

Inspect Item					Product Quality Level				
					Qualified Product	First-Class Product	Superior Product		
Performance Test	Sealing Test	Safety Valve for Steam	Test Pressure (MPa)	Ps≤0.3	Ps-0.03				
				Ps>0.3	Safety Valve for Boilers	90%Ps	93%Ps	96%Ps	
			Ps>0.3	Safety Valve for Other Steam Equipment	90%Ps				
			Acceptance Criteria				Inspect the outlet end of the valve		
			Safety Valve for Gas	Test Pressure (MPa)	Ps≤0.3	Ps-0.03			
		Ps>0.3			90%Ps				
		Maximum Allowable Leakage Rate*: Number of Bubbles per Minute (Flow Path Diameter ≤16mm)		Ps≤6.9	40	20	10		
				6.9<Ps≤10.3	60	30	10		
				10.3<Ps≤13.8	80	40	15		
				13.8<Ps≤17.2	100	50	20		
				17.2<Ps≤20.7	100	50	20		
				20.7<Ps≤27.6	100	50	25		
		Maximum Allowable Leakage Rate*: Number of Bubbles per Minute (Flow Path Diameter >16mm)		Ps≤6.9	20	12	10		
				6.9<Ps≤10.3	30	15	10		
			10.3<Ps≤13.8	40	20	10			
	13.8<Ps≤17.2		50	25	10				
	17.2<Ps≤20.7		60	30	15				
	Safety Valve for Liquid	Test Pressure (MPa)	Ps≤0.3	Ps-0.03					
			Ps>0.3	90%Ps					
		Test Medium				水			
		Maximum Allowable Leakage Rate*: cm <sup>3</sup> /h	DN<25mm	10	9	8			
			DN≥25mm	10x(DN/25)	9x(DN/25)	8x(DN/25)			
				Note*: For safety valves with non-metallic seals used for gases and liquids, the leakage rate should be no leakage within 1 minute.					
		Performance Test Acceptance Criteria					Within the required number of continuous repetitions, all operational performance indicators and the seal after continuous testing shall meet the corresponding grade requirements.		