

**Husky****Recommended Installation, Maintenance
and Inspection Instructions****Conventional Farm / Consumer Pump
Nozzles****XFS & 1GS
NOZZLES**

^45703N	^45710N	^457208N	^696203N	^6962209N
^45704N	^337003N	^457209N	^696204N	45703NR
45707	^337004N	^503403N	^696210N	45704NR
45708	337007	^503404N	1096212	45710NR
^45709N	337008	503407	^6962208N	45712

SEE LISTINGS FOR DETAILS

IMPORTANTSAFETYINSTRUCTIONS-SAVETHESEINSTRUCTIONSINAREADILYACCESSIBLELOCATION.

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov**WARNING** Designed for use at motor fuel dispensing facilities only.**INSTALLATION INSTRUCTIONS**

1. Turn off dispenser and relieve line pressure.
2. Use pipe thread sealant (not Teflon® tape) approved for gasoline on the male threads of hose section.
3. Tighten approximately 1 to 2 turns past hand tight - do not overtighten.
4. Pressurize system and visually inspect for leaks.
5. 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**

- Turn off dispenser and relieve line pressure.
- Visually check for fractured spout shear groove.
- Check for leaks.
- 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 electrical conductivity.

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.

**Monthly**

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

**Annually**

- Check for electrical conductivity.
- Lubricate main valve stem.

- 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 PERSON:**

- 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.
- Always use pipe sealant approved for gasoline service.



- 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.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN A READILY ACCESSIBLE LOCATION.**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 spring catches the inside of the fill pipe.
4. Raise the lever and begin fueling.
5. Nozzle will shut off automatically when the tank is full.
6. Wait 15 seconds to allow any fuel 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.

NOTE: Nozzle is equipped with a unique Flo-Stop® device that shuts off the nozzle if it falls from fill pipe or raises above horizontal. Model 045709 is excluded.

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. Check dispenser pressure - 2 psi / 0.1 bar to activate nozzle.
8. Remove nozzle & drain hose if using pressure activated nozzle.

Nozzle won't shut off...

1. Check flow rate - minimum of 2 gpm / 7.6 Lpm required.
2. Remove nozzle and drain hose.

Nozzle leaks...

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

Low flow rate...

1. Remove flow limiter (if equipped).
2. Verify dispenser is not in slow flow rate mode.
3. Check for system leak.

Flow rate above 10 gpm / 37.9 Lpm...

1. Verify flow limiter is being used - either inside or outside dispenser.
2. Check the flow limiter for debris.

GENERAL TECHNICAL DATA

Fuel Type		Test and warranty for gasoline and diesel fuel
Flow Rate	XFS	Unleaded w/o Flo-Equalizer® = 18 gpm / 68.1 Lpm Light Duty Diesel w/o Flo-Equalizer® = 18 gpm / 68.1 Lpm
	1GS	Unleaded w/o Flo-Equalizer® = 15 gpm / 56.8 Lpm Light Duty Diesel w/o Flo-Equalizer® = 16 gpm / 60.6 Lpm High Flow Diesel w/o Flo-Equalizer® = 20 gpm / 75.7 Lpm
Body		Die cast aluminum
Disc		Fluorocarbon
Packing		Double O-ring seal protected by fiber reinforced Teflon
Lever		Two Piece Polymer EZ Lever
Shipping Weight	XFS	Unleaded = 3 lbs / 1.3 kg Light Duty Diesel = 3.2 lbs / 1.4 kg
	1GS	Unleaded = 3.6 lbs / 1.6 kg Light Duty Diesel = 3.6 lbs / 1.6 kg High Flow Diesel = 3.6 lbs / 1.6 kg
Threads	XFS	¾" / 19.1 mm NPT
	1GS	1" / 25.4 mm NPT
Spout		Unleaded = 13/16" / 21 mm O.D. Light Duty Diesel = 15/16" / 24 mm O.D. High Flow Diesel = 1½" / 28.6 mm O.D.
Case Quantity		15

Listings	Default 	^ NOT LISTED
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FLO-EQUALIZER® INSTALLATION INSTRUCTIONS

Model 004490 Flo-Equalizer®

1. Turn off dispenser and relieve line pressure.
2. Install pipe nipple (if necessary) to achieve proper flow direction.
3. Use thread sealant on male threads -- DO NOT use Teflon® tape.

4. Tighten snugly -- DO NOT overtighten.
5. Confirm nozzle is properly installed, pressurize the system and check for leaks.

NOTE: In the event of pressure differential in excess of 25 PSI / 1.7 bar across the Flo-Equalizer® or the presence of debris obstructing movement of internal components, the Flo-Equalizer® output may exceed 10 gpm / 37.9 Lpm.

SPOUT REPLACEMENT INSTRUCTIONS

Model 001473, 003356 Unleaded;
001471, 003358 Light Duty Diesel;
005215 Heavy Duty Diesel

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 spout lock nut firmly, approximately 35 - 60 lbf•ft / 47 - 81 N•m. Do not overtighten.

HOLD OPEN CLIP REMOVAL INSTRUCTIONS

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 ¼ in / 6.4 mm bit.
5. Do not remove latch plate.

NOTE: Nozzles can be ordered without clips.

GUARD REPLACEMENT INSTRUCTIONS

NOZZLE GUARD

Model 004145, 000554

1. Turn off dispenser and relieve line pressure.
2. Remove nozzle from hose.
3. Remove old guard.
4. Install new guard over spout and pull back to cover nozzle body.
5. Re-install nozzle to hose.
6. Test nozzle for automatic shut off.

NOZZLE REGUARD

Model 001804, 001806

1. Cut old guard at nozzle inlet and remove from nozzle.
2. Install new reguard over spout and pull back to cover nozzle body.
3. Pull tie through the eyelets and loop under nozzle inlet.
4. Pull tightly and trim off excess tie.

POPD® GUARD

Model 006655, 006665

1. Turn off dispenser and relieve line pressure.
2. Remove nozzle from hose.
3. Remove old guard.
4. Install new guard over spout and pull back to cover nozzle body.
5. Re-install nozzle to hose.
6. Test nozzle for automatic shut off.
7. Install desired advertisement and clear cover (model 006628).

POPD® REGUARD

Model 007205, 007210

1. Cut old guard at nozzle inlet and remove from nozzle.
2. Install new reguard over spout and pull back to cover nozzle body.
3. Pull tie through the eyelets and loop under nozzle inlet.
4. Pull tightly and trim off excess tie.
5. Install desired advertisement and clear cover (model 006628).

ACCESSORIES

Model 000385 Reducer Bushing

Model 000397 Unleaded spout gauge

Model 000548 1GS Hook for Unleaded & Light Duty Diesel