



T-ONE-S (MFG) TRADING INC.

HEAD OFFICE
9 LANE 154 CHILIN ROAD TAIPEI 10459 TAIWAN
TEL: 886-2-25219297 FAX: 886-2-25811229 . 25815339
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MILL CERTIFICATE

Messrs : UNIMECH ENGINEERING (M) SDN BHD

Date : DEC. 24, 2021

INVOICE No.: 110196

MFG NO. ULSL196

Ref. No.: ZPO-21111-0006

DESCRIPTION	MODEL	SIZE	QTY	MATERIAL				
				VALVE BODY	VALVE SEAT	VALVE DISC	SPRING	STEM
ST.ST.316 SAFETY RELIEF VALVE				CF8M	SUS 316	SUS 316+PTFE	SUS 304	SUS 316
SCREWED END TO BSPT.	SVP-S8DL	1"x1"	3PCS	CAP	PACKING	SPRING SEAT	ADJUSTING SCREW	LEVER
WITH LEVER. SET: 150PSI.				CF8M	PTFE	SUS 304	SUS 304	SUS 304

Design standards EN ISO 4126-1:2013 Calculation Data of Safety Valve Capacity		TEST PRESSURE	
WORKING FLUID 流體:	STEAM	Explanation 說明	RESEATING PRESSURE 噴止壓力
A :	Effective discharge Area 有效面積	$Q_m = \frac{AK_{dr} P_o}{K_s}$	BY FLUID 流體
A :	78.54 mm ² A = π DL	Qm = 461.9kg/h (Discharge capacity)	150PSI.
Kd	0.99 --		(Pre-Setting)
Kdr	0.89 --		135PSI
D :	25.00 mm		
L :	1.00 mm		
Po	12.70 Kg/cm ² -A		
Pb	1.00 Kg/cm ² -A		
P :	11.50 Kg/cm ² -A		
Ov	1.20 --		
Ks :	1.924 h.mm ³ bar(abs)/kg		

We hereby certify that we have duly inspected the mentioned merchandise by CE Approval of Directive: PED 2014/68/EU Module B+D methods, and they are in perfect condition and of quality according to buyer's order standard.

3PCS OF SAFETY VALVE AS PER PROFORMA INVOICE NO: 21-2705R1

DRAWN UNDER HONG LEONG BANK BERHAD, LC NO.LCPRA042239 DATED 09 DECEMBER 2021.



式號 317-034

附件 : 64

..... AUTHORIZED SIGNATURE
M.....

T-ONES (MFG) TRADING INC.



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Date : DEC. 24, 2021

INVOICE No.: 110196

MFG NO. ULSL196

Ref. No.: ZPO-2111-0006

DESCRIPTION	MODEL	SIZE	QTY	MATERIAL				
				VALVE BODY	VALVE SEAT	VALVE DISC	SPRING	STEM
ST.ST.316 SAFETY RELIEF VALVE	SVP-S8DL	1.1/2"x2"	3PCS	CF8M	SUS 316	SUS 316	SUS 304	SUS 316
SCREWED END TO BSPT.				CAP	PACKING	SPRING SEAT	ADJUSTING SCREW	LEVER
WITH LEVER. SET: 150PSI.				CF8M	PTFE	SUS 304	SUS 304	SUS 304

Design standards EN ISO 4126-1:2013 Calculation Data of Safety Valve Capacity		TEST PRESSURE				
WORKING FLUID 流體:	STEAM	Explanation 說明	SET PRESSURE 設定壓力	RESEATING PRESSURE 噴止壓力	BY FLUID 流體	INSPECTION 測試結果
A: Effective discharge Area 有效面積	181.46 mm ²	A = π DL	150PSI.			
Kd: Discharge coefficient (0.99) 排放係數 (0.99)	0.99	(3.1416x38x1.52=181.46mm ²)	(Pre-Setting)			
Kdr: Certified reduced discharge coefficient Kdr≤0.9Kd 驗證降額定排放係數(Kd×0.9)	0.89	K _{dr} = 0.89		135PSI.	AIR	Good
D: Diameter on Valve Seat Orifice (閥座口徑)	38.00 mm	Po= 12.70				
L: LIFT (揚程)	1.52 mm	Ks=1.924				
Po: 釋放壓力(絕對值) (set + over pressure) Opening Pressure (absolute value) 背壓	12.70 Kg/cm ² -A	181.46x0.89x12.70/1.924				
Pb: Back Pressure (built-up back ressure) 容量決定壓力	1.00 Kg/cm ² -A					
P: Set Pressure on capability 超壓 10% Overpressure	11.50 Kg/cm ² -A					
Ov: 超壓 10% Overpressure	1.20					
Ks: 水蒸氣壓力係數 Specific Volume (Ks) (水蒸氣比重 Gravity: 1) KV=1	1.924 h.mm ² bar(abs)/kg	Qm = 1067.3kg/h (Discharge capacity)				

We hereby certify that we have duly inspected the mentioned merchandise by CE Approval of Directive: PED 2014/68/EU Module B+D methods, and they are in perfect condition and of quality according to buyer's order standard.

3PCS OF SAFETY VALVE AS PER PROFORMA INVOICE NO: 21-2705R1

DRAWN UNDER HONG LEONG BANK BERHAD, LC NO. LCPRA042239 DATED 09 DECEMBER 2021.



英皇牌號 : SL-07-004

附件 : 64

T-ONE-S (MFG) TRADING INC.

M. S. Ch
AUTOMATIC BALL VALVE