

Above Ground Products

Setting the Industry Standard for More Than 120 Years

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Industrial Products

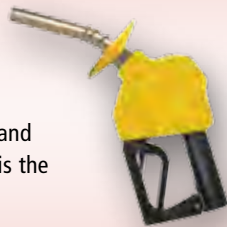
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OPW NEWGARD™ Two-Piece Hand Insulator

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.

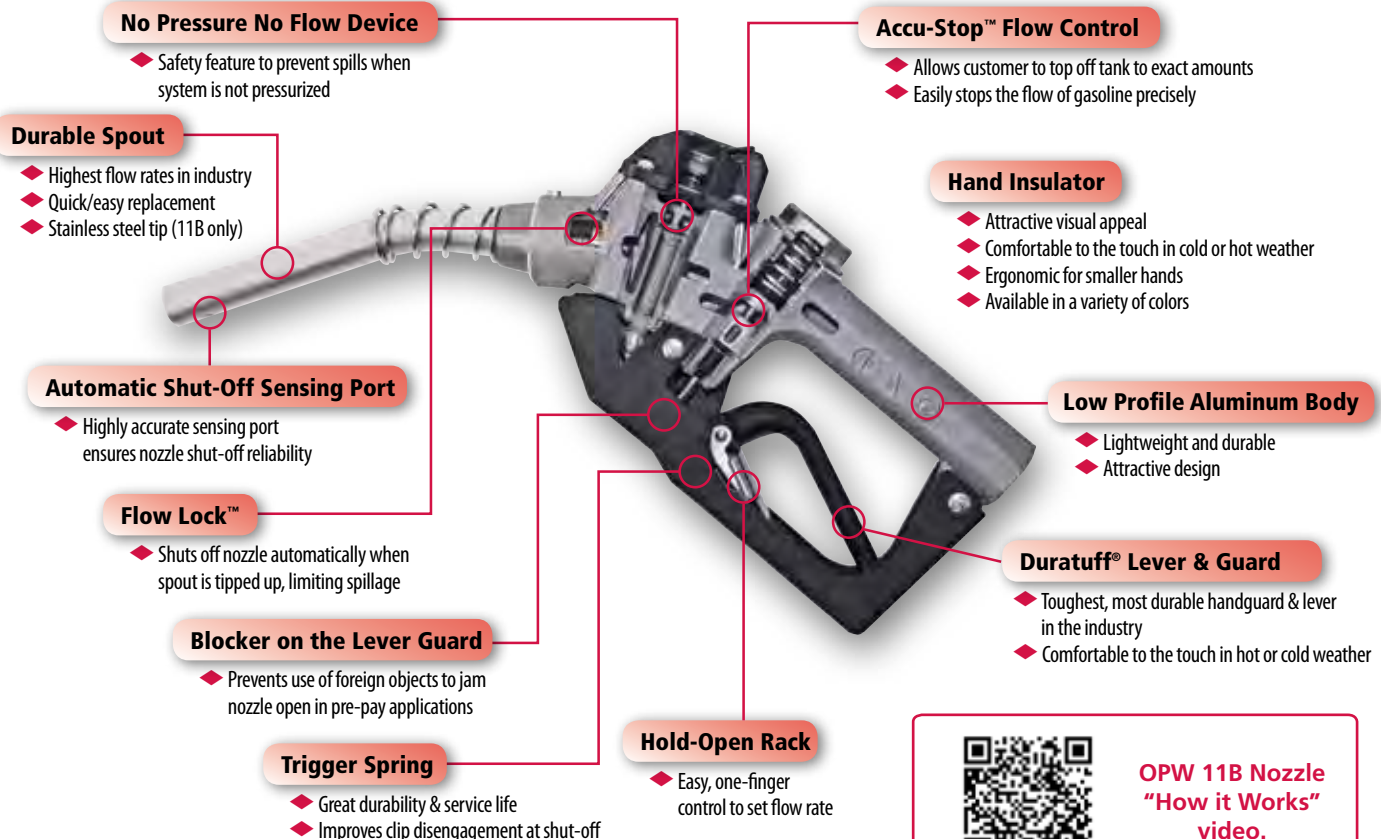


OPW NEWGARD™ Full Hand Insulator

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.



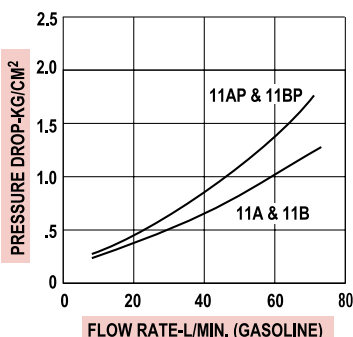
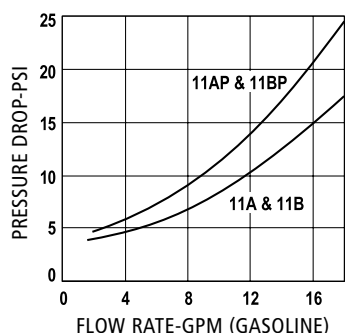
OPW AUTOMATIC NOZZLE FEATURES – MULTIPLE SOLUTIONS FOR MULTIPLE CUSTOMERS



OPW 11B Nozzle
"How it Works"
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.

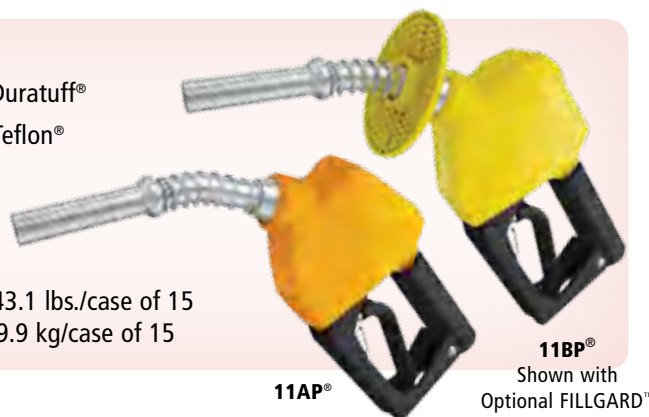


Accessories

| Name | Product # | Description | Used For: |
|--------------------|-----------|------------------------------|--|
| 3/4" to 1" Bushing | 28S-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" Male x 3/4" Female | Converting 11 Series nozzle for use on 1" 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*.

- ◆ 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.

Replacement Parts

| Name | Product # | Description | Used For: |
|-------------------------|-------------|------------------------------------|---|
| 11A Leaded Spout Kit | 5BS-2110 | 11A, 15/16" O.D. Leaded Spout | 11A Spout Replacement |
| 11AP Unleaded Spout Kit | 5BPS-2117 | 11AP, 13/16" O.D. Unleaded Spout | 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 |
| NEWGARD Kits | See pg. 154 | Replacement Hand Insulators | 11A, 11AP, 11B, 11BP NEWGARD Replacements |
| Instruction Sheet | H15985M | Installation and Instruction Sheet | 11A, 11AP, 11B, 11BP Instruction Sheet |

Listings and Certifications



See pages 301-302 for certification number

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

Ordering Specifications

E-10 Automatic 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 (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 |

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 |
|------------------|--------------------------------|-------------------------------|
| Green | 11A-0100-B20 | 11B-0100-B20 |
| Black | 11A-0400-B20 | 11B-0400-B20 |
| Yellow | 11A-0900-B20 | 11B-0900-B20 |

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

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.

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**



OPW 5BS and 5BBS
Leaded, Diesel, Kerosene



OPW 5BBPS and OPW 5BPS
Unleaded

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 card-lock 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.

Listings and Certifications



See pages 301-302 for certification number

Materials

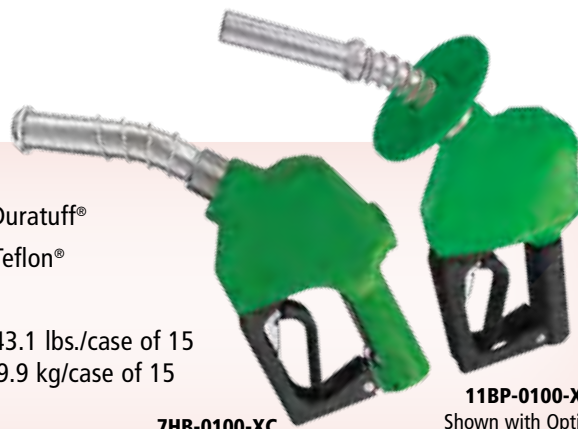
Body: Aluminum

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

11BP-0100-XC
Shown with Optional
FILLGARD™

Nozzles (above) shown with optional hand insulator. Hand insulator not included.

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

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

Durable & Long Lasting Design

- ◆ Compatible to -54°C [-65°F]*
- ◆ Cycle-tested and proven to last longer than 1 million cycles - Better than 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 than previous designs. (OPW 11B® and 7HB® Series Only)
- ◆ Easy to use – Utilizing Accu-Stop® to-the-penny Flow Control Technology.

* OPW internal lab testing results as of August 2010.

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 |
| 11BP-0300-XC | Extreme Cold Weather, 3/4" NPT Gasoline Nozzle, 11BP, Red |
| 11BP-0400-XC | Extreme Cold Weather, 3/4" NPT Gasoline Nozzle, 11BP, Black |
| 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 165 |
| 20S Series | Cold Weather Swivel – See page 161 |

Replacement Parts

| Name | Product # | Description | Used For: |
|--------------------------|--------------|-----------------------------------|-------------------------|
| 11AK Leaded Spout Kit | 5BS-2110XC | 11A, 1 1/16" O.D. Leaded Spout | 11AK Spout Replacement |
| 11AKP Unleaded Spout Kit | 5BPS-2117XC | 11AP, 1 3/16" O.D. Unleaded Spout | 11AKP Spout Replacement |
| 11B Leaded Spout Kit | 5BBS-2135XC | 11B, 1 5/16" O.D. Leaded Spout | 11B Spout Replacement |
| 11BP Unleaded Spout Kit | 5BBPS-2137XC | 11BP, 1 3/16" 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.

Materials

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

11BP-0992-E85



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 than 1 million cycles – Better than 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 than previous designs.

Appealing to Customers

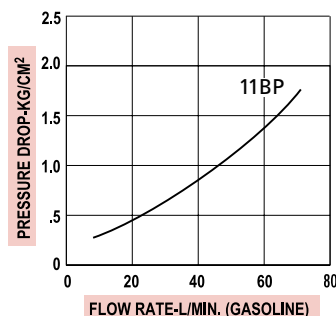
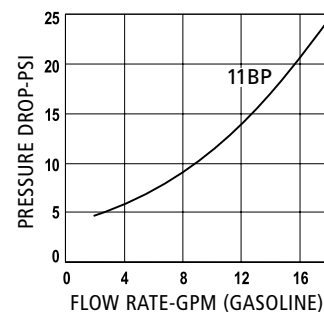
- ◆ Easy to use – utilizing Accu-Stop® to-the-penny Flow Control Technology.
- ◆ Attractive 2-Piece NEWGARD™ Hand Insulator is the most comfortable nozzle in the industry to use.
- ◆ Convenient – one-finger hold-open clip that is easy to set the flow rate (not on all models).

Design working pressure

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

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%.



Ordering Specifications

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" |
| | 19 mm x 19 mm | 124 mm | 56 mm |

Listings and Certifications



UL Listed for up to 85% Ethanol

Replacement Parts

| Product | Product # | O.D. in. mm | Length in. mm | Weight lbs. kg |
|----------------------------|------------|----------------|------------------|-------------------|
| 11BP spout replacement kit | 5BBPI-0492 | 13/16" | 21 7" | 178 .47 .22 |

NEWGARD™ Kits See page 154.

11BP Instruction Sheet Order Number: **H15889PAE**

66V Ordering Specifications E85 Approved

| Product # | Size in. mm | Weight 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**

Customize and Colorize



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





Easy Snap-on Rubber Cover

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 |
| 12VW-0100-AD | 12VW Vac-Assist Nozzle with GREEN Advertising Hand Insulator & Clear Cover |
| 12VW-0300-AD | 12VW Vac-Assist Nozzle with RED Advertising Hand Insulator & Clear Cover |
| 12VW-0400-AD | 12VW Vac-Assist Nozzle with BLACK Advertising Hand Insulator & Clear 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 |
| NTK12-0100 | 12VW GREEN Advertising Insulator and Clear Cover Kit |
| NTK12-0300 | 12VW RED Advertising Insulator and Clear Cover Kit |
| NTK12-0400 | 12VW BLACK Advertising Insulator and Clear Cover Kit |
| 207852 | Clear Cover |



Clear Cover

OPW Quick and Easy ConVRsion Package

Use the OPW quick and easy ConVRsion package when converting or decommissioning your Stage II Vapor Recovery System.

Features







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



Listings and Certifications



Unleaded and Diesel Packages Include

| | | | |
|----------|--|---------------------------------------|---|
| A | 11BP Nozzle | 3/4" Nozzle |  |
| B | 241TPS-0241 | 3/4" 2-Plane Swivel |  |
| C | 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 | |  |

Vac-Assist and Balance Packages Include

| | | | |
|----------|--|---|---|
| A | 11BP Nozzle | 3/4" Nozzle |  |
| B | 241TPS-0241 | 3/4" 2-Plane Swivel |  |
| C | 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 | |  |
| G | VAR75* 28C-0028* | Vac-Assist to Conventional Adaptor Balance to Conventional Adaptor |  |

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, Standard Hose |

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.

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 Decommissioning Kits

| | |
|------------|---|
| BA-EZR0100 | 3/4" Unleaded Green Nozzle, Standard Hose |
| BA-EZR0300 | 3/4" Unleaded Red Nozzle, Standard Hose |
| BA-EZR0400 | 3/4" Unleaded Black Nozzle, Standard Hose |

Contact OPW Customer Service for custom models.

Materials

Body: Aluminum

Lever & Lever Guard: Duratuff®

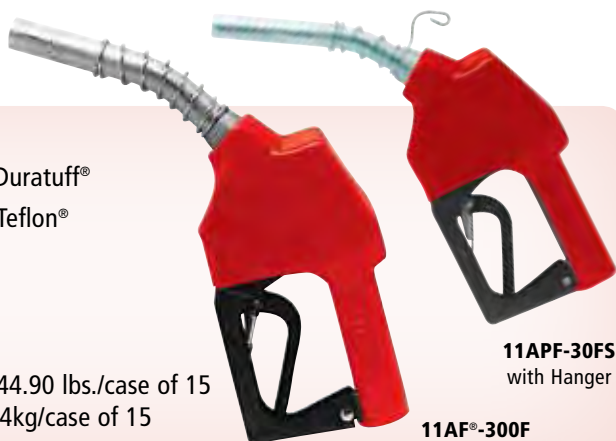
Packing: Graphite with Teflon®

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



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.

WARNING

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.

Features

- ◆ 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 your customers' vehicles – made from Duratuff®.
- ◆ Easy to use – utilizing Accu-Stop® to-the-penny Flow Control Technology.
- ◆ Easy to open, even at high pressures utilizing Dual Poppets.
- ◆ Convenient – one-finger hold-open clip that is easy to set the flow rate. (not on all models)
- ◆ 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

Ordering Specifications

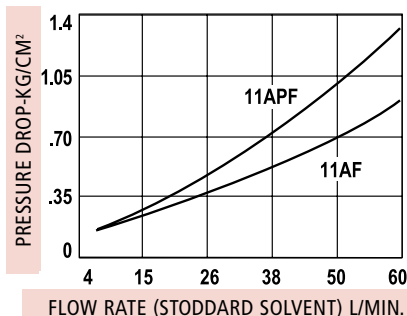
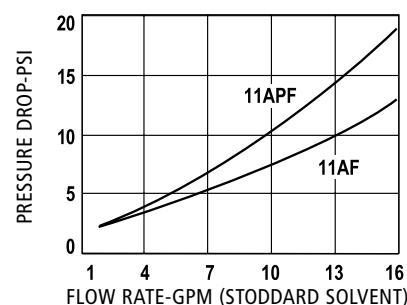
| Full Hand Insulator Color | Includes 3/4" spout, hanger, spring and hold-open rack | | Includes 3/4" spout, standard spring and hold-open rack | | Includes 3/4" spout, hanger, spring and no hold-open rack | |
|---------------------------|--|--------------------|---|--------------------|---|----------------------|
| | For Unleaded Service | For Diesel Service | For Unleaded Service | For Diesel Service | For Leaded Service | For Unleaded Service |
| Green | | 11AF-10FS | | | | |
| Red | 11APF-30FS | | 11AF-300F | 11APF-300F | | |
| Black | 11APF-40FS | 11AF-40FS | | | 11AF-4FSC | 11APF-4FSC |

*Beginning April 30, 2015; nozzles without a no-pressure no-flow or interlock device may not be ULC listed with Hold-Open Clips.

Replacement Spout Kits

| Product # | O.D. | | Length | | Weight | | Used On |
|------------|-------|----|--------|-----|--------|-----|--------------------|
| | in. | mm | in. | mm | lbs. | kg | |
| 5BF-0112 | 15/16 | 24 | 7 | 178 | .59 | .27 | 11AF®-No Hook |
| 5BFS-0113 | 15/16 | 24 | 7 | 178 | .59 | .27 | 11AF® w/ Farm Hook |
| 5BPF-0172 | 13/16 | 21 | 7 | 178 | .59 | .27 | 11APF-No Hook |
| 5BPFS-0173 | 13/16 | 21 | 7 | 178 | .59 | .27 | 11APF w/ Farm Hook |

NEWGARD™ Kits See page 154.



28S-0350
Bushing Adaptor



28R-2404
Bushing Adaptor

Listings and Certifications

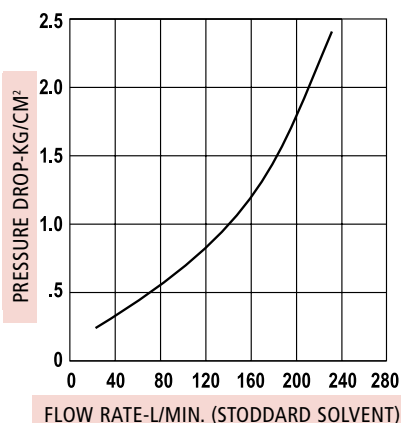
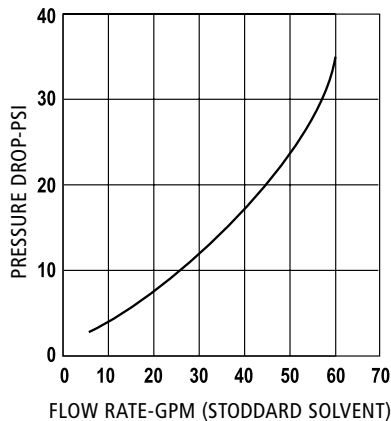


See pages 301-302 for certification number

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 card-lock refueling location, the low-cost, long-life and durability of the OPW 7H® high-flow nozzle can help increase your productivity, sales and profits.



FIRST to Meet NEW UL 2586 Requirements

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.*

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

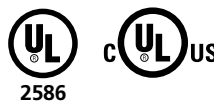
Appealing to Customers

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



See pages 301-302 for certification number

⚠ 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

| B-5 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 154.

*7H 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 | 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 154.

*7H Nozzles are no longer permitted and sold with Hold-Open Clips per UL 2586 requirements.

Replacement Parts

| Product | Part # | 7H® | | | | | | Used On |
|-----------------------------|-----------|---------|----|--------|-----|--------|-----|----------------|
| | | O.D.* | | Length | | Weight | | |
| | | in. | mm | in. | mm | lbs. | kg | |
| 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 154

| | | 7HB® | | | | | | |
|------------------------------|-----------|---------|----|--------|-----|--------|-----|-----------------|
| Product | Part # | O.D.* | | Length | | Weight | | Used On |
| | | in. | mm | in. | mm | lbs. | kg | |
| 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 154 | | | | | | | | 7HB® |

* Spout end with anchor ring is 1 31/64" O.D.

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

Custom Colors

With minimum quantities.
Contact OPW customer service.

Blue

Red

Silver



OPW 5BH
7H® Spout with ring



OPW 5BBH
7HB® Spout without ring

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 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 two-piece 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.



OPW NEWGARD™
7 Series / 1A Series



Hand Insulator



Barrel



FILLGARD™

OPW NEWGARD™
Two-Piece Style Hand Insulator
11A®/11B®
11BP-0992-E85

Note: Barrel And Hand Insulator Sold Separately.

Ordering Specifications

| Hand Insulator Color | NEWGARD™ 1 piece | | | | NEWGARD™ 2 piece | | FILLGARD™ | |
|-------------------------|------------------|---------|---------|---------|------------------|---------|-------------|------------|
| | 11A® | 11B® | 7H® | 7HB® | 11A® | 11B® | 11A® & 11B® | 7H® / 7HB® |
| Green | D01246M | C03647M | E00307M | E00325M | D01773M | D01529M | 8G-0100 | 8HG-0100 |
| Silver | D01174M | C03648M | | | 205217 | D02078M | 8S-0200 | |
| Red | D00907M | E00304M | | 211218 | D01775M | D01789M | 8R-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 | | |

Note: Barrel and Hand Insulator sold separately.

D01530M

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

| | | |
|------------------------------------|-------------------------------------|--------------------------------|
| <input type="checkbox"/> White | <input type="checkbox"/> Azure Blue | <input type="checkbox"/> Brown |
| <input type="checkbox"/> Light Red | <input type="checkbox"/> Dark Blue | |

Notes:

- 1) OPW may add or delete colors without notice.
- 2) Actual color may vary from production run to production run.
- 3) Custom colors available, minimum quantities applicable.**
- 4) 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.

Materials

Body: Special resin coated aluminum

Lever & 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.



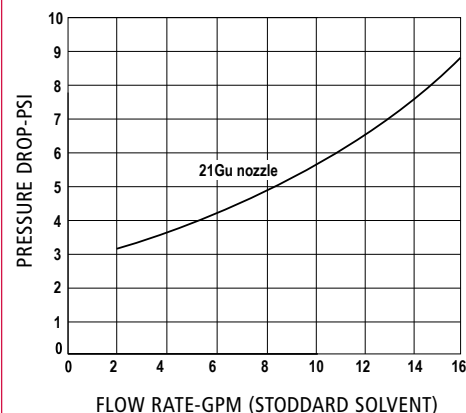
Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure.

OPW 21Gu™ DEF Nozzle

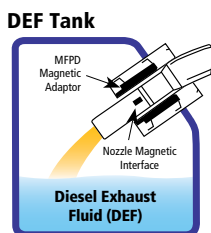
The Industry's Most Comprehensive DEF-Filling Solution

- ◆ 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

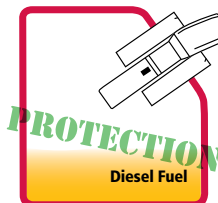


MIS-FILLING PREVENTION

WITH the OPW 21Gu nozzle and Mis-Filling Prevention Device (MFPD), your investment is safe.



Diesel Fuel Tank

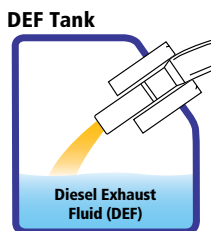


Nozzle Magnetic Interface is Not Actuated and DEF Cannot Contaminate Your Diesel Fuel Tank

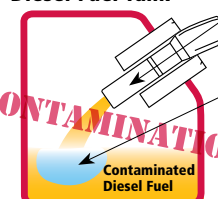
Yes

Other DEF Nozzle

WITHOUT the OPW 21Gu nozzle and Mis-Filling Prevention Device (MFPD), your investment is at risk.



Diesel Fuel Tank



There is Nothing to Stop the Nozzle from Contaminating Your Diesel Fuel Tank

No

Listings and

Certifications ISO 22241 Compliant

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.

Nozzle Ordering Specifications

| Product # | Description |
|--------------|--|
| 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 |
| 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 |

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

Replacement Parts

| Product # | Description |
|-----------|---------------------------------------|
| 206466 | 21GU-0500 & 050G Blue Hand Insulator |
| 205077 | 21GU-0400 & 040G Black Hand Insulator |



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



Gilbarco® Guard

CHOOSE YOUR NOZZLE OUTLET STYLE

21GU-SFH

Stainless Steel Fixed Hose Fitting



Features

- ◆ SST construction and compatible with ISO 22241 Standard
- ◆ Converts nozzle from M34 threads to 1" BSPP

21GU-SSS

Stainless Steel Swivel



Features

- ◆ SST construction and compatible with ISO 22241 Standard
- ◆ Converts nozzle from M34 threads to 1" BSPP
- ◆ Long lasting single plane swivel
- ◆ Includes 21GU-SCS for attractive installation and protection of vehicles



21GU-SSB

Stainless Steel Swivel / Reconnectable Breakaway



Features

- ◆ 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



21Gu Nozzle Adaptor Ordering Specifications

| Product # | Description |
|-----------|--|
| 21GU-SFH | DEF Stainless Steel Fixed Hose Inlet, 1" BSPP male |
| 21GU-SSS | DEF Stainless Steel Swivel, 1" BSPP male |
| 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 (Comes with 21GU-SSS) |
| 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. |

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

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.



Materials

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.
- ◆ Swivel end couplings provide for easy installation.
- ◆ Durable, reliable, long-life performance and maximum flow efficiency.
- ◆ Anti-kinking sleeve at nozzle end to reduce wear on hose during use.

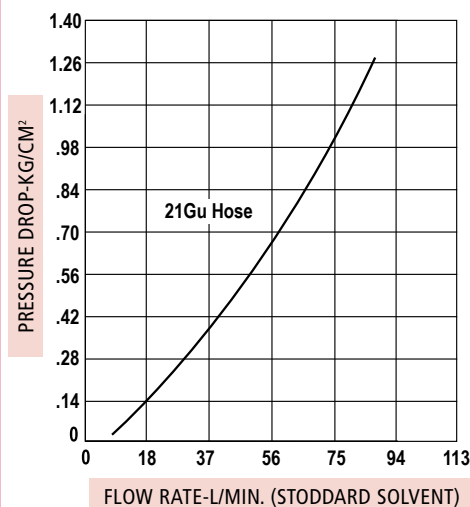
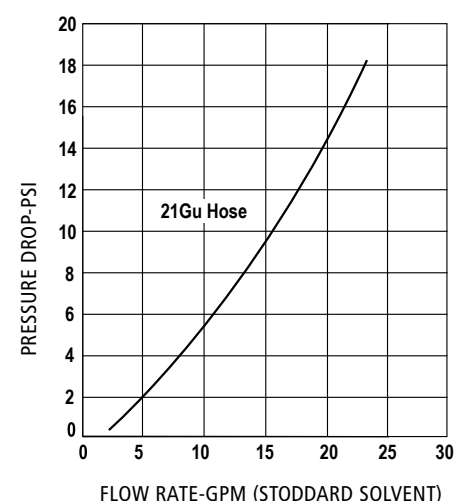
Ordering Specifications

| Product # | Description |
|-----------|--|
| 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 |
| 21GU-H21 | DEF Hose Assembly, 21 ft. |
| 21GU-HRS | DEF Hose Replacement Seals (10 per pack) |
| 204128 | Bulk DEF Hose, order by foot |
| 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.

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.



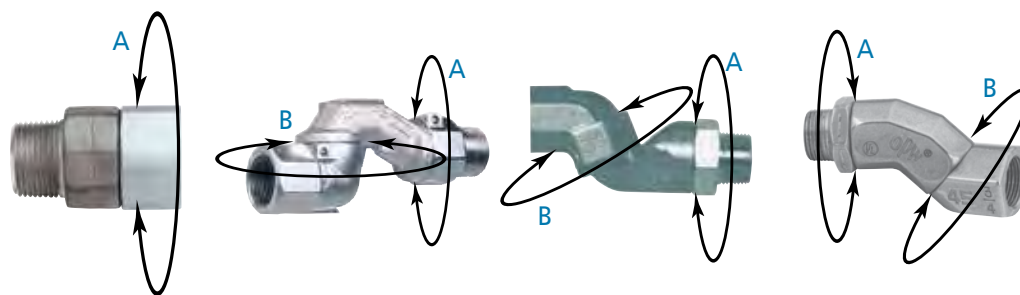
Conventional Swivels & Breakaways



- Swivel Breakaway Selection Chart..... 159
- Hose Swivels..... 160 - 162
- Swivel/Breakaways 163
- Reconnectable Breakaways 164 - 166
- Single Use Breakaways..... 167
- 66H Series Hose..... 167



SWIVELS



| Model | 36S | 241TPS | 20S | 45 |
|---------------------|-----------------------------|-----------------------------|---------------------------------|--------------------|
| Rotation A | 360° | 360° | 360° | 360° |
| Rotation B | N/A | 270° | 360° | 360° |
| O-Ring Design | Dual O-Ring – Viton®/Buna-N | Dual O-Ring – Viton®/Buna-N | Dual O-Ring/Viton® Fluorocarbon | Dual Seal – Viton® |
| 3/4" Model | Yes | Yes | Yes | Yes |
| 1" Model | Yes | Yes | Yes | Yes |
| Page | 195 | 162 | 161 | 160 |
| Cold Weather Option | No | No | Yes | Yes |

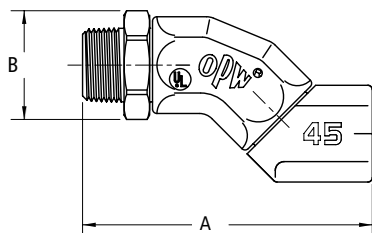
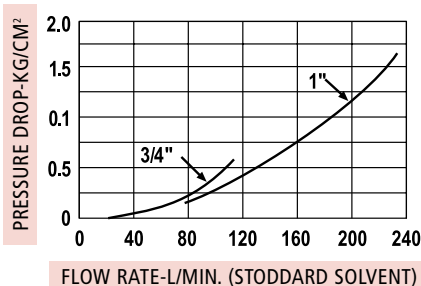
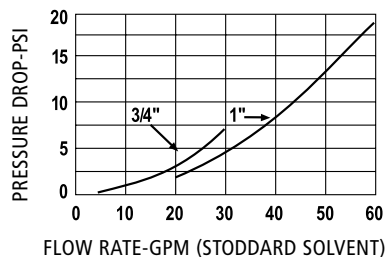
BREAKAWAYS



| Model | 66V | 66RB | 68EZR | 66REC | 66SB |
|---------------------|---|---|---|---|---|
| Style | Single Use | Reconnectable | Reconnectable | Reconnectable | Reconnectable |
| Cost | <ul style="list-style-type: none"> • Low Initial Unit Cost • Requires Service Call To Replace | <ul style="list-style-type: none"> • Higher Initial Unit Cost • No Service Call Required To Reconnect | <ul style="list-style-type: none"> • Higher Initial Unit Cost • No Service Call Required To Reconnect | <ul style="list-style-type: none"> • Higher Initial Unit Cost • No Service Call Required To Reconnect | <ul style="list-style-type: none"> • Higher Initial Unit Cost • No Service Call Required To Reconnect |
| Application | <ul style="list-style-type: none"> • High Hose Dispensing • Requires Whip Hose | <ul style="list-style-type: none"> • High Hose Dispensing • Requires Whip Hose | <ul style="list-style-type: none"> • High Hose Dispensing • Requires Whip Hose | <ul style="list-style-type: none"> • High Hose Dispensing • Requires Whip Hose | <ul style="list-style-type: none"> • No Whip Hose Required |
| 3/4" Model | Yes | N/A | Yes | Yes | Yes |
| 1" Model | Yes | Yes | N/A | N/A | Yes |
| Other Features | Available with a Whip Hose Combination | | Audible Click | Audible Click | Combines Swivel & Breakaway |
| Page | 167 | 166 | 164 | 165 | 163 |
| Cold Weather Option | No | No | Yes | Yes | Yes |

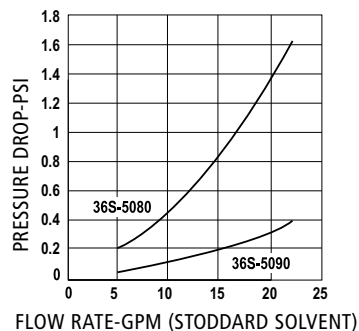
OPW 45 Hose Swivel

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.



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



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.
- ◆ 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.

Ordering Specifications

| Product # | Size | Overall Length | Across Corners | Weight | |
|-----------|-----------------------|----------------|----------------|--------|-----|
| | | A | B | lbs. | kg |
| 45-5060 | 3/4" F x 3/4" M (NPT) | 4 1/8" | 1 9/16" | .65 | .30 |
| | 19 mm x 19 mm | 105 mm | 40 mm | | |
| 45-5075 | 1" F x 1" M (NPT) | 4 3/4" | 1 7/8" | 1.16 | .53 |
| | 25 mm x 25 mm | 121 mm | 48 mm | | |

Materials

Body: Aluminum

Adaptor: Zinc
Aluminum

Seals: Buna-N O-Ring,
Viton® O-Ring

Bearings: Nylon

36S-5080



Ordering Specifications

| Product Number | Inlet Thread x Outlet Thread | lbs. | kg |
|----------------|------------------------------|------|------|
| 36S-5080 | 3/4" M x 3/4" F (NPT) | 0.30 | 0.14 |
| | (19 mm x 19 mm) | | |
| 36S-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.

Materials

Body: Aluminum

Outlet Adaptor: Zinc aluminum

Inlet Adaptor: Zinc aluminum

Seals: Fluorosilicone and Viton®

Weight: 3/4": .70 lbs. each; .32 kg
1": 1.20 lbs. each; .54 kg



3/4" 20S

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 20S is factory assembled and tested.
- ◆ Better flow performance – less restriction means higher refueling speeds.
- ◆ Hi-grade seals for added protection against cold temperature and chemical degradation.
- ◆ Approved for Extreme Cold Weather

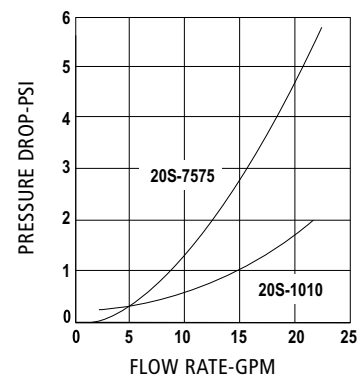
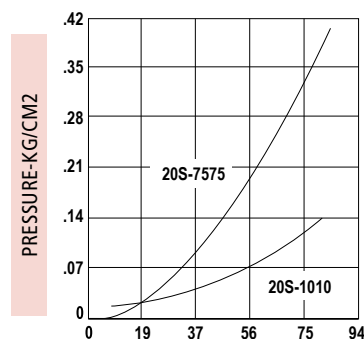
Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure.



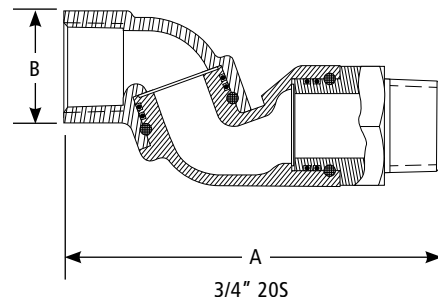
OPW 20S Hose Swivel

The OPW 20S Swivel has sleek and solid construction as well as superior engineering. The OPW 20S possesses two 360° swivel rotations, reducing hose wear. For low-temperature performance, choose the OPW 20S Swivel.



Ordering Specifications

| Product # | Size | | A | | B | | Weight | |
|-----------|-----------------|-------------|------|--------|------|-------|--------|------|
| | in. | mm | in. | mm | in. | mm | lbs. | kg |
| 20S-7575 | 3/4" F x 3/4" M | 19 F x 19 M | 4.40 | 111.76 | 2.13 | 54.10 | 0.70 | 0.32 |
| 20S-1010 | 1" F x 1" M | 25 F x 25 M | 5.48 | 139.19 | 2.66 | 67.56 | 1.20 | 0.54 |

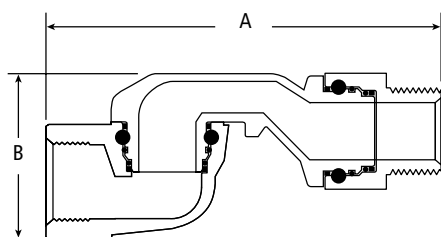
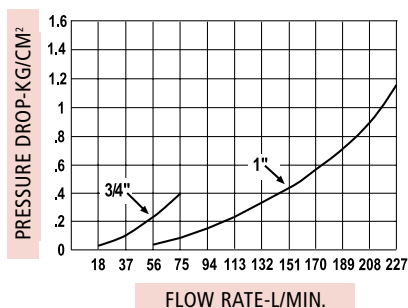
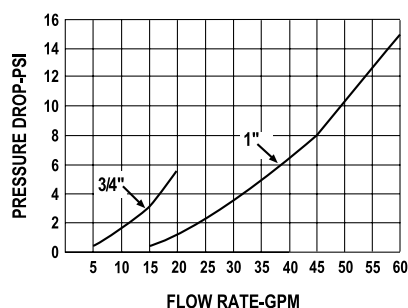


**Listings and
Certifications**



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.



Materials

Body: Aluminum
Inlet Adaptor: Zinc
Outlet Adaptor: Zinc
Seals: Buna-N, Viton®
Bearing: Nylon
Weight: 3/4": .65 lbs., .30 kg
 1": 1.55 lbs., .703 kg
Packed: 60 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.
- ◆ 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.

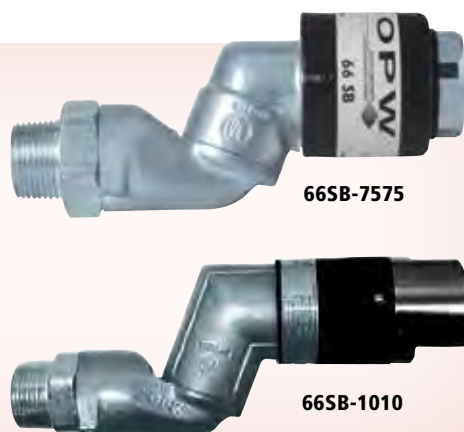
Listings and Certifications



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.

Materials

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



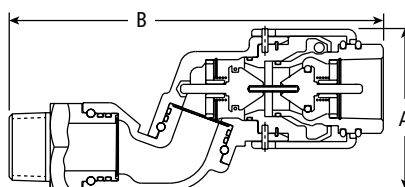
Features

- ◆ 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.

- ◆ Reduces Connections – the single-unit 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.



Ordering Specifications

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

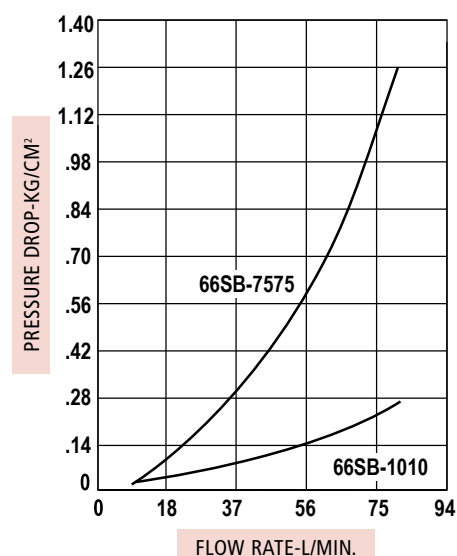
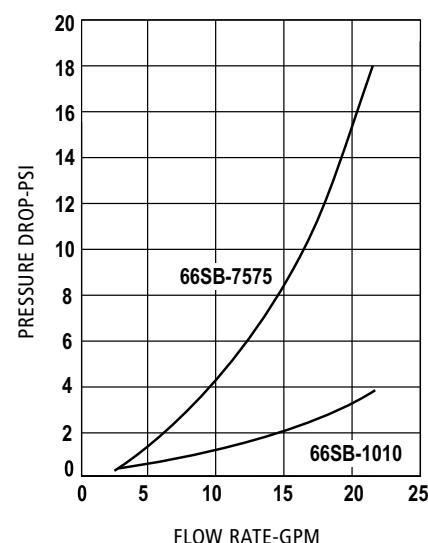
Dimensions

| Product # | A | | B | |
|-----------|----------|----|----------|-----|
| | 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**

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.

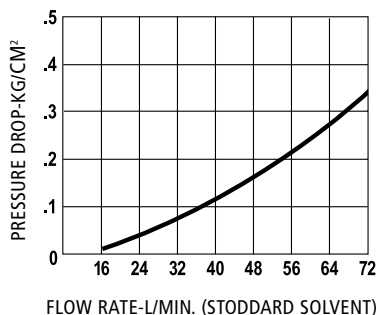
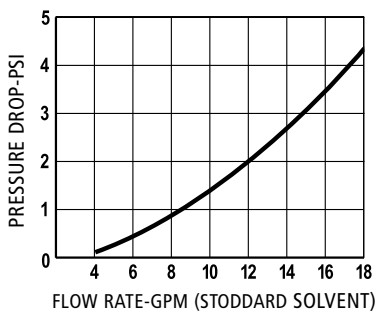


Listings and Certifications



OPW 68EZR 3/4" Dry Reconnectable Breakaway

The OPW 68EZR Reconnectable 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 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 68EZR should be installed downstream of the retractor cable.



Materials

Body: Die-cast zinc, Zamak
Protective Sleeves: Zytel
Main Seals: Viton®
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.
- ◆ 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.

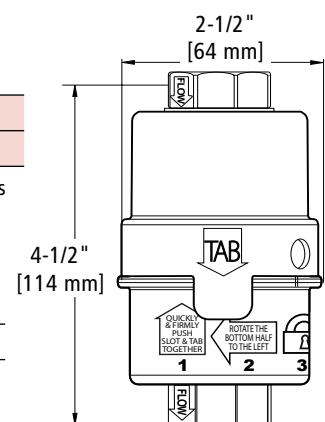
Ordering Specifications

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

Replacement Parts

| Part # | Description |
|--|-------------|
| 211143 | Main Seal |
| 68EZR Series Instruction Sheet Order Number: 208080 | |



Listings and Certifications



Materials

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

66REC

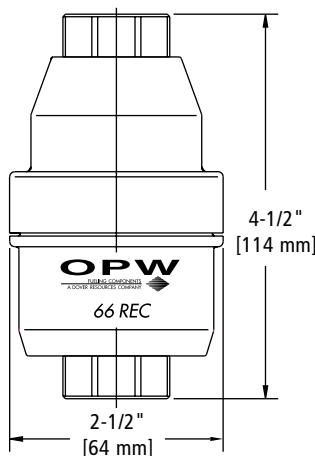
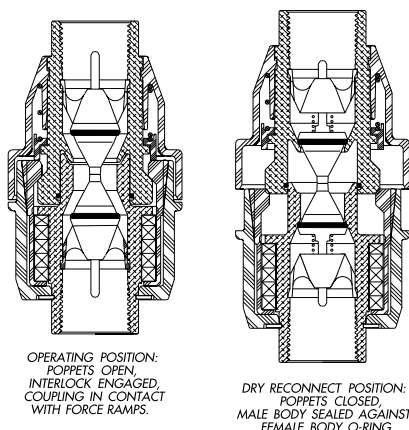


Features

- ◆ 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
- ◆ Line Shock – the OPW 66REC is able to absorb the effects of normal line shock through the unique design of the disconnecting features.

Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure.



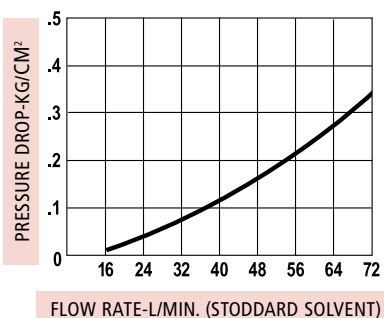
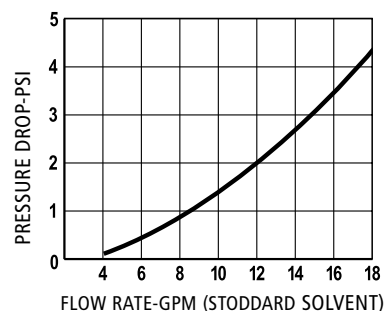
Ordering Specifications

| 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.

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.

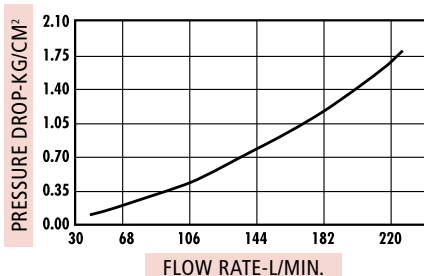
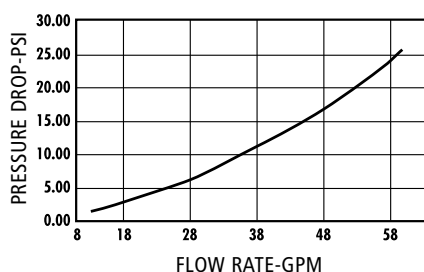


Listings and
Certifications



OPW 66RB 1" Reconnectable Breakaway

The 66RB-2000 Reconnectable Breakaway is designed for use in today's truckstop and high-volume markets. Intended for installation on fuel dispensing hoses, the 66RB will separate at a maximum force of 350 lbs. Upon separation, the integral check valves close, stopping the flow of fuel and limiting any fuel spillage from either hose end. For proper operation on high-hanging hoses, the OPW 66RB must always be installed using a "straightening hose" with a minimum length of 12", such as the OPW 66H. For low hose applications, the 66RB should be installed downstream of the retractor cable.



Materials

Body: Aluminum
Sleeve: HDPE
Seals: Viton®
Spring: Stainless steel
Poppet: Aluminum

66RB



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 66RB will break away with a pull force of no more than 350 lbs.
- ◆ Easily Reconnected – after relieving line pressure, simply push coupling halves together until latched. Reconnection force is approximately 15 lbs.
- ◆ Protected Coupling and Poppet – the breakaway's poppets and sealing surfaces are protected from impact during separation by a durable plastic sleeve.
- ◆ Low Pressure Drop – the integral check valve design allows for minimal pressure drop for faster, high-volume fill-ups.

Design working pressure

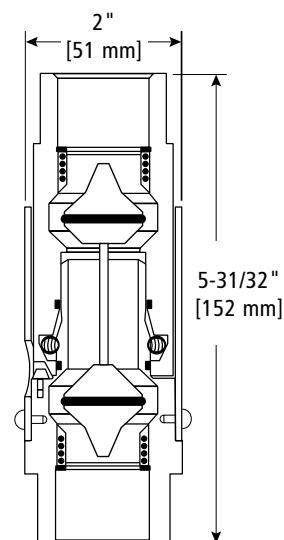
- ◆ 50 psi (3.45 bar) maximum pressure.

Ordering Specifications

| Product # | in. | mm | lbs. | kg |
|------------|----------|----|------|-----|
| 66RB-2000 | 1" (NPT) | 25 | 1.14 | .52 |
| 66RB-20RF* | 1" (NPT) | 25 | 1.14 | .52 |

66RB Series Instruction Sheet Order Number: **F-69**

*66RB-20RF is UL Listed for up to 20% Biodiesel.



Listings and Certifications



Materials

Body: Aluminum

Seals: Buna-N and Viton®

Weight: See matrix below

66V Breakaway Scuff Guard



66V



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.
- ◆ 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.

Ordering Specifications

| Product # | Connection Size | | Weight | | Description - Pull Force |
|--------------|-----------------------|-------------|--------|------|--|
| | in. | mm | lbs. | kg | |
| 66V-0300 | 3/4" F x 3/4" F (NPT) | 19 F x 19 F | 0.60 | 0.27 | Valve / No More Than 300 lb. |
| 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. |
| 66V-1300 | 1" F x 1" F (NPT) | 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 | 1" F x 1" F (NPT) | 25 F x 25 F | 0.98 | 0.45 | Valve / No More Than 350 lb. |
| 66V-135RF*** | 1" F x 1" F (NPT) | 25 F x 25 F | 0.98 | 0.45 | Valve / No More Than 350 lb. |
| 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 | Vinyl Scuff Guard Cover |
| 66S-1300 | 1" | 25 | 0.20 | 0.10 | Vinyl Scuff Guard Cover |

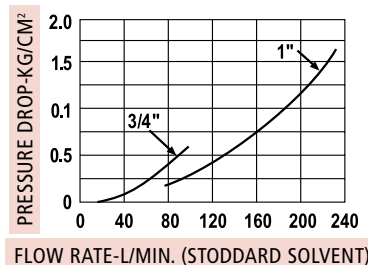
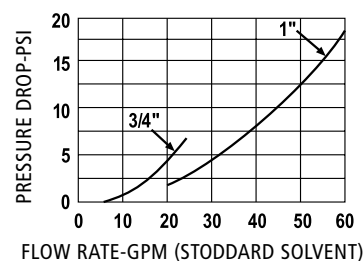
* 66V-0492 is UL Listed for up to 85% Ethanol

** 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

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.



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

66V Series 1" Instruction Sheet Order Number: **H101833PA**

66S Series Instruction Sheet Order Number: **H11015PA**

Listings and Certifications



OPW 66H Series of Hoses

The OPW 66H 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.

Ordering Specifications

| Product # | Length | Connection Size | | Weight | | Description |
|--------------|------------------|-----------------------|-------------|--------|------|---|
| | | in. | mm | lbs. | kg | |
| 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 |
| 66H-1300 | 12 inch (30 cm) | 1" M x 1" M (NPT) | 25 M x 25 M | 1.40 | 0.63 | Straightening Hose |
| 66H-08575 | 8.5 feet (2.6 m) | 3/4" M x 3/4" M (NPT) | 19 M x 19 M | 4 | 1.8 | Curb Hose |
| 66H-08575-LP | 8.5 feet (2.6 m) | 3/4" M x 3/4" M (NPT) | 19 M x 19 M | 4 | 1.8 | Curb Hose LOW PERMEATION per UL330 |



We don't stop at the nozzle.

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

OPW Swivels Compatibility



| Model | 36S | 241TPS | 20S | 45 |
|-----------|----------------------|------------------------------------|----------------------|--------------------|
| Up to E10 | 36S-5080 | 241TPS-0241 | 20S-7575 | 45-5060 |
| Up to E25 | | 241TPS-75RF | | |
| Up to E85 | | 241TPS-0492 | | |
| Up to B5 | 36S-5080 36S-5090 | 241TPS-0241 241TPS-1000 | 20S-7575 20S-1010 | 45-5060 45-5075 |
| Up to B20 | | 3/4" 241TPS-75RF 1" 241TPS-10RF | | |

OPW Breakaway Compatibility



| Model | 66V | 66RB | 68EZR | 66REC | 66SB |
|-----------|--|-----------|------------|------------|------------------------|
| Up to E10 | 66V-0300 | 66RB-2000 | 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 | 66RB-2000 | 68EZR-7575 | 66REC-1000 | 66SB-7575 66SB-1010 |
| Up to B20 | 3/4" 66V-030RF 1" 66V-130RF 1" 66V-135RF | 66RB-20RF | | | |

OPW Hose Compatibility



Straightening Hose:
66H-0975 - 9 inch (23 cm)



Curb Hose: 66H-08575
8.5 foot (2.6 m)

| Model | 9" Whip Hose | 9" Low Perm Whip | 8.5 ft Curb | 8.5 ft Low Perm Curb |
|-----------|--------------|------------------|-------------|----------------------|
| Up to E10 | 66H-0975 | 66H-0975-LP | 66H-08575 | 66H-08575LP |
| Up to E25 | 66H-0975 | 66H-0975-LP | 66H-08575 | 66H-08575LP |
| Up to E85 | | | | |
| Up to B5 | 66H-0975 | 66H-0975-LP | 66H-08575 | 66H-08575LP |
| Up to B20 | 66H-0975 | 66H-0975-LP | 66H-08575 | 66H-08575LP |

E25, B20 Hose Kits Available

Contact Your OPW Distributor or Sales Representative



Materials

Body: Zinc/aluminum
(44) aluminum
nickel-plated (44N)

Spring: Steel

Guide: Ceramic-filled plastic

Adaptor: Steel zinc-plated

Inlet and Outlet Size: 3/4" NPT



Features

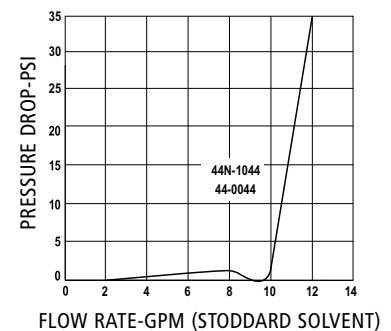
- ◆ UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com.
- ◆ Compact, attractive profile – for a sleek, modern appearance.
- ◆ The OPW 44-0044 is designed to be installed at the dispenser outlet or between the dispenser and the 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.
- ◆ 44N-1044 has a 3/4" male thread – for connection at the nozzle inlet or at the swivel inlet.

Design working pressure

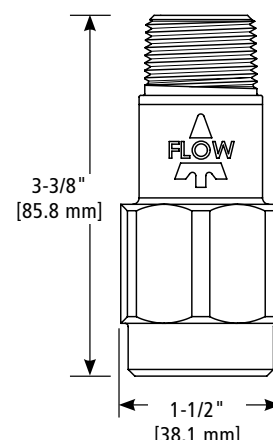
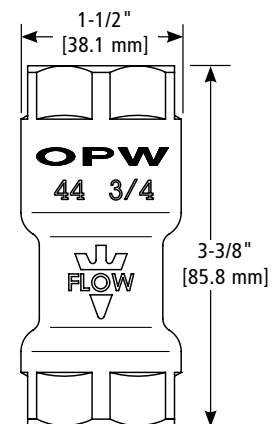
- ◆ 50 psi (3.45 bar) maximum pressure.

OPW 44 and 44N Flow Limiters

The OPW 44 and 44N Flow Limiters allow your customers to comply with the EPA 10 gpm maximum flow rate mandate which went into effect July 1, 1996. Both the OPW 44-0044 and 44N-1044 Flow Limiters are designed to control the maximum fuel flow rate to 10 gpm.



44-0044



Ordering Specifications

| Product # | Length in. | Weight | |
|-----------|---------------------|--------|-----|
| | | lbs | kg |
| 44-0044 | 3/4 F x 3/4 F (NPT) | 1.2 | .54 |
| 44N-1044 | 3/4 F x 3/4 M (NPT) | 1.2 | .54 |

44 Series Instruction Sheet Order Number: **H12918PA**

44N Series Instruction Sheet Order Number: **H13168PA**

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



See pages 301-302 for certification number

Vacuum-Assist Vapor Recovery Hanging Hardware

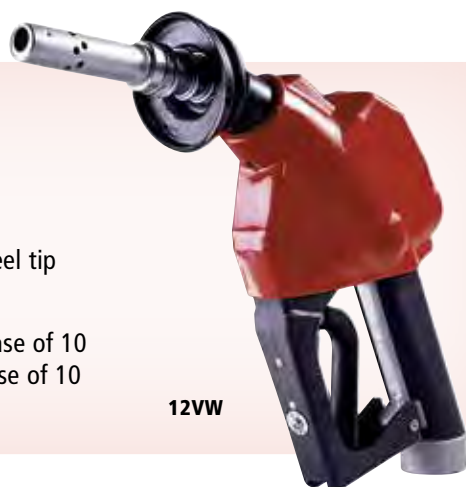


- 12VW Nozzles..... 171
- Vapor Recovery Nozzle Accessories and Replacement Parts..... 172
- Hose Swivels..... 173
- Swivel Breakaway Combos..... 174
- Reconnectable Breakaways 175
- Single-Use Breakaways..... 176
- Accessories, Adaptors and Converters 177



Materials

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



12VW

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.
- ◆ Stainless steel insert in spout to last longer than standard aluminum-only spouts.
- ◆ Durable lever guard that won't scratch your customers' vehicles – made from Duratuff®.
- ◆ New hold-open clip spring lasts longer than 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.**

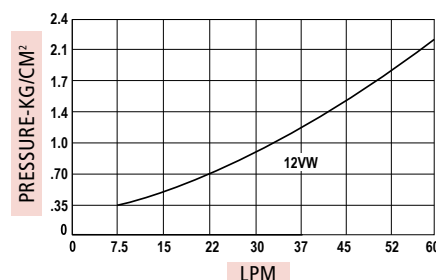
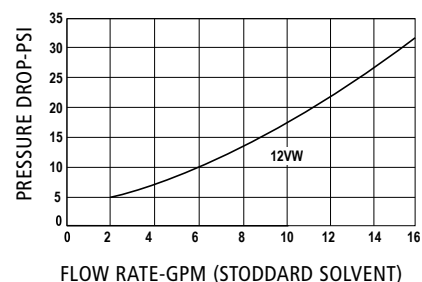
Durable and Long Lasting

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

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



**Listings and
Certifications**



CARB

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

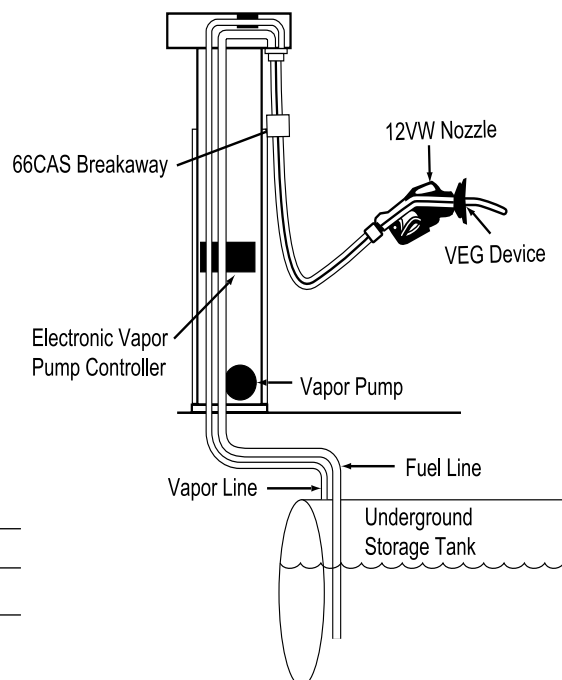
| Standard Hand Insulator Color | 12VW New Unleaded, with Hold-open Rack | 12VW w/ AdMaster™ |
|-------------------------------|--|-------------------|
| Green | 12VW-0100 | |
| Silver | 12VW-0200 | |
| Red | 12VW-0300 | |
| Black | 12VW-0400 | 12VW-0400-AD |
| Blue | 12VW-0500 | |
| Gold | 12VW-0750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

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**

Typical Installation



OPW 6 NEWGARD™ Two-Piece Hand Insulator

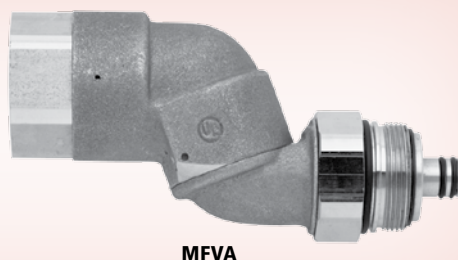
Ordering Specifications

| 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 |



Materials

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



MFVA

Features

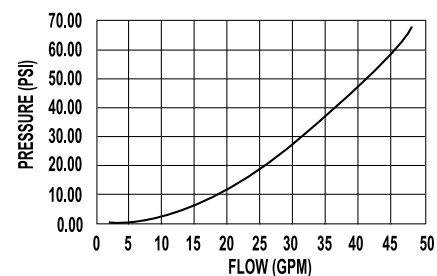
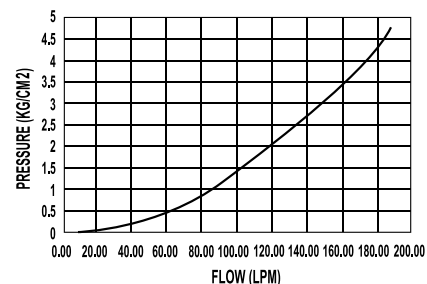
- ◆ **UL listed** for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com.
- ◆ **Easier Hose Movement** – filling the vehicle is much easier, because hoses do not kink and are much freer to move.
- ◆ **Improved Wear** – reduces stress and wear on hoses.
- ◆ **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.

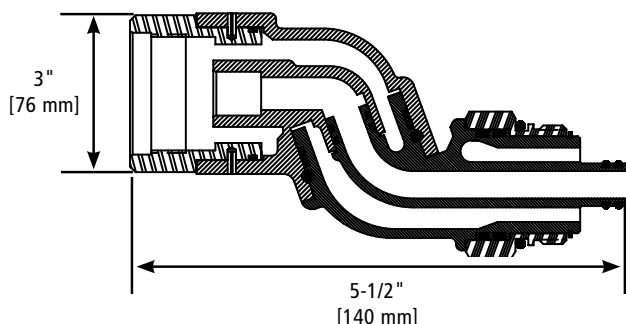
OPW MFVA Inverted Swivel

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 |



**Listings and
Certifications**

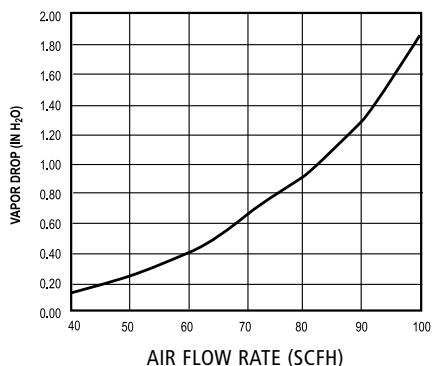


CARB

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OPW 66ISB Vacuum-Assist Stage II Vapor Recovery Reconnectable 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

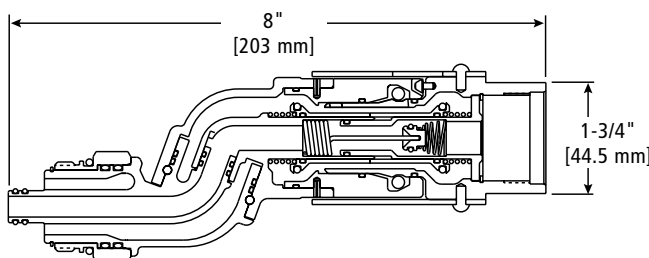
- ◆ UL and ULC listed for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com.
- ◆ Breakaway separates at 350 pounds of axial force.
- ◆ 66ISB-5100 comes with vapor poppet.
- ◆ Swivel rotation of 360° in both planes.
- ◆ Push-back reconnect style.
- ◆ 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

| Product # | Threads |
|------------|----------------------|
| 66ISB-5100 | M34 Metric Breakaway |



Listings and Certifications



CARB

California Air Resources Board

CARB Certified and UL Listed Per Standard 567.

Materials

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



66CAS-0300

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.

- ◆ 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

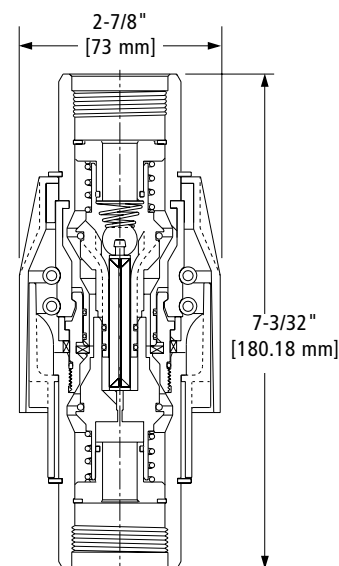
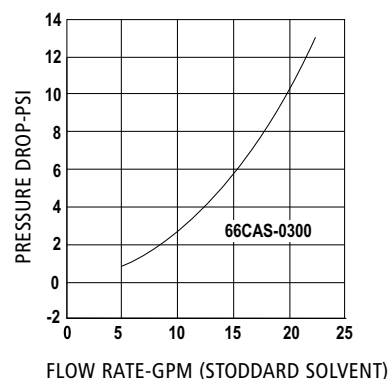
- ◆ Outer sleeve to protect sealing and coupling parts in a driveway.
- ◆ Field-proven, double-poppet design that seals both ends of the product line and the dispenser side of the vapor line in a driveway.
- ◆ Inverted metric coaxial hose fitting for installation into any vacuum-assist dispenser.
- ◆ 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 300 pounds of axial pull force, the OPW 66CAS Breakaway is also designed to handle line shock better than 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.



Ordering Specifications

| Product # | Threads |
|--|----------------------|
| 66CAS-0300 | M34 Metric Breakaway |
| 66CAS Series Instruction Sheet Order Number: H13008M | |

Replacement Parts

| Product # | Threads |
|------------|----------------------|
| 66SRK-1000 | Seal Replacement Kit |

**Listings and
Certifications**

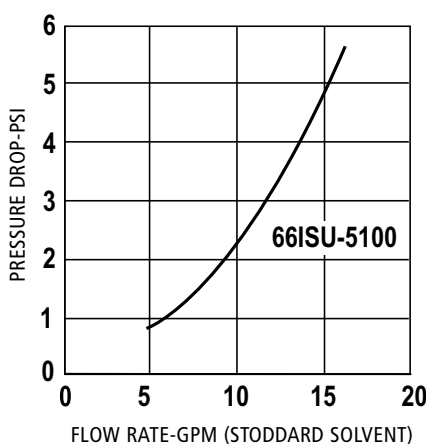


CARB

California Air Resources Board

OPW 66ISU Vacuum-Assist Stage II Vapor Recovery Breakaways

Single use, vapor poppeted Vacuum-Assist Breakaways available. Designed for those who desire single use breakaway protection on vacuum-assist systems. The 66ISU-5100 comes with a vapor poppet which seals the vapor side during separation.



Materials

Body: Aluminum

Main Seals: Viton®

Weight: .53 lbs., 0.24 kg



66ISU-5100

Features

- ◆ UL listed for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com.
- ◆ Separates at 300 pounds of axial force.
- ◆ Disposable, shear-pin design.

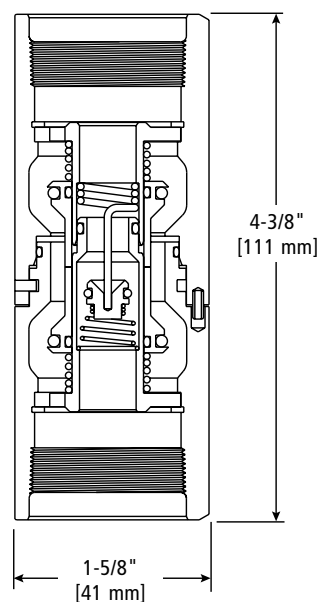
- ◆ Durable, lightweight construction.
- ◆ Minimum vapor pressure drop.

Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure.

Ordering Specifications

| Product # | Threads |
|------------|----------------------|
| 66ISU-5100 | M34 Metric Breakaway |

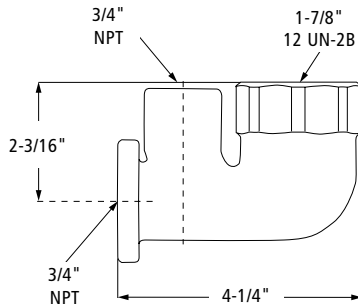


Listings and Certifications



CARB

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Ordering Specifications

| Product # | Description | Application |
|-----------|--|---|
| 38CS-0380 | Adapts Conventional Dispensers to Balance Vapor Recovery | Low-Hose Single and Dual Dispensers; External Mount |

38CS Series Instruction Sheet Order Number: **H10754PA**

Listings and Certifications

CARB
California Air Resources Board

Materials

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



Features

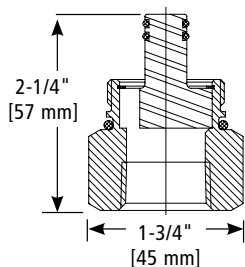
- ◆ Lightweight, maintenance free and easy to install.
- ◆ Adapts M-34 thread to a 3/4" NPT thread.

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

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



Features

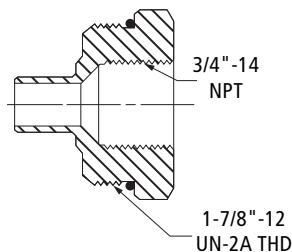
- ◆ Lightweight, maintenance free and easy to install.
- ◆ Adapts 1-7/8 – 12 UN thread to a 3/4" NPT thread

Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure.

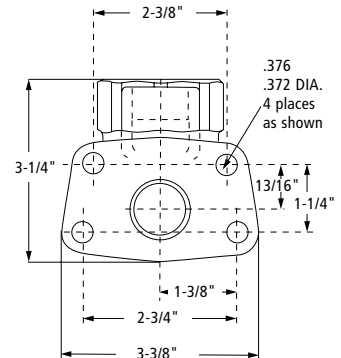
Ordering Specifications

| Part No. | Description |
|----------|--|
| 28C-0028 | Coax Vapor Recovery x 3/4" NPT Bushing |



OPW 38CS Balance Adaptor

OPW's 38CS Balance Adaptor line makes conversion from standard to balance easier and more user-friendly.



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.

Balance Vapor Recovery Hanging Hardware



- Reconnectable Breakaways 179



Materials

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.

Ordering Specifications

Product # Description

66CLP-5100 Vapor Poppeted Reconnectable Balance Breakaway

66CLP Instruction Sheet Order Number: **F-70**

Replacement Parts

Product # Description

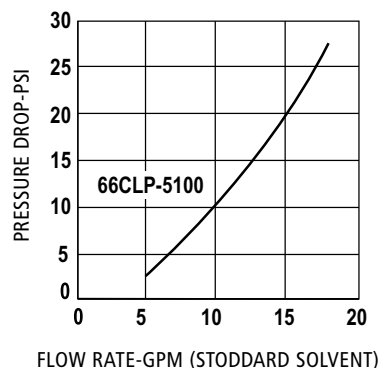
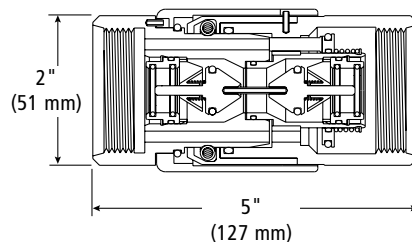
204870 O-ring

204872 Spring

204811 Outer Cover

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.



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

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Industrial Products

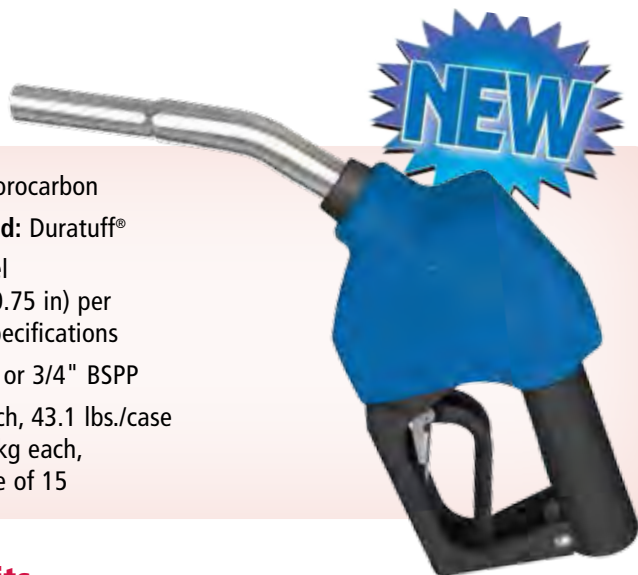


- DEF Nozzle..... 181
- Automatic Nozzles 182
- Overwing Aircraft Nozzles 183-186
- Manual High-Flow Bulk Fill Nozzles 187-191
- Manual Nozzle Accessories..... 192
- Manual Utility Farm Nozzle 193
- Reconnectable Breakaways 194
- Hose Swivels..... 195



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

- ◆ Lowest Overall Cost of Ownership – reliable, long lasting design based on proven OPW quality platform and industry standard-setting technology
- ◆ DEF Compatible – all materials of construction are 100% 3rd party tested and approved for DEF compatibility
- ◆ 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 NEWGARD™ 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

Design Working Pressure

- ◆ 50 PSI (3.45 bar) maximum pressure

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

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.

As the global standard for more than a century, OPW nozzles are built to perform better and last longer* than any other brand to deliver unprecedented peace-of-mind, ROI, and performance. 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.

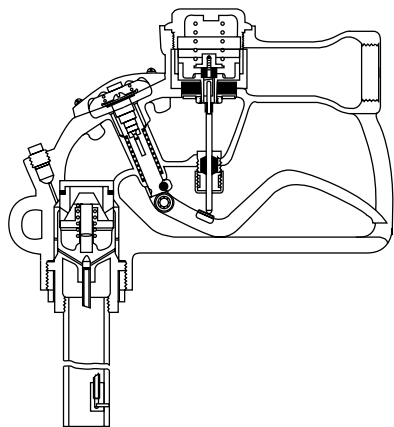
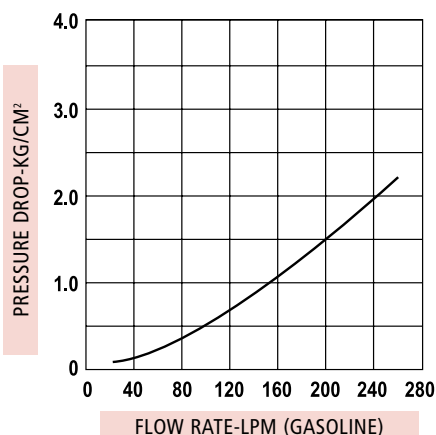
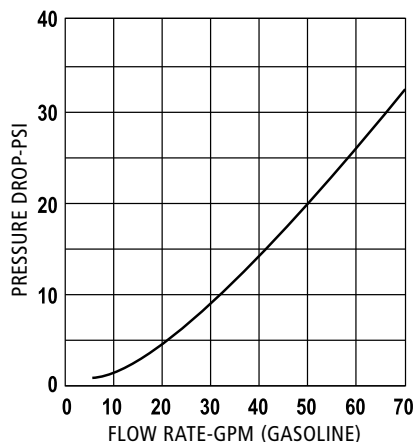
*** OPW internal lab cycle testing results with DEF as of August 2013.**

Ordering Specifications

| Product # | Description |
|---|--|
| 19DEF-0500SS | Nozzle - 19mm spout; 3/4" Female NPT inlet connection, blue hand warmer |
| 19DEF-050LSS | Nozzle - 19mm spout; 3/4" Female BSPP inlet connection, blue hand warmer |
| Hose Adaptors (Sold Separately). | |
| 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 |
| 19DML-0075 | 3/4" MBSPP to 3/4" MBSPP - Connecting nozzle to 3/4" BSPP Female hose |

OPW 1290 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



1290-0050

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.
- ◆ 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 |
| 1290-0055 | Rebuilt | 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)

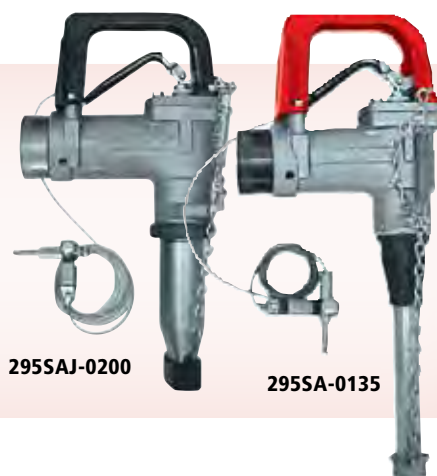
Replacement Spout

| Product # | O.D. | | Length | | Weight | |
|-----------|--------|----|--------|-----|--------|------|
| | in. | mm | in. | mm | lbs. | kg |
| 5D-0125 | 1 3/8" | 35 | 8 1/2" | 215 | 1.5 | 0.68 |
| 5D-0180 | 1 3/8" | 35 | 18" | 482 | 2 | 0.90 |

1290 Series Instruction Sheet Order Number: **H09238PA**

Materials

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



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.
- ◆ Easily replaced spout – the spout is easily threaded into the body. Replacement spouts are readily available from OPW.
- ◆ Built-In Swivel – eliminates twisting and kinking of the hose. This swivel is electroless nickel-plated and has full-bearing surfaces.
- ◆ NPT Female Threads at Inlet End of 295SA – accepts all 1", 1-1/4" or 1-1/2" male connections.
- ◆ NPT Female Threads At Inlet End Of 295SAJ – accepts all 1-1/2" male connections.
- ◆ Unique Jet Aircraft Spout Design of 295SAJ – to help prevent inadvertent fueling of piston engine aircraft with turbine fuel.
- ◆ Ground Wire Assembly – included on all aviation nozzles.

Design working pressure

- ◆ 110 psi (7.58 bar) maximum pressure

Level Guard Replacement Kits

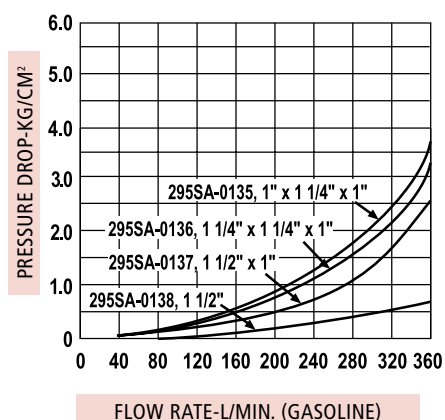
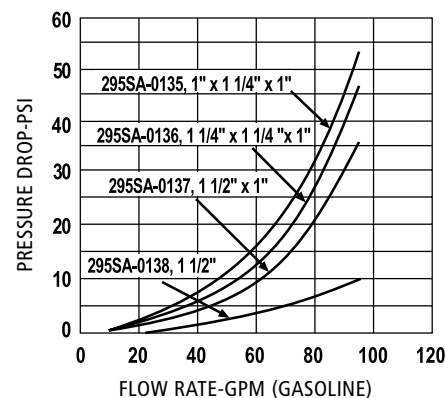
| Product # | Nozzle |
|-------------|---|
| 295KLG-0300 | 295SA-0135, 0136, 0137, 295SAC-0156, 0157 Red |
| 295KLG-0350 | 295SA-0138, 275SAC-0158 Red |
| 295KLG-0400 | 295SAJ-0200, 295SACJ-0200 Black |

All lever guard kits include new lever sub-assembly.
 295 Series Instruction Sheet Order Number: **H09237PA**

Overwing Aircraft Nozzles

295SA – AVGAS

295SAJ – Jet Fuel



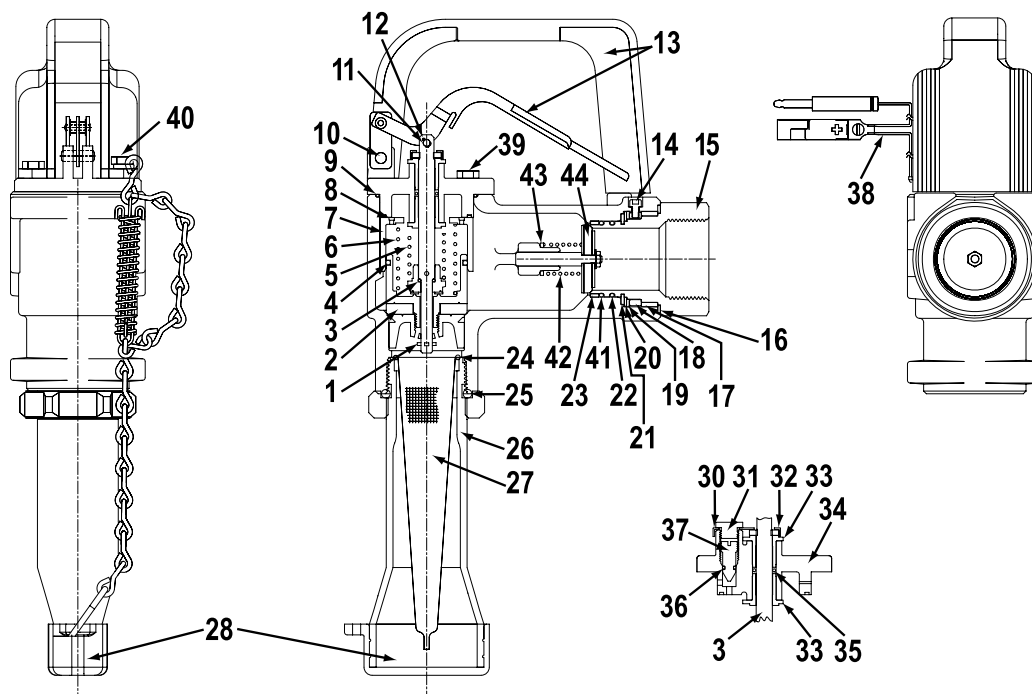
Ordering Specifications

| Product # | Inlet Thread | | | Spout O.D | | |
|---------------|--------------|----|------|-----------|-----|----|
| | in. | mm | lbs. | kg | in. | mm |
| 295SA-0135 | 1 | 25 | 4.60 | 2.10 | 1 | 25 |
| 295SA-0136 | 1¼ | 32 | 4.50 | 2.00 | 1 | 25 |
| 295SA-0137 | 1½ | 38 | 4.50 | 2.00 | 1 | 25 |
| 295SA-0138 | 1½ | 38 | 5.10 | 2.30 | 1⅝ | 41 |
| 295SAJ-0200 | 1½ | 38 | 5.60 | 2.50 | 2⅔ | 54 |
| 295SAC-0156* | 1¼ | 32 | 4.50 | 2.00 | 1 | 25 |
| 295SAC-0157* | 1½ | 38 | 4.50 | 2.00 | 1 | 25 |
| 295SAC-0158* | 1½ | 38 | 5.15 | 2.30 | 1⅝ | 41 |
| 295SACJ-0200* | 1½ | 38 | 5.65 | 2.60 | 2⅔ | 54 |

*Check Valve

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 295SA/295SAC & 295SAJ



| Key | Part # | Description | 295SA-0135 inlet/ spout 1" x 1" | 295SA-0136 & 295SAC-0156 inlet/ spout 1 1/4" 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 & 295SAJ-0200 inlet/ spout 1 1/2" x 1 1/2" |
|-----|-------------|---------------------|------------------------------------|---|---|---|--|
| 1 | H02477M | Cotter Pin | • | • | • | • | • |
| 2 | H07719 | Main Poppet S/A | • | • | • | • | • |
| 3 | H09420 | Stem & Sec. Poppet | | | | • | • |
| 3 | H09417 | Stem & Sec. Poppet | • | • | • | | |
| 4 | H12706M | O-Ring | • | • | • | • | • |
| 5 | H09367M | Spring | • | • | • | • | • |
| 6 | H05064M | Spring | • | • | • | • | • |
| 7 | H05088M | Skirt | • | • | • | • | • |
| 8 | H05198M | Seal | • | • | • | • | • |
| 9 | H04828M | Seal | • | • | • | • | • |
| 10 | H03981RE | Pin | • | • | • | • | • |
| 11 | H05000M | Cotter Pin | • | • | • | • | • |
| 12 | H07580M | Rivet | • | • | • | • | • |
| 13 | 295KLG-0300 | Lever Guard Kit* | • | • | • | | |
| 13 | 295KLG-0350 | Lever Guard Kit* | | | | • | |
| 13 | 295KLG-0400 | Lever Guard Kit* | | | | | • |
| 14 | H13774M | Screw (3 req'd)* | • | • | • | • | • |
| 15 | 295SWK-0007 | Swivel Repair Kit** | • | | | | |
| 15 | 295SWK-0009 | Swivel Repair Kit** | | • | | | |
| 15 | 295SWK-0014 | Swivel Repair Kit** | | | | • | • |
| 15 | 295SWK-0013 | Swivel Repair Kit** | | | • | | |
| 16 | H08886M | Dust Seal | | | | • | • |
| 16 | H01227M | Dust Seal | • | • | • | | |
| 17 | H08887M | Bearing | | | | • | • |
| 17 | H08879M | Bearing | • | • | • | | |
| 18 | H09713RS | Retainer | | | | • | • |
| 18 | H09712RS | Retainer | • | • | • | | |

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

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

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

| Key | Part # | Description | 295SA-0135 inlet/ spout 1" x 1" | 295SA-0136 & 295SAC- 0156 inlet/spout 1 1/4" 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 | 190S-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 | Cap | | | | • | • |
| 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® | • | • | • | | |

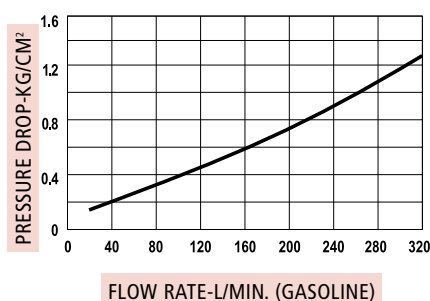
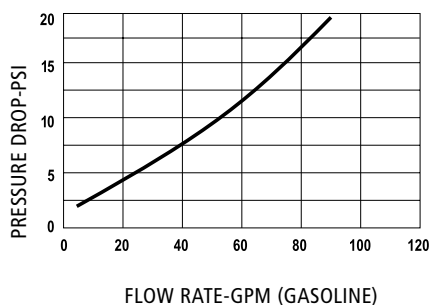
** Body Cap sub-assembly includes parts 30-37.

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 Aircraft Nozzles

For Overwing Aircraft Service



Replacement Parts

| Part # | Description |
|------------|---------------------------------|
| 153AF-0100 | 100 Mesh Strainer |
| 190WF-8002 | Ground Wire S/A w/ Dust Cap |
| C03420AG | 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 Thread | | | |
|------------|--------------|----|------|------|
| | 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**

Materials

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 192)

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.

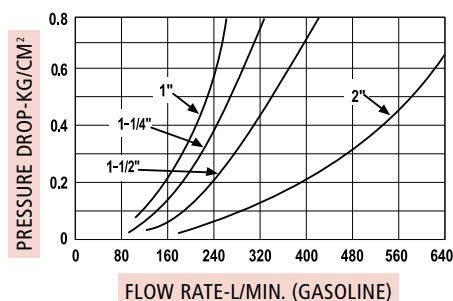
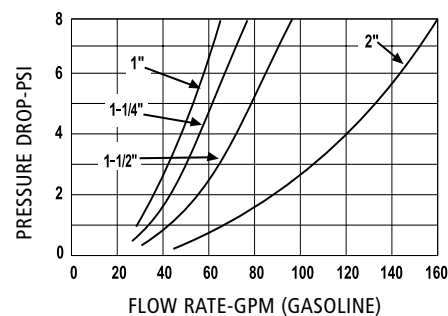
Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure

OPW 190 High-Flow 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.



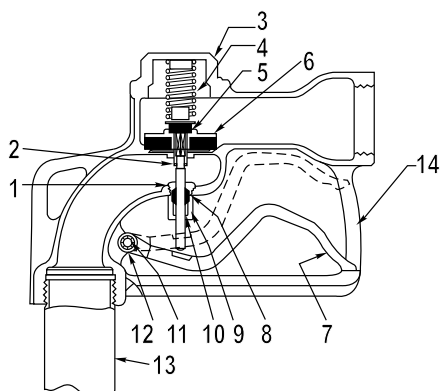
Ordering Specifications

| Product # | Inlet Thread | | Spout Diameter | | lbs. | kg |
|-----------|--------------|----|----------------|----|------|-----|
| | in. | mm | in. | mm | | |
| 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 | Cap | • | • | • | | |
| 3 | H09601AH | Cap | | | | • | |
| 3 | H11592AH | Cap | | | | | • |
| 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 Shown | | | | | | | |
| | 296CA-4000 | Dust Cap | | | | | • |
| | 153-0910 | Strainer | | | | | • |

Materials

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



295SC-0141
 (Spout optional, see Page 192)

Features

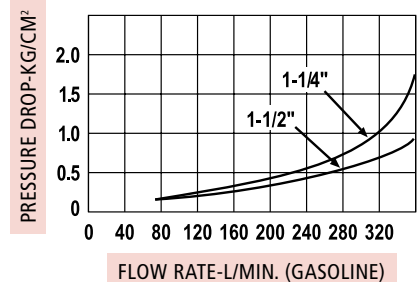
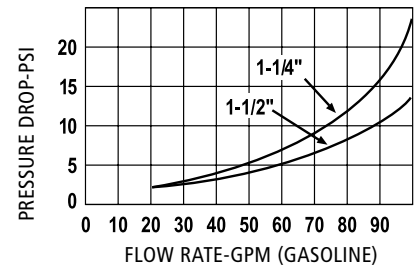
- ◆ Aluminum Body – lighter weight, easier to maneuver.
- ◆ Dual Poppets – easy-to-open nozzle against high inlet pressures.
- ◆ Replacement Hold-Open Rack – one-hand control of hold-open mechanism means easy setting of flow speed. Nozzle must be attended at all times during usage.
- ◆ Replaceable Composite 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 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 |

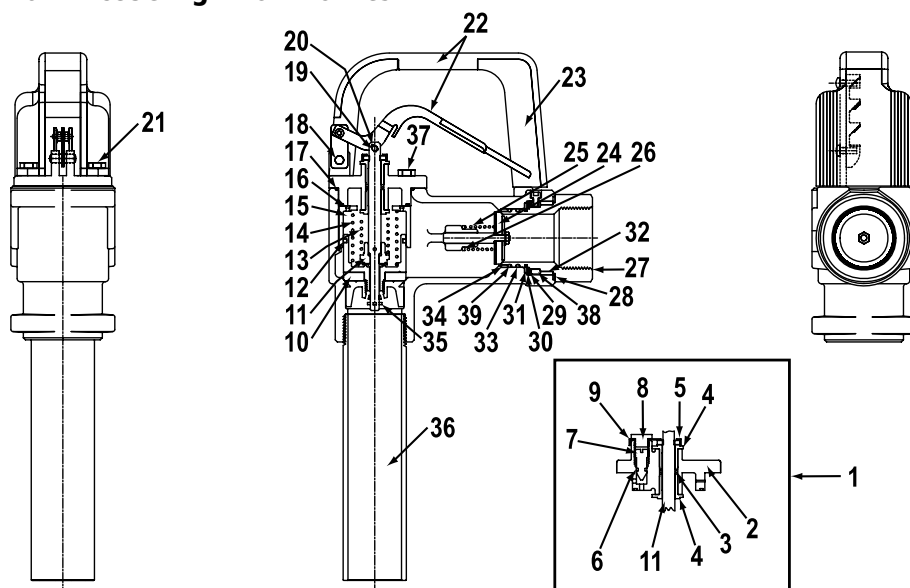
295 Series Instruction Sheet Order Number:
H09237PA

Ordering Specifications

| Product # | Inlet Thread | | | |
|------------|--------------|----|------|-----|
| | 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



| 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 | Cap | • | |
| 2 | C02117A | Cap | | • |
| 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 | 1 1/2" 11 1/2" 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® | • | |

* Replacement part for nozzles built after 08/1998.

Parts are unavailable for nozzles built prior to this date.

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

Materials

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 192)

Features

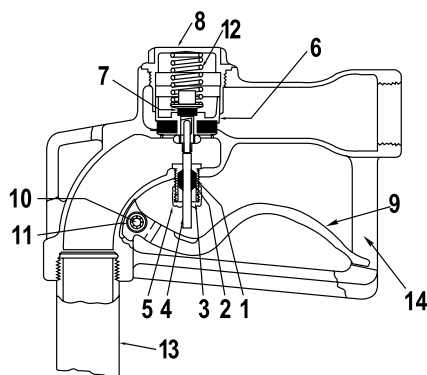
- ◆ Aluminum Body – lighter weight, easier to maneuver.
- ◆ Dual Poppets – allows for low-flow metering.
- ◆ Replaceable Hold-Open Rack – for use when fueling large-capacity tanks. Nozzle must be attended at all times during usage.
- ◆ Dash Pot – non-adjustable, to minimize closing line shock.
- ◆ Right 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 1 1/4" and 1 1/2" male connections.

Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure

Ordering Specifications

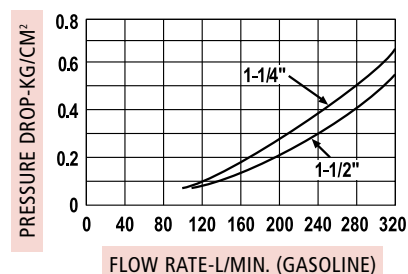
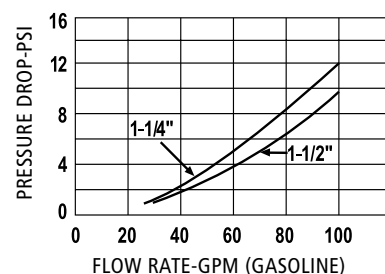
| Product # | in. | mm | lbs. | kg |
|-----------|--------|----|------|-----|
| 210-0104 | 1 1/4" | 32 | 3.95 | 1.8 |
| 210-0105 | 1 1/2" | 38 | 4.40 | 2.0 |



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 Nozzles

For High-Flow, Bulk Fuel Oil Delivery Service



Replacement Parts

| Key | Part # | Description |
|-----|-----------|------------------------------------|
| 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 | Cap |
| 9 | H00999M | Lever |
| 10 | H08165RE | Pin |
| 11 | H08163M | Push Nut (2 required) |
| 12 | H00136M | Spring |
| 13 | 297-9020 | Spout (optional) - 1 1/4" aluminum |
| 13 | 297-9030 | Spout (optional) - 1 1/2" aluminum |
| 13 | 296-0040 | Spout (optional) - 1 1/4" brass |
| 13 | 296-0060 | Spout (optional) - 1 1/2" 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

Cable: Steel

Ground Plug:
Stainless steel



190WM-8001

Ordering Specifications

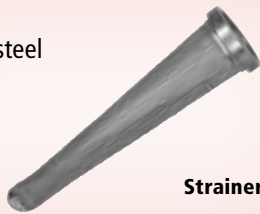
| Product # | Length | | Used On |
|------------|--------|------|---------|
| | ft. | m | |
| 190WM-8001 | 6' | 1.83 | 295SA |
| 190WF-8002 | 6' | 1.83 | 295AF |

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.

Materials

Screen:
Stainless steel



Strainer

Ordering Specifications

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

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.

Materials

Body: Anodized
Aluminum

Spring: Bronze

Stem: Bronze

Disc: Buna-N



296CA

Body: Rubber

Spring: Bronze

Stem: Bronze

Disc: Buna-N



296CJ

Ordering Specifications

| Product # | Size | | Spout | Used On |
|------------|--------|----|--------------|----------------|
| | in. | mm | | |
| 296CA-4000 | 1 5/8" | 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 |

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.

Spouts Ordering Specifications

| Product # | Size | | O.D. | | Length | | Weight | | Used On | Description |
|------------|--------------|----|---------|----|--------|-----|--------|------|--|-------------|
| | in. | mm | in. | mm | in. | mm | lbs. | kg | | |
| 296-0040 | 1 1/4 (NPT) | 32 | 1 3/8 | 35 | 9 | 229 | 0.90 | 0.41 | 190-0113; 210-0104; 190-0112 | Brass |
| 296-0060 | 1 1/2 (NPT) | 38 | 1 3/8 | 35 | 9 | 229 | 0.98 | 0.45 | 190-0114; 210-0105 | Brass |
| 296-0080 | 1 1/2 (NPT) | 38 | 1 3/8 | 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 | 1 1/2 (NPT) | 38 | 1 29/32 | 48 | 8 | 203 | 0.60 | 0.27 | 190-0114; 210-0105; 295SC-0141 | Aluminum |
| 297-9040 | 2 (NPT) | 51 | 2 3/8 | 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 3/8 | 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 |



OPW 296



OPW 297



OPW 297SA (9050)



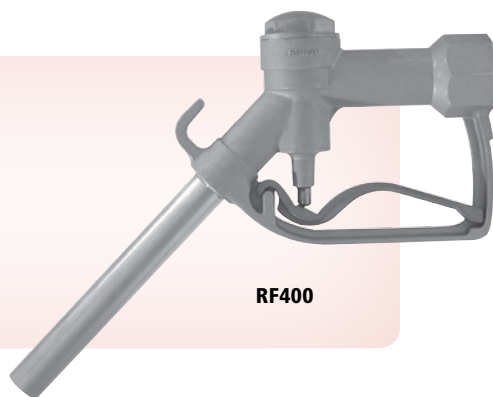
OPW 297SA (9060)



OPW 696J

Materials

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



Features

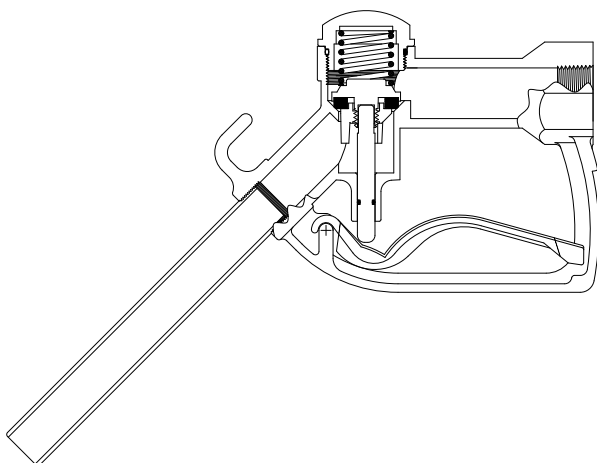
- ◆ UL listed for use in gasoline, diesel and up to 10% ethanol blends. Specific listings available at www.opwglobal.com
- ◆ Manual Nozzle – no automatic shut-off.
- ◆ Built in hanger for quick use in field.

Design working pressure

- ◆ 50 psi (3.45 bar) maximum pressure

Ordering Specifications

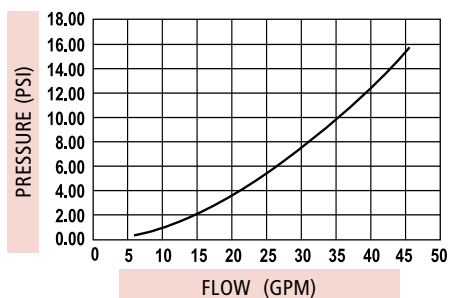
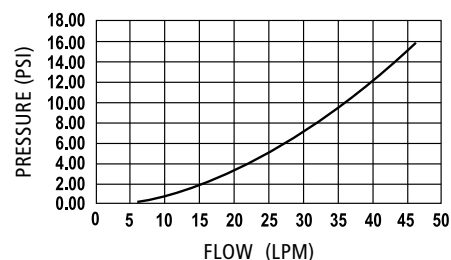
| Product # | Description | Inlet Thread | | Spout Diameter | |
|-----------|----------------------|--------------|----|----------------|----|
| | | in. | mm | in. | mm |
| RF400-75 | 3/4", leaded spout | 3/4 | 19 | 1 5/16 | 23 |
| RF400-75P | 3/4", unleaded spout | 3/4 | 19 | 1 3/16 | 20 |
| RF400-10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



OPW RF400 Manual Utility Farm Nozzle

For General Utility Farm Usage

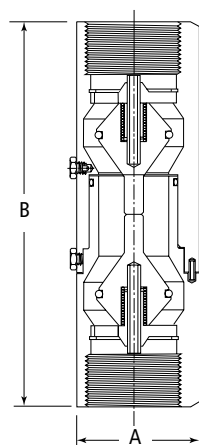
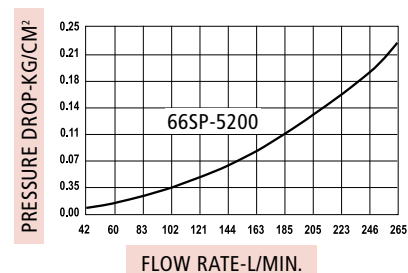
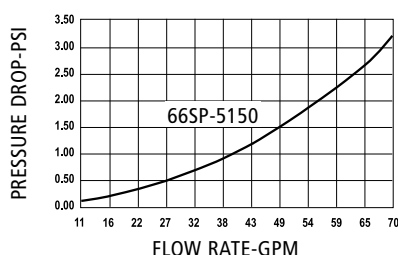
The OPW RF400 nozzle is designed for use in non retail, commercial, industrial and agriculture use where an automatic nozzle is not needed.



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.



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



66SP-5200



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, red, anodized-aluminum 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 # | Inlet Thread | Weight | | A | | B | |
|-----------|--------------|--------|------|--------|----|--------|-----|
| | | lbs. | kg | in. | mm | in. | mm |
| 66SP-5150 | 1 1/2" (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**

Listings and Certifications



Materials

Body: Aluminum

Adaptor: Zinc
Aluminum

Seals: Buna-N O-Ring,
Viton® O-Ring

Bearings: Nylon  UL Listed MH4542



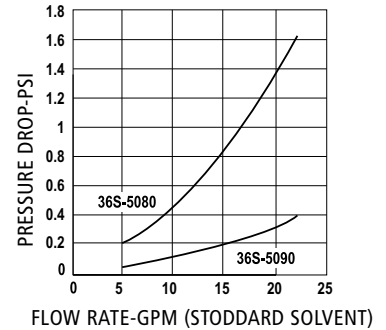
36S-5080

Ordering Specifications

| Product Number | Inlet Thread x Outlet Thread | lbs. | kg |
|----------------|---------------------------------------|------|------|
| 36S-5080 | 3/4" M x 3/4" F (NPT) (19 mm x 19 mm) | 0.30 | 0.14 |
| 36S-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.



Materials

Body: Electroless nickel-plated

Bearings: Molded plastic

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



25-0110

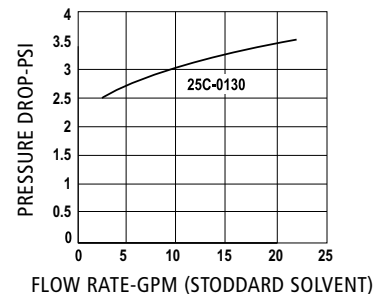
Ordering Specifications

| Product # | Inlet Thread | | Weight | |
|-----------|--------------|----|--------|-----|
| | 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 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.



OPW 2" Single-Plane Hose Swivel

Durable brass construction with high flow rate.

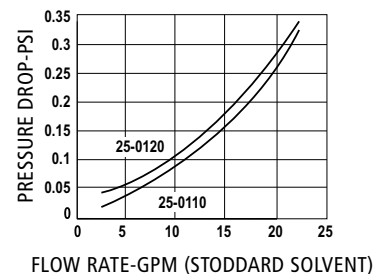
Materials

Body: Brass

Seals: Buna-N O-Rings



| Product # | in. | mm | lbs. | kg |
|-----------|-----|------|------|-----|
| 2-0055 | 2 | 50.8 | 1 | .45 |



Materials

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", 1 1/4" NPT |
| 295SRK-0002 | 25 and 295 Series 1 1/2" 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.

Hose Retractors



- Spring Balance Hose Retractors..... 197 - 199
- Counterweight Hose Retractors..... 200



Materials

Housing: Cast aluminum

Cable: Black polyester

Post: Aluminum



Nozzle Hook
and Hood Kit Not
Sold by OPW.

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 POMEKO 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

POMEKO 102 Spring Balance Single Hose Retractors

POMEKO 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 POMEKO 102 is a California Air Resources Board (CARB) certified Stage II component for use with single and dual hose dispensers as per Executive Order G-70-52-AM.



Post Mounted

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 | |
|--------------|-----------------------------|---------------------------|--------|-----|
| | | | 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 Number | Description | Mounting Method | Clamp Fits | | | | Weight | |
|--------------|--|---------------------------------|---------------------------|----|--------------|----------|--------|-----|
| | | | Hose O.D. | | Hose I.D. | | lbs. | kg |
| | | | in. | mm | in. | mm | | |
| 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 | 1 3/8" | 35 | 1" | 25 | 7 | 3.2 |
| 6102-6000 | | Overhead Crossbar | 1 1/2" | 26 | 5/8" or 3/4" | 16 or 19 | 7 | 3.2 |
| 6102-8000 | | Overhead Crossbar | 1" | 25 | 5/8" | 16 | 7 | 3.2 |

*POMECO recommends using C05238M, C05261M or P100-3F/P100-44/P100-2AST for use with 102 Series retractors.
Other size tubes and clamps available upon request.



Hose Clamp

Ordering Specifications

Hose Clamps

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

† Other sizes available upon request

Options Replacement Parts

| Model Number | Hose Clamp Size |
|-------------------|-------------------------------------|
| C05238M | Post Kit, 39" (99 cm), 1 1/8" x 2" |
| C05261M | Post Kit, 78" (198 cm), 1 1/8" 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) |

Materials

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

| Model Number | Manufacturer/Dispenser | Hoses Per Side*** | Weight | |
|--------------|-----------------------------|-------------------|--------|------|
| | | | 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

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

Options Replacement Parts

| Model Number | Hose Clamp Size | Model Number | Hose Clamp Size |
|--------------|---------------------------|------------------|----------------------------|
| H15210M | Replacement Cable Guide | H15265M (P102-2) | Sliding Bracket |
| H15212M | Replacement Cable -10 ft. | C05239M | Foot (Bottom) |
| H15211M | Replacement Reel | D02628M | Bracket Only for 06102-DW3 |
| D02147M | Replacement Housing | 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-1396 | Standard 1 3/8" O.D. Hose (1" I.D.) |
| PB-1394 | Standard 1 1/8" O.D. Hose (3/4" I.D.) |
| PB-1375 | Standard 1 1/2" O.D. Hose (5/8" or 3/4" I.D.) |
| PB-1373 | Standard 1" O.D. Hose (5/8" I.D.) |
| PB-1344 | Balanced Coaxial, Goodyear Premier |

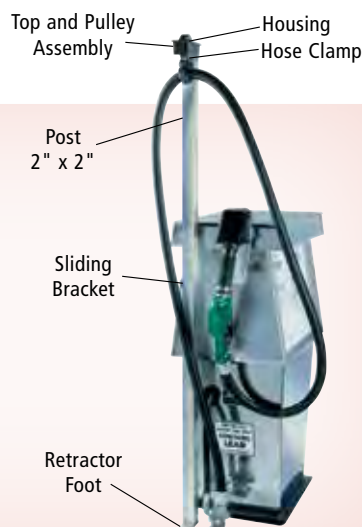
† Other sizes available upon request

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

Housing:
Impact-resistant plastic
Cable: Black polyester
Post: Aluminum (2" x 2")



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.
- ◆ 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.

Ordering Specifications

Conventional and Vapor Recovery Applications

| Model # | Hose Configuration | Hose Length | | Clamp Fits | | Hose I.D. | | Height | | Weight | |
|-----------|----------------------|-------------|-----------|---------------------------|----|------------|----------|--------|-----|--------|------|
| | | | | Hose O.D. | | | | | | | |
| | | ft. | m | in. | mm | in. | mm | in. | cm | lbs. | kg |
| 6100-4000 | Conventional | 12-14 | 3.7 - 4.3 | 1 3/8 | 35 | 1 | 25 | 79 | 201 | 33 | 15.0 |
| 6100-5000 | Conventional | 15-18 | 4.6 - 5.5 | 1 3/8 | 35 | 1 | 25 | 92 | 234 | 38 | 17.2 |
| 6100-6000 | Conventional | 12-14 | 3.7 - 4.3 | 1 1/2 | 26 | 5/8 or 3/4 | 16 or 19 | 79 | 201 | 30 | 13.6 |
| 6100-7000 | Conventional | 15-20 | 4.6 - 6.1 | 1 1/2 | 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 | 11.8 |
| 6100-AGBR | Coaxial w/ Breakaway | 11-13 | 3.4 - 4.0 | (Hose Clamp Not Included) | | | | 79 | 201 | 31 | 14.1 |

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

See page 199 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 |
| P338SP00L | Replacement Cable Spool, 338 ft. of wire |
| H15210M | Cable Guide |
| H13588M | Retaining Ring |