

SPRING - LOADED SAFETY / RELIEF VALVE SPECIFICATION SHEET				Sheet No. : 01 - B V		
				Date : 11-01-2016		
				By : Refinery Division, Ceylon Petroleum Corporation		
1. PR Item No.			01			
2. CPC Tag No.			70 SV 209 (To be stamped on the new valve name plate)			
3. Service, Line or Equipment No.			Steam Drum, Boiler V			
4. Quantity			01 No.			
5. Size	Inlet	Orifice	Out let	2.00 "	J	3.00"
6. Connection	Inlet	Outlet		Flanged	Flanged	
7. Rating/Type	Inlet	Outlet		600# RF	150# RF	
8. Valve type	Nozzle			Conventional	Full Nozzle	
9. Orifice Area	EFF	CALC	Unit	1.287	0.998	Sq. Inches
10. Bonnet			Open			
11. Cap	Test Gag			Screwed	Required	
12. Lifting lever			Plain			
13. Blow down Adjusting Rings			Required 02 nos.(one on nozzle & one on guide)			
14. Set Pressure			650 psi			
15. Relieving Temperature			259 ^o C			
16. Back Pressure			Atmosphere			
17. Fluid and State			Saturated Steam Vapour			
18. Capacity	Required	Units		14100	Kg/hr	
19. Over Pressure	Sizing Code			3%	ASME SECTION 1	
20. Material:						
Body: Carbon Steel				Nozzle : SS Type 316		
Bonnet: Carbon Steel				Disc : SS Type 316		
Spring :Manufacturer's std						

SPRING - LOADED SAFETY / RELIEF VALVE SPECIFICATION SHEET				Sheet No. : 02 - B V		
				Date : 11-01-2016		
				By : Refinery Division, Ceylon Petroleum Corporation		
1. Item No.		02				
2. CPC Tag No.		70 SV 211 (To be stamped on the new valve name plate)				
3. Service, Line or Equipment No.		Super heated Steam Out Let , Boiler V				
4. Quantity		01 No.				
5. Size	Inlet	Orifice	Out let	2.00 "	J	3.00"
6. Connection	Inlet	Outlet		Flanged		Flanged
7. Rating/Type	Inlet	Outlet		600# RF		150# RF
8. Valve type	Nozzle			Conventional		Full Nozzle
9. Orifice Area	EFF	CALC	Unit	1.287	0.894	Sq. Inches
10. Bonnet		Open				
11. Cap	Test Gag			Screwed		Required
12. Lifting lever		Plain				
13. Blow down Adjusting Rings		Required 02 nos.(one on nozzle & one on guide)				
14. Set Pressure		582 psi				
15. Relieving Temperature		414 °C				
16. Back Pressure		Atmosphere				
17. Fluid and State		Superheated Steam				
18. Capacity	Required	Units		9375		Kg/hr
19. Over Pressure	Sizing Code			3%		ASME SECTION 1
20. Material:						
Body: Carbon Steel				Nozzle : SS Type 316		
Bonnet: Carbon Steel				Disc : SS Type 316		
Spring :Manufacturer's std						

SPRING - LOADED SAFETY / RELIEF VALVE SPECIFICATION SHEET				Sheet No. : 03 - B V		
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1. Item No.		03				
2. CPC Tag No.		70 SV 212 (To be stamped on the new valve name plate)				
3. Service, Line or Equipment No.		Atomizing Steam Line, Boiler V				
4. Quantity		01 No.				
5. Size	Inlet	Orifice	Out let	1.00"	G	2.00"
6. Connection	Inlet	Outlet		Flanged	Flanged	
7. Rating/Type	Inlet	Outlet		300# RF	150# RF	
8. Valve type	Nozzle			Conventional	Full Nozzle	
9. Orifice Area	EFF	CALC	UNITS	0.503	0.086	Sq.Inches
10. Bonnet		Open				
11. Cap	Test Gag			Screwed	Required	
12. Lifting lever		Plain				
13. Blow down Adjusting Rings		Required 02 nos.(one on nozzle & one on guide)				
14. Set Pressure		150 psi				
15. Relieving Temperature		190 °C				
16. Back Pressure		Atmosphere				
17. Fluid and State		Saturated (Atomizing) Steam				
18. Capacity	Required	Units		300	Kg/hr	
19. Over Pressure	Sizing Code			3%	ASME Section 1	
20. Material:						
Body: Carbon Steel				Nozzle : SS Type 316		
Bonnet: Carbon Steel				Disc : SS Type 316		
Spring :Manufacturer's std						

SPRING - LOADED SAFETY / RELIEF VALVE SPECIFICATION SHEET				Sheet No. : 04 – B V		
				Date : 11-01-2016		
				By : Refinery Division, Ceylon Petroleum Corporation		
1. Item No.		04				
2. CPC Tag No.		70 SV 213 (To be stamped on the new valve name plate)				
3. Service, Line or Equipment No.		Economizer, Boiler V				
4. Quantity		01 No.				
5. Size	Inlet	Orifice	Out let	1.50 "	H	3.00"
6. Connection	Inlet	Outlet		Flanged	Flanged	
7. Rating/Type	Inlet	Outlet		600# RF	150# RF	
8. Valve type	Nozzle			Conventional	Full Nozzle	
9. Orifice Area	Effective	Calculated	Unit	0.785	0.752	Sq. Inches
10. Bonnet		Open				
11. Cap	Test Gag			Screwed	Required	
12. Lifting lever		Plain				
13. Blow down Adjusting Rings		Required 02 nos.(one on nozzle & one on guide)				
14. Set Pressure		678 psi				
15. Relieving Temperature		260.99 °C				
16. Back Pressure		Atmosphere				
17. Fluid and State		Saturated Steam Vapour				
18. Capacity	Required	Units	11120		Kg/hr	
19. Over Pressure	Sizing Code			3%	ASME Section 1	
20. Material:						
Body: Carbon Steel				Nozzle : SS Type 316		
Bonnet: Carbon Steel				Disc : SS Type 316		
Spring :Manufacturer's std						

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1. Item No.				05		
2. CPC Tag No.				70 SV 214 (To be stamped on the new valve name plate)		
3. Service, Line or Equipment No.				Turbo Blower, Boiler V		
4. Quantity				01 No.		
5. Size		Inlet	Orifice	Out let	3.00 "	H 4.00"
6. Connection		Inlet	Outlet		Flanged	Flanged
7. Rating/Type		Inlet	Outlet		150# RF	150# RF
8. Valve type		Conventional			Conventional	Full Nozzle
9. Orifice Area		EFF	CALC	UNITS		
10. Bonnet				Open		
11. Cap		Test Gag		Bolted	Required	
12. Lifting lever				Plain		
13. Blow down Adjusting Rings				Required 02 nos.(one on nozzle & one on guide)		
14. Set Pressure				56 psi		
15. Relieving Temperature				153 °C		
16. Back Pressure				Atmosphere		
17. Fluid and State				Steam (Turbine Exhaust)		
18. Capacity		Required	Units	4880. 8	Kg/hr	
19. Over Pressure		Sizing Code		3%	ASME Section 1	
20. Material:						
Body: Carbon Steel				Nozzle : SS Type 316		
Bonnet: Carbon Steel				Disc : SS Type 316		
Spring :Manufacturer's std						