




Recommended Installation, Maintenance and Inspection Instructions

1690 / 1691
Nozzles

High Volume / Heavy Duty Nozzles

Model #	169010	169410	652310
	169110	169510	652510

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

INSTALLATION INSTRUCTIONS

1. Turn off dispenser and relieve line pressure.
2. Apply approved sealant (not Teflon tape) approved for gasoline on the male threads of hose section.
3. Tighten firmly but do not overtighten. Refer to UL 842 for details.
4. Test nozzle for proper automatic shut off - minimum of 5 gpm / 18.9 Lpm.

DO NOT OVERTIGHTEN. USE WRENCH ON HOSE NUT ONLY.

IF DRIVE OFF OCCURS

- Turn off dispenser and relieve line pressure.
- Visually check for damaged or fractured spout (1690 nozzle) or fractured spout shear groove (1691 nozzle).
- Check for leaks.
- Check spout tip - should be round and sensing port should be clear of debris.
- Perform flow test to check automatic shut off - minimum of 5 gpm / 18.9 Lpm.
- Check for electrical conductivity.

TESTING / MAINTENANCE / INSPECTION



Daily

- Check for leaks / stains.
- Check for loose spouts.
- Check for damage.
- Check for bent lever.



Monthly

- Check nozzle auto shut off - minimum of 5 gpm / 18.9 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



- 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.

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. Raise the lever and begin fueling.
4. Nozzle will shut off automatically when the tank is full.
5. Wait 15 seconds to allow any fuel remaining in the spout to drain.
6. Remove nozzle from fill pipe by raising hose end of the nozzle.
7. Return nozzle to nozzle boot.

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 lever setting.
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 / 1.31 bar is required to activate nozzle.

Nozzle won't shut off...

1. Check flow rate - minimum of 10 gpm / 37.9 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. Verify dispenser is not in slow flow rate mode.
2. Check for system leak.

CAUTION: 1690 and 1691 nozzles will not shut off automatically when used with heavy oils.


SPOUT REPLACEMENT INSTRUCTIONS

Model #4889 Spout Assembly for 1690 nozzle

Model #5042 Spout Assembly for 1691 nozzle

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 (slight twisting motion to seat vent tube is required).
5. Tighten the spout lock nut while holding the spout in proper alignment.

GENERAL TECHNICAL DATA

Fuel Type	Test and warranty for gasoline and diesel fuel
Flow Rate	100 gpm / 378.5 Lpm
Body	Sand cast aluminum
Disc	Fluorocarbon
Packing	Double O-ring seal protected by fiber reinforced Teflon
Lever	One piece contoured steel
Weight	3.9 lbs / 1.8 kg
Thread	1½ in / 38.1 mm NPTF
Spout	1¾ in / 34.9 mm O.D.
Case Quantity	15
Listings	1691 = 
Patents	N/A