

CONTENTS

Installation Instructions 3

Location Instructions 4

Flow Curves 5

INSTALLATION INSTRUCTIONS

1. The primary station can be installed in any position on vertical or horizontal lines. However for best result, on horizontal liquid lines where the risk of air/gas entrapment in the meter tubing is prevalent, install the element with the head under the horizontal centerline. For horizontal air or gas lines the head should be above the center line to prevent condensation.
2. Leave the protective caps in place to protect the valves against construction debris, dust, paint, and other contaminants. Close the valves after installation to prevent leakage on startup.
3. For pipes 2...6 in.:
 - a. Pipes 2 in., 2-1/2 in., 3 in., 3-1/2 in. and 4 in., drill a 3/8 in. hole into pipe.
 - b. Pipes 5 in. and 6 in., drill a 7/16 in. hole.
 - c. Weld the coupling to the pipe in line with the hole.
 - d. Pass the probe through the packing gland and insert it into the pipe through the coupling. Tighten hex nut to the coupling.
 - e. Push the probe until it touches the opposite side of the pipe and tighten hex nut of the packing gland.
6. For pipes 8...24 in. with double support:
 - a. Pipes measuring 8 in. and 10 in.: Drill a 1/2 in. hole on side where reading will be taken and 13/32 in. on other side.
Pipe measuring 12 in.: Drill a 5/8 in. hole on side where reading will be taken and 17/32 in. on other side.
Pipe measuring 14 in. and 16 in.: Drill a 7/8 in. hole on side where reading will be taken and 25/32 in. on other side.
Pipe measuring 18 in., 20 in. and 24 in.: Drill a 1-1/8 in. hole on side where reading will be taken and 1-1/16 in. on other side.
 - b. Weld a coupling to the pipe in line with the hole making sure it is in line with opposite hole.
 - c. Pass the probe through the packing gland and insert it into the pipe through the coupling. Tighten hex nut to the coupling.
 - d. Push the probe through the pipe until it passes through opposite hole to ensure alignment.
 - e. Withdraw probe and weld other coupling to the pipe.
 - f. Push the probe through the packing gland until it enters other hole and is flush with outside wall of the pipe and tighten hex nut of the packing gland.
 - g. Install the plug into the coupling.

LOCATION INSTRUCTIONS

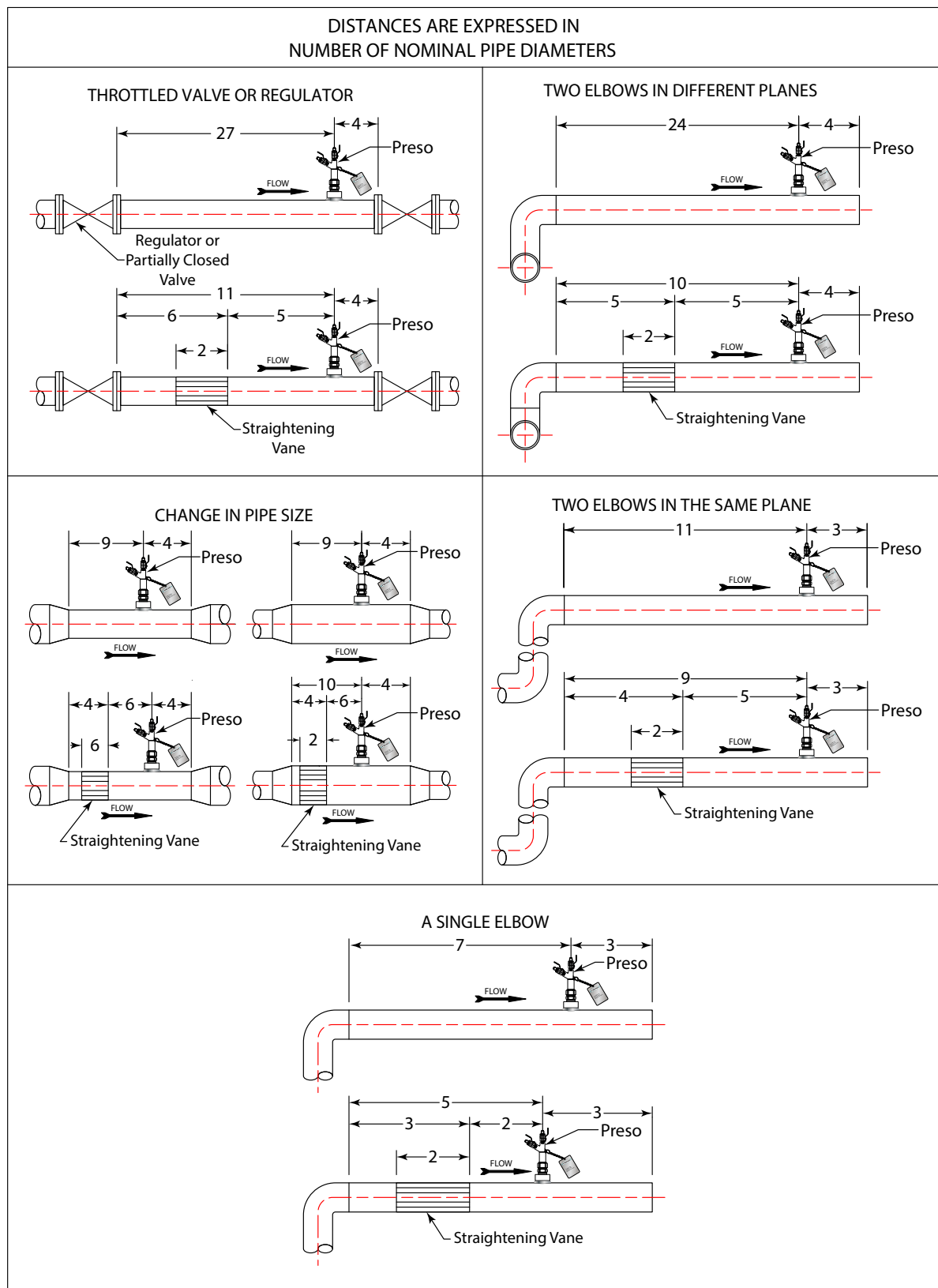
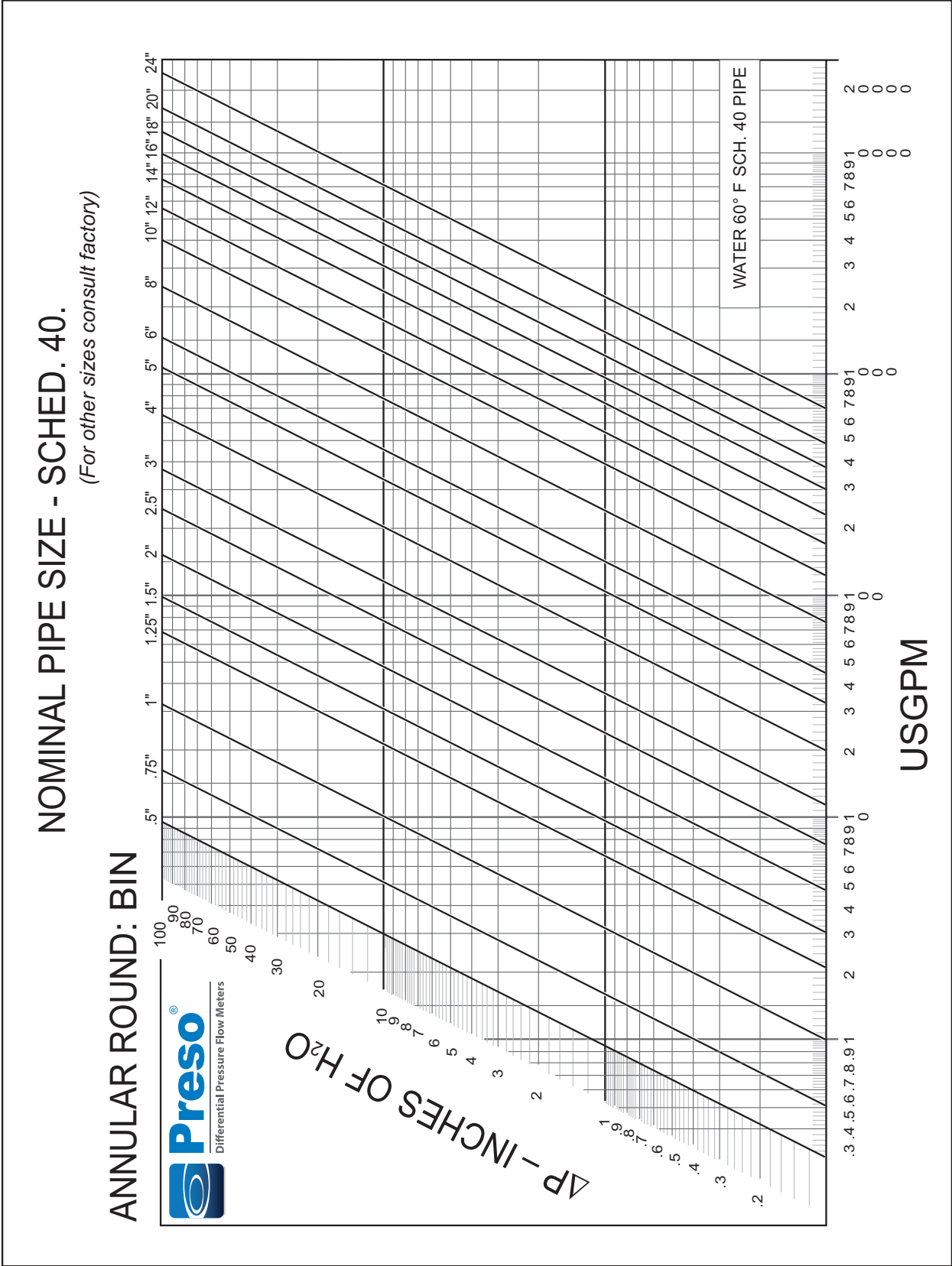
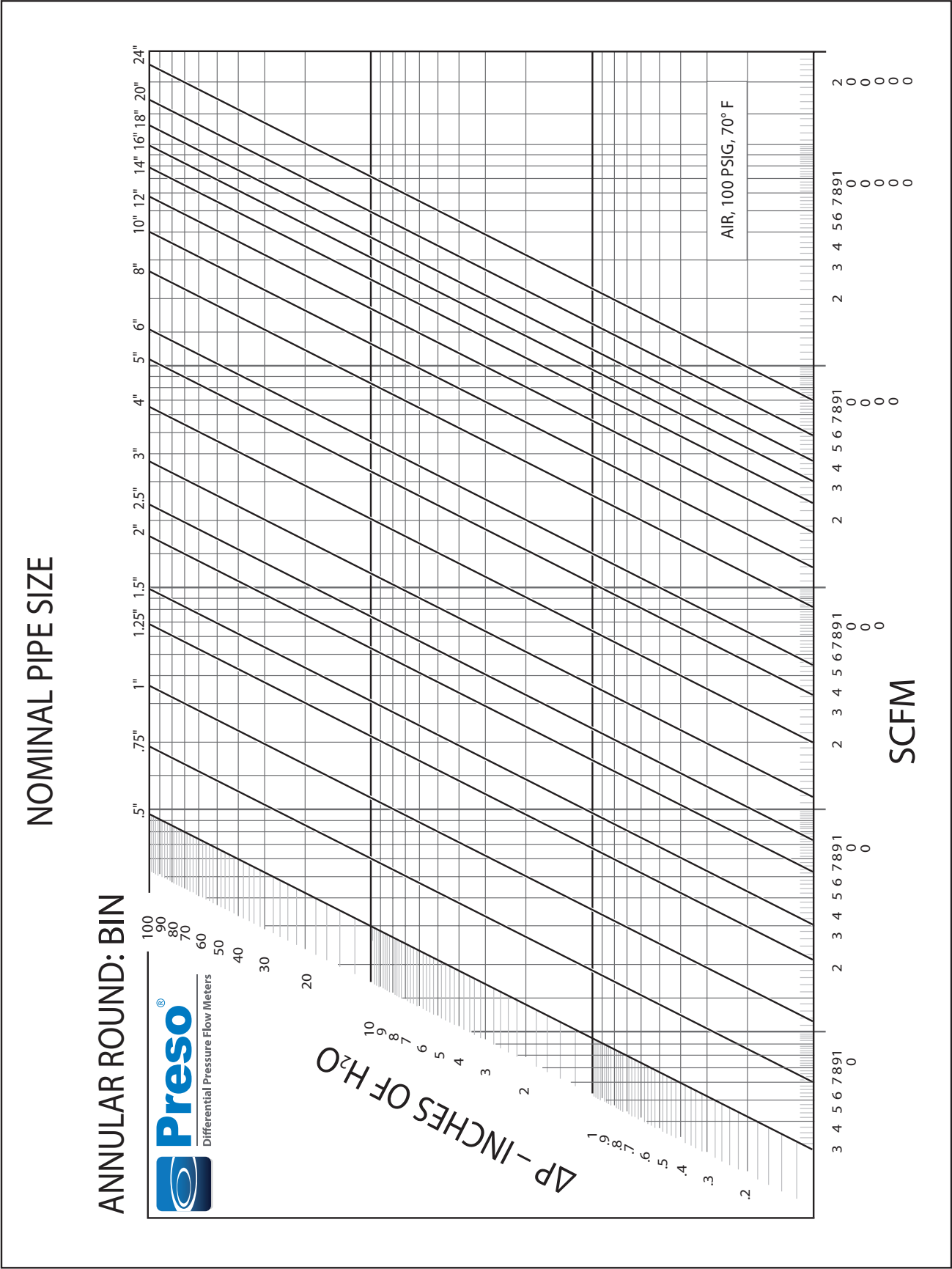
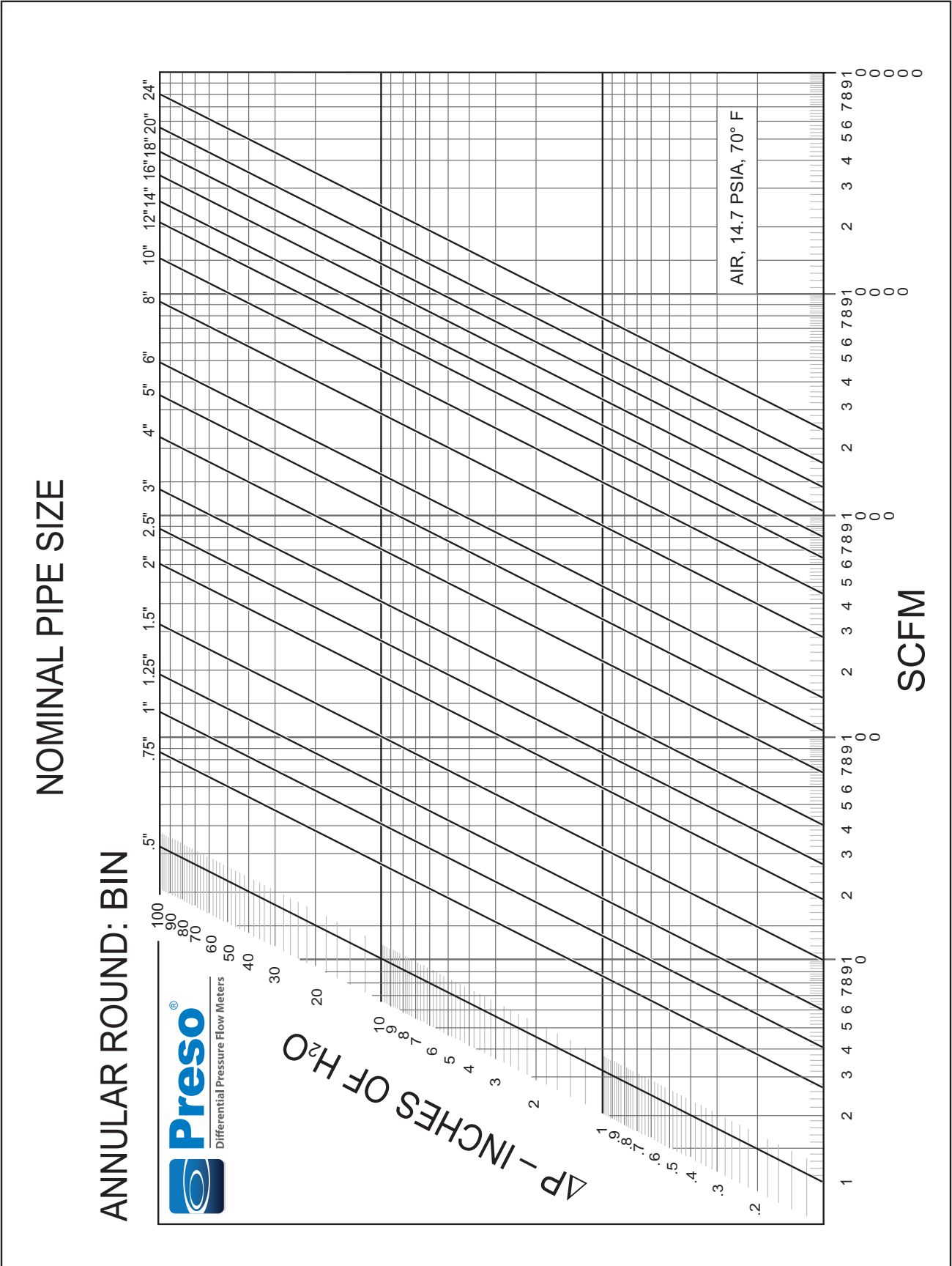


Figure 1: Location instructions

FLOW CURVES







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