



T-ONES (MFG) TRADING INC.

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MILL CERTIFICATE

Messrs : UNIMECH ENGINEERING (M) SDN BHD

Date : NOV. 27, 2020

INVOICE No.: 109180

Ref. No.: ZPO-2009-0031RE

MFG NO.TKSL180

| DESCRIPTION | MODEL | SIZE | QTY | MATERIAL | | | | |
|-------------------------------|----------|---------|------|------------|------------|-------------|-------------|--------|
| | | | | VALVE BODY | VALVE SEAT | DISC/SEAL | SPRING | STEM |
| ST.ST.316 SAFETY RELIEF VALVE | SVP-S8DL | 3/4"x1" | 5PCS | CF8M | SUS316 | SUS316+PTFE | SUS304 | SUS316 |
| SCREWED END TO BSPT. | | | | CAP | NUT | PACKING | SPRING SEAT | LEVER |
| WITH LEVER. SET:150PSI | | | | CF8M | SUS304 | PTFE | SUS304 | SUS304 |

Design standards EN ISO 4126-1:2013 Calculation Data of Safety Valve Capacity

| WORKING FLUID 流體: | STEAM | Explanation 說明 | Qm = $\frac{AKdrPo}{Ks}$ | TEST PRESSURE | |
|-------------------|--|---|--|----------------------------|--------------------|
| A : | 有效面積 Effective discharge Area | 60.82 mm ² A = π DL | $Qm = \frac{AKdrPo}{Ks}$ $A = \pi DL$ $(3.1416 \times 22 \times 0.88 = 60.82 \text{ mm}^2)$ $K_{dr} = 0.89$ $P_o = 12.70$ $K_s = 1.924$ $60.82 \times 0.89 \times 12.70 / 1.924$ | RESEATING PRESSURE 噴止壓力 | |
| Kd : | 排放係數 (0.99) Kd=q ₁ /m ² qm Discharge coefficient (0.99) | 0.99 -- | | SET PRESSURE 設定壓力 | BY FLUID 流體 |
| Kdr : | 驗證降額定排放係數(Kd×0.9) Kdr=0.9Kd Certified reduced discharge coefficient | 0.89 -- | | 150PSI. (Pre-Setting) | 135PSI. |
| D : | Diameter on Valve Seat Orifice (閥座口徑) | 22.00 mm | | Good | INSPECTION 測試結果 |
| L : | LIFT (揚程) | 0.88 mm | | | |
| Po : | 釋放壓力(絕對值) (set + over pressure) Opening Pressure (absolute value) | 12.70 Kg/cm ² -A | | | |
| Pb : | 背壓 Back Pressure (built-up back ressure) | 1.00 Kg/cm ² -A | | | |
| P : | 容量決定壓力 Set Pressure on capability | 11.50 Kg/cm ² -A | | | |
| Ov : | 超壓 10% Overpressure | 1.20 -- | | | |
| Ks : | 常數 (水蒸氣比重 Gravity : 1) KV=1 | 1.924 h.mm ² bar(abs)/kg | | | |
| | | Qm = 357.7kg/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.

5PCS 316 SAFETY RELIEF VALVE AS PER INVOICE NO:109180

DRAWN UNDER THE LONG LEONG BANK BERHAD, LC NO.LCPRA041515 DATED 11 NOVEMBER 2020.



表單編號: SL-07-034

附件: 64

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 2020/02/10
 AUTHORIZED SIGNATURE

T-ONES(MFG) TRADING INC.