XFS and 1GS
Recommended Installation, Maintenance and Inspection Instructions

Conventional Farm Nozzles

FARM NOZZLES

Model #									
	045703	045708	045716	045761	078610	337004	337016	503415	503603
	045704	045710	045738	078603	078659	337003	503403	503416	504303
	045707	045715	045759	078604	078661	337015	503404	503604	504304

⚠ WARNING Designed for use at motor fuel dispensing facilities only.

INSTALLATION INSTRUCTIONS

1. Apply approved sealant thinly to male threads of hose. Do not use Teflon tape.
2. Tighten firmly but do not overtighten. Refer to UL 842 for details.
3. Test nozzle flow rate.
4. Test nozzle for proper automatic shut off.

USE WRENCH ON HOSE NUT ONLY.

IF DRIVE OFF OCCURS

- 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 auto shut off.
- 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 auto shut off.
- Check flow rate to verify minimum flow rate.
- Check "remove by" 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

- 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 dispenser manufacturer's 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 megohmeter (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 meters 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 meters 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 meters of dispensers.

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

- Never use cell phone within 20 ft / 6.1 meters 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 / 22.7 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.

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.

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 / 9 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 / 45 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 / 82 LPM
		Light Duty Diesel w/o Flo-Equalizer™ = 18 GPM / 82 LPM
	1GS	Unleaded w/o Flo-Equalizer™ = 15 GPM / 68 LPM
		Light Duty Diesel w/o Flo-Equalizer™ = 16 GPM / 73 LPM
Body		Die cast aluminum
Disc		Fluorocarbon
Packing		Double O-ring seal protected by fiber reinforced Teflon
Lever		One piece contoured steel
Weight	XFS	Unleaded = 2.9 lbs / 1.3 kg
		Light Duty Diesel = 2.9 lbs / 1.3 kg
	1GS	Unleaded = 3.4 lbs / 1.5 kg
		Light Duty Diesel = 3.4 lbs / 1.5 kg
Threads	XFS	¾" / 19 mm NPT or BSP
	1GS	1" / 25 mm NPT or BSP
Spout		Unlead = 13/16" / 21 mm O.D.
		Light Duty Diesel = 15/16" / 24 mm O.D.
Case Quantity		15
Listings		c UL us
Patents		4,331,190 4,809,753

FLO-EQUALIZER™ INSTALLATION INSTRUCTIONS

Model #4490 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 across the flo-Equalizer™ or the presence of debris obstructing movement of internal components, the Flo-Equalizer™ output may exceed 10 GPM.

SPOUT REPLACEMENT INSTRUCTIONS

Model #1473, 3356 Unleaded;
#1471, 3358 Light Duty Diesel;
#5215 High Volume 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. Tighten the spout lock nut while holding the spout in proper alignment.

HOLD OPEN CLIP INSTALLATION / REMOVAL INSTRUCTIONS

Model #3593 Hold Open Clip Kit

INSTALLATION

1. Remove nozzle from hose and drain.
2. Position latch spring under latch clip and hose 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 of rivet - DO NOT hammer in place.
5. Squeeze lever several times to check operation.
6. Verify clip and lever are parallel.

NOTE: Field installation of the hold open clip is NOT U.L. approved because improper installation may cause the nozzle to fail.

REMOVAL

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

NOTE: Nozzles can be ordered without clips.

GUARD REPLACEMENT INSTRUCTIONS

NOZZLE GUARD

Model #4145, 0554

1. Remove nozzle from hose.
2. Remove old guard.
3. Install new guard over spout and pull back to cover nozzle body.
4. Re-install nozzle to hose.

NOZZLE REGUARD

Model #1804, 1806

1. Cut old guard at nozzle inlet and remove from nozzle.
2. Install new guard 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.

LEVER COVER

Model #5494

1. Remove old lever cover.
2. Snap new lever cover into place.

ACCESSORIES

Model #0385 Reducer Bushing (1" / 25 mm M x ¾" / 19 mm F)
Model #0397 Unleaded spout gauge
Model #0548 1GS Hook for Unleaded & Light Duty Diesel
Model #3532 XFS Hook for Unleaded & Light Duty Diesel