

## PRESSURE REDUCING VALVE, DOUBLE FLANGED

**MODEL: NF-PRV-DF80**

Pressure Reducing Valve, Model: NF-PRV-DF80 has been designed to counter the variable pressures observed in Fire main Risers Line.

Inlet Pressure : 16 Bar (232 Psi)

Outlet Pressure : 6 Bar

Flow Rate : 396 GPM at 6 Bar

(Outlet Pressure and Flow to be adjusted as per requirement)

### Pressure Test

Valve Seat Tightness : 19.5 Bar

Body Test : 25 Bar

### Painting Specification

Valve:-

Primer Coat : Epoxy based Primer

Final Coat : RED RAL3000

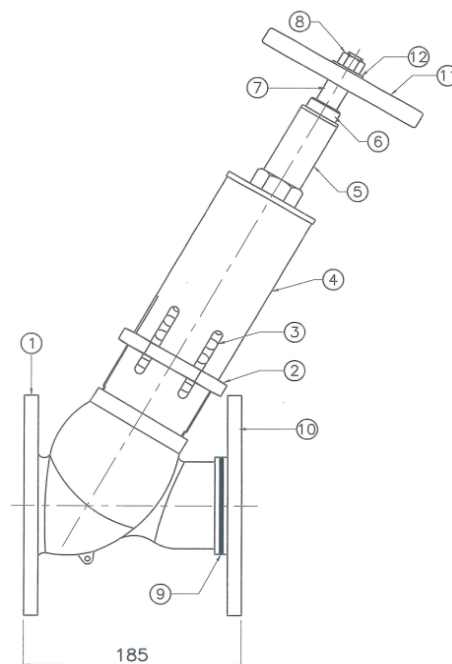
Hand Wheel:-

Primer Coat : Epoxy based Primer

Final Coat : Black Paint

### Bill of Materials

SL#	Description	Material
1	Body	Leaded Tin Bronze
2	Adjusting Hex. Nut	Leaded Tin Bronze
3	Spring	SS 304
4	Spring Chamber	Leaded Tin Bronze
5	Bonnet	Leaded Tin Bronze
6	Gland Nut	Brass
7	Spindle	Brass
8	Hex. Nut 1/2" BSW	MS. Galvanized
9	Washer	Synthetic Rubber
11	Hand Wheel	Cast Iron
12	Hand Wheel Washer	MS. Galvanized



### Installation Operation and Maintenance

- Loosen Grub Screw mounted on spring chamber
- Rotate hand wheel in anticlockwise direction and fully open the valve.
- Rotate adjusting screw in clockwise direction to increase outlet pressure.
- Rotate adjusting screw in anticlockwise direction to reduce outlet pressure.
- It is recommended to change all rubber parts at regular interval
- It is recommended to use only original manufacturer spares, if any

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### **Pressure Setting Procedure**

- Fix flange end of pressure reducing hydrant valve to mating testing bed flange with calibrated pressure gauge and flow meter installed in the testing bed to record inlet pressure and flow of the hydrant valve.
- Arrange another calibrated pressure gauge at the outlet of the pressure regulating hydrant valve to record the outlet pressure of the hydrant valve.
- With the help of hand wheel partially open the seat of the pressure reducing hydrant valve
- Start the pump and apply line pressure at the inlet of the hydrant valve note down the outlet pressure of hydrant valve and pressure difference
- To obtain required pressure at outlet of the pressure reducing hydrant valve rotate adjusting screw in clockwise direction to higher the outlet pressure i.e. to reduce pressure difference and in anti-clockwise direction to lower the outlet pressure i.e. to increase pressure difference with a static inlet pressure for both the situation. Once required outlet pressure is obtained, lock the adjusting screw with help of locking screw provided in the spring chamber