

API RP 520-1 SPRING-LOADED PRESSURE RELIEF VALVE SPECIFICATION SHEET		Sheet No. _____, Rev. 0 Page 1 of 1	
		Job No. OLPP	
		Date 2026-06-10	
		Prepared by:	
GENERAL		BASIS OF SELECTION	
1.	Item Number:	5.	Code: ASME VIII [] Stamp Required: Yes [] No []
2.	Tag Number: 17C, 17D		Other [X] Specify: marked CE
3.	Service, Line, or Equipment Number: Vessel "T-2 ASP-6"	6.	Comply with API 526: Yes [] No [X]
4.	Number Required: 2	7.	Fire [] Other [] Specify:
		8.	Rupture Disk: Yes [] No [X]
		9.	Explosion Protection Zone: No [X] Other []
		10.	Ambient Temperature: +5 to +40 °C
VALVE DESIGN		MATERIALS	
11.	Design Type: Safety Relief Valve	19.	Body: Specified by vendor
	Conventional [X] Bellows [] Balanced Piston []	20.	Bonnet: Specified by vendor
12.	Nozzle Type: Full [X] Semi []	21.	Seat (Nozzle): Specified by vendor Disk: Specified by vendor
	Other [] Specify:	22.	Resilient Seat: Specified by vendor
13.	Bonnet Type: Open [] Closed [] Specified by vendor [X]	23.	Guide: Specified by vendor
14.	Seat Type: Metal-to-Metal [X] Resilient [] Specified by vendor []	24.	Adjusting Rings (s): Specified by vendor
15.	Seat Tightness: API 527 [X]	25.	Spring: Specified by vendor Washer: Specified by vendor
	Other [] Specify:	26.	Bellows: Specified by vendor
		27.	Balanced Piston: Specified by vendor
CONNECTIONS		28.	Comply with NACE MR0175: Yes [] No [X]
16.	Inlet Size: DN 50, PN 63, Type F, EN 1092-1		
17.	Outlet Size: DN 100, PN 16, Type B, EN 1092-1		
18.	Other [] Specify:		
SERVICE CONDITIONS		ACCESSORIES	
34.	Fluid and State: steam	29.	Cap: Screwed [] Bolted [X]
35.	Required Capacity per Valve and Units: 16 t/h	30.	Lifting Lever: Plain [] Packed [] None [X]
36.	Specific gravity: at operating conditions [X] Molecular Weight:	31.	Test Gag: Yes [] No [X]
37.	Viscosity at 323 °C Temperature and Units: [X]	32.	Bug Screen: Yes [] No [X]
38.	Operating Pressure and Units: 25,5 barg	33.	Other [] Specify:
39.	Set Pressure and Units (NOTE 1): 28,0 barg		
40.	Blowdown: Standard [X] Other []		
41.	Latent Heat of Vaporization and Units: -	SIZING AND SELECTION	
42.	Operating Temperature and Units: 323 °C		
43.	Relieving Temperature and Units: 323 °C	50.	Calculated Orifice Area: Specified by vendor
44.	Built-up Back Pressure and Units: 0 barg	51.	Selected Effective Orifice Area: Specified by vendor
45.	Superimposed Back Pressure and Units: -	52.	Orifice Designation (letter): Specified by vendor
46.	Cold Differential Test Pressure and Units (NOTE 2): Specified by vendor	53.	Manufacturer: Specified by vendor
47.	Allowable Overpressure in Percent or Units: 10%	54.	Model Number: Specified by vendor
48.	Compressibility Factor, Z: Specified by vendor	55.	Vendor Calculations Required: Yes [X] No []
49.	Ratio of Specific Heats: Specified by vendor		

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.