RHINO
**HYDRAULIC GATE CLOSER TO COMBINE WITH 180° HINGES**

**SPECIFICATIONS**

* The gate closer shall be 100% mechanical (no electronic components).
* It shall be possible to adjust the closing speed of the gate by simply adjusting a valve with an Allen key.
* It shall be possible to activate a final snap (free run) on the gate closer to ensure the latching of the gate.
* It shall be possible to eliminate the final snap (free run) on the gate closer completely in order to have a silent closing (i.e. in combination with magnetic locks).
* The closing force shall be adjustable.
* The gate closer shall allow for a 180 degrees opening angle of the gate.
* The gate closer shall be fully compatible with 180° hinges.
* When opened 180 degrees, the gate closer should self-close over the 180 degrees.
* The gate closer should have a hydraulic dampening mechanism.
* The gate closer should be designed and manufactured in Europe or in the United States.
* The gate closer should have double rubber sealings to avoid oil leakage at all times.
* The gate closer shall be ROSPA compliant.
* The gate closer should use rotary seals (vs. linear) seals to ensure the longevity of the closer.
* The gate closer shall be able to close gates up to 150 kilo / 330 lbs and gate width up to 1,5m / 5”.
* The resistance to open the gate closer shall be 15Nm maximum.
* The gate closer shall be available in silver color.

**PERFORMANCE**

* The gate closer shall be specifically made for outdoor use (IP69).
* The hydraulic dampening shall be guaranteed to work properly under all temperature circumstances without any summer or winter adjustments, measured at a 90° opening. The viscosity of the oil shall have no impact on the performance of the gate closer.
	+ The closing time shall not be below 10 seconds at 70 degrees Celsius (summer).
	+ The closing time shall not be longer than 30 seconds at -30 degrees Celsius (winter).
* The closer shall have been tested for 500,000 movements.
* The closer shall be maintenance free (no greasing nor oil refill).
* The manufacturer warranty shall be 3 years.

**INSTALLATION**

* It shall be possible to mount the closer on minimum gate profiles of 40mm (1 37⁄64”) and with a material thickness of min. 2mm (5/64”), in openings of 15mm (5/8”) pre-drilled according to a drilling template.
* The closer shall have pre-mounted fasteners (no welding) with stainless steel bolts. All brackets for fixation should come with the product.
* The same closer shall be able to be used for both left and right turning gates.
* The closer shall not require a gate stop to be used for limiting the opening angle.
* A 3D-installation explanatory video shall be available for assisting the installer.
* Drilling templates shall be included for assisting the installer.
* An optional drilling jig should be recommended for a correct installation.

**MATERIAL**

* The mechanism shall be made out stainless steel and aluminum components.
* The housing of the mechanism shall be made from extruded, powder coated aluminum (no wet painting or anodization). The powder coating shall be according to the Qualicoat standards.
* The gate closer shall have a corrosion resistance of 500h salt spray according to ISO9227.
* The gate closer shall be fully weather- and dustproof.
* The gate closer shall have a UV-resistance against discoloration of 500h.