



The Artillian Hydraulic Flow Control Valve is designed to control the opening and closing speed of Artillian grapples. Intended for use on tractors over 32 HP as well as on tractors with "True 3rd Function Hydraulics".

The kit includes all fittings required to install with an Artillian Hydraulic Diverter Kit and/or an Artillian Hydraulic Splitter Manifold. Can also be used with a "True 3rd Function Hydraulic" system. Requires Teflon tape (not included) for sealing fittings.

The needle valve can be finely adjusted for precise flow control and locked in position using the included set screw and Allen wrench. With this accessory, you can customize the performance of your Artillian Original or Iron Fist Grapple.

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Experienced Dealer Technician - 10 Minutes

Average Dealer Technician – 15 Minutes

Do-It-Yourself - 30 Minutes

Approximate Product Specifications

Weight: 0.56 lbs.

Rating: 5,000 PSI.

Failure to use Teflon tape and tighten fittings properly will result in hydraulic fluid leakage. Double check that there are no leaks after starting tractor.

Register your new product quickly online at **Artillian.com/product-registration/**



Artillian encourages all customers to register their Artillian products. However, failure to do so will not diminish right to warranty. Curtis Industries does not sell or share your information with anyone else.



Artillian strives to continuously improve our products, technical documentation, etc. Therefore, the installation manual for this product may have been updated after your product was packaged. The latest revision of the installation manual can always be found at the website above.

Download a digital copy of your installation

instructions online at Artillian.com/literature/

The contents of this envelope are the property of the owner. Leave with the owner when installation is complete.

KIT INSTALLATION

The following instructions are intended for installing this kit with an Artillian Hydraulic Diverter Kit. The steps will be similar or the same for installation with a "True 3rd Function Hydraulic Kit".

- 1. Release pressure from hydraulics before attempting to attach any couplers.
- Disassemble mounting bracket securing 1/4" Quick Disconnect Fittings and remove fittings from hoses. If using a Hydraulic Splitter Manifold, simply remove hoses from manifold. See Figure 1.
- 3. See Figure 2. Wrap both ends of each Part 1 (1/4" NPTF X 1/4" NPTF nipple adapters) with Teflon tape (not supplied).
- 4. Following Figure 2, install one Part 1 into Part 2 (Needle Valve) making Assembly 1. Tighten firmly.
- Following Figure 2, install the second Part 1 into Part 3 (1/4" NPTF X 1/4" NPSM swivel adapter) making Assembly 2. Tighten firmly.
- 6. Per Figure 3, thread Assembly 1 onto one of the hoses removed in Step 2. Tighten firmly, making sure that the knob will be facing upwards when clamped to the loader cross bar.
- 7. Per Figure 3, thread Assembly 2 onto the other hose removed in Step 2. Tighten Firmly.
- 8. Attach Quick Disconnect Fittings removed in Step 2 to Assemblies 1 and 2. See Figure 4 for installation with a Hydraulic Splitter Manifold.
- 9. Reattach the modified hoses to the mounting bracket and tighten back in.
- 10. Carefully test to ensure there is a tight seal.
- 11. Rotate the flow control valve knob to set the desired grapple opening and closing speed. This may take several attempts to find the preferred speed. A good starting point would be 1 full rotation out from fully closed.
- 12. Tighten the set screw to lock the knob in the desired position using the supplied 1/16" Allen Wrench.



Fig. 1 (Quick Disconnect Mounting Bracket)





Fig. 3 (Hose and Assembly Attachment)



Fig. 4 (Splitter Manifold and Assembly Attachment)