

Design Standards for ROCKY Valves

Major ROCKY Valves are designed to comply with the ANSI/ASME B 16.34 pressure and temperature ratings. Further, the materials used and their structure are compatible with other standards such as JIS and ANSI/ASME, satisfying the specification needed to perform as a tire curing press valve.

(ANSI/ASME is referred to as ASME below.)

Nominal Pressure		ASME Class 300
P-T Rating		ASME B 16.34*1
Face-to-Face and End-to-End Dimensions		ROCKY-ICHIMARU Standard
End Connection	Threaded	JIS B 0203, ISO 7-1 JIS B 0202, ISO 228-1*2 ASME B 1.20.1
	Flanged	JIS B 2220 ASME B 16.5 EN 1092-1, ISO 7005-1
Wall Thickness		ASME B 16.34
Test and Inspection		ROCKY-ICHIMARU Standard*3

*1. P-T Rating

The range of usage pressures and temperatures that a valve will operate at is called the P-T Rating (Pressure-Temperature Rating). Essentially, it is the range within which the body rating defined by the pressure rating (class) and body material are both satisfied. The body rating is set for each material used in the valve body, and indicates the relationship between the valve temperature and the maximum tolerated pressure (ASME B 16.34). The seat rating indicates the tolerated pressure and temperature range of the valve seat material.

The structural pressure rating (class) of a valve and its maximum working pressure are different, so it is important to check the maximum working temperature and maximum working pressure specification for each valve.

*2. Pilot port only.

*3. Test and Inspection

All ROCKY Valves undergo the following inspection.

- Pneumatic inspection
- Seat leakage inspection
- Visual Inspection
- Operation inspection

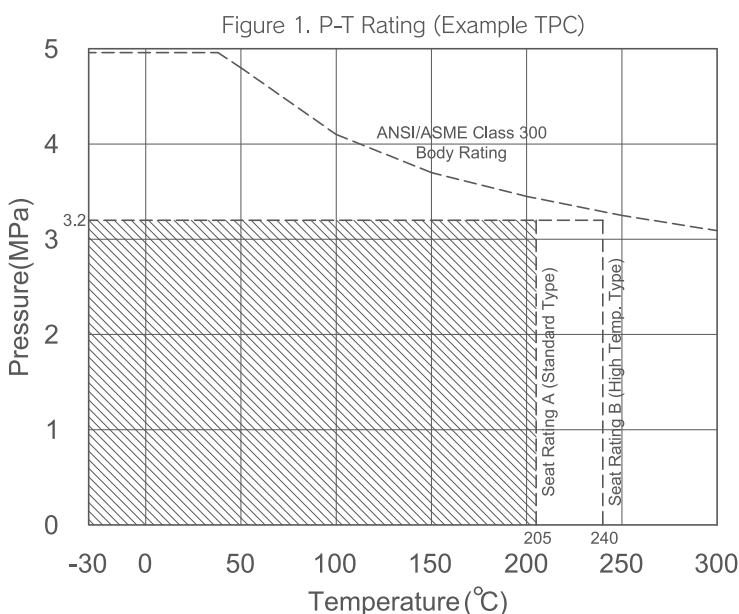


Image 3. Valve testing process

*Specifications stated in the catalog may have been changed due to improvements.