-flow condition. The flow demand through the valve is expected to be 19 gpm. The chart shows the pressure fall-off to be about 18 psi. Thus the pressure will drop from 50 psi to approximately 32 psi at that flow rate.



shifts sightly to the left for a smaller differential and to the right for a greater differential. The adjustment is as follows: for a 25 psi set differential subtract 15% from the flow rate shown. For a 75 psi set differential add 15% to the flow rate shown.

* (the low range PRC comes set at 25 psi and is adjustable from 10-35 psi; the high range comes set at 100 psi and is adjustable from 75-125 psi) THIS PRODUCT MEETS THE REQUIREMENTS OF THE EPA SAFE DRINKING WATER ACT

CALIRFORNIA PROP 65: WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

FOR NON-LEAD FREE VALVES: It is illegal to use this product in the United States for potable water services d for human consumption)

FOR LEAD FREE VALVES: This product complies with U.S. Safe Drinking Water Act (SDWA). Suitable for potable water applications intended for human consumption.

FRONT

FIGURE 1

the original setting.

2. Lack of flow.



BACK