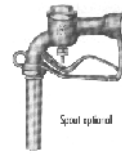


OPW 2190 MANUAL NOZZLE

For Chemical Service

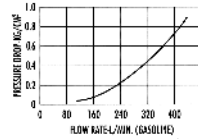
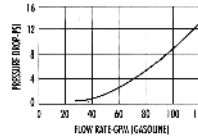
- Aluminum body - lighter weight, easier to maneuver.
- Dual poppets easy to open nozzle against high inlet pressures.
- Four position hold-opened device - one hand control of hold-open mechanism means easy setting of flow speed. Nozzle must be attended at all times during usage.
- Right angle design - provides larger lever area for better grip and easier control; permits nozzle to fit into awkward space 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 1/2" male connections.



Special spout oil

Materials

Body: cast aluminum
Main stem: stainless steel
Packing: Teflon[®] impregnated esbaces
Disc: Teflon[®]
Spout: aluminum (optional - OPW 297)

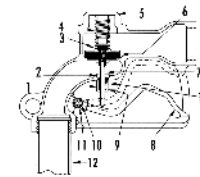


Ordering Specifications

Product No.	in.	mm.	lbs.	kg.
2190-0040	1 1/2"	38	2.5	1.1

Replacement Parts

Key	Part No.	Description
1	H-00113-RA	Packing Nut
2	H-07011-RA	Stuffing Box
3	H-09665	Upper Disc S/A
4	H-07214-M	Spring
5	H-09600-A	Cap
6	H-09666	Lower Disc S/A
7	H-11975-RE	Stem
8	H-04594-A	Lever
9	H-07012-M	Packing Gland
10	H-08164-RE	Pin
11	H-08163-M	Pushnut
12	297-9030	Spout (optional)
13	H-00714-M	Packing



OPW 295 SA & SAJ AIRCRAFT NOZZLES

For Overwing Aircraft Service

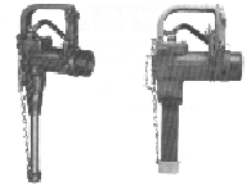
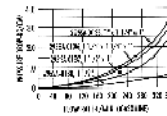
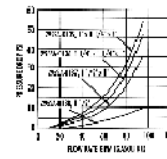
- Aluminum body - lighter weight, easier to maneuver.
- Dual poppets - easy to open nozzle against high inlet pressures.
- Replaceable lever guard - easy, low cost replacement should the guard be broken.
- Right angle design - provides larger lever area for better grip and easier control.
- Vinyl coated 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 rates over a wide range of flows to overcome line shock with minimum after flow.
- Easily replaced spout - the spout is simply threaded into the body. Replacement spouts are readily available from OPW.
- Built-in swivel - eliminates twisting and kinking of the hose. This swivel is hard coated aluminum 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. This special spout is designed to GAMA specifications.

Materials

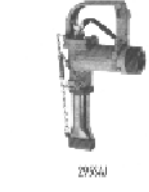
Body: cast aluminum
Main stem: stainless steel
Spout: 302 stainless steel
Disc: brass
Spout: aluminum

Ordering Specifications

Product No.	in.	mm.	lbs.	kg.
295SA 3125	1"	25	4.60	2.10
295SA 3126	1 1/4"	32	4.90	2.20
295SA 3127	1 1/2"	38	5.30	2.40
295SA 3128	1 3/4"	44	5.70	2.60
295SA 3129	1 7/8"	48	6.10	2.80



295SA 295SAJ 1 1/2" x 1 1/2"



295SAJ

Fiberglass Pipes

DUALOY 3000/L

Dualoy 3000/L from Ameron is the best UL-listed piping available for underground fuel system construction and rehabilitation. Manufactured from chemically inert materials, Dualoy 3000/L fiberglass pipe and fittings resist external corrosion far better than cathodically protected steel. The Dualoy 3000/L liner delivers features and performance no other UL-listed piping system can offer. Resilient and holiday-free, the flexible inner liner is an added layer of protection inside the structural pipe wall. Competitive fiberglass pipe has no liner.

Galvanized steel pipe can descale when exposed to modern no-lead fuels. The inert Dualoy 3000/L liner remains intact throughout the service life of the system, protecting downstream strainers and pumps while maintaining product purity.

Lightweight and easy to handle, Dualoy 3000/L with its simple, threadless adhesive joint can be installed in less than half the time needed for steel. The result is lower initial installed cost and a maintenance-free corrosion resistant piping system with a service life much longer than steel.

Inert to external corrosion

Dualoy 3000/L piping is electrically nonconductive and never requires cathodic protection. Installed systems are immune to external corrosion from stray-current electrolysis and cathodic interference. They are unaffected by alkaline or acidic soil conditions. Installation, inspection and maintenance of costly impressed-current systems and sacrificial anodes are permanently eliminated.



Excellent flow characteristics
The superior flow characteristics of fiberglass pipe are now more important than ever because of the high pressure drop through today's multiple product dispensers. Because of its smooth inner liner, Dualoy 3000/L maintains a high Hazen-Williams coefficient of 150 throughout its service life for consistently low pressure drop.

