Above Ground Products Setting the Industry Standard for More Than 120 Years

Conventional Automatic Nozzles

OPW NEWGARD[™] Two-Piece Hand Insulator

OPW 11A[®] and 11B[®] Series nozzles are furnished complete with NEWGARD[™] 2-piece hand insulators. 2-Piece NEWGARD[™] Hand Insulator is the most comfortable nozzle in the industry to use.

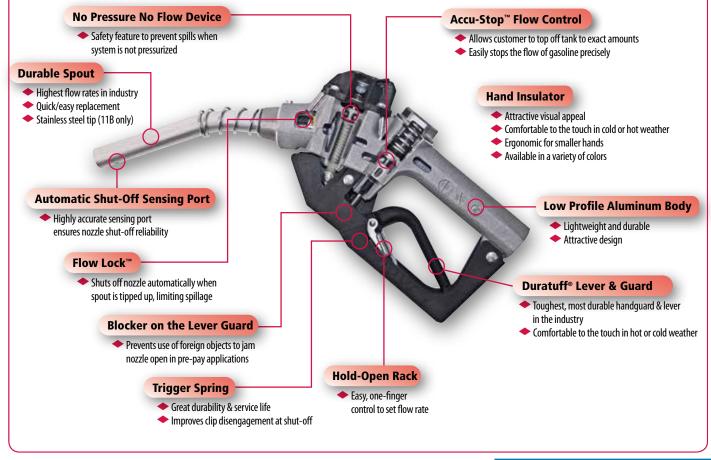


OPW NEWGARD[™] Full Hand Insulator

All OPW 7 Series, Astro Series, and 1A Series nozzles are furnished complete with NEWGARD[™] one-piece hand insulators. Available in a variety of colors.



OPW AUTOMATIC NOZZLE FEATURES – MULTIPLE SOLUTIONS FOR MULTIPLE CUSTOMERS



new OPW 14 Series nozzles are ideal for ensuring a spotless reputation.

(h) (h)

Cleaner Nozzle Technology

Because new 14 Series clean fueling nozzles by OPW feature patent-pending free-draining spout technology that significantly reduces retained fuel in the spout after fueling. This unique innovation provides a cleaner, greener fueling experience for your customers and a spotless reputation for your site.

Visit **opwclean14.com** to learn **WHY** the OPW 14 Series is the right choice for ensuring you a spotless reputation.



OPW 14 Series Nozzles

• 14E Dripless Gasoline Nozzle with interlock.



• 14C Diesel Capture Technology Nozzle

NEW

PUMPING OUT INNOVATIVE PRODUCTS SINCE 1892.

The name in nozzles has always been OPW. We build each new model on a heritage of over 125 years in fueling excellence, and we don't plan on stopping. No matter the grade of gasoline or the type of fuel, we provide solutions, including a whole new series of clean fueling nozzles, to keep fueling stations operating at peak performance and in perfect compliance. Expert guidance and responsive service come standard too. Do your nozzles carry the OPW name?



OPW-CATALOG-01/2021

DEFINING | WHAT'S NEXT 139



OPW CARB-Certified 14E ECO Enhanced Conventional Gasoline Nozzle

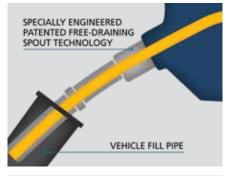
The OPW 14E ECO Enhanced Conventional Gasoline nozzle is part of the new OPW 14 Series cleaner fueling experience nozzles, featuring innovative patented* dripless free-draining spout technology. Other dripless technologies capture fuel in the spout where it is allowed to evaporate and increase VOC emissions.

The new OPW 14E dripless spout technology is designed to keep gasoline from dripping on your customers' hands, clothing, vehicles and the ground to provide a cleaner, greener, and more satisfying customer experience.

The CARB ECO OPW 14E utilizes a special interlock system inside the bellows to activate the flow of fuel.

View the 14E Nozzle CARB Executive Order.

Dripless Nozzle Technology



SMOOTH INNER SPOUT BORE. NO DAMS, GROOVES OR RESERVOIRS TO RETAIN FUEL



UNIQUE SPOUT DESIGN PREVENTS FUEL DRIPS ONCE THE NOZZLE'S AUTOMATIC SHUTOFF FEATURE IS ACTIVATED

MATERIALS

Body: Aluminum

Lever & Lever Guard: Duratuff® Packing: Graphite with Teflon® Disc: Viton® Spout: Aluminum with Stainless-Steel tip and Teflon-coated inside Inlet Size: 3/4" NPT Weight: 2.73 lbs. each 1.25 kg each

FEATURES & BENEFITS

Safe for Use

- True Dripless Technology* patented dripless, free-draining spout with no dams or hidden reservoirs to catch liquid. Designed to exceed CARB dripless requirements.
- Rugged Durability designed to meet the rigorous demands of high-volume sites.
- FlowLock[™] allows nozzle to shut off when falling out of a vehicle or is tipped up, limiting spillage and unsafe conditions.
- Enhanced Drip Control (14E Models only) - specially designed interlock prevents fuel from flowing unless the spout is fully inserted in the vehicle fill pipe and the actuator is engaged. This is a CARB requirement.

Durable and Long-Lasting Design

 Cycle tested and proven to last longer than 1 million cycles.

ORDERING SPECIFICATIONS

Scuff Guard Color	14E Unleaded Nozzles
Green	14E-0100
Silver	14E-0200
Red	14E-0300
Black	14E-0400
Blue	14E-0500
Gold	14E-0750
Orange	14E-0800
Yellow	14E-0900

 Durable lever guard that won't scratch your customers' vehicles – made from Duratuff[®].

The 14E is designed with an interlock

to meet CARB requirements for

14E

ertified

dripless nozzles.

Cleaner Fueling Experience for Customers

- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Attractive two-piece hand insulator which includes NEWGARD[™] barrel cover and colored scuff guard, is the most comfortable nozzle in the industry to use.
- Convenient one-finger hold-open clip that is easy to set the flow rate.

Design Working Pressure

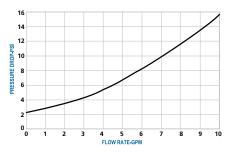
• 50 psi (3.45 bar) maximum pressure.

LISTINGS & CERTIFICATIONS



*US PATENTS 7,134,580 AND 9,126,820. OTHER PATENTS-PENDING

GPM FLOW CHART



OPW 14BP Gasoline Nozzle

The OPW 14BP Conventional Gasoline Nozzle is part of the new OPW 14 Series cleaner fueling experience nozzles, featuring innovative patented and patent-pending dripless spout technology.

The new OPW 14BP dripless nozzle spout technology is designed to keep gasoline from dripping on your customers' hands, clothing, vehicles and the ground to provide a cleaner, greener and more satisfying customer experience.

The OPW 14BP is a standard fueling nozzle without the interlock device.

Dripless Nozzle Technology



SMOOTH INNER SPOUT BORE. NO DAMS, GROOVES OR RESERVOIRS TO RETAIN FUEL



MATERIALS

Body: Aluminum

- Lever & Lever Guard: Duratuff® Packing: Graphite with Teflon® Disc: Viton® Spout: Aluminum with Stainless Steel tip and Teflon-coated inside Inlet Size: 3/4" NPT
- Weight: 2.73 lbs. each 1.25 kg each



FEATURES & BENEFITS Safe for Use

- True Dripless Technology* patented and patent-pending, dripless spout, no dams or hidden reservoirs to catch liquid. Designed to exceed CARB dripless requirements.
- Rugged Durability designed to meet the rigorous demands of high-volume sites.
- FlowLock[™] allows nozzle to shut off when falling out of a vehicle or is tipped up, limiting spillage and unsafe conditions.

Durable and Long-Lasting Design

- Cycle tested and proven to last longer than 1 million cycles.
- Durable lever guard that won't scratch your customers' vehicles – made from Duratuff[®].

Cleaner Fueling Experience for Customers

- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Attractive two-piece NEWGARD™ Hand Insulator is the most comfortable nozzle in the industry to use.
- Convenient one-finger hold-open clip that is easy to set the flow rate.

Design Working Pressure

50 psi (3.45 bar) maximum pressure.

LISTINGS & CERTIFICATIONS

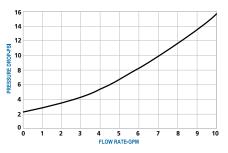


*US PATENTS 7,134,580 AND 9,126,820. OTHER PATENTS-PENDING

ORDERING SPECIFICATIONS

2-Piece Hand Insulator Color	14BP Unleaded
Green	14BP-0100
Silver	14BP-0200
Red	14BP-0300
Black	14BP-0400
Blue	14BP-0500
Yellow	14BP-0750
Gold	14BP-0800
Orange	14BP-0900
Bare	14BP-0009

GPM FLOW CHART

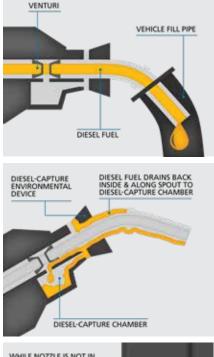




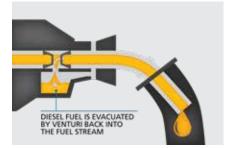
OPW 14C Diesel Capture Technology Nozzle

The OPW 14C is part of the new OPW 14 Series cleaner fueling experience nozzles, featuring innovative patented* diesel-capture technology. This innovation is designed to provide a cleaner, greener fueling experience for customers while keeping diesel fuel off their hands and off the ground.

Diesel Capture Technology







MATERIALS

Body: Aluminum Lever & Lever Guard: Duratuff® Packing: Graphite with Teflon® Disc: Viton® Spout: Aluminum Inlet Size: 3/4" NPT Weight: 2.73 lbs. each 1.25 kg each

14C Series shown with permanently installed Splash Guard

14C

FEATURES & BENEFITS

Safe for Use

- Diesel Fuel Capture Technology*the patented technology allows excess diesel fuel to drain into a uniquely engineered chamber located in the body of the nozzle located at the base of the spout. This excess diesel fuel is then introduced back into the fuel stream.
- Drip Guard designed to capture any fuel that runs out onto the outside of the nozzle.
- Compatible for diesel-fuel blends up to B20.
- Rugged Durability designed to meet the rigorous demands of high-volume sites.
- FlowLock[™] allows nozzle to shut off when falling out of a vehicle or is tipped up, limiting spillage and unsafe conditions.

Durable and Long-Lasting Design

 Cycle tested and proven to last longer than 1 million cycles.

ORDERING SPECIFICATIONS

Scuff Guard Color	14C Diesel Nozzles
Green	14C-0100
Silver	14C-0200
Red	14C-0300
Black	14C-0400
Blue	14C-0500
Gold	14C-0750
Orange	14C-0800
Yellow	14C-0900

 Durable lever guard that won't scratch your customers' vehicles
 made from Duratuff[®].

Cleaner Fueling Experience for the Customer

- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Attractive two-piece hand insulator which includes NEWGARD[™] barrel cover and colored scuff guard, is the most comfortable nozzle in the industry to use..
- Convenient one-finger hold-open clip that is easy to set the flow rate.

Design Working Pressure

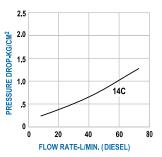
◆ 50 psi (3.45 bar) maximum pressure.

LISTINGS & CERTIFICATIONS



*US PATENTS 7,134,580 AND 9,126,820. OTHER PATENTS-PENDING

GPM FLOW CHART

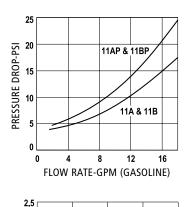


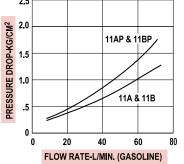
www.opwglobal.com

FIRST to Meet NEW

OPW 11A[®] and 11B[®] Automatic Nozzles

The OPW 11[®] Series automatic nozzles are OPW's premium conventional nozzles for safe retail and commercial petroleum filling. The OPW 11[®] Series is the most trusted conventional nozzle in the world for full service use. The OPW 11B[®] Series is designed for use in retail and commercial filling applications including prepay, self- and full-service, credit/debit card readers or card-lock systems to help prevent gasoline spills. The OPW 11B[®] will not open until the pumping system is pressurized, and closes automatically when the pressure is removed.





Accessories

Name	Product #	Description	Used For:
3/4" to 1" Bushing	285-0350	3/4" MNPT to 1" FNPT Bushing	Converting 11 Series Nozzle for use on 1" Hose
1" to 3/4" Bushing	28R-2404	1" MNPT x 3/4" FNPT Bushing	Converting 7 Series Nozzle for use on 3/4" Hose

Materials

- Body: Aluminum Lever & Lever Guard: Duratuff®
- Packing: Graphite with Teflon®

Disc: Viton®

Spout: Aluminum Inlet Size: 3/4" NPT

Weight: 2.73 lbs. each, 43.1 lbs./case of 15 1.25 kg each, 19.9 kg/case of 15

Features

Safe for Use

- UL- and ULC-Listed for use in gasoline, diesel, and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Prevents gasoline spills in prepay or card-lock systems utilizing OPW's unique No Pressure – No Flow Device. The nozzle cannot be opened until the pumping system is pressurized, and closes automatically when the pressure is removed (11B Series only).
- Prevents consumer from jamming the nozzle in an open position – blocker on lever guard.
- FlowLock[™] allows nozzle to shut-off when falling out of a vehicle, and is tipped up, limiting spillage and unsafe conditions.

Durable and Long-Lasting Design

 Cycle-tested and proven to last longer than 1 million cycles – better than any other nozzle available on the market today*.

Replacement Parts

Name Product # Description **Used For:** 11A Leaded Spout Kit 5BS-2110 11A , ¹⁵/₁₆" O.D. Leaded Spout 11A Spout Replacement 11AP, 13/16" O.D. Unleaded Spout 11AP Unleaded Spout Kit 5BPS-2117 11AP Spout Replacement 11B Leaded Spout Kit 5BBS-2135 11B, ¹⁵/₁₆" O.D. Leaded Spout 11B Spout Replacement 11BP Unleaded Spout Kit 5BBPS-2137 11BP, ¹³/₁₆" O.D. Unleaded Spout 11BP Spout Replacement 11A, 11AP, 11B, 11BP **NEWGARD Kits** See pg. 153 **Replacement Hand Insulators** NEWGARD Replacements 11A, 11AP, 11B, 11BP Instruction Sheet H15985M Installation and Instruction Sheet Instruction Sheet

Listings and Certifications



NOTE: 11A and 11B nozzles models are available with 1- or 2-piece Hand Insulators.

See pages 231 - 239 for certification number

UL 2586 Requirements

11AP®

Shown with Optional FILLGARD™

- Durable lever guard that won't scratch your customers' vehicles – made from Duratuff[®].
- New hold-open clip spring lasts longer than previous designs.

Appealing to Customers

- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Attractive 2-Piece NEWGARD[™] Hand Insulator is the most comfortable nozzle in the industry to use.
- Convenient one-finger hold-open clip that is easy to set the flow rate (not on all models).

Design working pressure

- 50 psi (3.45 bar) maximum pressure.
- * OPW internal lab testing results as of August 2010.



Ordering Specifications

E-10 Auto	matic Nozzles with	Hold-Open Devices	compatible up to E10	(10% Ethanol)
Hand- warmer Color	11BP Unleaded 2 Piece Handwarmer	11BP Unleaded 1 Piece Handwarmer	11BP AdMaster™ 2 Piece Handwarmer	11BP 2 Piece Handwarmer Extreme Cold
Green	11BP-0100	11BP-0100-1P	11BP-0100-AD	11BP-0100-XC
Silver	11BP-0200	11BP-0200-1P	-	-
Red	11BP-0300	11BP-0300-1P	11BP-0300-AD	11BP-0300-XC
Black	11BP-0400	11BP-0400-1P	11BP-0400-AD	11BP-0400-XC
Blue	11BP-0500	11BP-0500-1P	11BP-0500-AD	
Gold	11BP-0750	11BP-0750-1P	-	-
Orange	11BP-0800	11BP-0800-1P		_
Yellow	11BP-0900	11BP-0900-1P	11BP-0900-AD	-
Bare	11BP-0009	11BP-0009	-	-

Contact Customer Service for special color applications.

E-10 Automatic Nozzles without Hold-Open Devices compatible up to E10 (10% Ethanol)					
Handwarmer Color	11AP Unleaded* 2 Piece Handwarmer	11AP Unleaded* 1 Piece Handwarmer	11AP* AdMaster™ 2 Piece Handwarmer		
Green	11AP-0100	11AP-0100-1P	11AP-0100-AD		
Silver	11AP-0200	11AP-0200-1P	-		
Red	11AP-0300	11AP-0300-1P	11AP-0300-AD		
Black	11AP-0400	11AP-0400-1P	11AP-0400-AD		
Blue	11AP-0500	11AP-0500-1P	11AP-0500-AD		
Gold	11AP-0750	11AP-0750-1P	-		
Orange	11AP-0800	11AP-0800-1P	-		
Yellow	11AP-0900	11AP-0900-1P	11AP-0900-AD		
Bare	11AP-0009	11AP-0009	-		

*11A Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements.

E-25 Nozzles compatible up to E25 (25% Ethanol)				
Handwarmer Color	11AP* Unleaded 2 Piece Handwarmer	11BP Unleaded 2 Piece Handwarmer		
Green	11AP-0100-E25	11BP-0100-E25		
Red	11AP-0300-E25	11BP-0300-E25		
Black	11AP-0400-E25	11BP-0400-E25		
Blue	11AP-0500-E25	11BP-0500-E25		
Orange	11AP-0800-E25	11BP-0800-E25		
Yellow	11AP-0900-E25	11BP-0900-E25		

*11A Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements.

E-85 Nozzles compatible up to E85 (100% Ethanol)				
Handwarmer Color 11BP Unleaded 2 Piece Handwarmer		11BP AdMaster™ 2 Piece Handwarmer		
Green	11BP-0192-E85	-		
Red	11BP-0392-E85	-		
Black	11BP-0492-E85	11BP-0492-E85-AD		
Yellow	11BP-0992-E85	11BP-0992-E85-AD		

B-5 Nozzles compatible up to B5 (5% Biodiesel), Fuel Oil and Kerosene

Hand- warmer Color	11A Leaded* 2 Piece Handwarmer	11A Leaded * 1 Piece Handwarmer	11A Leaded* AdMaster™	11B Leaded 2 Piece Handwarmer	11B Leaded 1 Piece Handwarmer	11B Leaded AdMaster™
Green	11A-0100	11A-0100-1P	11A-0100-AD	11B-0100	11B-0100-1P	11B-0100-AD
Silver	11A-0200	11A-0200-1P	_	-	11B-0200-1P	-
Red	11A-0300	11A-0300-1P	-	11B-0300	11B-0300-1P	-
Black	11A-0400	11A-0400-1P	11A-0400-AD	11B-0400	11B-0400-1P	11B-0400-AD
Blue	11A-0500	11A-0500-1P	11A-0500-AD	11B-0500	11B-0500-1P	-
Gold	11A-0750	11A-0750-1P		11B-0750	11B-0750-1P	-
Orange	11A-0800	11A-0800-1P		11B-0800	11B-0800-1P	-
Yellow	11A-0900	11A-0900-1P	11A-0900-AD	11B-0900	11B-0900-1P	11B-0900-AD
Bare	11A-0009	-	-	11B-0009	11B-0009	-

*11A Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements.

B-20 Nozzles compatible up to B20 (20% Biodiesel)

Handwarmer Color	11A Leaded* 2 Piece Handwarmer	11B Leaded 2 Piece Handwarmer	11B Leaded 2 Piece Handwarmer for Extreme Cold
Green	11A-0100-B20	11B-0100-B20	11B-0100-XCB20
Black	11A-0400-B20	11B-0400-B20	11B-0400-XCB20
Yellow	11A-0900-B20	11B-0900-B20	11B-0900-XCB20
*11A Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements.			

In order to be UL2586 approved effective April 30, 2015, the use of a Hold-Open device is only permitted on dispensing nozzles equipped with a "B-Cap" (no pressure - no flow) or interlock feature. The use of foreign objects to hold open automatic nozzles could result in shut-off failure and personal injury.

Custom Colors

With minimum quantities. Contact OPW Customer Service.

White	Dark Blue
Light Red	Brown
Azure Blue	



28S-0350 Bushing Adaptor



28R-2404 Bushing Adaptor



NOTE: See OPW's Website at www.opwglobal.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.



OPW 11A[®] AND 11B[®] Automatic Nozzles

The OPW 11° Series automatic nozzles are OPW's premium conventional nozzles for safe retail and commercial petroleum filling. The OPW 11° Series is the most trusted conventional nozzle in the world for full service use. The OPW 11B° Series is designed for use in retail and commercial filling applications including prepay, self and full service, credit/debit card readers or card-lock systems to help prevent gasoline spills. The OPW 11B° will not open until the pumping system is pressurized, and closes automatically when the pressure is removed.

OPW 7H[®] AND 7HB[®] Automatic Shut-OFF Nozzles

For Heavy-Duty, High-Flow Truck, Bus and Fleet Service

If you operate a full-service truckstop, refuel your own fleet or manage a cardlock refueling location, the low-cost, long-life and durability of the OPW 7H[®] high flow nozzle can help increase your productivity, sales and profits. The OPW 7HB[®] will not open until the pumping system is pressurized, and closes automatically when the pressure is removed.



See pages 231 - 239 for certification number

Materials

- Body: Aluminum
- Lever & Lever Guard: Duratuff®
- Packing: Graphite with Teflon®

Disc: Viton®

Weight: 2.73 lbs. each, 43.1 lbs./case of 15 1.25 kg each, 19.9 kg/case of 15

7HB-0100-XC

Nozzles (above) shown with optional hand

a vehicle, and tipped up limiting spillage and unsafe conditions.

Durable & Long Lasting Design

Compatible to -54°C [-65°F]*

the market today*

Made from Duratuff[®].

as of August 2010.

Cycle-tested and proven to last

Durable lever guard that won't

New hold open clip spring lasts

11B[®] and 7HB[®] Series Only)

Easy to use – Utilizing Accu-Stop[®]

* OPW internal lab testing results

longer than 1 million cycles - Better

than any other nozzle available on

scratch your customers' vehicles -

longer than previous designs. (OPW

to-the-penny Flow Control Technology.

insulator. Hand insulator not included.

11BP-0100-XC Shown with Optional FILLGARD[™]

Features

Safe for Use

- UL-Listed for use in gasoline, diesel, and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com
- Prevents gasoline and/or diesel spills in prepay or card lock systems utilizing OPW's unique No Pressure – No Flow Device. The nozzles cannot be opened until the pumping system is pressurized, and close automatically when the pressure is removed. (OPW 11B[®] and 7HB[®] Series Only)
- Prevents consumer from jamming the nozzle in an open position – Blocker on lever guard.
- FlowLock[™] allows nozzle to shut-off when falling out of

Ordering Specifications

Product # Description 11B-0100-XC Extreme Cold Weather, 3/4"NPT Auto-Diesel Nozzle, 11B, Green 11B-0400-XC Extreme Cold Weather, 3/4"NPT Auto-Diesel Nozzle, 11B, Black 11B-0900-XC Extreme Cold Weather, 3/4"NPT Auto-Diesel Nozzle, 11B, Yellow 11BP-0100-XC Extreme Cold Weather, 3/4"NPT Gasoline Nozzle, 11BP, Green Extreme Cold Weather, 3/4"NPT Gasoline Nozzle, 11BP, Red 11BP-0300-XC Extreme Cold Weather, 3/4"NPT Gasoline Nozzle, 11BP, Black 11BP-0400-XC 7HB-0100-XC Extreme Cold Weather, 1 "NPT Diesel Nozzle, 7HB, Green 7HB-0400-XC Extreme Cold Weather, 1 "NPT Diesel Nozzle, 7HB, Black 7HB-0900-XC Extreme Cold Weather, 1"NPT Diesel Nozzle, 7HB, Yellow 66 REC-1000 Cold Weather Breakaway – See page 163 11B-0100-XCB20 Extreme Cold Weather, 3/4" NPT Auto-Diesel Nozzle, 11B, B20, Green 11B-0400-XCB20 Extreme Cold Weather, 3/4 "NPT Auto-Diesel Nozzle, 11B, B20, Black 11B-0900-XCB20 Extreme Cold Weather, 3/4" NPT Auto-Diesel Nozzle, 11B, B20, Yellow

Replacement Parts

Name	Product #	Description	Used For:
11AK Leaded Spout Kit	5BS-2110XC	11A, ¹⁵ / ₁₆ " O.D. Leaded Spout	11AK Spout Replacement
11AKP Unleaded Spout Kit	5BPS-2117XC	11AP, ¹³ / ₁₆ " O.D. Unleaded Spout	11AKP Spout Replacement
11B Leaded Spout Kit	5BBS-2135XC	11B, ¹⁵ / ₁₆ " O.D. Leaded Spout	11B Spout Replacement
11BP Unleaded Spout Kit	5BBPS-2137XC	11BP, ¹³ / ₁₆ " O.D. Unleaded Spout	11BP Spout Replacement
*Beginning April 30, 2015; nozzles with Hold-Open clips must have a B-Cap no-pressure no-flow device or an Interlock feature to be UL2586 approved.			

OPW-CATALOG-01/2021



Body: Aluminum w/ nickel plating Lever & Lever Guard: Duratuff® Packing: Graphite with Teflon® Seals: Viton® Spout: Aluminum w/ nickel plating Inlet Size: 3/4" NPT Weight: 2.73 lbs. each 1.25 kg each

Features

Safe for Use

- UL-Listed for up to 85% Ethanol.
- Prevents gasoline spills in prepay or card-lock systems utilizing OPW's unique No Pressure – No Flow Device. It cannot be opened until the pumping system is pressurized, and closes automatically when the pressure is removed.
- Prevents consumer from jamming the nozzle in an open position – blocker on lever guard.
- FlowLock[™] allows nozzle to shut-off when falling out of a vehicle, and is tipped up, limiting spillage and unsafe conditions.

Durable and Long Lasting Design

 Cycle-tested and proven to last longer then 1 million cycles – Better then any other nozzle available on the market today*.

- Durable lever guard that won't scratch your customers' vehicles – made from Duratuff[®].
- New hold-open clip spring lasts longer then previous designs.

Appealing to Customers

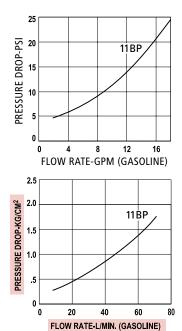
- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Attractive 2-Piece NEWGARD[™] Hand Insulator is the most comfortable nozzle in the industry to use.
- Convenient one-finger hold-open clip that is easy to set the flow rate (not on all models).

Design working pressure

- 50 psi (3.45 bar) maximum pressure.
- * OPW internal lab testing results as of August 2010.

OPW 11BP E-85 Series Ethanol Nozzles

The OPW 11BP E-85 Series nozzles are designed and rigorously tested for use in today's alternative fuels. It's the first nozzle of its kind to be UL-Listed for use in Ethanol-blended fuels up to 85%.



Replacement Parts							
Product	Product	0.	D.	Lei	ngth	Wei	ght
FIGUUCE	#	in.	mm	in.	mm	lbs.	kg
11BP spout replacement kit	5BBPI-0492	¹³ / ₁₆ "	21	7"	178	.47	.22
NEWGARD [™] Kits	1 5					_	

11BP Instruction Sheet Order Number: H15889PAE

66V Ordering Specifications E85 Approved

	Size		We	ight	
Product #	in.	mm	lbs.	kg	Pull Force
66V-0492	³ / ₄ " F x ³ / ₄ " F (NPT)	19 F x 19 F	0.60	0.27	300 lbs.

66V Series ³/₄" Instruction Sheet Order Number: **H10993PA**

Ordering Specifications

E-85 Nozzles comp	E-85 Nozzles compatible up to E85 (85% Ethanol)			
Handwarmer Color	11BP Unleaded 2 Piece Handwarmer	11BP AdMaster™ 2 Piece Handwarmer		
Green	11BP-0192-E85	_		
Red	11BP-0392-E85	-		
Black	11BP-0492-E85	11BP-0492-E85-AD		
Yellow	11BP-0992-E85	11BP-0992-E85-AD		

241TPS Ordering Specifications E85 Approved

Product #	Inlet/Outlet	Length A	Depth B
241TPS-0492	³ / ₄ " F x ³ / ₄ " M (NPT)	4 ⁷ /8"	2 ³ / ₁₆ "
2411P3-0492	19 mm x 19 mm	124 mm	56 mm

Listings and Certifications



Customize and Colorize

Imprint your company logo or custom message here!

Side of Nozzle



Top and Side of Nozzle

Imprint your company logo or custom message to any color hand insulator

OPW can help you enhance your brand image, drive traffic into your store, and deliver important messages to your customers with its new Enhanced Nozzle Program.

Now you can imprint company names, logos and/or special promotional messages on to your nozzles!

Differentiate your store from all others. Choose from a wide array of standard hand insulator colors or create your own custom color hand insulator.

We Offer You The Convenience of Choice.

Simply provide high-resolution PDF your Logo Artwork.

Hundreds of Hand Insulator Colors to Choose From







OPW AdMaster[™]

A highly effective and affordable way of advertising that drives traffic from the island to your in-store profit centers.

- Installs quickly and easily on your OPW nozzle!
- Increase In-store Sales Get Customers from the Island into Your Profit Centers
- Puts Your Message Right in Your Customer's Hand
- Replaceable Easily Updated to Current Promotions
- Available on New Nozzles or Can Be Installed Quickly on Existing Nozzles
- Available in a Variety of Colors

Ordering Specifications

Part # Description





11A-0100-AD	11A Leaded Nozzle with GREEN Advertising Hand Insulator & Clear Cover
11A-0400-AD	11A Leaded Nozzle with BLACK Advertising Hand Insulator & Clear Cover
11A-0500-AD	11A Leaded Nozzle with BLUE Advertising Hand Insulator & Clear Cover
11A-0900-AD	11A Leaded Nozzle with YELLOW Advertising Hand Insulator & Clear Cover
11AP-0100-AD	11A Unleaded Nozzle with GREEN Advertising Hand Insulator & Clear Cover
11AP-0300-AD	11A Unleaded Nozzle with RED Advertising Hand Insulator & Clear Cover
11AP-0400-AD	11A Unleaded Nozzle with BLACK Advertising Hand Insulator & Clear Cover
11AP-0500-AD	11A Unleaded Nozzle with BLUE Advertising Hand Insulator & Clear Cover
11AP-0900-AD	11A Unleaded Nozzle with YELLOW Advertising Hand Insulator & Clear Cover
11B-0100-AD	11B Leaded Nozzle with GREEN Advertising Hand Insulator & Clear Cover
11B-0400-AD	11B Leaded Nozzle with BLACK Advertising Hand Insulator & Clear Cover
11B-0900-AD	11B Leaded Nozzle with YELLOW Advertising Hand Insulator & Clear Cover
11BP-0100-AD	11B Unleaded Nozzle with GREEN Advertising Hand Insulator & Clear Cover
11BP-0300-AD	11B Unleaded Nozzle with RED Advertising Hand Insulator & Clear Cover
11BP-0400-AD	11B Unleaded Nozzle with BLACK Advertising Hand Insulator & Clear Cover
11BP-0500-AD	11B Unleaded Nozzle with BLUE Advertising Hand Insulator & Clear Cover
11BP-0900-AD	11B Unleaded Nozzle with YELLOW Advertising Hand Insulator & Clear Cover
11BP-0492-E85-AD	11BP E-85 Nozzle with BLACK Advertising Hand Insulator and Cover
11BP-0992-E85-AD	11BP E-85 Nozzle with YELLOW Advertising Hand Insulator and Cover
NTK11-0100	11 Series GREEN Advertising Insulator and Clear Cover Kit
NTK11-0300	11 Series RED Advertising Insulator and Clear Cover Kit
NTK11-0400	11 Series BLACK Advertising Insulator and Clear Cover Kit
NTK11-0500	11 Series BLUE Advertising Insulator and Clear Cover Kit
NTK11-0900	11 Series YELLOW Advertising Insulator and Clear Cover Kit
206252	Clear Cover

OPW Factory Assembled Hose Kits

OPW Hose Kits are factory assembled from the whip hose to the nozzle. Every connection is checked for pressure tightness and continuity. Use the OPW Vac-Assist and Balance Packages when converting or decommissioning your State II Vapor Recovery System.

Features

- Factory Assembled
- 100% Tested and Certified
- Quick, Easy Installation
- Reduced Dispenser Downtime



Unleaded and Diesel Packages Include

A	11BP Nozzle	3/4" Nozzle
B	241TPS-0241	3/4" 2-Plane Swivel
С	66H-0975 Standard or 66H-0975-LP Low Permeation	3/4" Whip Hose, 9 inch long, 3/4" NPT
D	68EZR-7575	3/4" Reconnectable Breakaway
E	66H-08575 Standard or 66H-08575-LP Low Permeation	3/4" Hose, 8-1/2" feet long, 3/4" NPT
F	FILLGARD [™] Splash G	uard - Color will match Hand Insulator

Ordering Specifications

Unleaded Kits

PK-EZR0100	3/4" Unleaded Green Nozzle, Standard Hose
PK-EZR0300	3/4" Unleaded Red Nozzle, Standard Hose
PK-EZR0400	3/4" Unleaded Black Nozzle, Standard Hose
VA-EZR0400-LP	3/4" Unleaded Black Nozzle, Low Permeation Hose

7H High Flow kits also available by request.

Diesel Kits	
PK-EZR0100-L1	3/4" Leaded Green Nozzle, Standard Hose
PK-EZR0900-L1	3/4" Leaded Yellow Nozzle, Standard Hose
PK-EZR0400-L1	3/4" Leaded Black Nozzle, Standard Hose

Contact OPW Customer Service for custom models.



Vae	-Assist and Ba	ance Packages Include
Α	11BP Nozzle	3/4" Nozzle
В	241TPS-0241	3/4" 2-Plane Swivel
С	66H-0975 Standard or 66H-0975-LP Low Permeation	3/4" Whip Hose, 9 inch long, 3/4" NPT
D	68EZR-7575	3/4" Reconnectable Breakaway
E	66H-08575 Standard or 66H-08575-LP Low Permeation	3/4" Hose, 8-1/2" feet long, 3/4" NPT
F	FILLGARD [™] Splash Guard - Color will match Hand Insulator _	
c	VAR75*	Vac-Assist to Conventional Adaptor
	28C-0028*	Balance to Conventional Adaptor

Ordering Specifications

Vac-Assist Decommissioning Kits

VA-EZR0100	3/4" Unleaded Green Nozzle, Standard Hose
VA-EZR0300	3/4" Unleaded Red Nozzle, Standard Hose
VA-EZR0400	3/4" Unleaded Black Nozzle, Standard Hose
VA-EZR0400-LP	3/4" Unleaded Black Nozzle, Low Permeation Hose
Balance Decomn	nissioning Kits
BA-EZR0100	3/4" Unleaded Green Nozzle, Standard Hose
BA-EZR0300	3/4" Unleaded Red Nozzle, Standard Hose
BA-EZR0400	

Contact OPW Customer Service for custom models.



Body: Aluminum Lever & Lever Guard: Duratuff® Packing: Graphite with Teflon® Disc: Viton® Spouts: Aluminum Inlet Size: 3/4" NPT Weight: 2.85 lbs. each, 44.90 lbs./case of 15 1.3kg each, 20.4kg/case of 15 11AF[®]-300F

Features

- The new and improved farm hanger is now made from stamped metal and bolted to the nozzle, making it stronger and sturdier than ever.
- UL- and ULC-Listed for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com.
- New bleeder poppet orifices allow for use in transfer pumps with or without air elimination systems.
- Prevents consumer from jamming the nozzle in an open position - blocker on lever guard.
- Durable lever guard that won't scratch

Ordering Specifications

Full Hand Insulator Color	lator UL Listed		standard no hold-	s spout, spring and open rack isted	Includes spout, hanger, spring and no hold-open rack UL and ULC Listed				
Color	For Unleaded Service	For Diesel Service	For Unleaded Service	For Diesel Service	For Unleaded Service	For Diesel Service			
Green		11AF-10FS							
Red	11APF-30FS		11APF-300F	11AF-300F					
Black	11APF-40FS	11AF-40FS			11APF-4FSC	11AF-4FSC			

*Nozzles without a no-pressure no-flow or interlock device can not be ULC listed with Hold-Open Clips.

Replacement Spout Kits

Product #	0.	0.D.		Length		ight	Used On
	in.	mm	in.	mm	lbs.	kg	useu un
5BF-0112	¹⁵ / ₁₆	24	7	178	.59	.27	11AF®
5BPF-0172	¹³ / ₁₆	21	7	178	.59	.27	11APF
	Soo page 1	52					

NEWGARD[™] Kits See page 153.

your customers' vehicles - made from Duratuff[®].

 Easy to use – utilizing Accu-Stop[®] to-the-penny Flow Control Technology.

11AF-30FS

with Hanger

 Works with self-priming and non self-priming pumps.

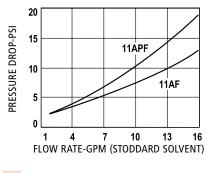
Design working pressure

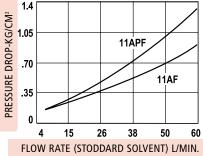
- 50 psi (3.45 bar) maximum pressure.
- When bushing from 1" hose on the 1A nozzle, use a 28S Bushing Adaptor

OPW 11AF® 3/4" Automatic Nozzles

The OPW 11AF[®] Nozzle is a sturdy industry-proven standard used primarily for fueling up to 15 gallons per minute. The 11AF[®] is an automatic dispensing nozzle designed for use in transfer pump. This nozzle should not be used for retail applications, and does not include a No Pressure – No Flow or Interlock Device.

Do not use OPW 11AF Nozzles for any retail application. It is only intended for use in non-retail applications. Use of foreign objects to hold open automatic nozzles could result in failure to shut off and personal injury.









285-0350 **Bushing Adaptor**

28R-2404 **Bushing Adaptor**



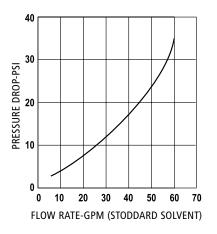
FIRST to Meet NEW

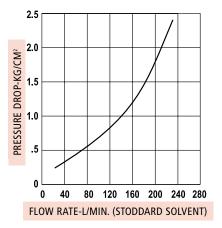
UL 2586 Requirements

OPW 7H[®] and 7HB[®] Automatic Shut-off Nozzles

For Heavy-Duty, High-Flow Truck, Bus and Fleet Service

If you operate a full-service truckstop, refuel your own fleet or manage a cardlock refueling location, the low-cost, long-life and durability of the OPW 7H[®] high-flow nozzle can help increase your productivity, sales and profits.





Materials

Body: Aluminum

- Lever & Lever Guard: Duratuff®
- Packing: Graphite with Teflon®

Disc: Viton®

Spout: Aluminum

Inlet Size: 1" NPT

Weight: 3.35 lbs. each, 52.05 lbs./case of 15 1.51 kg each, 23.6 kg/case of 15

Features

Safe for Use

- UL- and ULC-Listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Prevents gasoline spills in prepay or card-lock systems utilizing OPW's unique No Pressure – No Flow Device. The nozzle cannot be opened until the pumping system is pressurized, and closes automatically when the pressure is removed. (7HB Series only)
- Prevents consumer from jamming the nozzle in an open position – blocker on lever guard.
- FlowLock[™] allows nozzle to shut-off when falling out of a fill pipe, and is tipped up, limiting spillage and unsafe conditions.
- Low reliable shut-off specifically designed to ensure proper automatic shut-off as low as 5 gallons per minute.

Durable and Long Lasting Design

 Cycle-tested and proven to last longer than 1 million cycles – better than any other nozzle available on the market today.*

7HB®

 Durable lever guard that won't scratch your customers' vehicles – made from Duratuff[®].

7H®

 New hold-open clip spring lasts longer than previous designs.

Appealing to Customers

- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Easy to open, even at high pressures, utilizing Dual Poppets.
- Even, smooth spray pattern minimizes diesel foaming and false shut-offs.
- Smooth closing action and reduced line shock from incorporated dashpot technology.
- Convenient one-finger hold-open clip that is easy to set the flow rate. (not on all models)
- Spout Retaining Ring adds extra measure in securing nozzle spout in fill pipe where required. (not on all models)

Design working pressure

- 50 psi (3.45 bar) maximum pressure.
- * OPW internal lab testing results as of August 2010.

Listings and Certifications





△ WARNING

In order to be UL2586 approved effective April 30, 2015, the use of a Hold-Open device is only permitted on dispensing nozzles equipped with a "B-Cap" (no pressure - no flow) or interlock feature. The use of foreign objects to hold open automatic nozzles could result in shut-off failure and personal injury.

Ordering Specifications

${f B-5} ig >$ Nozzles compatible up to B5 (5% Biodiesel), Fuel Oil and Kerosene							
Handwarmer Color	7H®* with Spout Ring	7H®* without Spout Ring	7HB® with Spout Ring	7HB® without Spout Ring			
Green	7H-0100	7H-5100	7HB-0100	7HB-5100			
Black	7H-0400	7H-5400	7HB-0400	7HB-5400			
Yellow	7H-0900	7H-5900	7HB-0900	7HB-5900			
Bare	-	_	7HB-0090	7HB-5009			

NOTE: All new 7H and 7HB nozzles now come with FILLGARD[™]. For replacement FILLGARDs, see page 153. ***7H Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements**.

B-20 Nozzles	compatible up to B	20 (20% Biodiesel)		
Handwarmer Color	7H [®] * with Spout Ring	7H®* without Spout Ring	7HB [®] with Spout Ring	7HB® without Spout Ring
Green	7H-0100-B20	7H-5100-B20	7HB-0100-B20	7HB-5100-B20
Black	7H-0400-B20	7H-5400-B20	7HB-0400-B20	7HB-5400-B20
Yellow	7H-0900-B20	7H-5900-B20	7HB-0900-B20	7HB-5900-B20

NOTE: All new 7H and 7HB nozzles now come with FILLGARD[™]. For replacement FILLGARDs, see page 153. ***7H Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements**.

Replacement Parts

			7H®						
Durchard	.	0.1).* Length		Weight				
Product	Part #	in.	mm	in.	mm	lbs.	kg	Used On	
7H Spout Kit w/ spout ring	5BH-0115	1 ³ /16*	30	7	178	.66	.30	7H®	
7H Spout Kit w/o spout ring	5BH-5115	1 ³ / ₁₆	30	7	178	.66	.30	7H® (w/o ring)	
12-inch 7H Spout Kit	5BHB-0125	1 ³ / ₁₆	30	12	305			7H®	

NEWGARD[™] Kits See page 153

					7H	B®			
Due du et	Davit #	0.0	O.D.* Length Weight						
Product	Part #	in.	mm	in.	mm	lbs.	kg	Used On	
7HB Spout Kit w/ spout ring	5BBH-0136	1 ³ / ₁₆ *	30	7	178	.65	.30	7HB®	
7HB Spout Kit w/o spout ring	5BBH-5136	1 ³ / ₁₆	30	7	178	.66	.30	7HB® (w/o ring)	
NEWGARD [™] Kits	See page 153							7HB®	

* Spout end with anchor ring is $1^{31}/_{64}$ " O.D.

7H®, 7HB® Series Instruction Sheet Order Number: H15985M

NOTE: See OPW's Website at www.opwglobal.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.

Custom Colors

With minimum quantities. Contact OPW customer service.

📕 Blue

Red

Silver





7HB[®] Spout without ring

9393 Princeton-Glendale Road 🔶 Hamilton, Ohio USA 45011 🔶 Phone: (800) 422-2525 🧼 Fax: (800) 421-3297

OPW NEWGARD™ Full Hand Insulator

All OPW 7 Series, Astro Series, and 1A Series nozzles are furnished complete with NEWGARD[™] hand insulators. Available in a variety of colors.

OPW NEWGARD™ Two-Piece Hand Insulator

OPW 11A[®] and 11B[®] nozzles are furnished complete with NEWGARD[™] 2-piece hand insulators. For a more unique appearance, try our new twopiece design. OPW NEWGARD[™] 2-piece hand insulators make it easy to match new color schemes or replace soiled insulators without removing the nozzle from the hose.

OPW 8 FILLGARD™ Splash Guard

FILLGARD[™] also enhances the appearance of your gasoline nozzle, and makes dispensing gasoline more pleasant for your customers. FILLGARD[™] won't deform or crack in cold weather. FILLGARD[™] is not standard on new 7 Series nozzles.

Ordering Specifications



Hand Insulator		NEWGARD™	1 piece		NEWGARD™ 2 piece		FILLGARD™	
Color	11A®	11B®	7H®	7HB®	11A®	11B®	11A® &11B®	7H® / 7HB®
Green	D01246M	C03647M	E00307M	E00325M	D01773M	D01529M	8G-0100	8HG-0100
Silver	D01174M	C03648M	207113		205217	D02078M	85-0200	
Red	D00907M	E00304M		211218	D01775M	D01789M	8R-0300	8HR-0300
Black	D00909M	E00308M	E00306M	E00324M	D01719M	D01532M	8BL-0400	8HBL-0400
Blue	D00908M	C03649M		H14846M	D01774M	D01790M	8B-0500	
Yellow	D00917M	C03655M	E00368M	H11923M	D01776M	D01791M	8Y-0900	8HY-0900
Gold	D01295M	C03653M			205219	205206	8GL-0750	
Orange	D01245M	C03654M	205598	205599	205248	205252	80-0800	8HO-0800
					D01530	M Barrel		

Note: Barrel and Hand Insulator sold separately.

Custom Colors: With minimum quantities. Contact OPW Customer Service.

White	Azure Blue	Brown
Light Red	Dark Blue	

Notes:

 OPW may add or delete colors without notice.
 Actual color may vary from production run to production run.
 Custom colors available, minimum quantities applicable.**
 Custom logos available for additional charge.**

** For ordering specifications not listed in this catalog, visit our website at www.opwglobal.com or contact Customer Service at 1-800-422-2525.



Meets ISO 22241 Compatibility Testing for DEF Contamination Rever & Lever Guard: Duratuff® Seals: Viton® Inlet Size: M34 (adaptor required for each nozzle) Weight: 2.41 lbs. each, 36 lbs./case of 15 1.1 kg each, 16.5 kg/case of 15 Mis-Filling Prevention Device (MFPD)

Features – Benefits

- Automatic Shutoff Feature shuts off nozzle when the tank is full
- Mis-filling prevention device eliminates the risk of accidental DEF filling or environmental contamination.
- Spout with magnetic interface prevents mis-filling mishaps.
- Durable streamlined nozzle design for easy, comfortable nozzle handling makes it easy to differentiate DEF products.
- Total end-to-end affordable solution is a convenient and complete system from the Industry Leader.
- Comes with Integral Contaminant-Prevention Filter; this replaceable, stainless steel, 40-mesh filter provides an added level of protection against DEF contaminants.
- Outfitted in that familiar and unmistakable "DEF Blue" with slogan badge for instant product identification.

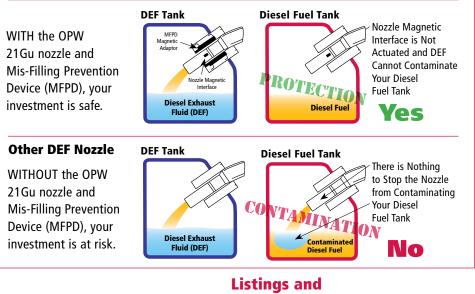


21GU-FLTR

21Gu-0500

Maximum pressure and flow rate

- 40 psi (2.75 bar) maximum pressure.
- 10 gpm (37.8 lpm) maximum flow rate

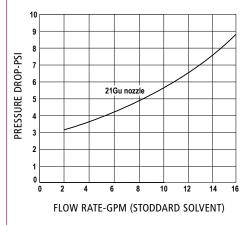


MIS-FILLING PREVENTION

OPW 21Gu[™] DEF Nozzle

The Industry's Most Comprehensive DEF-Filling Solution

- End-to-end dispensing hardware solution for reliable, efficient DEF-filling
- Industry standard DEF-filling solution in Europe
- Unique Mis-Filling Prevention Device (MFPD) provides unparalleled filling assurance and peace of mind
- Affordable mis-filling prevention insurance designed to protect your investment against potential mis-filling mishaps



Are You Protected?

A fixed magnetic field within the Mis-Filling Prevention Device actuates a magnetic interface in the spout of the 21Gu nozzle to allow the flow of DEF. Without the Mis-Filling Prevention Device, the DEF nozzle will not flow. Put the nozzle in the wrong tank – say, your diesel tank – no problem, the nozzle will not flow. No other DEF-filling nozzle has this DEF mis-filling protection capability.

Certifications ISO 22241 Compliant

Nozzle Ordering Specifications

Product #	Description
	Maxma® / Danmatt® / Cas

21GU-0400	Wayne [®] / Bennett [®] / Gasboy [®] (Model 9862XX-ZWW) Nozzle designed for use WITHOUT Mis-Filling Prevention Device
21GU-040G	Gilbarco® / Gasboy® (Model 9862KX-Z) Nozzle designed for use WITHOUT Mis-Filling Prevention Device
21GU-0500	Wayne® / Bennett® / Gasboy® (Model 9862XX-ZWW) Nozzle designed for use WITH Mis-Filling Prevention Device
21GU-050G	Gilbarco® / Gasboy® (Model 9862KX-Z) Nozzle designed for use WITH Mis-Filling Prevention Device

NOTE: Each nozzle requires one adaptor fitting to convert from M34 to 1 " BSPP threads.

Re

NOTE: Each nozzie	requires one adaptor fitting to convert from M34 to 1 BSPP threads.	D			
Replacement Parts					
Product #	Description				
206466	21GU-0500 & 050G Blue Hand Insulator				
205077	21GU-0400 & 040G Black Hand Insulator				
21GU-SPOUT	DEF Replacement Spout designed for use WITH Mis-Filling Prevention Device				
21GU-SPOUT-N	DEF Replacement Spout WITHOUT Mis-Filling Prevention Device				
204133	DEF Replacement Slogan Badge				
21GU-FLTR	Strainer and Spacer Washer				



Bennett[®], Separation by Design[®], Wayne[®] Guard Standard) and Gasboy®



Gilbarco[®] Guard

21GU-SSB

Stainless Steel Swivel / Reconnectable Breakaway



- SST construction and compatible with ISO 22241 Standard
- Converts nozzle from M34 threads to 1" BSPP
- Integral reconnectable breakaway 175-330 (lbs.) 80-150 (kg)
- Includes 21GU-BCS for attractive installation and protection of vehicles



OPW MIS-FILLING PREVENTION DEVICE (MFPD)

DEF mis-filling can be expensive. The OPW 21Gu MFPD offers the industry's most effective and affordable insurance policy against mis-filling mishaps actually stopping them before they happen. There is no better way to protect your investment and the environment.

21Gu Nozzle Adaptor Ordering Specifications

Product #	Description
21GU-SSB	DEF Stainless Steel Reconnectable Breakaway / Swivel - NOTE: One (1) 21GU-SSB is required for each nozzle. Hose connection end is 1" BSPP male thread.
21GU-SCS	Replacement DEF Swivel Cover Sleeve
21GU-BCS	Replacement DEF Swivel/Breakaway Cover Sleeve (Comes with 21GU-SSB)

21Gu Mis-Filling Prevention Device

Product #	Description
MFPD	21GU Mis-Filling Prevention Device (MFPD). Order one MFPD or Bulk Packed for OEM sales (420 per case) NOTE: The MFPD is permanently installed in DEF tank fill pipe. Contact your vehicle supplier and specify the OPW DEF Mis-Filling Prevention Device.
MFPD-Pak	Retail Packaged Mis-Fill Prevention (Each)

Note: Want them individually packaged for retail? Contact OPW customer service at 1-800-422-2525.



Hose: O.D.: 1" (26 mm) I.D.: 5/8" (16 mm) Minimum bend radius: 3-1/2" (90 mm) Thread connections: 1" BSPP female at both ends Torque specification: 30-37 ft. lbs (40-50 Nm)

Features

- Specially designed for DEF-flow applications.
- Lightweight and highly flexible for easy customer handling.
- Smooth bore, seamless fluoropolymer lining for exceptional flow performance.

Ordering Specifications

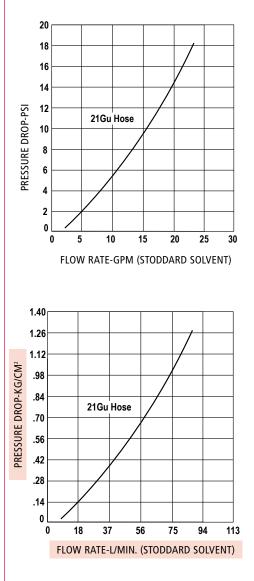
 Swivel end couplings provide for easy installation.

OPW ⇒ DEF HOSE HXX 230AS

- Durable, reliable, long-life performance and maximum flow efficiency.
- Anti-kinking sleeve at nozzle end to reduce wear on hose during use.

OPW 21Gu Hose Assembly

The OPW 21Gu Series DEF Hose is the de facto standard for hoses in Europe. Designed with integral swivel couplings and an anti-kinking sleeve, the 21Gu hose is easy to install and use. The OPW 21Gu Hose meets compatibility testing as specified in ISO 22241 so that you can rest assured that your hose will last.



Product # Description 21GU-H8 DEF Hose Assembly, 8 ft. 21GU-H11 DEF Hose Assembly, 11 ft. for Bennett® & Gasboy® Dispensers 21GU-H12 DEF Hose Assembly, 12 ft. 21GU-H15 DEF Hose Assembly, 15 ft. for Separation by Design® Dispensers 21GU-H17G DEF Hose Assembly, 17.4 ft. for Gilbarco® Retail and Wayne® Dispensers DEF Hose Assembly, 21 ft. 21GU-H21 21GU-HRS DEF Hose Replacement Seals (10 per pack) 204129 DEF Hose Coupling (comes with hose seal) 204130 **DEF Anti-kinking Sleeve**

Note: Need a different custom length? Contact OPW customer service at 1-800-422-2525.

Conventional Swivels & Breakaways



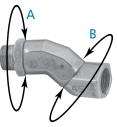
Swivel Breakaway Selection Chart	
Hose Swivels	159-160
Swivel/Breakaways	
Reconnectable Breakaways	
• Single Use Breakaways	
• 66H Series Hose	



SWIVELS



B



Model	36S	241TPS	45
Rotation A	360°	360°	360°
Rotation B	N/A	270°	360°
O-Ring Design	Dual O-Ring – Viton®/Buna-N	Dual O-Ring – Viton®/Buna-N	Dual Seal – Viton®
³ / ₄ " Model	Yes	Yes	Yes
1" Model	Yes	Yes	Yes
Page	159	160	159
Cold Weather Option	No	No	Yes

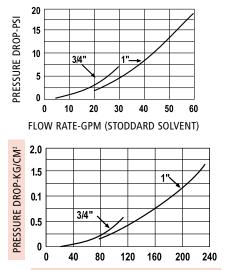




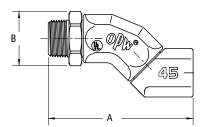
Model	66V	68EZR	66REC	66SB
Style	Single Use	Reconnectable	Reconnectable	Reconnectable
Cost	 Low Initial Unit Cost Requires Service Call To Replace 	 Higher Initial Unit Cost No Service Call Required To Reconnect 	 Higher Initial Unit Cost No Service Call Required To Reconnect 	 Higher Initial Unit Cost No Service Call Required To Reconnect
Application	 High Hose Dispensing Requires Whip Hose 	 High Hose Dispensing Requires Whip Hose 	 High Hose Dispensing Requires Whip Hose 	• No Whip Hose Requiredz
³ /4" Model	Yes	Yes	Yes	Yes
1" Model	Yes	Yes	N/A	Yes
Other Features	Available with a Whip Hose Combination	Audible Click	Audible Click	Combines Swivel & Breakaway
Page	163	162	163	161
Cold Weather Option	No	Yes	Yes	Yes

OPW 45 Hose Swivel

The OPW 45 swivel is designed for gasoline self-service applications where easy nozzle and hose handling is important for customer convenience. The 45 is installed between the nozzle and hose to reduce strain, providing flexibility so fueling hoses last longer.

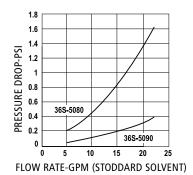


FLOW RATE-L/MIN. (STODDARD SOLVENT)



OPW 36S Hose Swivel

Designed for use with fuel oil nozzles (at inlet only), the OPW 36S provides 360° swivel action. The full-circle swivel reduces the physical strain of aligning the nozzle with the fillpipe.



Materials

Body: Aluminum

Outlet Adaptor: Zinc

Inlet Adaptor: Zinc

Seals: Buna-N

Weight: 3/4": .65 lbs. each; 30 kg 1": 1.16 lbs. each; .53 kg

Packed: 20 per Case (45-5060) 30 per Case (45-5075)

Features

- UL and ULC listed for use in gasoline, diesel, and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Compact, attractive profile for a sleek, modern appearance.
- Secure design not repairable or rebuildable for certainty of operation. Every OPW 45 is factory assembled and tested.

Ordering Specifications



- Better flow performance less restriction means higher refueling speeds.
- Unique 2 planes of rotation for easy nozzle positioning and hose life.
- ◆ 50 psi (3.45 bar) maximum pressure.

Product #	Size	Overall Length	Across Corners	We	ight
Product #		А	В	lbs.	kg
45-5060	3/4" F x 3/4" M (NPT)	4 ¹ /8"	1º/16"	.65	.30
20 per case	19 mm x 19 mm	105 mm	40 mm		
45-5075	1" F x 1" M (NPT)	4 ³ / ₄ "	17/8"	1.16	.53
20 per case	25 mm x 25 mm	121 mm	48 mm		

Materials

Body: Aluminum	365-5080
Adaptor: Zinc Aluminum	
Seals: Buna-N O-Ring, Viton® O-Ring	
Bearings: Nylon	

Ordering Specifications

Product Number	Inlet Thread x Outlet Thread	lbs.	kg
365-5080	3/4" M x 3/4" F (NPT)	0.30	0.14
	(19 mm x 19 mm)		
365-5090	1" M x 1" F (NPT)	0.40	0.18
	(25 mm x 25 mm)		

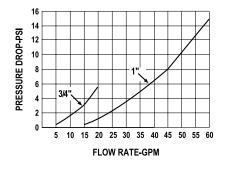
Listings and Certifications

NOTE: See OPW's Website at www.opwglobal.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.

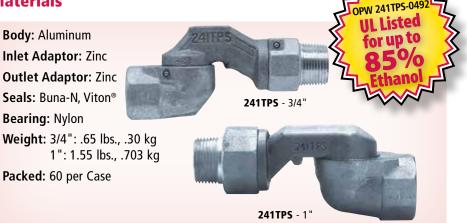


OPW 241TPS Series Hose Swivels

The OPW 241TPS Series of swivels are designed and rigorously tested for applications where easy nozzle and hose handling is important for customer convenience. Swivels are installed in between the nozzle and the hose to provide flexibility in the system to reduce customer strain, position the nozzle properly and reduce premature hose wear.

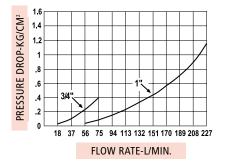


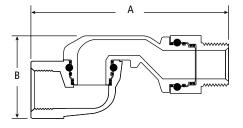




Features

- UL and ULC listed for use in gasoline, diesel, and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Allows for easy nozzle positioning in fill pipes – utilizing two planes of rotation.
- Reduces premature hose wear utilizing two planes of rotation.
- Added protection vs. thermal and chemical degradation – Dual Seals.
- 50 psi (3.45 bar) maximum pressure.





Ordering Specifications

Product #	Inlet/Outlet	Length A	Depth B
241TPS-0241	³ / ₄ " F x ³ / ₄ " M (NPT)	4 ⁷ /8"	2 ³ / ₁₆ "
241TPS-0492* (E85) 241TPS-75RF** (E25/B20)	19 mm x 19 mm	124 mm	56 mm
241TPS-1000	1" F x 1" M (NPT)	6 ¹ / ₃₂ "	2 ¹⁷ / ₃₂ "
241TPS-10RF*** (B20)	25 mm x 25 mm	153 mm	64 mm

*241TPS-0492 is UL Listed for up to 85% Ethanol.

**241TPS-75RF is UL Listed for up to 25% Ethanol and 20% Biodiesel.

***241TPS-10RF is UL Listed for up to 20% Biodiesel.



NOTE: See OPW's Website at www.opwglobal.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.

Body: Aluminum Sleeve: Nylon, HDPE Seals: Viton® Spring: Stainless steel Poppet: Aluminum Packed: 20 per Case



Features

- UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Pull Force the 66SB will break away with a pull force of no more than 350 lbs.
- Easily Reconnected at Waist Height after relieving line pressure, simply push coupling halves together until latched. Reconnection force is approximately 15 lbs.
- Protected Coupling and Poppet the breakaway's poppet and sealing surface are protected from impact during separation by a plastic sleeve.

Ordering Specifications

Product #	C 1		Weight
	Size	lbs.	kg
66SB-7575	³ /4" x ³ /4" (NPT)	1	0.45
66SB-1010	1" x 1" (NPT)	1.82	0.83

Dimensions

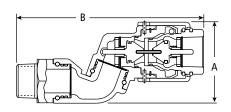
Product #	Α	۱.		В
	in.	mm	in.	mm
66SB-7575	2 ¹ / ₂ "	64	5 ²⁹ / ₃₂ "	150
66SB-1010	3 ¹¹ / ₃₂ "	85	8 ¹ / ₂ "	216

66SB Instruction Sheet Order Number: F-69

- Reduces Connections the singleunit design replaces the standard swivel, breakaway and whip hose, eliminating possible leak points.
- Double O-Ring Seal both swivel joints are protected by a double O-Ring design.

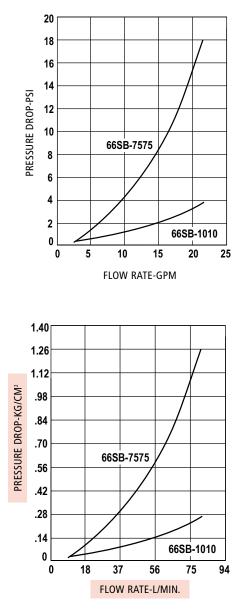
Design working pressure

50 psi (3.45 bar) maximum pressure.



OPW 66SB Swivel Breakaway

The OPW 66SB Swivel Breakaway is intended for easy installation at the nozzle inlet. The compact, lightweight design incorporates a 360° swivel rotation at both the male end and middle joint, with a simple and easily-reconnectable breakaway on the opposite end.

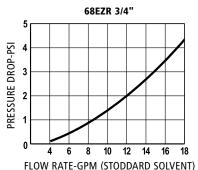


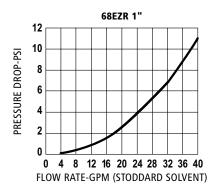
Listings and Certifications



OPW 68EZR Series 3/4" and 1" Dry Reconnectable Breakaway

The OPW 68EZR Recconnectable Breakaway has been designed for retail fueling operations to deliver an increased level of security in the event of a drive off. Not only is it the fastest and easiest breakaway in the industry to reconnect, but also the one that delivers the greatest peace of mind that it is securely reconnected. Built on the 66REC breakaway technology platform, the 68EZR delivers trusted OPW quality and proven technology at the lowest cost of ownership. The 68EZR is installed on fuel dispensing hoses and will separate when subjected to a designated pull force. Upon separation, the dual valves seat automatically, stopping the flow of fuel and limiting any fuel spillage, while protecting the dispensing equipment. For proper operation on high-hanging hoses, the OPW 68EZR must always be installed with a "straightening" hose, such as the OPW 66H. For low hose applications, the OPW 68EZR should be installed downstream of the retractor cable.





Materials

3/4" 68EZR

Body: Die-cast zinc Protective Sleeves: Impact Resistant Super-tough Nylon Main Seals: Viton® & Fluorosilicone Main Spring: Stainless steel Guide and Poppets: Acetal / Delrin Packed: 20 per Case

1" 68EZR

Body: Aluminum Protective Sleeves: Impact Resistant Super-tough Nylon Main Seals: Viton® & Fluorosilicone Main Spring: Stainless steel Guide and Poppets: Acetal / Delrin Packed: 20 per Case

Features

- UL and ULC listed for use in gasoline, ethanol blends up to 25% (E25), diesel, and biodiesel blends up to 20% (B20).
 Specific listings available at www. opwglobal.com.
- Pull Force the 68EZR will break away with a pull force of no more than 350 lbs.
- Unique Double-Poppet Design features low pressure drop.
- Coupling Halves protected by proven plastic sleeves.



Product #	Size mm		Weight		
Product #		lbs.	kg		
68EZR-7575	³ /4" (NPT)	19	1.2	0.54	
68EZR-75RF*	³ /4" (NPT)	19	1.2	0.54	
68EZR-1010	1" (NPT)	25	1.2	0.54	
68EZR-10RF**	1" (NPT)	25	1.2	0.54	

*68EZR-75RF is UL and ULC listed for use in gasoline, ethanol blends up to 25% (E25), diesel, and biodiesel blends up to 20% (B20).

**68EZR-10RF is UL and ULC listed for use in diesel, and biodiesel blends up to 20% (B20).

Replacement Parts

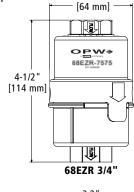
Part #	Description			
211143	3/4" Main Seal			
8509	1" Main Seal			

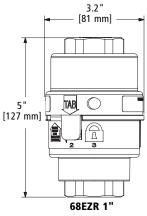
68EZR Series Instruction Sheet Order Number: 208080

Listings and Certifications U.S. PAT. 9,528,648



- Easily Reconnected features "Push-Twist-Click" technology; simply realign the valve, push in and then twist until you hear the audible click.
- Cold weather compatible
- Reconnection force of approximately 7 lbs.
- Line Shock the OPW 68EZR is able to absorb the effects of normal line shock through the unique design of the disconnecting features.
- 50 psi (3.45 bar) maximum allowable operating pressure. 2-1/2"



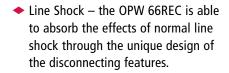


Body: Die-cast zinc Protective Sleeves: Impact resistant nylon Main Seals: Viton® Main Spring: Stainless steel Guide and Poppets: Acetal Packed: 20 per Case



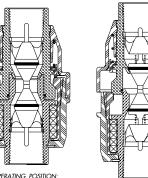
Features

- UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Pull Force the 66REC-1000 will break away with a pull force of no more than 350 lbs.
- Unique Double-Poppet Design features low pressure drop.
- Coupling Halves protected by proven plastic sleeves.
- Easily Reconnected just "push and twist" until you hear the audible click, signifying the unit has been correctly reconnected. Reconnection force approximately 15 lbs.
- May be reconnected under wet or dry hose conditions.
- Cold weather compatible



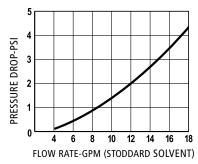
Design working pressure

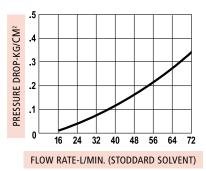
◆ 50 psi (3.45 bar) maximum pressure.



OPERATING POSITION: POPPETS OPEN, INTERLOCK ENGAGED, COUPLING IN CONTACT WITH FORCE RAMPS.

DRY RECONNECT POSITION: POPPETS CLOSED, MALE BODY SEALED AGAINST FEMALE BODY O-RING.

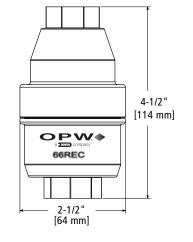




Ordering Specifications

Product #	in.	mm	lbs.	kg
66REC-1000	3/4" (NPT)	19	1.2	.54

NOTE: See OPW's Website at www.opwglobal.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.



Listings and Certifications



OPW 66REC 3/4" Dry Reconnectable Breakaway

The OPW 66REC is the first dry reconnectable breakaway for the conventional dispensing market. It is designed to be installed on fuel dispensing hoses and will separate when subjected to a designated pull force. The dual valves seat automatically, stopping the flow of fuel and limiting any fuel spillage, while protecting the dispensing equipment. When reconnecting the separated halves, the 66REC seals tightly on an O-ring before the poppet stems engage to open the valve. For proper operation on high-hanging hoses, the OPW 66REC 3/4" must always be installed with a "straightening" hose with a minimum length of 9", such as the OPW 66H. For low hose applications, the OPW 66REC should be installed downstream of the retractor cable.



Body: Aluminum Seals: Buna-N and Viton® Weight: See matrix below



Features

- UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com.
- Prevents Costly Damage to Dispensers - pulls apart at less the designed pull force during drive-offs.
- Certainty of Operation designed for single use, so you know it is replaced instead of re-assembled.

Ordering Specifications

Connection Size Weight Product # **Description - Pull Force** lbs. in. mm kg 0.27 Valve / No More Than 300 lb. 66V-0300 ³/₄" F x ³/₄" F (NPT) 19 F x 19 F 0.60 66V-030RF** ³/₄" F x ³/₄" F (NPT) 19 F x 19 F 0.60 0.27 Valve / No More Than 300 lb. 66V-0492* ³/₄" F x ³/₄" F (NPT) 19 F x 19 F 0.60 0.27 Valve for up to E85 / No More Than 300 lb. 1" F x 1" F (NPT) 66V-1300 25 F x 25 F 0.98 0.45 Valve / No More Than 300 lb. 66V-130RF*** 1" F x 1" F (NPT) 25 F x 25 F 0.98 0.45 Valve / No More Than 300 lb. 66V-1350 25 F x 25 F 0.98 0.45 Valve / No More Than 350 lb. 1" F x 1" F (NPT) 66V-135RF*** 1" F x 1" F (NPT) 25 F x 25 F 0.98 0.45 Valve / No More Than 350 lb.

* 66V-0492 is UL Listed for up to 85% Ethanol

** 66V-030RF is UL Listed for up to 25% Ethanol and 20% Biodiesel

*** 66V-130RF and 66V-135RF are UL Listed for up to 20% Biodiesel

Accessories

66H-1300

66H-08575

66H-08575-LP

66-0075	³ / ₄ " F x ³ / ₄ " M (NPT)	19 F x 19 M	1.46	0.66	Valve w/ 9" Hose / No More Than 300 lb.
66-1300	1" F x 1" M (NPT)	25 F x 25 M	2.50	1.13	Valve w/ 12" Hose / Maximum 300 lb.
66S-0075	³ /4 "	19	0.20	0.10	Black Vinyl Scuff Guard Cover
66S-1300	1"	25	0.20	0.10	Black Vinyl Scuff Guard Cover

66H Series of Hoses

The 66H Series Hoses are UL approved, steel reinforced hardwall flexible to -40°F. 3/4 inch inside diameter with 3/4 inch male NPT chrome crimped ends. Compatible with fuel blends up to E-15 & B-20. Maximum working pressure 50PSI. Also available in Low Permeation per UL330.

1" M x 1" M (NPT)

3/4" M x 3/4" M (NPT)

3/4" M x 3/4" M (NPT)

Orderin

12 inch (30 cm)

8.5 feet (2.6 m)

8.5 feet (2.6 m)

Ordering Specifications					Straightening ht	
Product #	Length	Connectio in.	n Size mm	We lbs.	e ight kg	Description
66H-0975	9 inch (23 cm)	³ / ₄ " M x ³ / ₄ " M (NPT)	19 M x 19 M	0.75	0.34	Straightening Hose
66H-0975-LP	9 inch (23 cm)	3/4" M x 3/4" M (NPT)	19 M x 19 M	0.75	0.34	Straightening Hose LOW PERMEATION per UL330

25 M x 25 M

19 M x 19 M

19 M x 19 M

1.40

4

4

0.63

1.8

1.8

Straightening Hose

Curb Hose LOW PERMEATION per UL330

Curb Hose

 Prevents Hazardous and Costly Clean Up – unique double poppet design closes leak path from both dispenser and separated hose side.

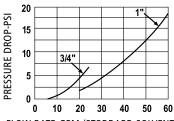
Design working pressure

50 psi (3.45 bar) maximum pressure.

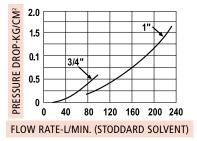
NOTE: OPW 66V Series Breakaways must always be installed with a "straightening" hose with a minimum length of 9" for the 3/4" Series and a minimum length of 12" for the 1" Series, such as the 66H Series hoses.

OPW 66V Series Breakaways

The OPW 66V Series breakaways are designed and rigorously tested for use in today's fuels. Installed on fuel dispensing hoses, they will separate at the designed pull force, reducing expensive damage to the dispenser and piping system. Internal dual valves close automatically during separation, stopping the flow of fuel from both the dispenser and the separated hose, reducing environmental and health risks of potential spilled fuel.



FLOW RATE-GPM (STODDARD SOLVENT)



66V Series 3/4" Instruction Sheet Order Number: H10993PA 66V Series 1" Instruction Sheet Order Number: H10993PA 66S Series Instruction Sheet Order Number: H11015PA





We don't stop at the nozzle.

We've got you covered with swivels, breakaways and hoses.

OPW Swivels Co	ompatibility		
			0 22.4 AS 3
Model	36S	241TPS	45
Up to E10	365-5080	241TPS-0241	45-5060
Up to E25		241TPS-75RF	
Up to E85		241TPS-0492	
Up to B5	365-5080, 365-5090	241TPS-0241, 241TPS-1000	45-5060, 45-5075
Up to B20		3/4" 241TPS-75RF, 1" 241TPS-10RF	

OPW Breakaway Compatibility

		Now Por E25, Ethanol Blend		
Model	66V	68EZR	66REC	66SB
Up to E10	66V-0300	68EZR-7575	66REC-1000	66SB-7575 66SB-1010
Up to E25	66V-030RF	68EZR-75RF		
Up to E85	66V-0492			
Up to B5	66V-0300 66V-1300 66V-1350	68EZR-7575 68EZR-1010	66REC-1000	66SB-7575 66SB-1010
Up to B20	3/4" 66V-030RF 1" 66V-130RF 1" 66V-135RF	68EZR-75RF 68EZR-10RF		

Hose Compatibility

	Straightening Hose: 66H-0975 - 9 inch (23 cm)	Curb Hose: 66H-08575 8.5 foot (2.6 m)
Model	Whip Hose (9 in)	Curb Hose (8.5 ft)
Up to E10	66H-0975	66H-08575
Up to E25	66H-0975-E25	66H-08575-E25
Up to E85	66H-0975-E85	66H-08575-E85
Up to B5	66H-0975	66H-08575
Up to B20	66H-0975	66H-08575
Low Perm	66H-0975-LP	66H-08575-LP

E25, B20 Hose Kits Available

Contact Your OPW Distributor or Sales Representative



Body: Aluminum nickel-plated Spring: Steel zinc-plated Guide: Ceramic-filled plastic Adaptor: Steel zinc-plated Inlet and Outlet Size: 3/4" NPT



Features

- UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Compact, attractive profile for

a sleek, modern appearance.

- Includes a ¾" NPT pipe nipple.
- The OPW 44-0044 is designed to be installed at the dispenser outlet or between the dispenser and the breakaway valve, thus removing it from the abusive action sometimes

seen at the nozzle.

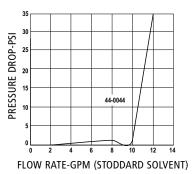
 A flow indication arrow – is indicated on the flow limiter for easy installation.

Design working pressure

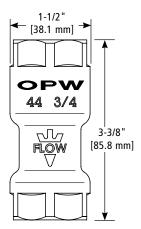
◆ 50 psi (3.45 bar) maximum pressure.

OPW 44 Flow Limiter

The OPW 44 Flow Limiter allow your customers to comply with the EPA 10 gpm maximum flow rate mandate which went into effect July 1, 1996. The OPW 44-0044 Flow Limiter is designed to control the maximum fuel flow rate to 10 gpm.



44-0044



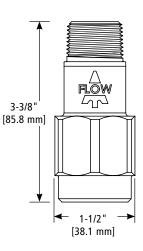
Ordering Specifications

Product #	Length	Wei	ght
Froduct #	in.	lbs	kg
44-0044	3/4 F x 3/4 F (NPT)	1.2	.54

44 Series Instruction Sheet Order Number: H12918PA

NOTE: See OPW's Website at www.opwglobal.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.





Vacuum-Assist Vapor Recovery Hanging Hardware



12VW Nozzles	
Vapor Recovery Nozzle Accessories and Replacement Parts	
Hose Swivels.	170
Swivel Breakaway Combos	171
Reconnectable Breakaways	172
Single-Use Breakaways	159
Accessories, Adaptors and Converters	



Body: Aluminum

Lever & Lever Guard: Duratuff® Packing: Graphite with Teflon® Disc: Viton® Spout: Aluminum w/ Stainless Steel tip Inlet Size: M34 Metric Weight: 3.1 lbs. each; 31.0 lbs./case of 10 1.41 kg each; 14.1 kg/case of 10

Features

Safe for Use

- UL listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Prevents gasoline spills in prepay or card-lock systems utilizing OPW's unique No Pressure – No Flow Device.
 The nozzle cannot be opened until the pumping system is pressurized and closes automatically when the pressure is removed.
- Prevents consumer from jamming the nozzle in an open position – blocker on lever guard.
- FlowLock[™] allows nozzle to shut off when falling out of a vehicle, and is tipped up, limiting spillage and unsafe conditions.
- Vapor Escape Guard (VEG) improves vapor collection.
- Lever-activated vapor valve only opens when product is flowing controlling the amount of vapors collected from the vehicle.

Durable and Long Lasting

 Cycle tested and proven to last longer than 1 million cycles – better than any other nozzle available on the market today*. Stainless steel insert in spout to last longer then standard aluminum-only spouts.

12VW

- Durable lever guard that won't scratch your customers' vehicles – made from Duratuff[®].
- New hold-open clip spring lasts longer then previous designs.
- Internal vapor path no replacement parts needed.

Appealing to Customers

- Easy to use utilizing Accu-Stop[®] to-the-penny Flow Control Technology.
- Attractive 2-Piece NEWGARD[™] Hand Insulator is the most comfortable nozzle in the industry to use.
- Convenient one-finger hold-open clip that is easy to set the flow rate (not on all models).

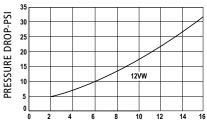
Design working pressure

- 50 psi (3.45 bar) maximum pressure.
- * OPW internal lab testing results as of August 2010.

OPW 12VW Vacuum-Assist Nozzles

The OPW 12VW Series automatic nozzles are one of OPW's premium nozzles for Vacuum-Assist vapor recovery systems. Designed with an integrated vapor-valve, they are certified on the most used vapor recovery systems in the world. The 12VW is the most trusted vapor recovery nozzle in the world for the applications it is certified on including:

- Dresser/Wayne Wayne[®] Vac
- Gilbarco[®] VaporVac[®]
- Schlumberger
- Vacurite



FLOW RATE-GPM (STODDARD SOLVENT)



Listings and Certifications



California Air Resources Board

Listings and Certifications

Certifications and Listings		Gilbarco® VaporVac®
CARB Initial Certification Date	April 2000	July 2000
CARB Certification Number	G-70-153* / G-70-199**	G-70-150* / G-70-199**

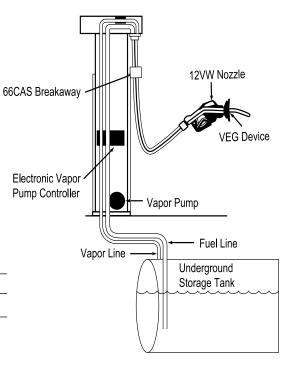
* Latest version.

**Approval for 350ml liquid retention requirement.

Ordering Specifications

Standard Hand Insulator Color	12VW New Unleaded, with Hold-open Rack	12VW w/ AdMaster™
Green	12VW-0100	
Silver	12VW-0200	
Red	12VW-0300	
Black	12VW-0400	12VW-0400-AD
Blue	12VW-0500	
Gold	12VW-0750	
Yellow	12VW-0900	
Bare	12VW-0000	

Typical Installation



Replacement and Repair Parts

Product	Description	Part#
Spout Kit	Replacement aluminum unleaded spout with VEG	5VW-2000
ECD Kit	Replacement ECD and hardware	3VW-0450

12VW Series Instruction Sheet Order Number: H15890PAE

OPW 6 NEWGARD[™] Two-Piece Hand Insulator

Ordering Specifications

Hand Insulator Color	12VW New Unleaded, with Hold-Open Rack
Green	H13964M
Silver	H14662M
Red	H13942M
Black	H13941M
Blue	H14580M
Gold	H14661M
Yellow	H13943M
Hand Insulator Barrel	D02141M





Body: Aluminum Outlet Adaptor: Aluminum Inlet Adaptor: Aluminum Seals: Viton and Buna-N Weight: 1.5 lbs. each, 0.68 kg



Features

- UL listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Easier Hose Movement filling the vehicle is much easier, because hoses do not kink and are much freer to move.
- Improved Wear reduces stress and wear on hoses.
- Two-Plane Rotation the first swivel plane allows for 360° of motion perpendicular to the axis of the nozzle.
- The second swivel plane allows for 360° of motion parallel to the axis of the nozzle for easy nozzle positioning in the fillpipe.

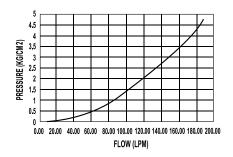
- Compact, Attractive Profile provides a sleek, modern appearance, allowing hoses to hang straight down instead of at an angle.
- Secure Design not repairable or rebuildable for certainty of operation. Every MFVA is factory assembled and tested.
- Special Swivel Outlet Design male adaptor is specially designed so that tightening of the threaded joint will not inhibit swivel rotation.

Design working pressure

• 50 psi (3.45 bar) maximum pressure.

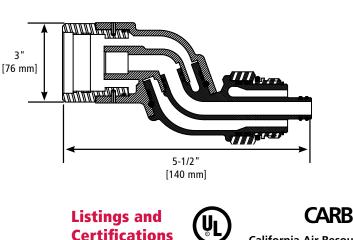
OPW MFVA Inverted Swivel

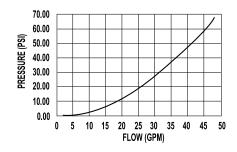
The OPW MFVA Inverted Swivel is designed for vapor recovery applications where easy nozzle and hose handling is important for customer convenience. When attached between the nozzle and the hose, the OPW MFVA two-plane swivel allows your customer a much fuller range of motion in positioning the nozzle to fill the vehicle. Your customer can access the fillpipe from virtually any angle with minimal effort. The OPW MFVA attaches between the hose and the nozzle to reduce strain, providing flexibility so fueling hoses last longer. The OPW MFVA provides 360° swivel action for easy nozzle positioning into the fillpipe.



Ordering Specifications

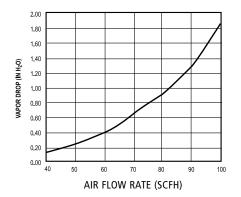
Product #	Description	Threads
MFVA	Vacuum Assist Swivel	M34 Metric





OPW 66ISB Vacuum-Assist Stage II Vapor Recovery Reconnnectable Swivel/Breakaways

Reconnectable, vapor poppeted Vacuum-Assist Swivel/Breakaways available. Designed for those who want to provide customers with the convenience of a 2-plane swivel and the added safety of a breakaway.



Materials

Body: Aluminum Sleeve: Nylon, HDPE Seals: Viton® Spring: Stainless steel Poppet: Aluminum Weight: 1.3 lbs., 0.60 kg

66ISB-5100

Features

- UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Engineered to separate with an axial pull force of no more than 350 lbs.
- 66ISB-5100 comes with vapor poppet.
- Swivel rotation of 360° in both planes.
- Push-back reconnect style.

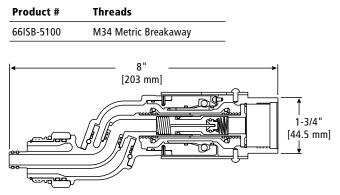
Easier reconnection at waist height.

- Extends hose life.
- Double O-rings at each joint.

Design working pressure

• 50 psi (3.45 bar) maximum pressure.

Ordering Specifications



Listings and Certifications

California Air Resources Board CARB Certified and UL Listed Per Standard 567.

CARB

OPW-CATALOG-01/2021



Body: Aluminum Main Seals: Viton Guide and Poppets: Acetal Protective Sleeves: Impact Resistant Nylon® Main Spring: Stainless steel Weight: 1.0 lbs., 0.96 kg



Features

- UL listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Dual Poppets close to prevent product spillage and vapor leakage.
- Dual poppeted breakaways are recommended for use in any vacuum-assist systems, especially nozzles with integral vapor valves.
- Sleek, Attractive Appearance to enhance station image.
- Quick Reconnect requires only 15 lbs. of force to reconnect.
- Dry Reconnect designed to help prevent liquid from spraying the operator during the reconnection operation.
- Rugged, Durable Construction outer sleeve to protect coupling and sealing parts from damage for long, trouble-free service life.

Ordering Specifications

Product #	Threads	
66CAS-0300	M34 Metric Breakaway	
66CAS Series Instruction Sheet		

Listings and

Certifications

Order Number: H13008M

 Nozzle and Hose Compatibility

 interfaces with Stage II vapor recovery nozzles by OPW, and with all manufacturers of vapor recovery hoses (features the popular M34 metric thread).

Construction/Design

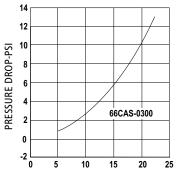
- Outer sleeve to protect sealing and coupling parts in a driveaway.
- Field-proven, double-poppet design that seals both ends of the product line and the dispenser side of the vapor line in a driveaway.
- Inverted metric coaxial hose fitting for installation into any vacuum-assist dispenser.
- Easily replaces any inverted breakaway currently in use today.

Design working pressure

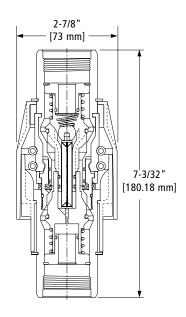
50 psi (3.45 bar) maximum pressure.

OPW 66CAS Dry Reconnect Inverted Breakaways

The OPW 66CAS Dual Poppeted, Dry Reconnect Inverted Breakaway is designed to close off the liquid path and the vapor path in the event of a drive-away. Engineered to separate at maximum of 350 pounds of axial pull force, the OPW 66CAS Breakaway is also designed to handle line shock better then a single use breakaway, while protecting your dispensing system from catastrophic damage. The OPW 66CAS is developed for use with inverted coaxial metric hoses and designed to meet today's demanding standards.



FLOW RATE-GPM (STODDARD SOLVENT)



Replacement Parts

Product #	Threads
66SRK-1000	Seal Replacement Kit

CARR

California Air Resources Board

Balance Vapor Recovery Hanging Hardware





Body: Aluminum Seals: Buna-N Weight: 0.75 lbs., 0.34 kg



Features

- Lightweight, maintenance free and easy to install.
- Adapts M-34 thread to a 3/4" NPT thread.

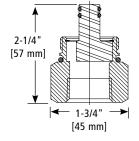
Design working pressure

• 50 psi (3.45 bar) maximum pressure.

Ordering Specifications

Part No. Description

VAR75	Vac-assist to 3/4" NPT Conventional Converter



Materials

Features

Body: Aluminum Seals: Buna-N Weight: 0.75 lbs., 0.34 kg

Lightweight, maintenance free

Adapts 1-7/8 – 12 UN thread

50 psi (3.45 bar) maximum pressure.

Ordering Specifications

and easy to install.

to a 3/4"NPT thread

Design working pressure



28C

OPW VAR75 Converter Vac-Assist to 3/4" NPT

Converts vacuum-assist nozzle to a conventional hose or a vacuum-assist dispenser for use with a conventional hose.

OPW 28C Balance Coax Adaptor

The OPW Balance Adaptor is designed to convert Balance Coax dispensers into a conventional hose point. Simply remove the existing balance hose and thread the 28C into the existing dispenser; then thread in your new Conventional hose.

Part No. Description 28C-0028 Coax Vapor Recovery x ³/4"</sup> NPT Bushing 3/4"-14 NPT 1-7/8"-12 UN-2A THD

Body: Die-cast zinc Protective Sleeves: Impact modified nylon Main Seals: Viton® Main Spring: Stainless steel Guide and Poppets: Acetal Weight: 0.97 lbs., 0.44 kg 66CLP-5100

Features

- UL listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com.
- Separates at 350 pounds of axial force.



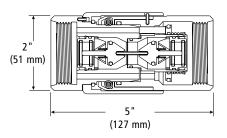
- Push-back reconnect style.
- Durable, lightweight construction.
- Minimal pressure drop.

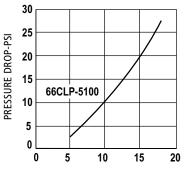
Design working pressure

◆ 50 psi (3.45 bar) maximum pressure.

OPW 66CLP Balance Phase II Enhanced Vapor Recovery Reconnectable Breakaway

For more than a decade, the 66CLP has earned the reputation as the industry standard in preventing fuel vapors from escaping during a separation incident on balance systems. Its proven design minimizes downtime and allows all hose points to be put back in service as quickly and easily as possible after a separation event. The OPW 66CLP is also approved for VST Phase II Enhanced Vapor Recovery Systems.





FLOW RATE-GPM (STODDARD SOLVENT)

Ordering Specifications

Product #	Description
66CLP-5100	Vapor Poppeted Reconnectable Balance Breakaway
66CLP Instruct	ion Sheet Order Number: F-70

Replacement Parts

Product #	Description
204870	O-ring
204872	Spring
204811	Outer Cover

Listings and Certifications

CARB Certification Numbers	Executive Order VR-203-N (for Balance Phase II Enhanced Vapor Recovery (EVR) Systems Not Including In-Station Diagnostics (ISD)				
	Executive Order VR-204-N (for Balance Phase II Enhanced Vapor Recovery (EVR) Systems Including In-Station Diagnostics (ISD) Systems				

Listings and Certifications



CARB

California Air Resources Board





Fueling Site 2020 - Phase 1: Above and Below Ground Assembly

DEFINING | WHAT'S NEXT

For more than 125 years, OPW has been leading the way in fueling innovation worldwide. We have built our legendary reputation by advancing business partnerships with our distributors that help petroleum marketers provide an optimum fueling experience for their consumers.

At OPW, we are constantly looking to the future, refining our existing solutions and pioneering new technologies in a never-ending quest to deliver what matters most to consumers: a safe, clean, efficient, comfortable, environmentally conscious, water-tight, compliant and reliable fueling environment.

We are doing more than leading the way. We are *defining what's next*.

Industrial Products



DEF Nozzle	
Automatic Nozzles	
Overwing Aircraft Nozzles	
Manual High-Flow Bulk Fill Nozzles	
Manual Nozzle Accessories	
Manual Utility Farm Nozzle	
Reconnectable Breakaways	
Hose Swivels	





OPW 19DEF Series Industrial Automatic Nozzle

When you're responsible for ensuring the safe, reliable and affordable dispensing of Diesel Exhaust Fluid (DEF) for on-road. off-road, commercial and industrial heavy-duty trucks, farming or other diesel powered vehicles, you rely on the most trusted name in dispensing nozzles - OPW.

The NEW OPW 19DEF Series Industrial Automatic Nozzle is specifically designed for your commercial and industrial fleet operations, offering unmatched reliability with the features you want.

OPW 19DEF Series Swivels

Reconnectable Swivel Breakaway



- Designed to connect to the inlet of the nozzle. -No whip hose needed The industries best
- swiveling ability Breakaway is reconnectable with built
- in swivel / Retaining jaws and seals are replaceable
- Breakaway will separate at no more than 350 pounds of force. (axial or angular)

 Hose swivel designed for 3/4" DEF hose (Clamps not included) The industries best swiveling ability







 The industries best swiveling ability



 50 PSI (3.45 bar) maximum pressure

NOTE: The OPW 19DEF Equipment is for commercial fleet applications only and are not UL Listed for gasoline dispensing facilities.

Materials

Packing & Disc: Fluorocarbon Lever & Lever Guard: Duratuff® Spout: Stainless Steel O.D. 19mm (0.75 in) per ISO 22241 **Specifications** Inlet Size: 3/4" NPT or 3/4" BSPP Weight: 2.73 lbs. each, 43.1 lbs./case

> of 15, 1.25 kg each, 19.9 kg/case of 15

Features - Benefits

- Stainless Steel Spout provides optimum DEF purity and prevents corrosion
- Lowest Overall Cost of Ownership reliable, long lasting design based on proven OPW quality platform and industry standard-setting technology
- Ease of Use sleek, lightweight design with patented Accu-Stop® Flow Control Technology and convenient one-finger hold-open clip to set flow rate
- User Comfort attractive 2-Piece NFWGARD[™] Hand Insulator is the most comfortable nozzle in the industry in hot or cold weather
- Vehicle Protection our Duratuff[®] lever guard not only provides for rugged durability when dropped but also won't scratch your fleet vehicle
- Meets ISO 22241 Requirements all materials of construction are 100% 3rd party tested and approved for DEF compatibility

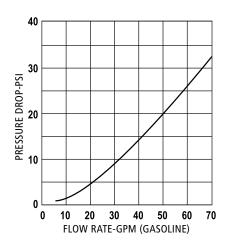
Product # Description

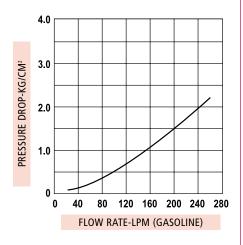
Nozzles	
19DEF-0500SS	Nozzle, DEF - 3/4" Female NPT inlet, for use WITHOUT Mis-Filling Prevention Device
19DEF-050LSS	Nozzle, DEF - 3/4" Female BSPP inlet, for use WITHOUT Mis-Filling Prevention Device
19DEFM-0500SS	Nozzle, DEF - 3/4" Female NPT inlet, for use WITH Mis-Filling Prevention Device
19DEFM-050LSS	Nozzle, DEF - 3/4" Female BSPP inlet, for use WITH Mis-Filling Prevention Device
Swivel Breakaw	/ay
19DB-0075	Breakaway, DEF, 3/4" NPT
19DB-0075L	Breakaway, DEF, 3/4" BSPP
Hose Swivel	
19DHS-0075	Hose Swivel, DEF, 3/4" NPT
19DHS-0075L	Hose Swivel, DEF, 3/4" BSPP
Swivel	
19DS-0075	Swivel, DEF, 3/4" NPT
19DS-0075L	Swivel, DEF, 3/4" BSPP
Hose Adaptors	
19DM-0100	3/4" MNPT to 1" MNPT - Connecting nozzle to 1" NPT Female hose
19DF-0100	3/4" MNPT to 1" FNPT - Connecting nozzle to 1" NPT Male hose
19DML-0100	3/4" MBSPP to 1" MBSPP - Connecting nozzle to 1" BSPP Female hose
19DFL-0100	3/4" MBSPP to 1" FBSPP - Connecting nozzle to 1" BSPP Male hose
19DML-0075	3/4" MBSPP to 3/4" MBSPP - Connecting nozzle to 3/4" BSPP Female hose

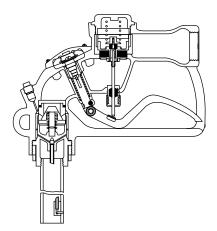
www.opwglobal.com

OPW 1290 and 1291C Automatic Shut-Off Nozzles

For Heavy-Duty, High-Flow Truck, Bus and Home Fuel Oil Delivery Service







Materials

Body: Aluminum Main stem: Stainless steel Packing: Graphite with Teflon® Main Disc: Viton® Inlet Size: 1-1/2" NPT

Features

- Venturi-Type Shut-Off Mechanism for automatic shut-off.
- Aluminum Body lighter in weight and easier to maneuver than other nozzles on the market.
- Two-position hold-open device*.
- One-Hand Control of Hold-Open Mechanism – means easy setting of flow rate.
- Right Angle Design provides larger lever area for better grips and easier control, permitting the nozzle to fit into awkward spaces close to walls and into corners.

 Easily-Replaced Spout – simply remove the spout retainer nut.

1291C-0050

- Built-In Outlet Check Valve meets all known requirements of the Division of Measurement Standards.
- Dual Poppets make nozzle easy to open against high inlet pressure.

Design working pressure

- 50 psi (3.45 bar) maximum pressure.
- Service Temperature range: -20° F to 140° F

Ordering Specifications

Product #	Description	Inlet Thread					
		in.	mm	lbs.	kg		
1290-0050	New	1 ¹ / ₂ "	38	6.8	3.1		
1291C-0050*	New	1 ¹ / ₂ "	38	6.8	3.1		
1290G-0050	New	1 ¹ / ₂ "	38	6.8	3.1		

Government National Stock #s:

1290-0050; NSN 4930-01-290-0756

1290G-0050; NSN 4930-01-352-1660 green anodized

1290GS-0050; NSN 4930-01-352-1661 tan anodized

(1290GS-AR50; tan anodized without Kamlok coupler and dust plug)

Replacement Spout

Droduct #	0.D. Length		We	Weight			
Product # Description		in.	mm	in.	mm	lbs.	kg
5D-0125	8-1/2", 1290, Spout Kit	1³/8"	35	8 ¹ / ₂ "	215	1.5	0.68
5D-0126C	8-1/2", 1291C, Spout Kit	1³/8"	35	8 ¹ / ₂ "	215	1.5	0.68

1290 Series Instruction Sheet Order Number: H09238PA

Listings and CUL

*1291C Nozzles are not permitted and sold with Hold-Open Clips per ULC S620 requirements.



Body: Cast aluminum Main Stem: Stainless steel Stem Seal: Buna-N O-Ring Disc: Viton® Spout: Aluminum



Easily replaced spout – the spout

is easily threaded into the body.

Replacement spouts are readily

Built-In Swivel – eliminates twisting

and kinking of the hose. This swivel

is electroless nickel-plated and has

NPT Female Threads at Inlet End

or 1-1/2" male connections.

End Of 295SAJ – accepts all

Unique Jet Aircraft Spout Design of

295SAJ – to help prevent inadvertent

fueling of piston engine aircraft with

Ground Wire Assembly – included on

110 psi (7.58 bar) maximum pressure

NPT Female Threads At Inlet

1-1/2" male connections.

turbine fuel.

all aviation nozzles.

Design working pressure

of 295SA - accepts all 1", 1-1/4"

available from OPW.

full-bearing surfaces.

Features

- Aluminum Body lighter weight, easier to maneuver.
- Dual Poppets easy-to-open nozzle against high inlet pressures.
- Color-Coded Composite Lever Guards – helps distinguish between AVGAS and Jet A. Easily replaced in lever guard kit.
- Right Angle Design provides larger lever area for better grip and easier control.
- Vinyl-Coated Lever insulates fingers against cold.
- 100 Mesh Strainer prevents foreign matter from entering fuel tank; easy to remove and clean.
- Dust Cap keeps spout free from dirt and stops fuel drippage when connected.
- Adjustable Dash Pot permits adjusting the main poppet closure rate over a wide range of flows to overcome line shock with minimum afterflow.

Level Guard Replacement Kits

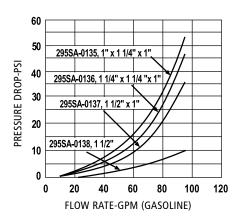
Product #	Nozzle
295KLG-0300	295SA-0135, 0136, 0137, 295SAC-0156, 0157 Red
295KLG-0350	295SA-0138, 275SAC-0158 Red
295KLG-0400	295SAJ-0200, 295SACJ-0200 Black
5	include new lever sub-assembly. ion Sheet Order Number: H09237PA

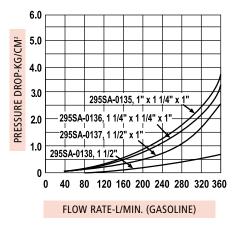
NOTE: See OPW's Website at www.opwglobal.com for product instruction sheets, trouble-shooting guides, how-to-use guide and to view the Do's & Don'ts at the Gas Pump video.

Manual Overwing Aircraft Nozzles

295SA – AVGAS

295SAJ – Jet Fuel





Ordering Specifications

Product #	Inle	et Thi	read	Spout O.D		
Flouuct #	in.	mm	lbs.	kg	in.	mm
295SA-0135	1	25	4.60	2.10	1	25
295SA-0136	1 ¹ / ₄	32	4.50	2.00	1	25
295SA-0137	1 ¹ / ₂	38	4.50	2.00	1	25
295SA-0138	1 ¹ / ₂	38	5.10	2.30	15/8	41
295SAJ-0200	1 ¹ / ₂	38	5.60	2.50	2 ² / ₃	54
295SAC-0156*	1 ¹ / ₄	32	4.50	2.00	1	25
295SAC-0157*	1 ¹ / ₂	38	4.50	2.00	1	25
295SAC-0158*	1 ¹ / ₂	38	5.15	2.30	15/8	41
295SACJ-0200*	1 ¹ / ₂	38	5.65	2.60	2 ² / ₃	54
*Check Valve						

.neck valve

Replacement Parts - OPW 295SA/295SAC & 295SAJ

Key

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H13774M

295SWK-0007

295SWK-0009

295SWK-0014

295SWK-0013

H08886M

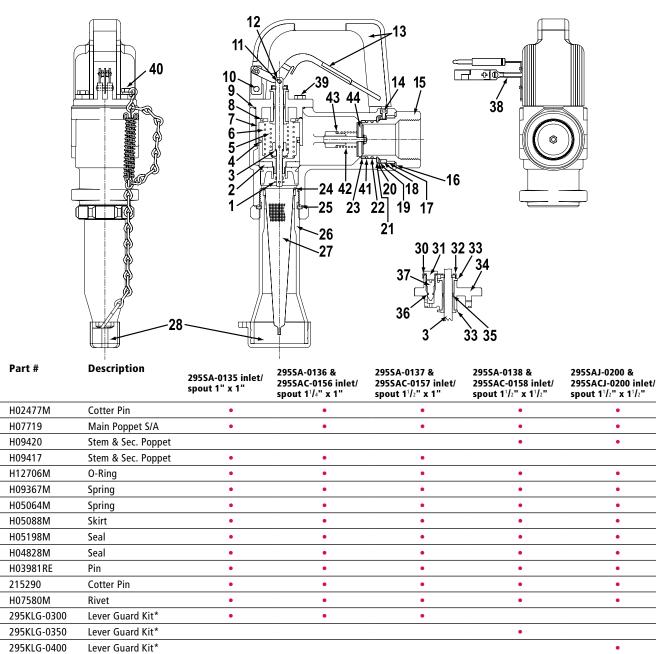
H01227M

H08887M

H08879M

H09713RS

H09712RS



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* Replacement part for nozzles built after 08/1998. Part is unavailable for nozzles built before this date.

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** Includes 295SRK-0001 or 295SRK-0002 and contact ring.

Screw (3 req'd)*

Swivel Repair Kit**

Swivel Repair Kit**

Swivel Repair Kit**

Swivel Repair Kit**

Dust Seal

Dust Seal

Bearing

Bearing

Retainer

Retainer

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Replacement Parts-OPW 295SA/SAC & SAJ Aircraft Nozzles

Key	Part #	Description	295SA-0135 inlet/ spout 1" x 1"	295SA-0136 & 295SAC- 0156 inlet/spout 1¹/4" x 1"	295SA-0137 & 295SAC- 0157 inlet/spout 1 ¹ /2" x 1"	295SA-0138 & 295SAC- 0158 inlet/spout 1 ¹ /2" x 1 ¹ /2"	295SAJ-0200 & 295SACJ-0200 inlet/ spout 1 ¹ /2" x 1 ¹ /2"
19	H08881M	Thrust Bearing	•	•	•		
19	H08889M	Thrust Bearing				•	•
20	H08882M	Lock Ring	•	•	•		
20	H08890M	Lock Ring				•	•
21	H09365M	Retaining Ring	•	•	•		
21	H09366M	Retaining Ring				•	•
22	H12319M	O-Ring, Buna-N	•	•	•		
22	H12320M	O-Ring, Buna-N				•	•
23	H08884M	Bearing	•	•	•		
23	H08892M	Bearing				•	•
24	H06026M	O-Ring	•	•	•		
24	H07670M	O-Ring				•	
24	H11499M	O-Ring					•
25	H05297M	O-Ring	•	•	•		
25	H07766M	O-Ring				•	
25	H10458M	O-Ring					•
26	297SA-9050	Spout S/A	•	•	•		
26	297SA-9060	Spout S/A				•	
26	696J-7010	Spout S/A					•
27	1905-7063	Strainer	•	•	•		
27	153-0910	Strainer				•	
27	153J-0100	Strainer					•
28	H10387	Cap & Chain S/A	•	•	•		
28	H10388	Cap & Chain S/A				•	
28	296CJ-0100	Cap & Chain S/A					•
29	H09212	Body Cap S/A**	•	•	•		
29	H09213	Body Cap S/A**				•	•
30	H05135M	Retainer	•	•	•	•	•
31	H08441RS	Screw	•	•	•	•	•
32	H05087M	Felt Wiper	•	•	•	•	•
33	H05063M	Bushing	•	•	•	•	•
34	C02115A	Cap	•	•	•		
34	C02117A	Сар				•	•
35	H12707M	O-Ring	•	•	•	•	•
36	H12705M	O-Ring	•	•	•	•	•
37	H04825M	Adj. Screw	•	•	•	•	•
38	190WM-8001	Ground Wire S/A	•	•	•	•	•
39	H07062M	Screw (4 req'd)	•	•	•	•	•
40	H06045M	Screws (2 req'd)	•	•	•	•	•
41	H13776M	O-Ring, Viton®				•	•
41	H13775M	O-Ring, Viton®	•	•	•		

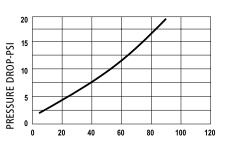
** Body Cap sub-assembly includes parts 30-37.

Replacement Parts - OPW 295SAC & 295SACJ Only

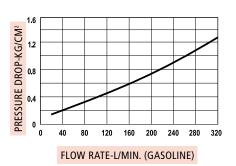
Key	Part #	Description	295SAC-0156	295SAC-0157	295SAC-0158	295SACJ-0200
42	H07595M	Spring SST	•	•		
42	H07593M	Spring SST			•	•
43	H07613M	Washer, nylon	•	•	•	•
44	H09214	Poppet S/A	•	•		
44	H09215	Poppet S/A			•	•

OPW 295AF - Manual Aircraft Nozzles

For Overwing Aircraft Service



FLOW RATE-GPM (GASOLINE)



Replacement Parts

Part #	Description		
153AF-0100	100 Mesh Strainer		
190WF-8002	Ground Wire S/A w/ Dust Cap		
C03420NM	Protector Ring		
C03422	Dust Cap		
297AF-9070	1 ¹ /2" Aluminum Spout for 295AF		
E00274AG	Arctic Guard for 295AF		

Materials

Body: Cast aluminum Main Stem: Stainless steel Stem Seal: Buna-N O-Ring Main Poppet Disc: Viton® Spout: 297AF-9070



Features

- Aluminum Body lighter weight, easier to maneuver.
- Dual Poppets easy-to-open nozzle against high inlet pressures.
- Replaceable Lever Guard easy, low-cost replacement.
- Right Angle Design provides larger lever area for better grip and easier control.
- Vinyl-Coated Lever insulates fingers against cold.
- 100 Mesh Strainer prevents foreign matter from entering fuel tank; easy to remove and clean.
- Dust Cap keeps spout free from dirt and stops fuel drippage when connected.

- Spout Protector Ring to protect aircraft tanks and wing surface; adjustable. Furnished as standard.
- Special Heavy-Duty Spout knurled to facilitate daily strainer service.
- NPT Female Threads at Inlet End standard pipe threads all 1-1/2" male connections.
- Static Ground Wire with air force plug meets MS 25384-5.
- Dash-Pot Action for smoother closing action and reduced line shock.

Design working pressure

110 psi (7.58 bar) maximum pressure

Ordering Specifications

Product #	Inlet	「hread		
	in.	mm	lbs.	kg
295AF-0100	1 ¹ / ₂ "	38	6.40	2.90

Gov't. Nat'l. Stock #: 4930-01-293-4472

295 Series Instruction Sheet Order Number: H09237PA



Body: Cast aluminum Main Stem: Stainless steel Stem Seal: Graphite with Teflon[•] Disc: Viton[®] Spout: OPW 296 brass or 297 aluminum (optional)



190-0115 (Spout optional, see Page 189)

Features

- Aluminum Body lighter weight, easier to maneuver.
- Dual Poppets allow for low flow metering (this nozzle is not intended for high pressure pump applications).
- Replaceable Hold-Open Rack for use when fueling large-capacity tanks. Nozzle must be attended at all times during usage.
- Right Angle Design provides larger lever area for better grip and easier control; permits nozzle to fit into awkward spaces close to walls and into corners.

- Drag Lugs protect the nozzle when dragged across rough surfaces; enhances long-life durability.
- Easily Replaced Spout the spout is easily threaded into the body. Replacement spouts are readily available from OPW.
- NPT Female Threads at Inlet End standard pipe threads accept all standard 1", 1-1/4", 1-1/2" and 2" male connections.

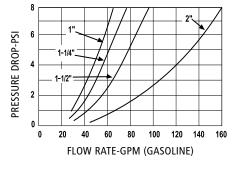
Design working pressure

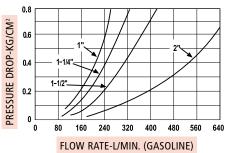
• 50 psi (3.45 bar) maximum pressure

OPW 190 High-Flow Manual Nozzles

For High-Flow, Bulk Fuel Oil Delivery Service

Designed to handle high flow when line pressure is not a critical consideration or otherwise absorbed.





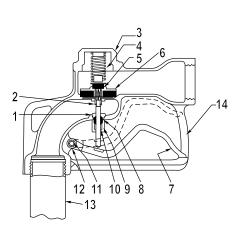
Ordering Specifications

Product #	Inlet Thread		Spout Diameter			
Product #	in.	mm	in.	mm	lbs.	kg
190-0112	1"	25	1 ¹ /4"	32	2.3	1.0
190-0113	1 ¹ / ₄ "	32	1 ¹ /4"	32	2.3	1.0
190-0114	1 ¹ / ₂ "	38	1 ¹ /2"	38	3.0	1.4
190-0115	2"	51	2"	51	5.8	2.6
190G-B104	1 ¹ / ₂ "	38	1 ¹ /2"	38	5.1	2.3

w/ Spout and Ground Wire

Gov't. Nat'l. Stock #: 4930-01-360-5540

NOTE: See OPW's Website at www.opwglobal.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. **Replacement Parts - OPW 190 Nozzles**



Key	Part #	Description	190-0112	190-0113	190-0114	190-0115	190-B104
1	H00195RB	Stuffing Box	•	•	•		•
1	H00250RB	Stuffing Box				•	
2	H00538RE	Stem	•	•	•		
2	H06742RE	Stem				•	
3	H09600AH	Сар	•	•	•		
3	H09601AH	Сар				•	
3	H11592AH	Сар					•
4	H00136M	Spring	•	•	•		•
4	H03666M	Spring				•	
5	190K-0001	Upper Poppet S/A	•	•	•		•
5	H01814	Upper Poppet S/A				•	
6	H01817	Lower Poppet S/A	•	•	•		•
6	H01818	Lower Poppet S/A				•	
7	H11925M	Lever	•	•	•		•
7	H06733M	Lever				•	
8	C04495M	Packing	•	•	•	•	•
9	H07012M	Packing Gland	•	•	•		•
9	H00520RB	Packing Gland				•	
10	H00113RA	Packing Nut	•	•	•		
10	H00252RA	Packing Nut				•	
10	H00113RAG	Packing Nut					•
11	H08163M	Push Nut	•	•	•	•	•
12	H08164RE	Pin	•	•	•		•
12	H08165RE	Pin				•	
13	297-9020	Spout (optional)	•	•			
13	297-9030	Spout (optional)			•		
13	297-9040	Spout (optional)				•	
13	296-0040	Spout, Brass (optional)		•			
13	296-0060	Spout, Brass (optional)			•		
13	296-0080	Spout, Brass (optional)			•		
14	C04698M	Rack	•	•	•	•	•
14	H14105M	Screw	•	•	•	•	•
Not S	hown						
	296CA-4000	Dust Cap*					•
		-					

*See page 189 for Dust Caps



Body: Cast aluminum Main Stem: Stainless steel Stem Seal: Buna-N O-Ring Main Poppet Disc: Viton® Spout: OPW 297 aluminum (optional)



(Spout optional, see Page 189)

Features

- Aluminum Body lighter weight, easier to maneuver.
- Dual Poppets easy-to-open nozzle against high inlet pressures.
- Replacement Hold-Open Rack one-hand control of hold-open mechanism means easy setting of flow speed. Nozzle must be attended at all times during usage.
- Replaceable Composite Lever Guard – easy, low-cost replacement.
- Right Angle Design provides larger lever area for better grip and easier control; permits nozzle to fit into awkward spaces close to walls and into corners.
- Adjustable Dash Pot permits adjusting the main poppet closure rate over a wide range of flows to overcome line shock with minimum afterflow.

- Built-In Swivel eliminates twisting and kinking of the hose. This swivel is hard-coated aluminum and has full-bearing surfaces.
- Built-In Check Valve prevents hose drainage after pump is turned off.
- Vinyl-Coated Lever insulates fingers against cold.
- Easily Replaced Spout the spout is easily threaded into the body. Replacement spouts are readily available from OPW.
- NPT Female Threads at Inlet End

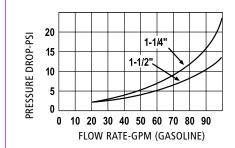
 standard pipe threads accept all
 1-1/4" or 1-1/2" male connections.

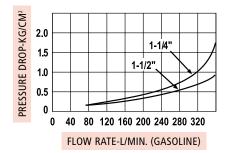
Design working pressure

110 psi (7.58 bar) maximum pressure

OPW 295SC High-Flow Manual Nozzles

For High-Flow, Bulk Fuel Oil Delivery Service





Lever Guard Replacement Kit

Part #	Description			
295KLG-0200	Short Grey for 295SC-0139			
295KLG-0250	Long Grey for 295SC-0141			
295 Series Instruction Sheet Order Number: H09237PA				

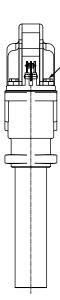
Ordering Specifications

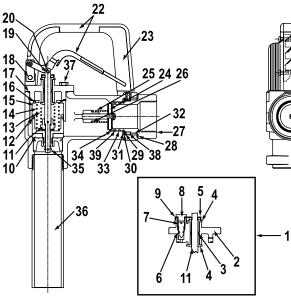
Product #	Inlet	Thread		
Floudet #	in.	mm	lbs.	kg
295SC-0139	1 ¹ /4"	32	3.75	1.7
295SC-0141	1 ¹ / ₂ "	38	4.33	2.0

NOTE: See OPW's Website at www.opwglobal.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.

Replacement Parts - OPW 295SC High-Flow Nozzles

21





Key	Part #	Description	1 ¹ /4" 11 ¹ /2" NPT	1 ¹ /2" 11 ¹ /2" NPT
1	H09212	Cap S/A	•	
1	H09213	Cap S/A		•
2	C02115A	Сар	•	
2	C02117A	Сар		•
3	H12707M	O-Ring	•	•
4	H05063M	Bushing (2 req'd)	•	•
5	H05087M	Felt Wiper	•	•
6	H12705M	O-Ring	•	•
7	H04825M	Adjusting Screw	•	•
8	H08441RS	Screw	•	•
9	H05135M	Retainer	•	•
10	H07719	Main Poppet S/A	•	•
11	H09417	Stem & Sec. Poppet	•	
11	H09420	Stem & Sec. Poppet		•
12	H12706M	O-Ring	•	•
13	H09367M	Spring	•	•
14	H05064M	Spring	•	•
15	H05088M	Skirt	•	•
16	H05198M	Seal	•	•
17	H04828M	Seal	•	•
18	H03981RE	Pin	•	•
19	H05000M	Cotter Pin	•	•
20	H07580M	Rivet	•	•
21	H06045M	Screw (2 req'd)	•	•
22	295KLG-0200	Guard Kit	•	
22	295KLG-0250	Guard Kit		•
23	C04698M	Hold-Open Rack	•	•
23	H14105M	Screw	•	•
24	H09214	Poppet S/A	•	

Key	Part #	Description	1 ¹ /4" 11 ¹ /2" NPT	1½" 11½" NPT
24	H09215	Poppet S/A		•
25	H07593M	Spring		•
25	H07595M	Spring	•	
26	H07613M	Washer	•	•
27	295SWK-0009	Swivel Repair Kit*	•	
27	295SWK-0014	Swivel Repair Kit*		•
28	H08886M	Dust Seal		•
28	H01227M	Dust Seal	•	
29	H08881M	Thrust Bearing	•	
29	H08889M	Thrust Bearing		•
30	H08882M	Lock Ring	•	
30	H08890M	Lock Ring		•
31	H09365M	Retaining Ring	•	
31	H09366M	Retaining Ring		•
32	H08879M	Bearing	•	
32	H08887M	Bearing		•
33	H12319M	O-Ring	•	
33	H12320M	O-Ring		•
34	H08884M	Bearing	•	
34	H08892M	Bearing		•
35	H02477M	Cotter Pin	•	•
36	297-9020	Spout	•	
36	297-9030	Spout		•
37	H07062M	Screw (4 req'd)	•	•
38	H09712RS	Retainer	•	
38	H09713RS	Retainer		•
39	H13776M	O-Ring, Viton [®]		•
39	H13775M	O-Ring, Viton®	•	

* Includes 295SRK-0001 or 295SRK-0002 and contact ring.



Body: Cast aluminum Main Stem: Stainless steel Stem Seal: Graphite with Teflon[°] Disc: Viton[®] Spout: OPW 296 brass or 297 alum. (optional)



210-0105 (Spout optional, see Page 189)

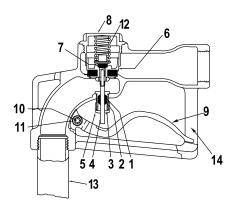
Features

- Aluminum Body lighter weight, easier to maneuver.
- Dual Poppets allows for low-flow metering.
- Replaceable Hold-Open Rack for use when fueling large-capacity tanks. Nozzle must be attended at all times during usage.
- Dash Pot non-adjustable, to minimize closing line shock.
- Right Angle Design provides larger lever area for better grip and easier control; permits nozzle to fit into awkward spaces close to walls and into corners.

- Drag Lugs protect the nozzle when dragged across rough surfaces; adds to long life with rough usage.
- Easily Replaced Spout the spout is simply threaded into the body. Replacement spouts are readily available from OPW.
- NPT Female Threads at Inlet End standard pipe threads accept all standard 11/4" and 11/2" male connections.

Design working pressure

• 50 psi (3.45 bar) maximum pressure



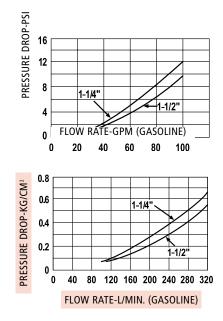
Ordering Specifications

Product #	in.	mm	lbs.	kg
210-0104	1 ¹ / ₄ "	32	3.95	1.8
210-0105	1 ¹ / ₂ "	38	4.40	2.0

NOTE: See OPW's Website at www.opwglobal.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.

OPW 210 High-Flow Manual Nozzles

For High-Flow, Bulk Fuel Oil Delivery Service



Replacement Parts

Key	Part #	Descrption
1	H00195RB	Stuffing Box
2	C04495M	Packing
3	H07012M	Packing Gland
4	H05719RE	Stem*
5	H00113RA	Packing Nut
6	H01841	Lower Disc S/A*
7	190K-0001	Upper Poppet
8	H01461AH	Сар
9	H00999M	Lever
10	H08165RE	Pin
11	H08163M	Push Nut (2 required)
12	H00136M	Spring
13	297-9020	Spout (optional) - 11/4" aluminum
13	297-9030	Spout (optional) - 11/2" aluminum
13	296-0040	Spout (optional) - 11/4" brass
13	296-0060	Spout (optional) - 11/2" brass
14	C04698M	Rack
14	H14105M	Screw

* Replacement part for nozzles built after 04/1998. Part is unavailable for nozzles built before this date.

Materials

Stainless steel

Screen:



Strainer

Ordering	Specificati	ons
Product #	Length	llser

	Leng	gth		
Product #	ft.	m	Used On	
190WM-8001	6'	1.83	295SA	
190WF-8002	6'	1.83	295AF	

Ordering Specifications

Product #	in.	mm	Used On
153-0910	1 ¹ / ₂ "	38	190G, 295SA
153J-0100	1 ¹ /2"	38	295SAJ
1905-7063	1"	25	295SA Series w/ 1" Spout
153AF-0100	1 ¹ / ₂ "	38	295AF

Ordering Specifications

Materials



Product #	Size		Snout	Used On	
	in.	mm	spour	Useu Oli	
296CA-4000	15/8"	41	296	190 1"	
296CA-4005	1 ⁵ /8"	41	296	1 ¹ /4", 1 ¹ /2"	
296CJ-0100	1 ¹ /2"	38	696J only	295SAJ 1 ¹ / ₂ "	
H10387	1"	26	297SA 1"	295SA	
H10388	1 ¹ / ₂ "	38	297SA 1 ¹ /2"	295SA	

Manual Nozzle Accessories OPW 190 Ground Wire

The OPW 190 ground wire assembly is designed for use on 295 series aircraft nozzles. The OPW 190WM is designed for use with the 295SA and includes a cable, attaching eyelet, ground plug and clamp. The OPW 190WF is for use with the 295AF aircraft nozzle and includes a cable, eyelet, ground plug and dust cap.

OPW Strainers

OPW strainers prevent foreign matter from entering fuel tanks. They are held in position by a tube and have a 100-mesh screen.

OPW 296 Protective Caps

OPW 296 Protective Caps are for use with OPW 296 and 297SA nozzle spouts. Each cap also comes with a chain and tension spring. The size ordered should be the same size as the spout O.D.

Spout Ordering Specifications

Due due t	Size	9	0.	0.D. Le		igth	Weight		Weight		Used On	Description
Product #	in.	mm	in.	mm	in.	mm	lbs.	kg	Used On	Description		
296-0040	1¹/₄ (NPT)	32	1³/8	35	9	229	0.90	0.41	190-0113; 210-0104; 190-0112	Brass		
296-0060	1¹/₂ (NPT)	38	1³/8	35	9	229	0.98	0.45	190-0114; 210-0105	Brass		
296-0080	1¹/₂ (NPT)	38	1 ⁵ /8	41	9	229	1.05	0.48	190-0114; 210-0105	Brass		
297-9020	1 ¹ / ₄ (NPT)	32	1 ²¹ / ₃₂	42	8	203	0.50	0.23	190-0113; 210-0104; 295SC-0139; 190-0112	Aluminum		
297-9030	1¹/₂ (NPT)	38	1 ²⁹ / ₃₂	48	8	203	0.60	0.27	190-0114; 210-0105; 295SC-0141	Aluminum		
297-9040	2 (NPT)	51	2³/8	60	8	203	0.80	0.36	190-0115	Aluminum		
297SA-9050	1 ¹ /4 (NPSM)	32	1	25	9	229	0.60	0.27	295SA-0135, 0136,0137 & 295SAC-0156	Aluminum		
297SA-9060	1 ¹ / ₂ (NPSM)	38	1 5/8	41	7	178	0.80	0.36	295SA-0138, 295SAC-0157, 295SAC-0158	Aluminum		
696J-7010	1 ¹ / ₂ (NPSM)	38	2 ² / ₃	54	7 ¹ / ₄	184	0.80	0.36	295SAJ-0200	Aluminum		



DEFINING | WHAT'S NEXT



Body: Aluminum Main Stem: Brass Main Poppet Disc: Viton® Spout: Aluminum Weight: 0.5 lbs, 0.23 kg



OPW RF400 Manual Utility Farm Nozzle

For General Utility Farm Usage

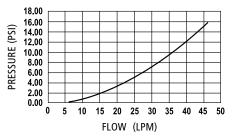
The OPW RF400 nozzle is designed for use in non retail, commercial, industrial and agriculture use where an automatic nozzle is not needed.

Features

- UL listed for use in gasoline, diesel and up to 10% ethanol blends.
 Specific listings available at www.opwglobal.com
- Manual Nozzle no automatic shut-off.
- Built in hanger for quick use in field.

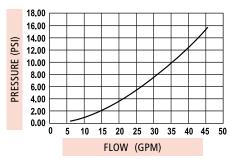
Design working pressure

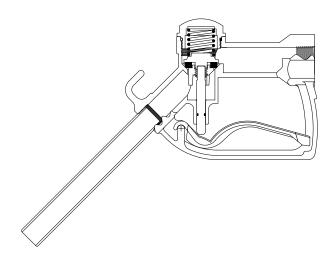
• 50 psi (3.45 bar) maximum pressure





Product #	Description	Inlet 1	hread	Spout Diameter		
Product # Description		in.	mm	in.	mm	
RF400-75	³ /4", leaded spout	3/4	19	1 ⁵ / ₁₆	23	
RF400-75P	³ /4", unleaded spout	3/4	19	1 ³ / ₁₆	20	
RF400-10	1", leaded spout	1	25	1 ⁵ / ₁₆	23	
RF400-10P	1", unleaded spout	1	25	1 ³ / ₁₆	20	

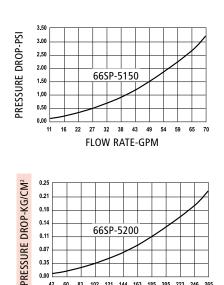




OPW 66SP High-Volume Breakaways

The 66SP is designed for installation on fuel dispensing hoses that require a substantial volume of flow, and therefore the potential for a high-volume spill.

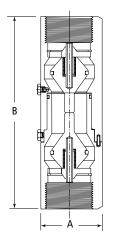
The 66SP utilizes shear pin technology to ensure separation at proper pull forces, and limit unwanted valve closures that stop or limit fuel flow. Once separated, a qualified service technician can easily repair the breakaway with an OPW 66PRK Shear Pin Replacement Kit.



FLOW RATE-L/MIN.

83 102 121 144 163 185 205 223 246 265

0.35 0.00 42 60



Materials

Body: Aluminum

Seals: Viton[®], Buna-N and Fluorosilicone

Spring: Stainless steel

Poppet: Aluminum

Weight: 66SP-5150: 1.93 lbs, .87 kg 66SP-5200: 3.80 lbs, 1.72 kg

66SP-5150



Features

- Pull Force the 66SP will separate with a maximum pull force of 600 lbs., and limits fuel spillage from either hose end.
- Easily Repaired after separation, the 66SP can be repaired and put back in service with the OPW 66PRK Shear Pin Replacement Kit.
- Heavy-Duty Construction physically designed for durability in high-volume environments, including a protective, nickel plated body.

Low Pressure Drop – valve design ensures superior flow rate for high-volume fills.

 Special Seals – special fluorosilicone (66SP-5200 only) O-rings help protect the valve in harsh, high-volume environments.

Design working pressure

50 psi (3.45 bar) maximum pressure

Ordering Specifications

Product #	Weight Inlet Thread			Α	В		
Product #	iniet inreau	lbs.	kg	in.	mm	in.	mm
66SP-5150	11/2" (NPT)	1.93	0.87	2 ¹ / ₄ "	57	7 ⁵/8"	194
66SP-5200	2" (NPT)	3.80	1.72	3 ¹ / ₂ "	89	7 ³/4"	197

Replacement Parts

Product #	Description
66PRK-5015	Shear Pin Replacement Kit for 66SP-5150
66PRK-5020	Shear Pin Replacement Kit for 66SP-5200

66SP Series Instruction Sheet Order Number: H40128M



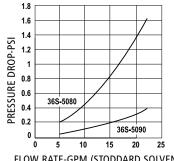
Body: Aluminum	
Adaptor: Zinc Aluminum	(******
Seals: Buna-N O-Ring, Viton® O-Ring	
Bearings: Nylon UL Listed MH4542	365-5080

Ordering Specifications

Product Number	Inlet Thread x Outlet Thread		lbs.	kg
365-5080	³ / ₄ " M x ³ / ₄ " F (NPT)	(19 mm x 19 mm)	0.30	0.14
365-5090	1" M x 1" F (NPT)	(25 mm x 25 mm)	0.40	0.18

OPW 36S Hose Swivel

Designed for use with fuel oil nozzles (at inlet only), the OPW 36S provides 360° swivel action. The full-circle swivel reduces the physical strain of aligning the nozzle with the fillpipe.



FLOW RATE-GPM (STODDARD SOLVENT)

Materials

Body: Electroless nickel-plated

Bearings: Molded plastic

Seals: Buna-N O-Ring, felt dust seal, Viton® O-Ring



Ordering Specifications

Inlet Th		nread	We	ight
Product #	in.	mm	lbs.	kg
25-0110	1 ¹ /4" (NPT)	32	0.95	.43
25-0120	1 ¹ /2" (NPT)	38	1.06	.48
25C-0130*	1 ¹ /4" (NPT)	32	0.95	.43

*With Check Valve

OPW 2" Single-Plane Hose Swivel

Durable brass construction with high flow rate.

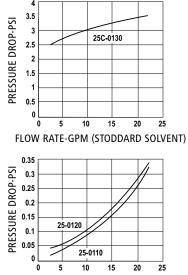


N/	ate	FID	
	ale		

Body: Brass	Product #	in.	mm	lbs.	kg
Seals: Buna-N O-Rings	2-0055	2	50.8	1	.45

OPW 25 Hose Swivel

Designed for use with fuel oil nozzles (at inlet only), the OPW 25 provides 360° swivel action. The full-circle swivel reduces the physical strain of aligning the nozzle with the fillpipe.



FLOW RATE-GPM (STODDARD SOLVENT)



Body: Electroless nickel-plated Bearings: Molded plastic Seals: Buna-N O-Ring, felt dust seal, Viton® O-Ring

Product #	Description
295SRK-0001	25 and 295 Series 1", 11/4" NPT
295SRK-0002	25 and 295 Series 11/2" NPT

OPW 295SRK

Designed for use on 25 Series swivels and 295 nozzles, the OPW 295SRK consists of a dust seal, 2 O-rings, 3 button-head screws, hex key and thread sealant.

OPW 29 Check Valve

The OPW 29 is designed for use between the hose and nozzle, and helps prevent draining of the hose when the power is shut-off.

Materials

Body: Bronze Spring: Bronze Stem: Bronze		
Disc: Buna-N	29-0004	

Ordering Specifications

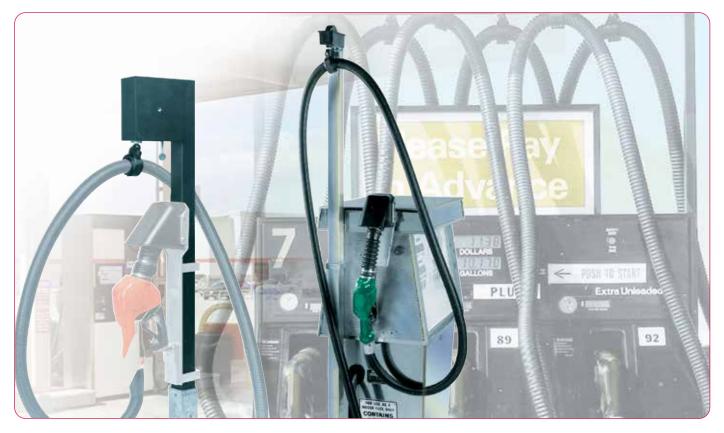
Product #	Inle	et	Outlet			
Product #	in.	mm	in.	mm		
29-0004	1" F (NPT)	25	1" M	25		
29-0016	11/2" F (NPT)	38	11/2" M	38		

Features

- External-type inlet check valve.
- Standard pipe threads.
- Poppet opens at 2¹/₂ PSI for 1 " size; 1¹/₂ PSI for 1¹/₂ " size



Hose Retractors



- Spring Balance Hose Retractors......195 197
- Counterweight Hose Retractors......198

Housing: Cast aluminum Cable: Black polyester Post: Aluminum



Nozzle Hook and Hood Kit Not Sold by OPW.

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.

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.

102 Spring Balance Hose Retractor Instruction Sheet Order Number: H15853PA



Post Mounted

NOTE: See OPW's Website at www.opwglobal.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
Model Number	Mounting Method		lbs.	kg
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	44" AST Retractor /Post Kit	(Hose Clamp Not Included)	9	4.1

Ordering Specifications

Separate Retractor Components (Box Only)

Model				Clam	p Fits		Wo	ight
Number	Description	Mounting Method	Hose	Hose O.D. Hose I.D.		weight		
			in.	mm	in.	mm	lbs. kg	
6102-1000	Standard Duty Retractor Box, 2 -10 lb retraction strength	Overhead Crossbar/Vertical Post	(Hose Clamp Not Included)			7	3.2	
6102-1100	Heavy Duty Retractor Box, 12-20 lb retraction strength	Overhead Crossbar/Vertical Post					7	3.2
6102-4000		Overhead Crossbar/Vertical Post	1¾"	35	1"	25	7	3.2
6102-6000		Overhead Crossbar	1 ¹ / ₃₂ "	26	5⁄8" or 3⁄4"	16 or 19	7	3.2
6102-8000		Overhead Crossbar	1"	25	5/8 "	16	7	3.2

*POMECO recommends using CO5238M, CO5261M 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-1340	Coaxial Hose
PB-1344	Balanced Coaxial, Goodyear Premier
PB-1373	Standard 1" O.D. Hose (%" I.D.)
PB-1394	Standard 1 ¹ / ₈ " O.D. Hose (³ / ₄ " I.D.)
PB-1396	Standard 1 ³ / ₈ " O.D. Hose (1 " I.D.)
PB-1398	Standard Hose (¾ I.D.)
PB-1527	Standard Hose (1/2" I.D.)

† Other sizes available upon request

Options Replacement Parts

Model Number	Hose Clamp Size
C05238M	Post Kit, 39" (99 cm), 11/8" x 2"
C05261M	Post Kit, 78"(198 cm), 11/8" x 2"
H15212M	10 ft. Replacement Cable
P338SPOOL	Spool of Retractor Cable, 338 ft.
H15210M (P102-02)	Replacement Cable Guide
H15211M	Replacement Reel
P100-4STF	AST Replacement Base
P100-2AST	Sliding Bracket (AST)
Р33Р	Head Kit

Housing: Cast aluminum Cable: Black polyester Bracket: Steel

Features

- Easy to Install each model number designates a custom designed retractor package that mounts in the canopy of a particular manufacturers MPD. Packages are shipped complete with the appropriate number of retractors and all the necessary mounting hardware for a clean, professional installation.
- Easy to Use the spring-loaded reels and stretch-resistant cables 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 on each retractor to lock the reel in place during tension adjustment.

Ordering Specifications

		Hoses Per	We	ight
Model Number	Manufacturer/Dispenser	Side***	lbs.	kg
6102-DW1037	Dresser Wayne (37" Frame)	1	40	18.2
6102-DW1048	Dresser Wayne (48" Frame)	1	50	22.7
6102-DW2037	Dresser Wayne (37" Frame)	2	50	22.7
6102-DW2048	Dresser Wayne (48" Frame)	2	58	26.3
6102-DW3048	Dresser Wayne (48" Frame)	3	72	32.6
6102-GB1N	Gilbarco (Advantage Narrow)	1	46	20.9
6102-GB1W	Gilbarco (Advantage Wide)	1	50	22.7
6102-EC01	Gilbarco (Encore)	1	77	34.9
6102-EC02	Gilbarco (Encore)	2	77	34.9

*Specify dispenser model and serial number when ordering

***Hose clamps must be ordered separately for MPD models

Options Replacement Parts

Model Number	Hose Clamp Size
H15210M	Replacement Cable Guide
H15212M	Replacement Cable -10 ft.
H15211M	Replacement Reel
D02147M	Replacement Housing

NOTE: All 6102 MPDs come with two brackets and the number of hose retractors per side.

Model Number	Hose Clamp Size
H15265M (P102-2)	Sliding Bracket
C05239M	Foot (Bottom)
D02628M	Bracket Only for 06102-DW3
D02629M	Bracket Only for 06102-DW4

POMECO 102 Spring Balance MPD Hose Retractor Packages

POMECO 102 Spring Balance MPD Hose Retractors keep excess hose off the ground and out of the way, prolonging hose life and preventing extra length hoses from cluttering the island. The 102 MPD hose retractors are especially well-suited for use on Multiple Product Dispensers (MPD) with Stage II Vapor Recovery hose/nozzle assemblies. The POMECO 102 is a California Air Resources Board (CARB) certified Stage II component for use with MPDs as per Executive Order G-70-52-AM.





Hose Clamp

Ordering Specifications Hose Clamps

Model Number	Hose Clamp Size †
PB-1344	Balanced Coaxial, Goodyear Premier
PB-1373	Standard 1" O.D. Hose (%" I.D.)
PB-1394	Standard 11/8" O.D. Hose (3/4" I.D.)
PB-1396	Standard 1 ³ / ₈ " O.D. Hose (1" I.D.)
PB-1398	Standard Hose (³ / ₄ " I.D.)

† Other sizes available upon request



POMECO 100 Counterweight Hose Retractors

POMECO 100 Counterweight Hose Retractors keep excess hose off the ground and out of the way, prolonging hose life and reducing potential hazards. The POMECO 100 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.

Materials	Top and Pulley Assembly	Housing Hose Clamp
Housing: Impact-resistant plastic Cable: Black polyester	Post 2" x 2"	
Post: Aluminum (2"x 2")	Sliding Bracket	
	Retractor Foot	

Features

- Easy to Use counterweights are precisely matched to each hose configuration to ensure that a minimal pulling force is needed throughout hose extension.
- Easy to Maintain the 100 has just two moving parts, ensuring a long service life with a minimum of maintenance.

Ordering Specifications

Conventional and Vapor Recovery Applications

Model #	- Hose Configuration	Hose	Length	Clam Hose	•	Hose	e I.D.	Height We			Weight	
	····· j -····	ft.	m	in.	mm	in.	mm	in.	cm	lbs.	kg	
6100-4000	Conventional	12-14	3.7- 4.3	1¾	35	1	25	79	201	33	15.0	
6100-5000	Conventional	15-18	4.6 - 5.5	1¾	35	1	25	92	234	38	17.2	
6100-6000	Conventional	12-14	3.7 - 4.3	1 ¹ / ₃₂	26	5/8 or 3/4	16 or 19	79	201	30	13.6	
6100-7000	Conventional	15-20	4.6 - 6.1	1 ¹ / ₃₂	26	5/8 or 3/4	16 or 19	92	234	31	14.1	
6100-8000	Conventional	12-14	3.7 - 4.3	1	25	5/8	16	79	201	29	13.2	
6100-9000	Conventional	15-20	4.6 - 6.1	1	25	5/8	16	92	234	30	13.6	
6100-AGNV	Inverted Coaxial	11-13	3.4 - 4.0	(Hose Clamp Not Included)			79	201	33	15.0		
6100-AGLC	Coaxial	11-13	3.4 - 4.0	(Hose Clamp Not Included) 79 201 26					26	11.8		
6100-AGBR	Coaxial w/ Breakaway	11-13	3.4 - 4.0	(Hos	e Clam	p Not Ind	luded)	79	201	31	14.1	

Multiple Hose Configurations – the 100 is available in a multitude of configurations to meet virtually any conventional or vapor recovery hose/nozzle configuration. Models are also available for air and water hose applications to keep hoses clear of vehicles when not in use.

100 Series Counterweight Hose Retractor Instruction Sheet Order Number: **H15852PA**

See page 197 for hose clamp Ordering Specifications

NOTE: See OPW's Website at www.opwglobal.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.

Options and Replacement Parts

Part #	Description	Counterweight Length		Weight	
		in.	cm	lbs.	kg
H15262	Counterweight for 4000/ AGNV Models	27	68.5	24	10.8
H15263	Counterweight for 5000 Model	31	78.7	27	12.2
H15260	Counterweight for 6000, 8000 and AGLC Models	20	50.8	17	7.7
H15261	Counterweight for 7000, 9000, AGBR Models	25	63.5	22	9.9
H15265M	Sliding Bracket, Dispenser Mount				
C05235M	Replacement Tube, 2" x 2" x 75" (191 cm)				
C05236M	Replacement Tube, 2" x 2" x 88" (224 cm)				

Part #	Description	
D02671M	Replacement Housing, Plastic	
H15266	Top and Pulley Assembly	
H15264	12 ft. Replacement Cable	
C05239M	Retractor Foot	
P100-4STF	Freestanding Retractor Base	
P338SPOOL	Replacement Cable Spool, 338 ft. of wire	
H15210M	Cable Guide	
H13588M	Retaining Ring	



Global Operations

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