| | | | | | INSTRUM | ENT | DATA | SHEET | | | | |
|-----|--|------------------------|---------------|-----------------------|---------|---|---|---|------------------------------|-------------------------------------|------------------|--------|
| | INPEX - | Project | Pressu | | | | TAG No. | L-510-PRV -0046 | | | | |
| 1 | | DMINISTRA ^T | TIVE I | DENTIFICATIONS | | 67 | | Ş | SERVICE IDENTIFIC | CATIONS CO | ONTINUED | |
| | Tag number | | | L-510-PRV -0046 | | | | <u>/nstream</u> | line size | | | |
| | NA Drainat | | | ICUTUVE | | 69 | _ | | uall Alaialua ann | | | |
| | Project Module Number | | | ICHTHYS A3EE | | | | | vall thickness | | | |
| | Commissioning S | | _ | 510-010 | | | Discharge pipe orientation Downstream pipe material | | | | | |
| | Vendor Tag Nun | | | NA | | | | | insulation | | | |
| | Unit Name | | | 510 - Onshore Arriv | al | | | | ous area class | NA | Div / Zone | NA |
| 9 | | | | | | 75 | Loca | Local hazardous area group NA Temp clas | | | s NA | |
| 10 | | SERVICE | IDEN | NTIFICATIONS | | | Remote hazardous area class | | | NA | Div / Zone | |
| | Equipment | | | L-510-V-104 | | | | | rdous area group | NA | Temp class | s NA |
| | Service BDV00 | | | 1 | | | | romental | area | Outdoor | | |
| | PID / Reference | | er | L510-DP-PID-0005.001 | | | | | COMPONENT D | ECION ODI | TEDIA | |
| | Upstream line n | | | NA Pipe spec | | 80 | | colity | COMPONENT D | ESIGN CRI | IERIA | |
| | Upstream pipe s Upstream line si | | _ | NA Pipe spec | | 81 Criticality 82 Standard for size calculation | | | AS1271/API520/API526 | | | |
| 17 | | <u>ze</u> | | NA | | | | t tightness | | As per procedures | | |
| | Upstream wall the | hickness | | NA | | | Test fluid medium | | | As per procedures As per procedures | | |
| | Upstream pipe r | | | NA | | | Effective coeff of discharge | | | 713 per pr | 000000 | |
| | Fluid service | | $\overline{}$ | Instrument Air | | | Fire-fighting / Drainage | | | | | |
| | Upstream line in | sulation | - | NA | | 87 | Certification | | | | | |
| 22 | Downstream line | | | | | | Test requirements | | | As per re | quisition | |
| | Downstream pip | | | NA Pipe spec | | | | | | | | |
| 24 | | VARIABLES | | | | | | | W CONDITIONS | | | |
| 25 | Flow Conditio | n Identificati | | NA | | | | | res(superimposed) | 0 | kPa | gauge |
| | Fluid state | | | Gas/Vapor | | | | | pressure (max) | 101 | kPa | gauge |
| | Fluid phase | | | Single phase | | | | | pressure (allowed) | | kPa | |
| | Fluid name | @ Normal | - | Instrument Air | | | | c pressure | | 104 | kPa | gauge |
| | Gauge pressure Temperature @ | | | 850 kPa 44 °C | gauge | | | | re @ Maximum @ Maximum | 1040 | <u>kPa</u> °C | gauge |
| 31 | remperature @ | | | BASIS | | 96 | | iperature | RELIEVING | | | |
| | Vessel MAWP | JI | ZING | BASIS | | | Density | | | kg/m³ | | |
| _ | Presure / Vacuu | m | | Pressure | | | | id specific | : gravity | NA | Kg/III | |
| | Valve set pressu | | | 1040 kPa | gauge | | | | pecific gravity | | | |
| | Valve set vacuur | | | | .9 9- | | | ecular ma | | 29 | | |
| 36 | Accumulation (Overpressure) | | | 121 % | | 101 | Rati | o of speci | fic heat | 1.36 | | |
| | Maximum discha | | ty) | 138 kg/h | | | Visc | | | сР | | |
| | Case (fire/non-fi | | | | | | | pressibili | ty | 1 | | |
| | Exposed surface Area (fire case) | | | in ² | | | | perature | | 180.2 | °C | |
| | Non - fire case | | | °C | | | | | f vaporization | | kcal IT/kg | |
| 41 | Vessel wall temp | <u>serature</u> | | Firecase | | | | roment fa | | NA | | |
| | Sizing basis ASME Capacity (| Cortification | | riiecase | | | Two | -phase si | zing senario | NA | | |
| | Valve style | sei tillcation | | Conventional | | | Two-phase fluid conditions Saturation temperature | | | NA | | |
| | Rupture disk at | valve inlet | | Oorvertional | | | | | tion) pressure | NA | | |
| | Factor due to ba | | Kw | | | | Noncondensible gas pressure | | | NA | | |
| | Factor for back | | | | | | Mass fraction vapor (Quality) | | | NA | | |
| 48 | Combination cap | pacity factor | Kc | | | | | mole frac | | NA | | |
| 49 | Heat absorption | factor | | | | | Two-phase specific volume | | | NA | | |
| | Calculated (orific | | | 0.154 cm ² | | | Liquid specific volume | | | NA | | |
| | Calculated Area | | | D | | | Gas / Vapor specific volume | | | NA NA | | |
| | Selected (effective) area | | | 700 | | | Spec. volume(90% inl. abs pres) | | | | | |
| 53 | Selected area capacity | | | 703 kg/h | | | Liquid speciic heat Cp Den.(90% saturation abs press) | | | NA NA | | |
| | Spring set press | ure | | | | | Critical gauge pressure | | | NA NA | | |
| 56 | 5 Reaction force 6 PROCESS DESIGN CONDITIONS | | | | | 120 | | | pressure OCESS DESIGN CON | | CONTINUED | |
| | Design gauge pr | |)L310 | kPa | gauge | | | | osolute pressure | 1 | atm(stand) | |
| | Design gauge pr | | | 1040 kPa | gauge | 123 | Desi | ian amhie | nt temperature min | 0 °C | | |
| | Design temperat | | | °C | gaage | 124 | | ., ambic | toporuturo mili | | Max 100 | - |
| | Design temperature maximum | | | 100 °C | | | | | | PROPERTIES | | |
| | Fluid discharge to | | | Atmosphere | | | Critical temperature | | | | | |
| | Base absolute pressure | | | kPa | | | NFPA health hazard | | | Flammability | | |
| 63 | Base Temperature | | | °C | | | NFPA Reactivity | | | Corrosive | | |
| | Density at Base conditions | | | kg/m³ | | | Erosive | | | | Toxic | |
| | Specific gravity at Base NA | | | | | | ations | | | | | |
| 66 | Compressibility | at base | | | , | 131 | | | | | | |
| | | | | | | <u> </u> | | | | FX | | |
| | | | | | | | | | INP | | | |
| | | | | | | | | | | Ich | nthy | 15 |
| | | | | | | | | | | | PROJE | |
| 3 | P. R. | 10/10/2014 | Issue | for Construction | Н. М. | Y | Α. | Y. A. | Dwg No:L290-AX- | DAT-10061 | | Rev: 3 |
| | | Date | | Revision | Checked | + | | | Form No:802 | Sheet 3 | | |
| Rev | v j Greateu i | | | | , | | | . J | | | | |



| INDEX Jobshyo Droject | | | | | | IME | MENT DATA SHEET | | | TACNO | L 510 DDV 004/ | | | |
|-----------------------|--|---------------|-------------|--------------------------|-------------|----------|-----------------|----------------------------|---------------------------------------|----------|------------------|-------------------|--------|--------|
| | | | | | | | sur | re Relief Valve | | | TAG No. | L-510-PRV -0046 | | 40 |
| 1 | | V | ALVE | BODY | | | T | 51 | | | PERFORMANCE C | | STICS | |
| | 2 Body type | | | Cast block b | ody | | ⊥ | | Maximum press at design temp | | | 1040 | kPa | gauge |
| 3 | Nozzle style | | | | | | ⅃ | 53 N | Maximum d | esig | n temp | 100 | °C | |
| 4 | Valve nominal s | ize | | 1 x 2 | | | | 54 N | Maximum b | ack | pressure | 104 | kPa . | gauge |
| 5 | Inlet connection | nominal size | è | DN 25 | Rating | cl 300 | | 55 N | Minimum w | orkir | ng temperature | | Max | |
| | Inlet connection | | | Flanged | Style | RF | | | | | wer range-limit | | | |
| | Outlet connection | | ze | DN 50 | Rating | cl 150 | | | | | per range-limit | | | |
| | Outlet conection | | | Flanged | Style | RF | | | Rated reliev | | | | | |
| | 9 Body / Cylinder material | | | ASME SA-21 | | | T | | Rated coef | | | | | |
| | 10 Nozzle / Base material | | | 316 SST | | | T | | Rated seat I | | | | | |
| | 11 Bolting material | | | SA193 gr B7-SA194 cl 2H | | | T | | Actual disch | | | | | |
| | 12 Separable flange material | | | 3A173 YI B7-3A174 CI ZII | | | | 62 | totaar aisori | u. gc | o ui ou | | | |
| | 13 Gasket / O ring material | | | | | | | 63 | | | | | | |
| 14 | | | | † | | | | 64 | | | | | | |
| 15 | | | | + | | | | 65 | | | | | | |
| 16 | | | | | | | + | 66 | | | | | | |
| 17 | | V | ΛΙ \/Ε | TRIM | | | | 67 | | | | | | |
| | Trim type | VI | ALVL | Conventiona | | | + | 68 | | | | | | |
| | Seat style | | | Conventiona | | | + | 69 | | | | | | |
| | Orifice designati | ion | | D | | | + | 70 | | | | | | |
| | | | | _ | ? | | + | | | | | | | |
| | Orifice Effective | area | | 0.71 c | :m² | | + | 71 | | | | | | |
| | Blowdown type | | | 011004 | | | + | 72 | | | | | | |
| | Disc holder mate | | | SUS316 | /D1 · · · · | ` | + | 73 | | | | | | |
| | Disc insert mate | rial | | SUS316 HF (Bishilite) | | | | 74 | | | | | | |
| | Guide material | | | SUS316 | | | 4 | 75 | | ACCESS | SORIES | | | |
| | O ring / Soft sea | | | | | | 4 | | Silencer | | | NA | | |
| | Bellows materia | | | | | | 4 | | Weatherhood | | | NA | | |
| | Adjusting ring m | naterial | | SUS316-TP | | | _ | 78 E | | | | | NA | |
| 29 | | | | | | | | 79 E | Bugproof vent | | | NA | | |
| 30 | | | | | | | | 80 | | | | | | |
| 31 | | | | | | | | 81 | | | | | | |
| 32 | | SPRIN | <u>g an</u> | D BONNET | | | | 82 | | | | | | |
| 33 | Bonnet type | | | | | | | 83 | SPECIAL REG | | | QUIREMENTS | | |
| 34 | Bonnet style | | | Bolted | | | | 84 (| Custom tag | | | NA | | |
| 35 | Lifting device ty | pe | | plain lever | | | | 85 F | Reference specification | | | L290-AX-DAT-10003 | | |
| | Cap type | • | | Threaded cap | | | | 86 5 | Special prep | arat | tion | | | |
| | Restricted lift st | yle | | | | | | | Compliance standard | | | | | |
| | 88 Bonnet / Yoke material | | | ASME SA-216 gr WCB | | | | | Construction | | | | | |
| | Spring material | | | SWPA (A228) | | | 1 | | Certification | | | | | |
| | Spring washer / | Step materia | al | SUS316 | | | 1 | | Special insp | | าท | | | |
| | Adjusting screw | | | SUS316 | | | \top | | | | | Air/Gas | | |
| | Stem/Spindle m | | iai | SUS316 | | | + | 92 | oci vice desi | gn | | Aii7 Gas | | |
| | Cap material | ateriai | | FCMB31-08 | | | + | 93 | | | | | | |
| | Gasket / O ring | material | | T CIVIDS 1-00 | | | + | 94 | | | DLIDC | HASE | | |
| 45 | Gasket / O Ting | material | | | | | + | | Purchase or | dor | | PT216G-50 | 11 102 | |
| 46 | | | | | | | + | | tem numbe | | Humber | 0542 PriceNA | | |
| 46 | | | | | | | + | | <u>Rem numbe</u> Serial numb | | | TBA | | |
| | | | | | | | + | | | 디 | | I DA | | |
| | 18 | | | | | | ⊦ | | Dry weight Manufacturer reference dwg | | | 12W-042A/B-01-2 | | |
| 49 50 | - | | | | | | ┝ | | viariuracture | er re | referice awg | 12VV-U42A/ | D-UI-Z | |
| | | NIC AND TES | т 1 | | | | _ | 100 | | | | | | |
| 101 | | | | INDLIT | OD CET | TDOINT | | ΓEST | 1.5 | Λ IZ Λ 4 | CF. | 1 | | |
| 102 | DESCRIPTION Cold Differential Test Pressure | | | INPUT OR SETPOINT | | | - | NIA | LE/ | AKA(| GE | | | |
| | | | е | 1. | ·Do | D | _ | NA NA | | | | - | | |
| | Blowdown - Set | | | K | Pa | | +1 | NA | | | | 1 | | |
| | Pressure - Allow | reu ieak rate | | | ·Do | <u> </u> | + | NIA | | | | - | | |
| | Test pressure | | | K | Pa | gauge | : [| NA | | | | J | | |
| 107 | | | | | | | | | | | | | | |
| 108 | | | | | | 001120: | T | DE: | IEIO ET: E: | ^ | | | | |
| 109 | | | | | | 11 | DENT | INTIFICATIONS MODEL NUMBER | | | | | | |
| 110 | | | | MANUFACTURER | | | | | | | MODEL NUM | RFK | | |
| 111 | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | | | |
| 116 | <u> </u> | | | | | | | | | , | | | | |
| | | | | | | | | | | | | FX | 1 | |
| | | | | <u></u> | | | Ī | | | | Market Style Buy | | | |
| | | | | | | | | 7 | | Ich | the | 10 | | |
| | | | + | | | 7 | | | 7 | INP | ICII | PROJE | 7.5 | |
| 3 | P. R. | 10/10/2014 | lecue | for Construction | n | H. M | - | Y. A | . Y. A. | _ | wg No:L290-AX-E | | . ROJE | Rev: 3 |
| | | | rssue | | | | _ | | | - | | | | |
| Re | v Created | Date | | Revisio | m | Check | ea | Appro | ovd Signed | ı Fo | orm No:802 | Sheet 4 | 0 | f 3 |



| Tog Number: L-510-PRV-0946 This Data Sheet shall be need in conjunition with Requisition for Pleasure Relief Valves, Doc. No. L290-AX-REO-0063 and Specification for Pressure Relief Valves, Doc. No. L290-AX-REO-0063 and Specification for Pressure Relief Valves, Doc. No. L290-AX-REO-0063 and Specification for Pressure Relief Valves, Doc. No. L290-AX-REO-0063 and Specification for Pressure Relief Valves, Doc. No. L290-AX-REO-0063 and Specification for Relief Valves, Do | | | | | | | | | |
|--|--------|---------------------|--------------------------------------|-----------------------------|---|-----------------------------|-------------------------|-----------------------|---------|
| INSTRUMENT SPECIFICATION Pressure Relief Valve INSTRUMENT SPECIFICATION INSTRUMENT SPECIFICATION | | | Tag Nur | mber : | L-510-PRV -0046 | | | | |
| 3 P. R. 10/10/2014 Issue for Construction Sheet 5 of 3 | This I | Data Sh sure Rel | eet shall be rea lief Valves, Doc | nd in conjuc . No. L290- | tion with Requisition for Press AX-SPC-0006 / s-0290-1360- | sure Relief Valves 0501. | s, Doc. No. L290-AX-RE0 | Q-0053 and Specificat | ion for |
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| 3 P. R. 10/10/2014 Issue for Construction Sheet 5 of 3 | | | | | | INSTRUMENT SPECIFICATION | | | |
| 3 P. R. 10/10/2014 Issue for Construction Sheet 5 of 3 | | | | | | _ Pressu | ure keller valve | Ich | PROJECT |
| | | | | Issue for C | | Code:802 | Dwg. No.: L290-AX-DAT | Sneet 5 | 1 3 |

