

<b>API RP 520-1</b>  <b>SPRING-LOADED PRESSURE RELIEF VALVE SPECIFICATION SHEET</b>		Sheet No. _____, Rev. 0 Page 1 of 1	
		Job No. OLPP	
		Date 2026-06-10	
		Prepared by:	
<b>GENERAL</b>		<b>BASIS OF SELECTION</b>	
1.	Item Number:	5.	Code: ASME VIII [ ] Stamp Required: Yes [ ] No [X]
2.	Tag Number: <b>19</b>		Other [X] Specify: <b>marked CE</b>
3.	Service, Line, or Equipment Number: <b>Vessel "IA-1"</b>	6.	Comply with API 526: Yes [ ] No [X]
4.	Number Required: <b>1</b>	7.	Fire [ ] Other [ ] Specify:
		8.	Rupture Disk: Yes [ ] No [X]
		9.	Explosion Protection Zone: No [X] Other [ ]
		10.	Ambient Temperature: +5 to +40 °C
<b>VALVE DESIGN</b>		<b>MATERIALS</b>	
11.	Design Type: Safety Relief Valve	19.	Body: <b>Specified by vendor</b>
	Conventional [X] Bellows [ ] Balanced Piston [ ]	20.	Bonnet: <b>Specified by vendor</b>
12.	Nozzle Type: Full [X] Semi [ ]	21.	Seat (Nozzle): <b>Specified by vendor</b> Disk: <b>Specified by vendor</b>
	Other [ ] Specify:	22.	Resilient Seat: <b>Specified by vendor</b>
13.	Bonnet Type: Open [ ] Closed [ ] Specified by vendor [X]	23.	Guide: <b>Specified by vendor</b>
14.	Seat Type: Metal-to-Metal [X] Resilient [ ] Specified by vendor [ ]	24.	Adjusting Rings (s): <b>Specified by vendor</b>
15.	Seat Tightness: API 527 [X]	25.	Spring: <b>Specified by vendor</b> Washer: <b>Specified by vendor</b>
	Other [ ] Specify:	26.	Bellows: <b>Specified by vendor</b>
		27.	Balanced Piston: <b>Specified by vendor</b>
<b>CONNECTIONS</b>		28.	Comply with NACE MR0175: Yes [ ] No [X]
16.	Inlet Size: <b>DN 50, PN 16, Type B, EN 1092-1</b>		
17.	Outlet Size: <b>DN 80, PN 6, Type B, EN 1092-1</b>		
18.	Other [ ] Specify:		
<b>SERVICE CONDITIONS</b>		<b>ACCESSORIES</b>	
34.	Fluid and State: <b>Steam/Water</b>	29.	Cap: Screwed [ ] Bolted [X]
35.	Required Capacity per Valve and Units: <b>1500 kg/h</b>	30.	Lifting Lever: Plain [ ] Packed [ ] None [X]
36.	Specific gravity: <b>at operating conditions 903 kg/m³</b> Molecular Weight:	31.	Test Gag: Yes [ ] No [X]
37.	Viscosity at <b>164 °C</b> Temperature and Units: [X]	32.	Bug Screen: Yes [ ] No [X]
38.	Operating Pressure and Units: <b>5,9 barg</b>	33.	Other [ ] Specify:
39.	Set Pressure and Units (NOTE 1): <b>6,5 barg</b>		
40.	Blowdown: Standard [X] Other [ ]		
41.	Latent Heat of Vaporization and Units: -	<b>SIZING AND SELECTION</b>	
42.	Operating Temperature and Units: <b>164 °C</b>		
43.	Relieving Temperature and Units: <b>172 °C</b>	50.	Calculated Orifice Area: <b>Specified by vendor</b>
44.	Built-up Back Pressure and Units: <b>0 barg</b>	51.	Selected Effective Orifice Area: <b>Specified by vendor</b>
45.	Superimposed Back Pressure and Units: -	52.	Orifice Designation (letter): <b>Specified by vendor</b>
46.	Cold Differential Test Pressure and Units (NOTE 2): <b>Specified by vendor</b>	53.	Manufacturer: <b>Specified by vendor</b>
47.	Allowable Overpressure in Percent or Units: <b>10%</b>	54.	Model Number: <b>Specified by vendor</b>
48.	Compressibility Factor, Z: <b>Specified by vendor</b>	55.	Vendor Calculations Required: Yes [X] No [ ]
49.	Ratio of Specific Heats: <b>Specified by vendor</b>		

NOTES:

- The **set pressure** is the inlet gauge pressure at which the pressure relief device is set to open under service conditions.
- The **cold differential test pressure (CDTP)** is the pressure at which a pressure relief valve is adjusted to open on the test stand. The cold differential test pressure includes corrections for the service conditions of back pressure or temperature or both.