



Pressure Independent Control Valve (PICV) Maintenance Checklist

10 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Inspect the valve for external leaks at connections and glands
- ☐ Verify the valve is installed in the correct flow direction

Functional Checks

- ☐ Verify the valve flow setting matches the commissioning design flow rate
- ☐ Check actuator strokes correctly from fully open to fully closed
- ☐ Confirm the valve achieves full shut-off (zero pass-by)
- ☐ Test BMS control signal response throughout the modulating range
- ☐ Check the differential pressure across the valve is within operating range
- ☐ Confirm the valve position indicator aligns with the actuator signal

Cleaning & Housekeeping

- ☐ Clean the integral strainer (PICV strainers block more readily than line strainers)

Record Keeping

- ☐ Record flow settings, actuator condition, and strainer cleaning

Maintenance Frequency

Quarterly

- Check actuator operation
- Inspect for leaks

Every 6 Months

- Clean integral strainer
- Verify flow setting against commissioning data

Annually

- Full stroke and shut-off test
- Check differential pressure range
- Review commissioning data