

### DUCTILE IRON LOW FLOW PASS PRESSURE REDUCING VALVE (PLDILFPPRV25)



#### FEATURES & BENEFITS

- Low weight and short laying length saves initial cost, requires less space, and is easier to install.
- 200 Micron Fusion Bonded Epoxy Powder Coated internal and external ensured barrier to corrosive chemicals, moisture and humid air.
- NBR rubber diaphragm to facilitate quiet/Silent operations.
- Stable Performance, Safe & Reliable
- Simple Operation, Convenient Adjusting.
- Precise Pressure Reducing.
- Long Service Life.
- Fluctuating upstream pressure to constant pressure thus smooth water flow.
- Main valve and bypass valve for low and high flows.
- Separate adjustment of Low Flow By-Pass and reducing set points.

#### APPLICATION

- Water treatment plant.
- Water source project.
- Building Service.
- Municipal facilities.
- Power & Utility.

#### INSTALLATION INSTRUCTIONS

- The valve's rated parameters should match the equipment's. Make sure that the valve's rated flow satisfies the actual demand.
- The installer must be trained or experienced so as to operate the installation correctly.
- Water supply pipe network should be washed before pressure reducing valve installation, eliminating sand, gravel and other debris in the pipe;
- The flow direction from inlet to outlet should be paid attention to in installation, and maintenance space around the valve is convenient to assemble;
- For the size below DN150, the main valve can be installed horizontally or vertically, but horizontal installation is better. the size above DN150 only can be installed horizontally.
- After debugging, the pilot valve and the needle type flow valve must be locked with locknut;
- Valve should be checked regularly, ensuring the debris in filter being cleaned.

#### HOW IT WORKS!

The TFL Low bypass pilot operated Pressure Reducing Control Valve is designed to maintain a fluctuating higher upstream pressure to a constant lower downstream pressure regardless of varying flow rates. The pilot assembly reacts to changes in downstream pressure allowing the main valve to modulate between the open and closed position ensuring a constant downstream set pressure. Once the downstream pressure reaches the pilot setting, the main valve will modulate toward a closed position, reducing downstream pressure. Once the main valve is in closed position the low bypass at a certain pressure will allow achieve the flow requirements. Once at high demand, which is beyond the capacity of low bypass valve the main valve will open to deliver the constant flow at certain pressure