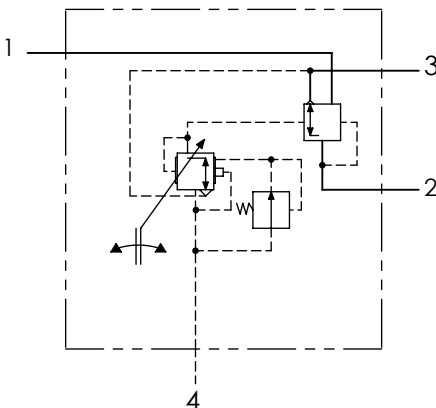
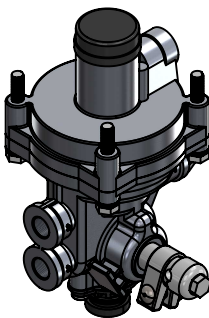
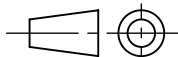
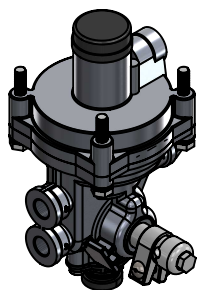
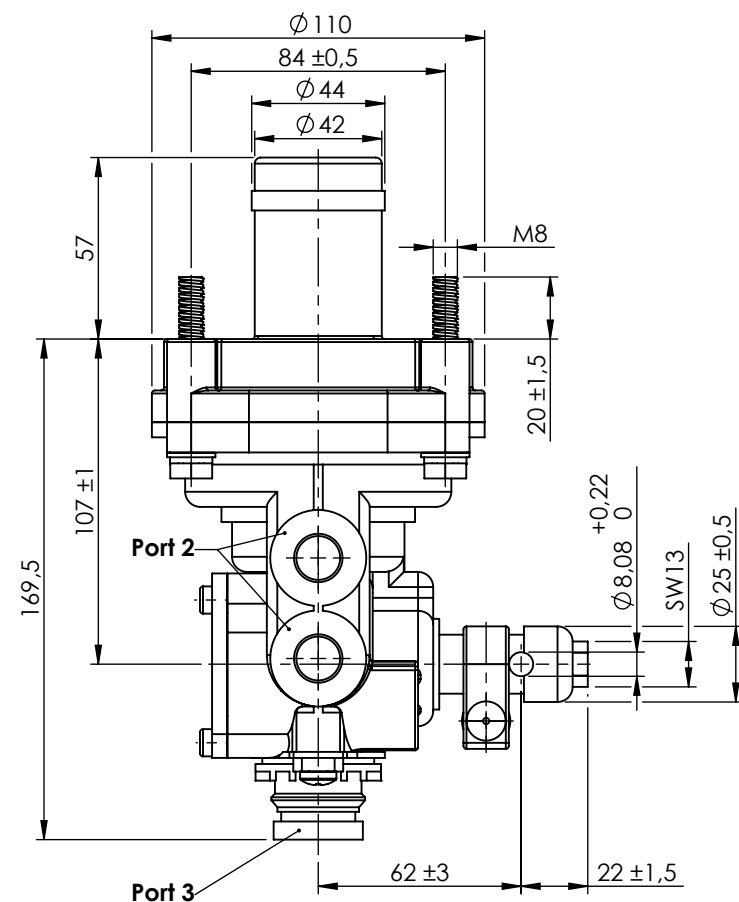
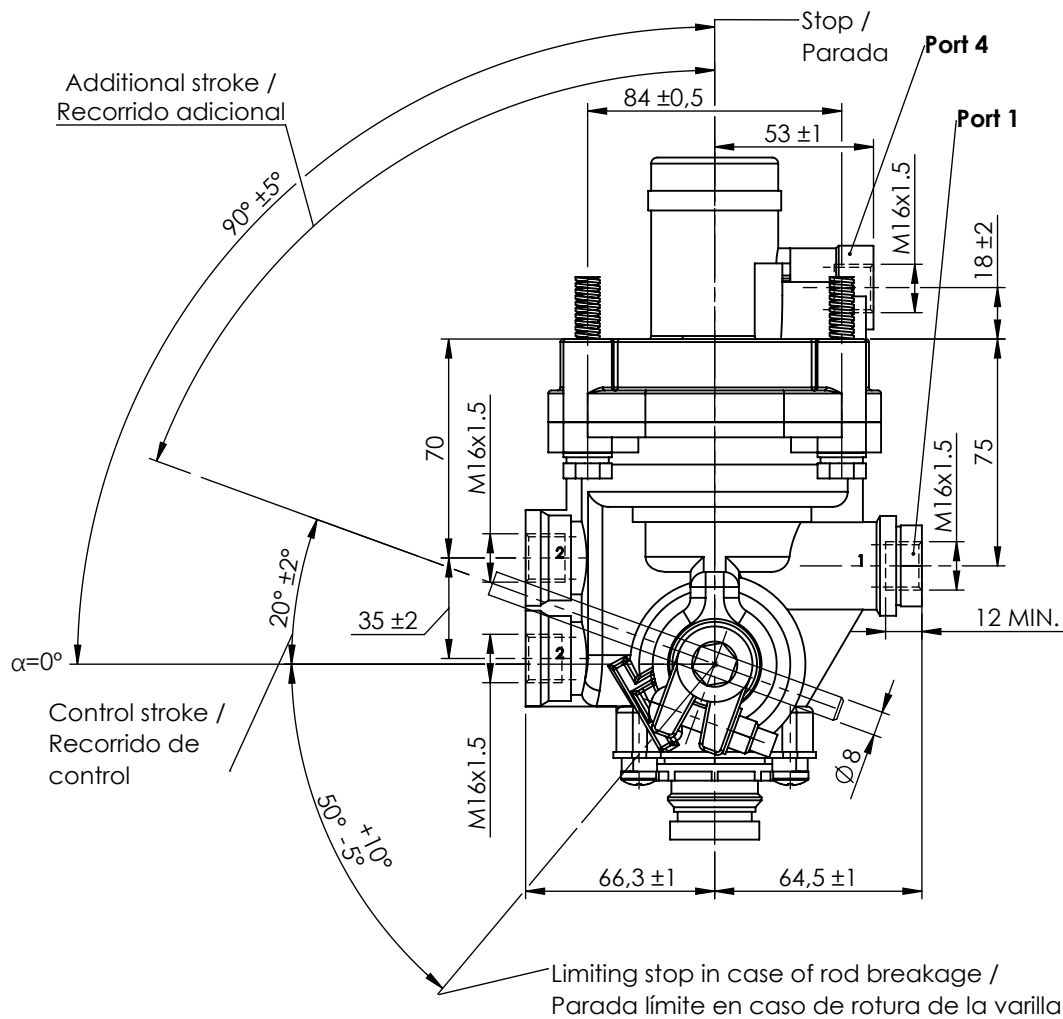
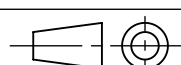


| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       | 2              |         | 3      |                   | 4                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|---------|--------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|-----------------------|---------|----------------|-----------------|------------|----|--------------------|---------|---------|---------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------|---------|
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Technical sheet / Datos técnicos:                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Part number adaptable to / Referencia adaptable a                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   | 4757100630                                                                                                                                                                                                                                                                                                                                               |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Operating pressure / Presión de trabajo                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                |         |        |                   | max. 13 bar                                                                                                                                                                                                                                                                                                                                              |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Actuation angle / Ángulo de actuación                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |                |         |        |                   | -50° to / a +20°                                                                                                                                                                                                                                                                                                                                         |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Regulation index / Índice de regulación                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                |         |        |                   | 1 : 8                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Permissible medium / Medio de funcionamiento                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                |         |        |                   | Air / Aire                                                                                                                                                                                                                                                                                                                                               |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Operating temperature range / Rango de temperatura                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |                |         |        |                   | -40°C to / a +80°C                                                                                                                                                                                                                                                                                                                                       |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Weight / Peso                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                |         |        |                   | 1900 gr                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                        |                                       |                |         |        |                   | <table><tr><th colspan="4">Pressure regulation / Regulación de presión</th></tr><tr><th>Angle / Ángulo</th><th>P1</th><th>P4</th><th>P2</th></tr><tr><td><math>\alpha = 0^\circ</math></td><td>8.0 bar</td><td>8.0 bar</td><td>1.8 bar</td></tr><tr><td><math>\alpha = 20^\circ</math></td><td>8.0 bar</td><td>8.0 bar</td><td>8.0 bar</td></tr></table> |                                                                                       | Pressure regulation / Regulación de presión                                           |           |                       |         | Angle / Ángulo | P1              | P4         | P2 | $\alpha = 0^\circ$ | 8.0 bar | 8.0 bar | 1.8 bar                               | $\alpha = 20^\circ$ | 8.0 bar                                                                             | 8.0 bar | 8.0 bar |
| Pressure regulation / Regulación de presión                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Angle / Ángulo                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P1                                    | P4             | P2      |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| $\alpha = 0^\circ$                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8.0 bar                               | 8.0 bar        | 1.8 bar |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| $\alpha = 20^\circ$                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8.0 bar                               | 8.0 bar        | 8.0 bar |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| <table><tr><th>Port / Conexión</th><th>Function / Función</th><th>Thread / Rosca</th></tr><tr><td>1</td><td>Supply / Alimentación</td><td>M16x1.5</td></tr><tr><td>2</td><td>Output / Salida</td><td>2x M16x1.5</td></tr><tr><td>3</td><td>Exhaust / Escape</td><td>-</td></tr><tr><td>4</td><td>Control pressure / Control de presión</td><td>M16x1.5</td></tr></table>                                                                                                |                                       |                |         |        |                   | Port / Conexión                                                                                                                                                                                                                                                                                                                                          | Function / Función                                                                    | Thread / Rosca                                                                        | 1         | Supply / Alimentación | M16x1.5 | 2              | Output / Salida | 2x M16x1.5 | 3  | Exhaust / Escape   | -       | 4       | Control pressure / Control de presión | M16x1.5             |  |         |         |
| Port / Conexión                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Function / Función                    | Thread / Rosca |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Supply / Alimentación                 | M16x1.5        |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Output / Salida                       | 2x M16x1.5     |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Exhaust / Escape                      | -              |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Control pressure / Control de presión | M16x1.5        |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Purpose / Propósito: To automatically control braking effort on an axle in response to the suspension deflection caused by the vehicle load and to ensure rapid supply and exhaust for the brake actuators by means of the integral relay. / Controlar automáticamente el esfuerzo de frenada en un eje como respuesta a la desviación en la suspensión causada por la carga para asegurar el rápido suministro y escape de los actuadores de freno por medio del relé. |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Installation requirements / Requisitos para la instalación: The valve must be installed vertically with the exhaust port (3) pointing downwards. At least 2 of 4 M8 mounting bolts should be used to attach the valve to the chassis. / La válvula debe montarse verticalmente con el escape (3) hacia abajo. La válvula se fijará al chasis con, al menos, 2 de los 4 tornillos M8.                                                                                    |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Modification                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4                                     |                |         |        |                   | Drawn                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                                     |                |         |        |                   | 20/07/18 A.I.                                                                                                                                                                                                                                                                                                                                            |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                                     |                |         |        |                   | Checked                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                     |                |         |        |                   | 20/07/18 O.V.                                                                                                                                                                                                                                                                                                                                            |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | nº                                    | Modified       | Date    | Reason | General Tolerance | Assembly                                                                                                                                                                                                                                                                                                                                                 |                                                                                       | -                                                                                     |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                |         |        |                   | -                                                                                                                                                                                                                                                                                                                                                        | Part name                                                                             | ALB                                                                                   |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                |         |        |                   | Material                                                                                                                                                                                                                                                                                                                                                 | ID. Reference                                                                         | 2220356                                                                               |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                |         |        |                   | -                                                                                                                                                                                                                                                                                                                                                        | Scale: -                                                                              |  | Sheet 1/2 |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                |         |        |                   | -                                                                                                                                                                                                                                                                                                                                                        | Review: 0                                                                             |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| PG/18/02 rev.1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |                |         |        |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       | 3              |         | 4      |                   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                                                                       |           |                       |         |                |                 |            |    |                    |         |         |                                       |                     |                                                                                     |         |         |



|              |    |          |      |        |                   |                                                                                       |
|--------------|----|----------|------|--------|-------------------|---------------------------------------------------------------------------------------|
| Modification | 4  |          |      |        | Drawn             |  |
|              | 3  |          |      |        | 20/07/18 A.I.     |                                                                                       |
|              | 2  |          |      |        | Checked           |                                                                                       |
|              | 1  |          |      |        | 20/07/18 O.V.     |                                                                                       |
|              | nº | Modified | Date | Reason | General Tolerance | Assembly                                                                              |
| Comments     |    |          |      |        | ISO 2768 c-K      | Part name                                                                             |
|              |    |          |      |        | Material          | ID. Reference                                                                         |
|              |    |          |      |        | Scale: 2/5        |  |
|              |    |          |      |        | Review: 0         |                                                                                       |
|              |    |          |      |        |                   | Sheet 2/2                                                                             |