

**Husky**

Recommended Installation, Maintenance and Inspection Instructions

XS® & IAS with Mate Guards

Pressure Activated Conventional Nozzles

E159503	^E1302704N	E159560	E159596	E159567	E1595211	E1595288
E159504	^E1595133N	E1215903	E159508	E498103	E1595247	E159566
^E159504N	E159559	E159507	E159561	E498159	E1595287	E159575

SEE LISTINGS FOR DETAILS

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

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

1. Turn off the dispenser and relieve line pressure.
2. Apply approved sealant thinly to male threads of hose. Do not use Teflon® tape.
3. Tighten approximately 1 to 2 turns past hand tight - do not overtighten.
4. Test nozzle for proper automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
5. Perform pressure activation test (no pressure / no flow test).
6. Pressurize system and visually inspect for leaks.

USE WRENCH ON HOSE NUT ONLY.**IF DRIVE OFF OCCURS**

- Turn off the 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.
- Test nozzle for proper automatic shut off between 5 - 10 gpm / 18.9 - 37.9 Lpm.
- Check for electrical conductivity.
- Perform pressure activation test (no pressure / no flow test).

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 no pressure / no flow.
- 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 & 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 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

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| <ol style="list-style-type: none"> 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. | <ol style="list-style-type: none"> 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. |
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PRESSURE ACTIVATION TEST INSTRUCTIONS

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| <ol style="list-style-type: none"> 1. Verify nozzle has hold open clip. 2. Verify dispenser is turned off. 3. Place nozzle spout into test can. 4. Pull up lever and latch clip - a small amount of fuel may flow until the line pressure is relieved. 5. Turn on dispenser and select grade - nozzle should not dispense fuel. 6. Release the lever. | <ol style="list-style-type: none"> 7. Pull up lever and latch clip - nozzle should dispense fuel. 8. Turn off dispenser - nozzle should stop dispensing fuel. 9. Turn dispenser on and select grade - nozzle should not dispense fuel.
NOTE: The no pressure / no flow device fulfills the NFPA Code 30A requirement regarding self-service nozzles with a hold open latch. If nozzle fails item #5 or #9, verify dispenser is not allowing constant pressure to the hose. If dispenser tests OK, replace nozzle. |
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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 - 19 psi / 1.3 bar to activate nozzle.
8. Remove nozzle & drain hose.

Nozzle won't shut off...

1. Check flow rate - minimum of 3 gpm / 11.3 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 Flo-Equalizer® (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 Flo-Equalizer® being used - either inside or outside dispenser.
2. Check Flo-Equalizer® for debris.

GENERAL TECHNICAL DATA

Fuel Type	Test and warranty for gasoline and diesel fuel		
Flow Rate	XS® / XS® MFM	Unleaded w/o Flo-Equalizer® = 14 gpm / 52.9 Lpm Light Duty Diesel w/o Flo-Equalizer® = 16 gpm / 60.6 Lpm	
	1AS	Unleaded w/o Flo-Equalizer® = 20 gpm / 90.9 Lpm Light Duty Diesel w/o Flo-Equalizer® = 25 gpm / 94.6 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	XS®	Unleaded = 3.1 lbs / 1.4 kg	Light Duty Diesel = 3.1 lbs / 1.4 kg
	XS® MFM	Unleaded = 3.3 lbs / 1.4 kg	Light Duty Diesel = 3.3 lbs / 1.4 kg
	1AS	Unleaded = 3.3 lbs / 1.4 kg	Light Duty Diesel = 3.4 lbs / 1.5 kg
Threads	XS® = ¾" / 19.1 mm NPT	XS® MFM = 1" / 25.4 mm NPT	
	1AS = 1" / 25.4 mm NPT		
Spout	Unleaded = 13/16" / 20.6 mm O.D.	Light Duty Diesel = 15/16" / 23.8 mm O.D.	
Case Quantity	15		
Listings	Default	^ NOT LISTED	



FLO-EQUALIZER® INSTALLATION INSTRUCTIONS

Model 004490 Conventional 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 approximately ½ turn past hand tight - 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 001471 Light Duty Diesel Spout Assembly,
001473 Unleaded Spout Assembly

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" / 6.4 mm bit.
5. Do not remove latch plate.

NOTE: Nozzles can be ordered without clips.

GUARD REPLACEMENT INSTRUCTIONS

EASY-ON MATE GUARD

Model 003795

1. Remove old guard from nozzle.
2. Install new guard over spout and pull back.

WAFFLE SPLASH GUARD

Model 001808

1. Remove old waffle splash guard.
2. Install new waffle splash guard over spout lock nut.

POPD® MATE GUARD

Model 007815

1. Turn off dispenser and relieve line pressure.
2. Remove waffle splash guard (if applicable).
3. Remove old nozzle guard.
4. Install new POPD® mate guard over spout and pull back.
5. Install desired advertisement and clear cover (model 006628).

POPD® CLEAR COVER

Model 006628

1. Trim advertisement to 3.75 in / 95.25 mm x 3.75 in / 95.25 mm.
2. Notch corners of advertisement approximately .375 in / 9.5 mm x .375 in / 9.5 mm.
3. Turn clear cover "inside out".
4. Center advertisement on POPD® guard, using the notched corners as guides, and fold over the edges.
5. Lay clear cover over advertisement, making sure the advertisement stays centered, and turn it "right side out".
6. Confirm the cover is securely in place.

FLUTED HANDLE COVER

Model 003376

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

ACCESSORIES

Model 000397

Unleaded spout gauge