



FloMAX Diesel Fuel Nozzles

Designed for on-site refueling of construction, mining, forestry, and agricultural equipment. Interchanges with Caterpillar® and Wiggins systems.

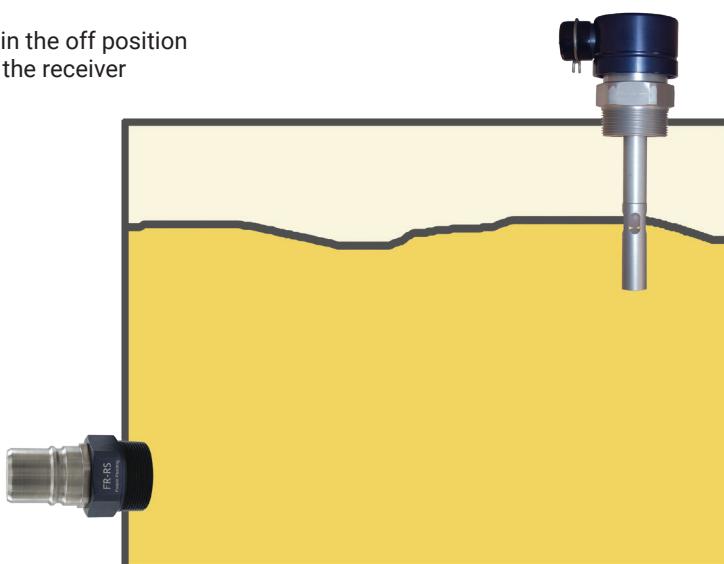
Features

- FloMAX fuel nozzles connect to all standard fuel receivers
- Nozzles ship complete with a high flow ball bearing swivel with female 1-1/2" NPT thread
- Lightweight: FN600 – 7.175 lb; FN600BL – 7.31 lb
- Felt seal to keep dirt out of locking mechanism
- Heat treated stainless steel wear parts
- Patent pending piston assembly allows the cylinder to be easily removed for rebuilding.



How it Works

- The diesel fuel tank has a vent at the top and a fuel receiver at the bottom
- The tank is filled from the bottom to help prevent foaming
- Attach the FloMAX nozzle to the receiver and lift the actuator handle to the on or open position
- As the fuel fills the tank from the bottom, air exits the top through the vent
- When the fluid level reaches the vent tube, the hollow ball in the tube will float, pushing the solid ball up to close the vent and stop the air flow out of the tank
- With no air venting out of the tank, pressure will build inside the tank
- Pressure builds up in the tank reaching approximately **8 PSI** in the tank and inside the nozzle
- As pressure increases in the nozzle cylinder assembly, the piston is pushed back against the piston spring
- When enough pressure pushes the piston back, the nozzle closes the opening for the fuel flow, and the nozzle is shut off
- Rotate the actuator handle the rest of the way to lock it in the off position
- After the nozzle is shut off it can be disconnected from the receiver



FloMAX Diesel Fuel Nozzles

Technical Information



Figure 1

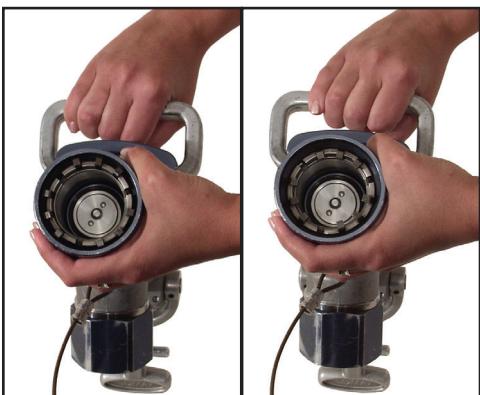


Figure 2A

Figure 2B



Figure 3



Figure 4

FN600

- With your palm on the handle and your fingers on the pullback handle, pull it towards you until the locking dogs lock in the open position and the pullback handle locks in the open position. (see figure 1)

- To check if it is opened, look to see if the dogs are locked open and are outside of the I.D. of the front assembly. (see figure 2A – open; figure 2B – closed)
- After you have pushed the nozzle all the way on to the receiver so the front end is past the groove on the receiver, the pullback handle will snap forward. Next lock the nozzle onto the receiver.
- Pull the nozzle back slightly to make sure it is properly connected to the receiver.

- Pull the latch back and rotate the actuator handle upwards. (see figure 3)
- To disconnect, rotate the actuator handle down until the latch snaps forward and locks it in the off position.
- Push forward on the nozzle to relieve pressure on the pullback handle and the dogs.
- With your palm on the handle and your fingers on the pullback handle, pull it towards you until the locking dogs lock in the open position.

- Pull the nozzle off the receiver. (see figure 4)
- After you remove the nozzle from the receiver the pullback handle should remain locked in the open position.

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Technical Information



FN600BL

- With your palm on the handle and your fingers on the pullback handle, pull it towards you and hold the pullback handle as you push the nozzle onto the receiver. (see figure 1)

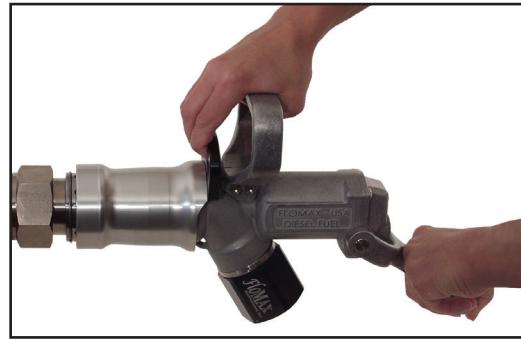


Figure 1

- With the pullback handle in the open position the locking balls should be retracted. (see figure 2)
- After you have pushed the nozzle all the way on to the receiver, so the front end is past the groove on the receiver, let the pullback handle spring forward, pushing against some resistance the last 1/4" inch past the groove on the receiver.
- If the pullback handle does not spring forward, then push the nose to within 1/4" from the hex on the receiver so that the pullback handle will snap forward.
- Pull the nozzle back slightly to make sure it is properly connected to the receiver.



Figure 2

- Pull the latch back and rotate the actuator handle upwards. (see figure 3)
- To disconnect, rotate the actuator handle down until the latch snaps forward and locks it in the off position.
- Push forward on the nozzle to relieve pressure on the pullback handle and the locking balls.



Figure 3

- With your palm on the handle and your fingers on the pullback handle, pull it towards you and hold the pullback as you pull the nozzle off the receiver. (see figure 4)
- After you remove the nozzle from the receiver let the pullback handle return to its normal position.



Figure 4

FloMAX Diesel Fuel Nozzles

Technical Information



Product Details

- 1-1/2" female NPT
- Integrated high-flow swivel
- Investment cast aluminum housing
- Heat treated stainless steel wear components
- Integrated sealing plug
- Plug/bumper assembly gives complete nose seal
- Anodized aluminum non-wear parts
- Delron® bushings eliminate metal-to-metal wear
- Stainless steel dog latch mechanism and ball lock styles available
- Tested to **180 gallons per minute**

Replacement Products

Nozzles		Sealing Plugs	
Description	Part #	Description	Part #
dog latch mechanism	FN600	for FN600	FN600B-PLUG
ball lock style	FN600BL	for FN600BL	FN600B



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