




Model #873504, & 873591
Recommended Installation, Maintenance
and Inspection Instructions

Polymer Diesel Exhaust Fluid Nozzles

Polymer-DEF
NOZZLE

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN A READILY ACCESSIBLE LOCATION.

 **WARNING!** Designed for use at diesel exhaust fluid dispensing facilities only.

INSTALLATION INSTRUCTIONS

1. Turn off dispenser and relieve line pressure.
2. Remove old nozzle and drain into approved container.
3. Inspect o-ring or face seal gasket for damage. Replace if necessary.
4. Install new nozzle - do not use thread sealant (Teflon tape, anti-seize or any other kind of sealant).
5. Tighten firmly, approximately 15 - 20 lbf·ft / 20.3 - 27.1 N·m, but do not overtighten.
6. Pressurize system and visually inspect for leaks.
7. Test nozzle for proper automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.

DO NOT OVERTIGHTEN. USE WRENCH ON HOSE NUT ONLY.

IF DRIVE OFF OCCURS

- Inspect dispensing system for damage.
- Check for loose or damaged spout.
- Check spout tip - should be in round and sensing port should be clear of debris.
- Perform flow test of nozzle automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
- Check for leaks.

TESTING / MAINTENANCE / INSPECTION



Daily

- Check for leaks / stains.
- Check for loose spouts.
- Check for damage.
- Check for bent lever.
- Check for broken clip / trigger spring.
- Check nozzle for crystallization.



Monthly

- Check nozzle automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
- Check "remove after" date.

- To remove crystallization, clean / rinse DEF products by flushing all internal passages and external parts with deionized water.
- All drive aways, maintenance and inspection activities must be logged using the serial number of the individual product.
- Apply city, state, or federal testing regulations as appropriate.

**ANY TEST / INSPECTION FAILURE
REQUIRES IMMEDIATE EQUIPMENT
REPLACEMENT OR REMOVAL FROM
SERVICE.**

MADE IN THE USA



ALWAYS ADHERE TO INSTALLATION / USAGE INSTRUCTIONS AND WARNINGS.

Improper use may result in injury, damage, or hazardous spill.



GENERAL WARNINGS / INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC

SHOCK OR INJURY TO PERSONS:



- Use of equipment is at individuals' own risk.
- Always abide and adhere to city, state, and federal regulations regarding use and installation of dispensing equipment.



- Always follow the product manufacturer's installation and maintenance instructions.
- Always turn off all power to dispenser during maintenance and inspection activities.



- Always close the shear valves during maintenance and inspection activities.
- Always relieve pressure from system prior to performing maintenance activities.



- Always check continuity after installation using a megohmmeter (Refer to PEI RP 400 for details).



- Always replace or remove from service damaged or leaking dispensing equipment immediately.



- Always report leaks / spills / accidents to appropriate authorities.



- Always wear appropriate safety equipment during maintenance activities.



- Always have appropriate fire extinguishing equipment within 5 ft / 1.5 m of dispensers.
- Never use thread sealant (Teflon tape, anti-seize or any other kind of sealant).
- Always clean / rinse DEF products with deionized water.



- Always place containers on the ground before filling.



- Always discharge static electricity before using or servicing equipment by touching a metal part of the dispenser before and after fueling vehicle.



- Never smoke within 20 ft / 6.1 m of dispensers.



- Never keep in service past recommended life.



- Never leave the nozzle unattended while dispensing fuel.



- Never use sparking or flaming devices within 20 ft / 6.1 m of dispensers.



- Never use power tools near dispensers or to aid in the installation process.



- Never use cell phone within 20 ft / 6.1 m of dispensers.



- Never reenter car when fueling vehicle.



- Never allow gasoline to touch eyes or skin.



- Never use at flow rates in excess of regulatory guidelines.

- Never use at flow rates less than 5 gpm / 18.9 Lpm.

- Never dispense flammable material into unapproved containers.

- Never dispense fuel without a valid driver's license.

CAUTION: DO NOT TOP OFF!

Topping off can lead to spills and splashes.

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WARRANTY

VAPOR PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year of installation or fifteen (15) months from the manufacture date of shipment by Husky, whichever occurs first. The warranty period on repaired or replacement vapor recovery products is only for the remainder of the warranty period of the defective product.

CONVENTIONAL PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year from the manufacture date of shipment by Husky.

Buyer must return the products to Husky, transportation charges prepaid. This Warranty excludes the replaceable bellows, bellows spring assembly, spout assembly and scuff guard, unless (i) damage is obvious when the product is removed from shipping carton and (ii) the defective product is returned to Husky prior to use. This warranty does not apply to equipment or parts which have been installed improperly, damaged by misuse, improper operation or maintenance, or which are altered or repaired in any way.

The warranty provisions contained herein apply only to original purchasers who use the equipment for commercial or industrial purposes. There are no other warranties of merchantability, fitness for a particular purpose, or otherwise, and any other such warranties are hereby specifically disclaimed.

Husky assumes no liability for labor charges or other costs incurred by Buyer incidental to the service, adjustment, repair, return, removal or replacement of products. Husky assumes no liability for any incidental, consequential, or other damages under any warranty, express or implied, and all such liability is hereby expressly excluded.

Husky reserves the right to change or improve the design of any Husky fuel dispensing equipment without assuming any obligations to modify any fuel dispensing equipment previously manufactured.

OPERATION INSTRUCTIONS

1. Activate dispenser.
2. Insert spout into fill pipe opening.
3. Lower hose end of nozzle so the spout ring catches the inside of the fill pipe.
4. Raise the lever and begin dispensing.
5. Nozzle will shut off automatically when the tank is full.
6. Wait 15 seconds to allow any fluid remaining in the spout to drain.
7. Remove nozzle from fill pipe by raising hose end of the nozzle.
8. Return nozzle to nozzle boot.

HOLD OPEN CLIP INSTRUCTIONS

Model #3593 Hold Open Clip Kit

INSTALLATION

1. Remove nozzle from hose and drain.
2. Position latch spring under latch clip and hold them in place. The latch clip should straddle the mating holes in the trigger lever.
3. Insert latch rivet through latch clip and lever, making sure latch spring is secured in position by the rivet.
4. Install push nut on rivet - DO NOT hammer in place.
5. Squeeze lever several times to check operation.
6. Verify clip and lever are parallel.

REMOVAL

1. Remove nozzle from hose and drain.
2. Place nozzle on a flat surface in safe location.
3. Hold up on the latch clip to prevent rivet from rotating.
4. Drill off the riveted end using a 1/4 in / 6.4 mm bit.
5. Remove clip, rivet and torsion clip spring.
6. Do not remove latch plate.

TROUBLESHOOTING GUIDE

Nozzle keeps shutting off or won't dispense...

1. Make sure dispenser is on and activated.
2. Slow down flow rate - use lower notch on clip.
3. Clean spout tip end.
4. Clean or replace filter.
5. Inspect Safe-T-Break®.
6. Replace spout assembly.
7. Clean loss motion diaphragm cartridge assembly.

Nozzle won't shut off...

1. Check flow rate - minimum of 3 gpm / 11.4 Lpm required.
2. Remove nozzle and drain hose.
3. Check vacuum cap screws are tightened securely.

Nozzle leaks...

1. Check for loose spout.
2. Check hose connection.
3. Check for cracks in nozzle and hose threads.

Low flow rate...

1. Verify dispenser is not in slow flow mode.
2. Check for system leaks.

CLEANING INSTRUCTIONS

1. Remove nozzle from hose and drain.
2. Remove nozzle guard and waffle splash guard (if applicable).
3. Remove spout assembly.
4. Clean the spout assembly - pour deionized water into end of the vent tube to flush both the vent tube.
5. Flush all internal passages and external parts with deionized water.
6. Flush vacuum passages and external parts with deionized water.
7. Inspect spout assembly for damage.
8. Replace any damaged or cracked o-rings.
9. Reinstall spout assembly.
10. Reinstall nozzle to hose according to the manufacturers installation instructions included on page 1 of this document.

***Only clean DEF products with deionized water.
Do not reinstall damaged spout assemblies or cartridges.***

GENERAL TECHNICAL DATA

Fuel Type	Test and warranty for Diesel Exhaust Fluid dispensing only	Lever	One piece contoured steel
Flow Rate	10 gpm / 37.9 Lpm	Shipping Weight	1.5 lbs / .7 kg
Body	Plastic	Threads	1" / 25.4 mm BSPP
Disc	Fluorocarbon	Spout	¾" / 19 mm O.D.
Packing	Double O-ring seal protected by fiber reinforced Teflon	Case Quantity	15

SPOUT REPLACEMENT INSTRUCTIONS

1. Remove spout lock nut and spout.
2. Remove and discard spout seal.
3. Place new spout seal in groove.
4. Insert new spout into body making sure the vent tube is in the port.
5. While holding the spout in proper alignment, tighten the spout lock nut firmly, approximately 35 - 60 lbf•ft / 47 - 81 N•m. Do not overtighten.