



Jeremiah W. (Jay) Nixon, Governor • Mark N. Templeton, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

SEP - 8 2009

Mr. Jeff Deaton
Design and Development Engineer
Husky Corporation
2325 Husky Way
Pacific, MO 63069

APPROVAL LETTER 2009-4

Dear Mr. Deaton:

This letter is to inform you and Husky Corporation, of the Missouri Department of Natural Resources approval of the POMEKO 102 Retractor System, for use in Missouri Stage II vapor recovery required gasoline dispensing facilities.

Husky Corporation and Costco requested the approval of the POMEKO 102 spring balance single hose retractor with the Gilbarco Encore NG4 dispenser, Goodyear Maxxim Premier whip hose (4.5 foot), Husky 5900 Single Service Breakaway*, Husky 5827 Flo-Equalizer (if needed to reduce dispensing flow to 10 gpm), Goodyear Maxxim Premier LX hose (8 foot), and Husky VLX nozzle with new casting. The POMEKO 102 Retractor System was installed at the Costco South County facility at 4200 Rusty Road, St. Louis, Missouri, 63128 and tested from September 24, 2008, through February 18, 2009.

The retractor system was requested for approval to allow vehicles to fuel from either side of the vehicle as Costco facilities have one-way drive through at the pumps. The one way traffic and use of the extended hose retractor system provides greater safety and efficiency of fueling.

The Stage II components listed in Table 1 were installed at the site on the Gilbarco Encore NG4 dispensers to be tested as the system to be approved. *Please note – the Husky 5900 Single Service Breakaway tested is not yet CARB or MOPETP approved at the time of this 2009-4 MOPETP approval of the POMEKO 102 Approved Retractor System. As a result, use of a different (MOPETP approved) breakaway is required. No substitutions are allowed for remaining components (other than the aforementioned breakaway) of the POMEKO 102 Approved Retractor System listed in Table 1.



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The testing issues considered included the impact of the extended hose with loop (long whip hose of 4.5 feet with retractor to keep the hose off the ground or dog bone) on backpressure and the durability of the hose, whip hose, and retractor. It was decided to test the system for a minimum of 90 days with actual testing lasting 140 days.

All tests were passed. There were no problems related to backpressure, liquid in the hoses or durability. None of the problems observed during the 140 day testing period were related to the use of the retractors. The one retractor that was replaced during the testing was damaged in a drive off.

Table 1
Components comprising the Pomeco 102 Approved Retractor System

Component	Number Tested	MOPETP Approval	CARB Approval
POMECO 102 Spring Balance Single Hose Retractor	12	2009-6	EO G-70-52-AM
Gilbarco Encore NG4 Dispenser	6	2001-03A	03-10
Goodyear Maxxim Premier Whip Hose (4.5 foot)	12	98-05	
Use of MOPETP approved breakaway required until further notice *5900 Single Service Breakaway tested is not yet CARB or MOPETP approved at time of this 2009-4 MOPETP approval	12*	MOPETP Approval pending for Husky 5900 Single Service Breakaway	CARB Approval pending for Husky 5900 Single Service Breakaway
Husky 5827 Flo-Equalizer (required only if the dispensing flow is greater than 10 gpm)	12	2007-1	96-13
Goodyear Maxxim Premier LX Hose (8 foot)	12	2007-1	07-03
Husky VLX Nozzle with new casting	12	2007-1 (Husky VLX before new casting); new casting being tested for approval	07-02 (Husky V and VLX modifications)
Husky 5885 PV Vent	1	Being tested for approval	08-04a

Approval Conditions

The POMECO 102 Retractor System, which includes the components listed in Table 1, is approved with the following requirements/conditions:

1. Only the components listed in Table 1 may be used in the approved retractor system.
2. No modifications to the POMECO 102 Retractor are allowed. All replacement parts/components must be as listed in the most recent POMECO documentation provided in Attachment B.
3. All components must be installed and maintained according to the most recent installation and maintenance instructions of the manufacturer (Attachment A), the respective CARB executive order or certification/approval letter, and the MOPETP approval.

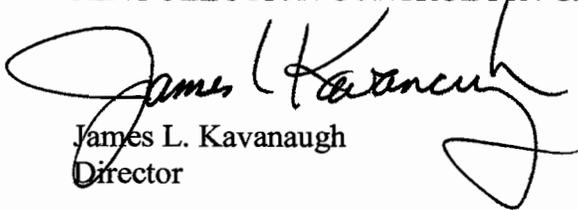
Mr. Jeff Deaton
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4. The Flo-Equalizer (Husky 5827) is not required if the gasoline dispensing flow does not exceed 10 gpm at each fueling point without it.
5. The total length of the hose from hose outlet to nozzle shall not exceed 14 feet including the breakaway and Flo-Equalizer (if needed).
6. None of the hoses shall touch the ground or the island/dogbone.
7. The retractor must retract the coaxial hose to the top of the dispenser when not in use.
8. All requirements and conditions of the CARB 08-04 are adopted by reference.

Thank you for your cooperation in the MOPETP process. If you should have any questions about this approval, please contact Mr. Bob Randolph at the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, by email at bob.randolph@dnr.mo.gov or by telephone at (573) 751-4817.

Sincerely

AIR POLLUTION CONTROL PROGRAM



James L. Kavanaugh
Director

JLK:brt

Enclosures

c: Vapor Recovery



POMECO Installation and Maintenance Instructions 102 Spring Balance Hose Retractors

IMPORTANT: Please read these warnings and use the assembly instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

IMPORTANT: Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions.

NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

Notice: OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

Standard Product Warranty

OPW warrants that products sold by it are free from defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW, will at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, clean up, downtime, removal, reinstallation, loss of profit, or any

other cost or charges.

For any product certified to California 2001 standards, OPW warrants that product sold by it are free from defects in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

102 Spring Balance Hose Retractor Installation Instructions

1. Remove the two sheet metal screws holding the metal cover to the retractor housing, saving the two sheet metal screws for later use. (See Figure 1.)

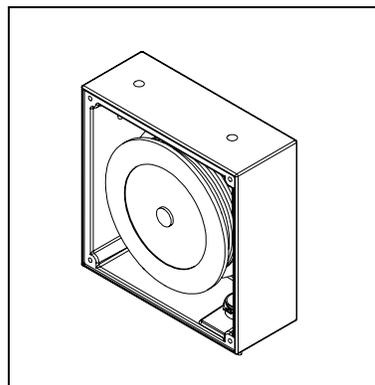


Figure 1

2. Remove the hardware packet from inside the retractor housing.
3. Locate a convenient position for the retractor relative to the dispenser and, if needed, drill two 13/32" holes on 4" centerline.
4. Install reel using the two 3/8" cap screws, lock washers & flat washers. (See Figure 2.)

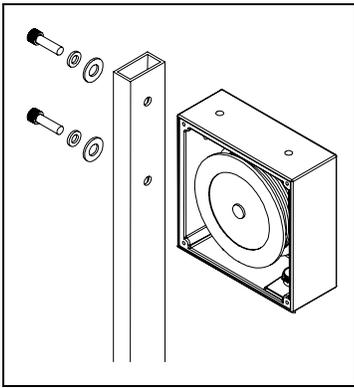


Figure 2

5. Install the black plastic hole plugs into the two mounting holes not being used.

Note: Do not block the thumbscrew hole in the bottom of the retractor housing, as it will allow moisture to drain from the housing.

6. Install hose and locate hose clamp to provide proper retraction and nozzle loop. If installing a breakaway, install the hose clamp just before the breakaway.

7. **Tension Adjustment:**
Install 3/8" thumbscrew.

TO INCREASE TENSION, install thumbscrew. Pull hose assembly down away from box about 2 feet and tighten thumbscrew to hold reel from unwinding. Wrap one turn of cable onto reel. Holding hose assembly, so as not to let it spring back against the retractor box, loosen thumbscrew. If hose clamp touches cable guide on box then the tension is correct, if hose clamp doesn't touch cable guide then repeat until tension is correct. Remove and save thumbscrew for any other adjustments that might be needed.

TO DECREASE TENSION, install thumbscrew. Pull hose assembly down away from box about 2 feet and tighten thumbscrew to hold reel from unwinding. Unwrap one turn of cable from reel. Holding hose assembly, so as not to let it spring back against the retractor box, loosen thumbscrew. If hose clamp touches cable guide on box then the tension is correct, if hose clamp doesn't touch cable guide then repeat until tension is correct. Remove and save thumbscrew for any other adjustments that might be needed.

8. Install the sheet metal cover to the retractor housing using the two sheet metal screws previously removed along with two additional sheet metal screws from the hardware packet. These are self-threading screws. (See Figure 3.)

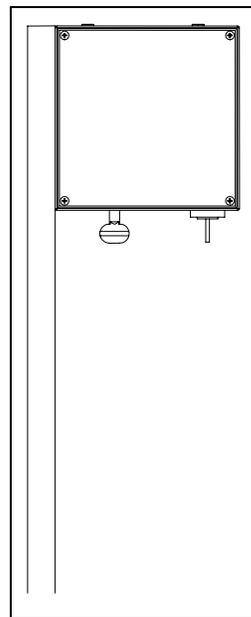


Figure 3

9. Remove and save thumbscrew if later adjustments are needed.



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POMECO 102 SPRING BALANCE SINGLE HOSE RETRACTORS

POMECO 102 Spring Balance Single Hose Retractors keep excess hose off the ground and out of the way, prolonging hose life and reducing potential hazards. The POMECO 102 is a California Air Resources Board (CARB) certified Stage II component for use with single and dual hose dispensers as per Executive Order G-70-52-AM.



Post Mounted

Materials

Housing: cast aluminum

Cable: black polyester

Post: aluminum



Features

- ◆ **Easy to use** - The spring-loaded reel and stretch-resistant cable provide smooth and steady tension throughout hose extension and return.
- ◆ **Easy to maintain** - The removable sideplate provides full access to the mechanism for easy tension adjustment and unit maintenance. A convenient safety thumb screw is provided to lock the reel in place during tension adjustment.
- ◆ **Field adjustable for various hose, nozzle, swivel, breakaway combinations** - No need for upgrading components if a breakaway or swivel is added to the hose assembly. Simply change the tension setting on the spring-loaded hose reel.
- ◆ **Multiple mounting options** - The POMECO 102 retractor housing is tapped on the top for bolting to overhead crossbars, and on the side for mounting to vertical posts. The 102 is available as a retractor kit (including post, retractor and mounting hardware) or as separate components. Models are also available for aboveground storage tank (AST) applications. AST models include a 44" (112 cm) post with a freestanding base and an optional nozzle hook/hood kit.

102 Spring Balance Hose Retractor
Instruction Sheet Order Number:
H15853PA



North America Toll Free – TELEPHONE: (800) 422-2525
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International – TELEPHONE: (513) 870-3315 or (513) 870-3261
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P.O. Box 405003 ♦ Cincinnati, OH 45240-5003

NOTE: See OPW's Website at: www.opw-fc.com
for product instruction sheets, trouble shooting
guides, how-to-use guide and to view the
Do's & Don'ts at the Gas Pump video.

Ordering Specifications

Vertical Retractor Kits (Box, Post, Bracket, Foot, & Hardware)

Model Number	Mounting Method	Clamp Fits				Weight	
		Hose O.D.		Hose I.D.		lbs.	kg
		in.	mm	in.	mm		
6102-1039P	39" Retractor/Post Kit	(Hose Clamp Not Included)				12	5.4
6102-1078P	78" Retractor/Post Kit	(Hose Clamp Not Included)				14	6.4
6102-AST	AST	(Hose Clamp Not Included)				9	4.1

Ordering Specifications

Separate Retractor Components (Box Only)

Model Number	Mounting Method	Clamp Fits				Weight	
		Hose O.D.		Hose I.D.		lbs.	kg
		in.	mm	in.	mm		
6102-1000	Overhead Crossbar	(Hose Clamp Not Included)				7	3.2
6102-1000P	Vertical Post*	(Hose Clamp Not Included)				7	3.2
6102-4000	Overhead Crossbar	1 3/8"	35	1"	25	7	3.2
6102-4000P	Vertical Post*	1 3/8"	35	1"	25	7	3.2
6102-6000	Overhead Crossbar	1 1/2"	26	5/8" or 3/4"	16 or 19	7	3.2
6102-6000P	Vertical Post*	1 1/2"	26	5/8" or 3/4"	16 or 19	7	3.2
6102-8000	Overhead Crossbar	1"	25	5/8"	16	7	3.2
6102-8000P	Vertical Post*	1"	25	5/8"	16	7	3.2

*POMECO recommends using P102-39, P102-78 or P100-3F/P100-44/P100-2AST for use with 102 Series retractors. Other size tubes and clamps available upon request.



Hose Clamp

Ordering Specifications

Hose Clamps

Model Number	Hose Clamp Size†
PB-1396	Standard 1 1/8" O.D. Hose (1" I.D.)
PB-1394	Standard 1 1/8" O.D. Hose (3/4" I.D.)
PB-1375	Standard 1 1/2" O.D. Hose (5/8" or 3/4" I.D.)
PB-1373	Standard 1" O.D. Hose (5/8" I.D.)
PB-1344	Balanced Coaxial, Goodyear Premier
PB-1340	Balanced Coaxial, Dayco Petroflex

† Other sizes available upon request

Options Replacement Parts

Model Number	Hose Clamp Size
P102-39	Post Kit, 39"(99 cm), 1 1/8" x 2"
P102-78	Post Kit, 78"(198 cm), 1 1/8" x 2"
P102-12	12' Replacement Cable
P338SPOOL	338' Spool of Retractor Cable
P100SPOOL	1500' Spool of Retractor Cable
P102-02	Replacement Cable Guide
P102-240	Replacement Reel
P100-3F	AST Replacement Base
P100-44	AST Replacement Post, 2" x 2" x 44"
P100-2AST	Sliding Bracket (AST)

Important

OPW products should be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations, and compatibility with the environment and materials to be handled. OPW MAKES NO WARRANTY OF FITNESS FOR A PARTICULAR USE. All illustrations and specifications in this literature are based on the latest product information available at the time of publication. OPW reserves the right to make changes at any time in prices, materials, specifications and models and to discontinue models without notice or obligation.