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| **ITEM 1: VERIFICACIÓN, CALIBRACIÓN Y REPARACION DE VALVULAS DE ALIVIO – ESR 72 SAN JULIAN** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 11/4"X2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 11/4"X2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2"X3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIOTANQUE | 14 | BARG | 1/2"X3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL ATKDUCHAS | 14 | BARG | 1/2"X3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2"X3/8” | NPT | 1 |
| **7** | PSV-207 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2"X1” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2"X1” | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 1/2"X1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2"X3/8” | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2"X3/8” | NTP | 1 |
| **12** | TRV-302A | ALIVIO SUCCION BOMBA DE APA | 14.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **14** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **15** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4“X1" | NPT | 1 |
| **16** | TRV-305A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **17** | TRV-302B | ALIVIO SUCCION BOMBA APB | 14.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **18** | TRV-304B | ALIVIO RETORNO BOMBA AP B HACIATANQUE | 14.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **19** | TRV-307B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **20** | PSV-307B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4“X1" | NPT | 1 |
| **21** | TRV-305B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **22** | PSV-501A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 11/4“X2" | NPT | 1 |
| **23** | PSV-501B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 11/4“X2" | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 3/8“X1/2" | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULAS HUT OFF | 24.0 | BARG | 1“X1" | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV336 | 24.0 | BARG | 3/4“X1" | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4“X1" | NPT | 1 |
| **28** | PSV-834 | ALIVIO SALIDA RACK BOTELLONES BY PASS | 275.0 | BARG | 3/4“X1" | NPT | 1 |
| **29** | PSV-832A | ALIVIO BOTELLONES | 275.0 | BARG | 1“X3/4" | NPT | 1 |
| **30** | PSV-832B | ALIVIO BOTELLONES | 275.0 | BARG | 1“X3/4" | NPT | 1 |
| **31** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2“X3/4" | NPT | 1 |
| **32** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2“X3/4" | NPT | 1 |
| **33** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2“X3/4" | NPT | 1 |

**ANEXO A - LISTA DE VALVULAS DE SEGURIDAD DE LAS 27 ESR**

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| **ITEM 2: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 52 GUARAYOS** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | PSV-207 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 1/2" X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2" X 3/8” | NTP | 1 |
| **12** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **14** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **15** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **20** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **28** | PSV-834 | ALIVIO SALIDA RACK BOTELLONES BY PASS | 275.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **29** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **30** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **31** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **32** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **33** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |

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| **ITEM 3: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 71 SAN JOSE DE CHIQUITOS** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | PSV-207 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 1/2" X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2" X 3/8” | NTP | 1 |
| **12** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **14** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **15** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **20** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **28** | PSV-834 | ALIVIO SALIDA RACK BOTELLONES BY PASS | 275.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **29** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **30** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **31** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **32** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **33** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |

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| **ITEM 4: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 70 SAN IGNACIO DE VELASCO** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION DE BOMBA CENTRIFUGA | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |

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| **ITEM 5: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 66 ROBORE** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET**  **POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | PSV-207 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 1/2" X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2" X 3/8” | NTP | 1 |
| **12** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **14** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **15** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **20** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8" | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **28** | PSV-834 | ALIVIO SALIDA RACK BOTELLONES BY PASS | 275.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **29** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **30** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **31** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **32** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **33** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |

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| **ITEM 6: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 53 CABEZAS** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2" X 3/8” | NTP | 1 |
| **7** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **8** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **9** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **10** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **11** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **12** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **13** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **14** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **15** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **16** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **17** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **18** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.  0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **19** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **20** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **21** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **22** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **23** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **24** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **25** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **26** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **27** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |

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| **ITEM 7: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 64 MORA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2" X 3/8” | NTP | 1 |
| **7** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **8** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **9** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **10** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **11** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **12** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **13** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **14** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **15** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **16** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **17** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **18** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **19** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **20** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **21** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **22** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **23** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |

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| **ITEM 8: VERIFICACIÓN, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 58 COROICO** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION DE BOMBA CENTRIFUGA | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **ITEM 9: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 54 CARANAVI** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **37** | PSV-111 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **38** | PSV-112 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **39** | TRV-113 B | ALIVIO DE CARGA GNL A TK | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **40** | TRV-114 B | ALIVIO DE CARGA GNL A TK | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |

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| **ITEM 10: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 60 GUANAY** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION DE BOMBA CENTRIFUGA | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **ITEM 11: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 51 ACHACACHI** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |

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| **ITEM 12: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 57 COPACABANA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| 1 | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| 2 | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| 3 | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| 4 | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| 5 | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| 6 | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| 7 | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| 8 | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| 9 | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| 10 | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| 11 | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| 12 | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| 13 | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| 14 | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| 15 | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| 16 | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| 17 | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| 18 | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| 19 | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| 20 | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| 21 | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| 22 | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| 23 | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| 24 | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| 25 | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| 26 | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| 27 | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| 28 | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| 29 | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| 30 | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| 31 | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| 32 | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| 33 | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| 34 | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| 35 | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| 36 | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |

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| **ITEM 13: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 59 DESAGUADERO** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |

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| **ITEM 14: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 63 LLALLAGUA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **37** | PSV-777 | ALIVIO PARA TOMA DE GAS CALDERO | 6.0 | BARG | 1” X 1” | NPT | 1 |
| **38** | PSV-006 | ALIVIO CALDERO | 5.0 | BARG | 2” X 2 1/2" | NPT | 1 |

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| **ITEM 15: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 62 HUANUNI** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | PSV-207 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1” | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 1/2" X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | 14.0 | BARG | 1/2" X 3/8” | NTP | 1 |
| **12** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **14** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **15** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **16** | TRV-305A | ALIVIO DESCARGA DE BOMBA AP A | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **20** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | 285.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | 285.0 | BARG | 3/8 “ X 1/2" | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1/4 “ X F" | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1/4 “ X F" | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 1/4 “ X F" | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **28** | PSV-834 | ALIVIO SALIDA RACK BOTELLONES BY PASS | 275.0 | BARG | 3/4 “ X 1" | NPT | 1 |
| **29** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **30** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 1 “ X 3/4 " | NPT | 1 |
| **31** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **32** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **33** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **34** | PSV-777 | ALIVIO PARA TOMA DE GAS CALDERO | 6.0 | BARG | 1” X 1” | NPT | 1 |
| **35** | PSV-006 | ALIVIO CALDERO | 5.0 | BARG | 2” X 2 1/4" | NPT | 1 |

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| **ITEM 16: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 55 CHALLAPATA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |

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| **ITEM 17: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 76 UYUNI** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **37** | PSV-777 | ALIVIO PARA TOMA DE GAS CALDERO | 6.0 | BARG | 1” X 1” | NPT | 1 |
| **38** | PSV-006 | ALIVIO CALDERO | 5.0 | BARG | 2” X 2 1/2" | NPT | 1 |

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| **ITEM 18: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 75 TUPIZA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1/4 “ X F" | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1/4 “ X F" | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 1/4 “ X F" | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CENTRIFUGA | 14.0 | BARG | 1/2 “ X 3/8 " | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2 “ X 3/8 " | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO CONTENEDOR BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO BOMBA CENTRIFUGA A | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO BOMBA CENTRIFUGA B | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **20** | TRV-207 B | ALIVIO BOMBA CENTRIFUGA B | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR BOMBA CENTRIFUGA B | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO CONTENEDOR BOMBA CENTRIFUGA B | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBA CENTRIFUGA B | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBA CENTRIFUGA B | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3 , 20 BAR | 24.0 | BARG | 1 1/2 “ X 2” | NPT | 1 |
| **26** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 BAR | 24.0 | BARG | 1 1/2 “ X 2” | NPT | 1 |
| **27** | TRV-413 | ALIVIO INGRESO GNL A TK SECUNDARIO | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **28** | TRV-414 | ALIVIO INGRESO A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |

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| **ITEM 19: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 77 VILLAZON** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | 24.0 | BARG | 1 1/4 “ X 2" | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2 " | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8" | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 " | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2 “ X 3/4 " | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CENTRIFUGA | 14.0 | BARG | 1/2 “ X 3/8 " | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2 “ X 3/8 " | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR BOMBA CENTRIFUGA A | 20 | BARG | 1/2 “ X 1” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO CONTENEDOR BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO BOMBA CENTRIFUGA A | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO BOMBA CENTRIFUGA B | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **20** | TRV-207 B | ALIVIO BOMBA CENTRIFUGA B | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR BOMBA CENTRIFUGA B | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO CONTENEDOR BOMBA CENTRIFUGA B | 20.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBA CENTRIFUGA B | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBA CENTRIFUGA B | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3 , 20 BAR | 24.0 | BARG | 1 1/2 “ X 2” | NPT | 1 |
| **26** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 BAR | 24.0 | BARG | 1 1/2 “ X 2” | NPT | 1 |
| **27** | TRV-413 | ALIVIO INGRESO GNL A TK SECUNDARIO | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **28** | TRV-414 | ALIVIO INGRESO A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **29** | PSV-777 | ALIVIO TOMA DE GAS CALDERO | 6.0 | BARG | 1” x 1” | NPT | 1 |
| **30** | PSV-006 | ALIVIO CALDERO | 5.0 | BARG | 2” x 2 1/2" | NPT | 1 |

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| **ITEM 20: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 56 COBIJA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **7** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **8** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **10** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **11** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **12** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **13** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **15** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **18** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **19** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **21** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **24** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **25** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **26** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **27** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **28** | PSV-111 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **29** | PSV-112 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **30** | TRV-113 B | ALIVIO LINEA DE CARGA GNLA TK | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **31** | TRV-114 B | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |

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| **ITEM 21: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 61 GUAYARAMERIN** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-207 | ALIVIO SUCCION BOMBA CENTRIFUGA | 20.0 | BARG | 1/2" X 1”” | NPT | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | 20.0 | BARG | 1/2” X 1 “ | NPT | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 24.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **11** | TRV-301 | ALIVIO SUCCION DE BOMBA DE AP | 10.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **12** | TRV-302 A | ALIVIO SUCCION DE BOMBA DE AP A | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **13** | TRV-304 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **14** | TRV-307 A | ALIVIO RETORNO BOMBA AP A HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **15** | PSV-307 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | 275.0 | BARG | 1/2 “ X 1” | NPT | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION DE BOMBA DE AP B | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQQUE | 14.0 | BARG | 3/8” X ½” | NPT | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | 14.0 | BARG | 3/8 “ X 1/2 " | NPT | 1 |
| **20** | PSV-307 B | ALIVIO DESCARGA DE BOMBA AP B | 275.0 | BARG | 3/4 “ X 1 " | NPT | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BAMBA AP B | 275.0 | BARG | 3/8 “ X 1/2” | NPT | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **24** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | 24.0 | BARG | 1 “ X 2” | NPT | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **28** | PSV-832 A | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **29** | PSV-832 B | ALIVIO BOTELLONES | 275.0 | BARG | 3/4 “ X 1” | NPT | 1 |
| **30** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **31** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | 3.5 | BARG | 1/2” X 3/4” | NPT | 1 |
| **32** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | 275.0 | BARG | 1/2” X 3/4 “ | NPT | 1 |
| **33** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **34** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **35** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **36** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **37** | PSV-111 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **38** | PSV-112 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **39** | TRV-113 B | ALIVIO DE CARGA GNL A TK | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **40** | TRV-114 B | ALIVIO DE CARGA GNL A TK | 14.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |

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| **ITEM 22: IFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 65 RIBERALTA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **25** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **26** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **27** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **28** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **29** | PSV-111 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **30** | PSV-112 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **31** | TRV-113 B | ALIVIO LINEA DE CARGA GNLA TK | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **32** | TRV-114 B | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |

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| **ITEM 23: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 73 SANTA ANA DEL YACUMA** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION DE BOMBA CENTRIFUGA | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **ITEM 24: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 74 TRINIDAD** | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | **UNIDADES** | **TIPO DE CONEXION** | **CLASE/ NPT** | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | BARG | 1 1/4" X 2" | NPT | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | BARG | 1/2" X 3/8" | NPT | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | BARG | 1/2" X 3/8” | NPT | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 30.0 | BARG | 3/8” X 1/2" | NPT | 1 |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | BARG | 1 1/4 “ X 2” | NPT | 1 |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | BARG | 1/2 “ X 3/8” | NPT | 1 |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | BARG | 1 “ X 1 ” | NPT | 1 |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | BARG | 1/2” X 3/4” | NPT | 1 |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | BARG | 1/2" X 3/8" | NPT | 1 |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | BARG | 1/2 “ X 1 ” | NPT | 1 |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | BARG | 1/2 “ X 3/8 ” | NPT | 1 |
| **25** | PSV-411 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **26** | PSV-412 | ALIVIO TANQUE SECUNDARIO 20 M3, 20 20 BAR | 24.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **27** | TRV-413 | ALIVIO INGRESOGNL A TK SECUNDARIO | 30.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **28** | TRV-414 | ALIVIO INGRESO GNL A TK SECUNDARIO DUCHAS | 30.0 | BARG | 1/2” X 3/8” | NPT | 1 |
| **29** | PSV-111 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **30** | PSV-112 B | ALIVIO TANQUE DE ALMACENAMIENTO | 10.0 | BARG | 1 1/4” X 2” | NPT | 1 |
| **31** | TRV-113 B | ALIVIO LINEA DE CARGA GNLA TK | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |
| **32** | TRV-114 B | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14.0 | BARG | 1/2" X 3/8” | NPT | 1 |

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| **ITEM 25: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 69 SAN IGNACIO DE MOXOS** | | | | | | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | **SET POINT** | | **UNIDADES** | | **TIPO DE CONEXION** | | **CLASE/ NPT** | | **CANTIDAD** | |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | | BARG | | 1 1/4" X 2" | | NPT | | 1 | |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | 10 | | BARG | | 1 1/4" X 2" | | NPT | | 1 | |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | 14 | | BARG | | 1/2" X 3/8" | | NPT | | 1 | |
| **4** | TRV-113 | ALIVIO TANQUE | 14 | | BARG | | 1/2" X 3/8" | | NPT | | 1 | |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | 14 | | BARG | | 1/2" X 3/8” | | NPT | | 1 | |
| **6** | TRV-201 | ALIVIO SUCCION DE BOMBA CENTRIFUGA | 14.0 | | BARG | | 1/2" X 3/8” | | NPT | | 1 | |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | 24.0 | | BARG | | 3/8” X 1/2" | | NPT | | 1 | |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | 24.0 | | BARG | | 1 1/4 “ X 2” | | NPT | | 1 | |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | 24.0 | | BARG | | 1 1/4 “ X 2” | | NPT | | 1 | |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | 30.0 | | BARG | | 1/2 “ X 3/8” | | NPT | | 1 | |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | 24.0 | | BARG | | 1 “ X 1 ” | | NPT | | 1 | |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | 24.0 | | BARG | | 1/2” X 3/4” | | NPT | | 1 | |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | | BARG | | 1/2" X 3/8" | | NPT | | 1 | |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | | BARG | | 1/2" X 3/8" | | NPT | | 1 | |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | | BARG | | 1/2 “ X 1 ” | | NPT | | 1 | |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | | BARG | | 1/2 “ X 1 ” | | NPT | | 1 | |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | | BARG | | 1/2 “ X 1 ” | | NPT | | 1 | |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | | BARG | | 1/2 “ X 3/8 ” | | NPT | | 1 | |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | 14.0 | | BARG | | 1/2" X 3/8" | | NPT | | 1 | |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | 14.0 | | BARG | | 1/2" X 3/8" | | NPT | | 1 | |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | 20.0 | | BARG | | 1/2 “ X 1 ” | | NPT | | 1 | |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | 20.0 | | BARG | | 1/2 “ X 1 ” | | NPT | | 1 | |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 24.0 | | BARG | | 1/2 “ X 1 ” | | NPT | | 1 | |
| **24** | TRV-204 | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | 30.0 | | BARG | | 1/2 “ X 3/8 ” | | NPT | | 1 | |
| **ITEM 26: VERIFICACION, CALIBRACION Y REPRARCION DE VALVULAS DE ALIVIO – ESR 68 SAN BORJA** | | | | | | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | | **SET POINT** | | **UNIDADES** | | **TIPO DE CONEXION** | **CLASE/ NPT** | | **CANTIDAD** | |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | | 10 | | BARG | | 1 1/4" X 2" | NPT | | 1 | |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | | 10 | | BARG | | 1 1/4" X 2" | NPT | | 1 | |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | | 14 | | BARG | | 1/2" X 3/8" | NPT | | 1 | |
| **4** | TRV-113 | ALIVIO TANQUE | | 14 | | BARG | | 1/2" X 3/8" | NPT | | 1 | |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | | 14 | | BARG | | 1/2" X 3/8” | NPT | | 1 | |
| **6** | TRV-201 | ALIVIO SUCCION DE BOMBA CENTRIFUGA | | 14.0 | | BARG | | 1/2" X 3/8” | NPT | | 1 | |
| **7** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | | 24.0 | | BARG | | 3/8” X 1/2" | NPT | | 1 | |
| **8** | PSV-501 A | ALIVIO SALIDA VAPÒRIZADOR A | | 24.0 | | BARG | | 1 1/4 “ X 2” | NPT | | 1 | |
| **9** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | | 24.0 | | BARG | | 1 1/4 “ X 2” | NPT | | 1 | |
| **10** | TRV-507 | ALIVIO SALIDA VAPORIZADORES | | 30.0 | | BARG | | 1/2 “ X 3/8” | NPT | | 1 | |
| **11** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | | 24.0 | | BARG | | 1 “ X 1 ” | NPT | | 1 | |
| **12** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | | 24.0 | | BARG | | 1/2” X 3/4” | NPT | | 1 | |
| **13** | TRV-202 A | ALIVIO SUCCION BOMBA CETRIFUGA A | | 14.0 | | BARG | | 1/2" X 3/8" | NPT | | 1 | |
| **14** | TRV-207 A | ALIVIO RETORNO BOMBA CENTRIFUGA A | | 14.0 | | BARG | | 1/2" X 3/8" | NPT | | 1 | |
| **15** | PSV-207 A | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | | 20.0 | | BARG | | 1/2 “ X 1 ” | NPT | | 1 | |
| **16** | PSV-208 A | ALIVIO DESCARGA BOMBA CENTRIFUGA A | | 20.0 | | BARG | | 1/2 “ X 1 ” | NPT | | 1 | |
| **17** | PSV-209 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | | 24.0 | | BARG | | 1/2 “ X 1 ” | NPT | | 1 | |
| **18** | TRV-204 A | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | | 30.0 | | BARG | | 1/2 “ X 3/8 ” | NPT | | 1 | |
| **19** | TRV-202 B | ALIVIO SUCCION BOMBA CETRIFUGA A | | 14.0 | | BARG | | 1/2" X 3/8" | NPT | | 1 | |
| **20** | TRV-207 B | ALIVIO RETORNO BOMBA CENTRIFUGA A | | 14.0 | | BARG | | 1/2" X 3/8" | NPT | | 1 | |
| **21** | PSV-207 B | ALIVIO CONTENEDOR DE BOMBA CENTRIFUGA A | | 20.0 | | BARG | | 1/2 “ X 1 ” | NPT | | 1 | |
| **22** | PSV-208 B | ALIVIO DESCARGA BOMBA CENTRIFUGA A | | 20.0 | | BARG | | 1/2 “ X 1 ” | NPT | | 1 | |
| **23** | PSV-209 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | | 24.0 | | BARG | | 1/2 “ X 1 ” | NPT | | 1 | |
| **24** | TRV-204 B | ALIVIO DESCARGA BOMBAS CENTRIFUGAS | | 30.0 | | BARG | | 1/2 “ X 3/8 ” | NPT | | 1 | |
| **TEM 27: VERIFICACION, CALIBRACION Y REPARACION DE VALVULAS DE ALIVIO – ESR 67 RURRENABAQUE** | | | | | | | | | | | | |
| **N°** | **TAG** | **SERVICIO / VALVULA** | | **SET POINT** | | **UNIDADES** | | **TIPO DE CONEXION** | | **CLASE/ NPT** | | **CANTIDAD** |
| **1** | PSV-111 | ALIVIO TANQUE DE ALMACENAMIENTO | | 10 | | BARG | | 1 1/4" X 2" | | NPT | | 1 |
| **2** | PSV-112 | ALIVIO TANQUE DE ALMACENAMIENTO | | 10 | | BARG | | 1 1/4" X 2" | | NPT | | 1 |
| **3** | TRV-154 | ALIVIO DE CARGA DE GNL A TK | | 14 | | BARG | | 1/2" X 3/8" | | NPT | | 1 |
| **4** | TRV-113 | ALIVIO TANQUE | | 14 | | BARG | | 1/2" X 3/8" | | NPT | | 1 |
| **5** | TRV-114 | ALIVIO LINEA DE CARGA GNL A TK DUCHAS | | 14 | | BARG | | 1/2" X 3/8” | | NPT | | 1 |
| **6** | TRV-201 | ALIVIO SUCCION BOMBA CENTRIFUGA | | 14 | | BARG | | 1/2" X 3/8” | | NPT | | 1 |
| **7** | PSV-207 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | | 20.0 | | BARG | | 1/2" X 1” | | NPT | | 1 |
| **8** | PSV-208 | ALIVIO CONTENEDOR BOMBA CENTRIFUGA | | 20.0 | | BARG | | 1/2" X 1” | | NPT | | 1 |
| **9** | PSV-209 | ALIVIO DESCARGA BOMBA CENTRIFUGA | | 24.0 | | BARG | | 1/2" X 1” | | NPT | | 1 |
| **10** | TRV-215 | ALIVIO DESCARGA BOMBA CENTRIFUGA | | 30.0 | | BARG | | 1/2" X 3/8” | | NPT | | 1 |
| **11** | TRV-301 | ALIVIO SUCCION BOMBA DE AP | | 14.0 | | BARG | | 1/2" X 3/8” | | NTP | | 1 |
| **12** | TRV-302A | ALIVIO SUCCION BOMBA DE AP A | | 14.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **13** | TRV-304A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | | 14.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **14** | TRV-307A | ALIVIO RETORNO BOMBA AP HACIA TANQUE | | 14.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **15** | PSV-307A | ALIVIO DESCARGA BOMBA AP A | | 285.0 | | BARG | | 3/4 “ X 1" | | NPT | | 1 |
| **16** | TRV-305 A | ALIVIO DESCARGA DE BOMBA AP A | | 285.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **17** | TRV-302 B | ALIVIO SUCCION BOMBA AP B | | 14.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **18** | TRV-304 B | ALIVIO RETORNO BOMBA AP B HACIA TANQUE | | 14.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **19** | TRV-307 B | ALIVIO RETORNO BOMBA AP B GACIA TANQUE | | 14.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **20** | PSV-307 B | ALIVO DESCARGA BOMBA AP B | | 285.0 | | BARG | | 3/4 “ X 1" | | NPT | | 1 |
| **21** | TRV-305 B | ALIVIO DESCARGA DE BOMBA AP B | | 285.0 | | BARG | | 3/8 “ X 1/2" | | NPT | | 1 |
| **22** | PSV-501 A | ALIVIO SALIDA VAPORIZADOR A | | 24.0 | | BARG | | 1 1/4 “ X 2" | | NPT | | 1 |
| **23** | PSV-501 B | ALIVIO SALIDA VAPORIZADOR B | | 24.0 | | BARG | | 1 1/4 “ X 2" | | NPT | | 1 |
| **24** | TRV-507 | ALIVIO SALIDA DE VAPORIZADORES | | 30.0 | | BARG | | 1/2 “ X 3/8" | | NPT | | 1 |
| **25** | PSV-704 | ALIVIO SALIDA VALVULA SHUT OFF | | 24.0 | | BARG | | 1 “ X 1 " | | NPT | | 1 |
| **26** | PSV-334 | ALIVIO SALIDA PCV 336 | | 24.0 | | BARG | | 3/4 “ X 1" | | NPT | | 1 |
| **27** | PSV-803 | ALIVIO SALIDA VAPORIZADORES AP | | 275.0 | | BARG | | 3/4 “ X 1 " | | NPT | | 1 |
| **28** | PSV-834 | ALIVIO SALIDA RACK BOTELLONES BY PASS | | 275.0 | | BARG | | 3/4 “ X 1" | | NPT | | 1 |
| **29** | PSV-832 A | ALIVIO BOTELLONES | | 275.0 | | BARG | | 1 “ X 3/4 " | | NPT | | 1 |
| **30** | PSV-832 B | ALIVIO BOTELLONES | | 275.0 | | BARG | | 1 “ X 3/4 " | | NPT | | 1 |
| **31** | PSV-780 | ALIVIO TANQUE DE MERCAPTANO BP | | 24.0 | | BARG | | 1/2 “ X 3/4 " | | NPT | | 1 |
| **32** | PSV-790 | ALIVIO TANQUE DE MERCAPTANO AP | | 3.5 | | BARG | | 1/2 “ X 3/4 " | | NPT | | 1 |
| **33** | PSV-791 | ALIVIO DESCARGA BOMBA DE MERCAPTANO AP | | 275.0 | | BARG | | 1/2 “ X 3/4 " | | NPT | | 1 |