

### 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.

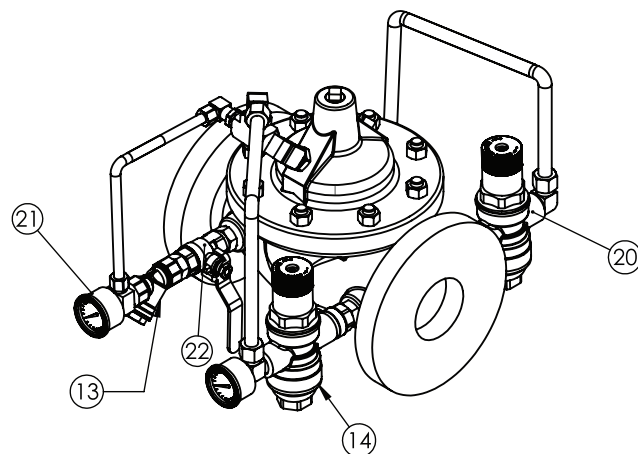
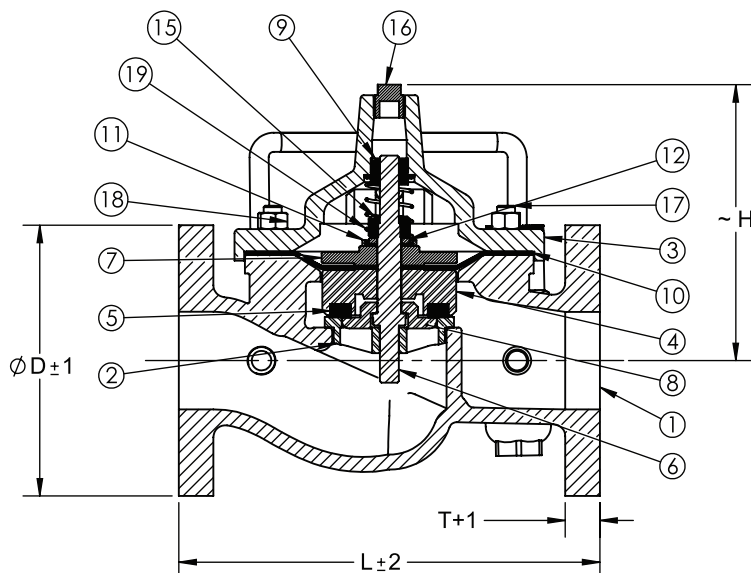
#### INSTALLATION INSTRUCTIONS

- 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

### DIMENSIONAL DRAWINGS



### MATERIAL SPECIFICATION

Part No.	Part Name	Material
1	BODY	S.G. IRON (ASTM A536 Gr 60-40-18)
2	SEAT RING	S.S.(AISI316)
3	BONNET	S.G. IRON (ASTM A536 Gr 60-40-18)
4	DISC HOLDER	S.G. IRON (ASTM A536 Gr 60-40-18)
5	DISC	S.S.(AISI316)
6	STEM	S.S.(AISI316)
7	DIAPHRAGM PLATE	S.G. IRON (ASTM A536 Gr 60-40-18)
8	DISK WASHER	S.S.(AISI316)
9	BONNET BEARING	S.S.(AISI316)
10	DIAPHRAGM	NBR
11	LOWER SPRING DISC	S.S.(AISI316)
12	STEM WASHER	S.S.(AISI316)
13	STRAINER	PHOSPHOR BRONZE (BS 1400 LG2)
14	PRV	PHOSPHOR BRONZE (BS 1400 LG2)
15	STEM NUT	S.S.(AISI316)
16	PLUG	S.S.(AISI316)
17	STUDS	M.S.
18	NUTS	M.S.
19	SPRING	SPRING STEEL
20	LOW FLOW BYPASS PRV	BRONZE (BS 1400 LG2)
21	PRESSURE GAUGE	.....
22	BALL VALVE	FORGED BRASS

### PRESSURE REGULATING RANGE

Range	0.7 Bar-16 Bar
Factory Setting	3.5 Bar

### DIMENSIONS ARE IN MM

Size	L	D	T	H
32MM	210	140	19.0	146
40MM	216	150	19.0	146
50MM	230	165	19.0	158
65MM	280	180	19.0	183.5
80MM	310	200	19.0	183
100MM	350	235	19.0	228
150MM	480	300	20	285
200MM	600	360	22	396

### PRESSURE / TEMPERATURE RATING

Pressure Rating	25 bar
Temperature	0 to 80 °C

### TEST PRESSURES

Shell	37.5 bar
Seat	27.5 bar

**Note:** Flange Dimension According to BS: EN 1092-2

TFL Valves Quality Policy Is Complete Satisfaction Of Customers. According To That We Have Selected QUALITY As A Strategic factor in application to all our organization. Our purpose is to reinforce competitiveness, to ensure customer satisfaction, to improve process related with product quality and guarantee accomplishment of quality requirements.