

 CARRARO® INDUSTRIAL VALVES SINCE 1924					Spec. Data Sheet								
Quote Nr.				DSV	1.7.00		Project						
Customer		SAMSON CONTROLS LLP					End user						
RFQ Nr.							EPC (if any)						
Item	Service						Item Nr.	2		Quantity	1		
	Tag	NEW TAG					Tag notes						
Main Applied Rules	PED (2014/68/UE) Cat.		CAT. IV		ATEX (2014/34/UE) Cat.		Group II Cat.2		NACE Requirement		N.R.		
	Other applied rules		N.R.										
General	Min. fluid T		20 C				Min. req. environment T		20 C				
	Fluid / Fluid State		Water / Liquid										
Relieving conditions	Sizing Conditions		Normal		Units								
	Required Capacity		1500,000		m3/h								
	Operating Pressure		4,923		bar.g								
	Set Pressure		5,500		bar.g								
	Backpressure		0,000		bar.g								
	Relieving Temperature		120,000		C								
Sizing Data	Sizing Code		ISO4126										
	% Overpressure		10										
	Density		943,361		kg/m3								
	Viscosity		0,232		cP								
Service Results	Remarks												
	Required orifice area		158,999		cm2								
	Selected orifice area		184,960		cm2								
	Kd (discharge coefficient)		0,813										
	Selected Capacity		1744,920		m3/h								
Type/ Mod.no.	Safety Relief Valve		CS91T-SA/AF2			Valve Type		Conventional					
Min.env.Temp. admissible		-29,0 C											
BODY	Inlet / Outlet Size		8" / 10"		Inlet / Outlet conn.		PN 40 / PN 16						
	Body material		ASME SA-216 WCC			Face Finish		Ra 3,2 to 12,5 µm					
	Adj.ring mat.(lower/upper)		ASME SA-351 CF8M / N.A.			C mm (inch)		0	B mm (inch)		0		
TRIM	Selected Area		T - 184,96 cm2										
	Nozzle material		ASME SA-479 316			Disc material		ASME SA-479 316					
	Stem material		ASME SA-479 316										
Bonnet	Bonnet Type		Closed										
	Bonnet material		ASME SA-216 WCC										
	Bonnet studs & screws		ASME SA-193 B7			Spring material		CHROME ALLOY					
	Bonnet nuts		ASME SA-194 2H										
Accessories	Lever	NO	Test gag	NO	Limit switch	NO	Name plate mat.	Stainless steel					
Painting	Body painting sys.-cycle		TBD		Body Finish Color (RAL)		TBD						
Notes	Please see the "ITEM SPECIFIC NOTES" listed below.												
Filled by	NicoliniJ		e-mail				Phone			Date	07 Feb 2025	Page	1 / 2