



The Legend Continues...

OPW 11A & 11B
Series Nozzles

**FIRST to Meet NEW
UL 2586 Requirements**

OPW 
A DOVER COMPANY

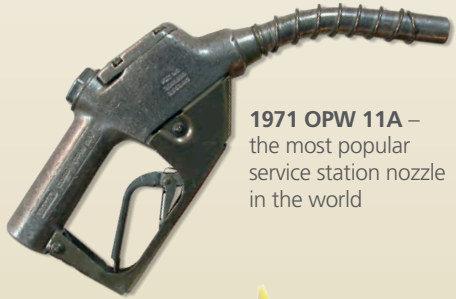
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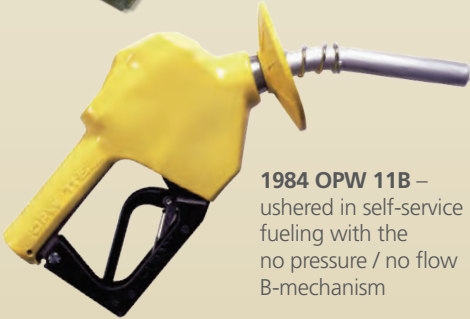
OPW: A Legacy of Innovation, Quality and Performance



1960 OPW 1A – a legendary performer for more than 50 years



1971 OPW 11A – the most popular service station nozzle in the world



1984 OPW 11B – ushered in self-service fueling with the no pressure / no flow B-mechanism

Legendary OPW 11A and 11B nozzles have set the industry standard in nozzle innovation and performance for more than a century. In 1952, OPW patented the design features that were incorporated into the iconic 11A and 11B nozzles – the most trusted automatic shut-off nozzles in the world. And, although the 11A and 11B are recognized as the finest fueling instruments on the planet, we know that fuels and consumer needs continue to evolve, which means our nozzles will, too.

We are on a never-ending mission to provide you the best fueling nozzles no matter what the fuel or compliance requirements. Which is why **OPW is Leading the Way with the first UL 2586 certified nozzles in the industry – compliant with alcohol fuel blends.**

OPW's NEW UL 2586 11A & 11B – the most reliable OPW nozzles ever!
New models available for high content ethanol and bio-diesel blends.*

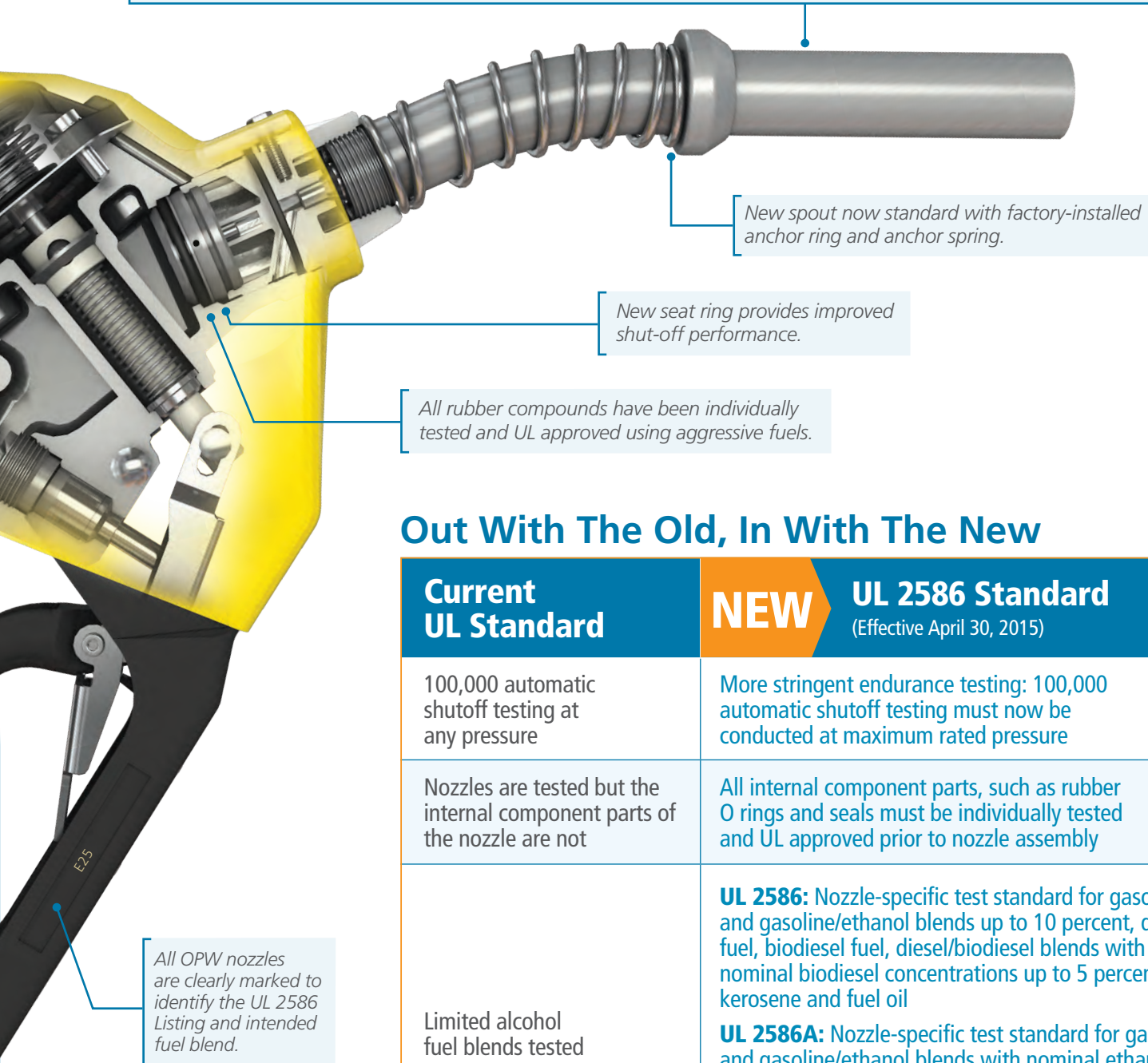
- Aesthetically honed and ergonomically refined design for today's modern consumer
- Years of exhaustive in-laboratory and in-field application experience in the harshest conditions using the most aggressive fuels and additives, equals nozzle performance and reliability unlike any other
- Our engineers begin with the legendary 11A / 11B design platform and innovate from there, leveraging the industry's most sophisticated engineering tools and test facilities to create solutions that exceed the industry's most stringent safety, compliance and performance standards
- Premium-grade materials expertly matched with the industry's most advanced manufacturing processes, techniques and equipment means with OPW nozzles you are well equipped to handle any fuel-dispensing duty



* Contact your OPW representative to learn more about nozzle / fuel compatibility.

New aircraft-grade aluminum spout

- *Unmatched durability: 12% greater deflection-force strength than previous spout design.*
- *The first nozzle spout in the industry compliant with both SAE J285 and ISO 9158 / 9159 global fill pipe standards.*
- *Compatible with ALL vehicle fill pipes and cap-less vehicle fill ports.*



New spout now standard with factory-installed anchor ring and anchor spring.

New seat ring provides improved shut-off performance.

All rubber compounds have been individually tested and UL approved using aggressive fuels.

All OPW nozzles are clearly marked to identify the UL 2586 Listing and intended fuel blend.

Out With The Old, In With The New

| Current UL Standard | NEW UL 2586 Standard (Effective April 30, 2015) |
|---|---|
| 100,000 automatic shutoff testing at any pressure | More stringent endurance testing: 100,000 automatic shutoff testing must now be conducted at maximum rated pressure |
| Nozzles are tested but the internal component parts of the nozzle are not | All internal component parts, such as rubber O rings and seals must be individually tested and UL approved prior to nozzle assembly |
| Limited alcohol fuel blends tested | <p>UL 2586: Nozzle-specific test standard for gasoline and gasoline/ethanol blends up to 10 percent, diesel fuel, biodiesel fuel, diesel/biodiesel blends with nominal biodiesel concentrations up to 5 percent, kerosene and fuel oil</p> <p>UL 2586A: Nozzle-specific test standard for gasoline and gasoline/ethanol blends with nominal ethanol concentrations at 25 percent and 85 percent</p> <p>UL 2586B: Nozzle-specific test standard for diesel fuel, biodiesel fuel, diesel/biodiesel blends with nominal biodiesel concentrations up to 20 percent</p> |
| No UL marking of alcohol or fuel type compatibility | All nozzles must include a UL mark identifying the kind of fuels for which the nozzle is approved for |

OPW UL 2586-Listed 11A & 11B Nozzles Provide You the Most Confident Handshake With Your Customer

Marketers around the world have long recognized the long-term value that OPW nozzles deliver to their businesses. Beginning with their ergonomically designed form and superior functionality to their precision top-off-to-the-penny performance, OPW 11A / 11B nozzles never ask you to compromise reliability, value or brand experience.

Every OPW Nozzle Begins With an Uncompromising Commitment to Quality



Not all nozzles are created equal. There are clearly established quality benchmarks upon which nozzles are considered "quality-built" AND deemed worthy of carrying the OPW brand name.

Nobody tests their nozzles more rigorously than OPW. With an unwavering commitment to continuous quality improvement, we have the largest, most sophisticated testing laboratory in the nozzle industry. We're fully equipped to simulate virtually any field condition AND test our nozzles against the world's most aggressive fuels to ensure that OPW products always exceed every industry compliance requirement and test standard – including the new UL 2586 Requirements.

Every OPW nozzle must endure the following tests to earn the OPW stamp of approval.

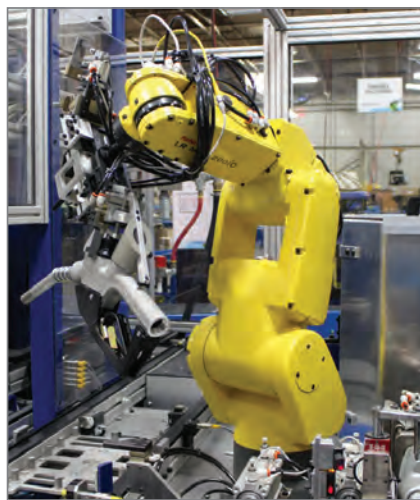
- Shut off reliability test
- No pressure – no flow test
- Premature shut off test
- Pre-pay functionality
- Attitude device operation
- Pressure integrity
- Shut off response time
- Sensitivity (10 click test)
- Spit back requirement
- UL 2586 fuel compatibility
- UL flow requirements
- Line shock durability
- Electrical continuity
- Lever actuation force
- Dispenser compatibility
- Fill pipe compatibility
- UL certified rubber materials
- Life cycle performance
- Drop and drag test
- Main seal integrity
- Spout shear groove performance
- Spout durability
- Hydrostatic compliance

Manufacturing Excellence Through Automation

At OPW, we're *Leading the Way* in nozzle manufacturing and setting a new quality standard with the world's first fully robotic automated nozzle assembly and testing line.

By leveraging highly sophisticated robotic automation technology, we're able to ensure the highest consistency of quality for our UL 2586 Standard 11A and 11B Series Nozzles.

Featuring assembly robots and an advanced precision electronic testing system, our nozzle automation line reduces variations in the assembly process while testing to high-performance levels. This translates into consistently delivering the very best quality nozzles to our customers every time while maintaining superior customer delivery levels.



OPW's fully robotic line with automated nozzle assembly and testing.



To learn more about OPW's complete line-up of UL 2586-listed nozzles, contact your OPW representative, OPW Customer Service at 1-800-422-2525, or visit OPWglobal.com.