

## 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   |

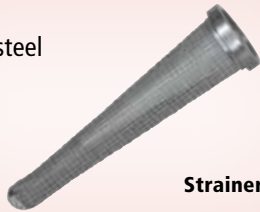
## Manual Nozzle Accessories OPW 190 Ground Wire

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 #  | in.    | mm | Used On                  |
|------------|--------|----|--------------------------|
| 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

Body: Rubber

Spring: Bronze

Stem: Bronze

Disc: Buna-N



296CA



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                   | 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 5/8   | 41 | 9      | 229 | 1.05   | 0.48 | 190-0114; 210-0105                   | Brass       |
| 297-9020   | 1 1/4 (NPT)  | 32 | 1 21/32 | 42 | 8      | 203 | 0.50   | 0.23 | 190-0113; 210-0104; 295SC-0139       | 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 5/8   | 41 | 7      | 178 | 0.80   | 0.36 | 295SA-0138, 295SAC-0157, 295SAC-0158 | Aluminum    |
| 696J-7010  | 1 1/2 (NPSM) | 38 | 2 2/5   | 54 | 7 1/4  | 184 | 0.80   | 0.36 | 295SAJ-0200                          | Aluminum    |



OPW 296



OPW 297



OPW 297SA (9050)



OPW 297SA (9060)



OPW 696J