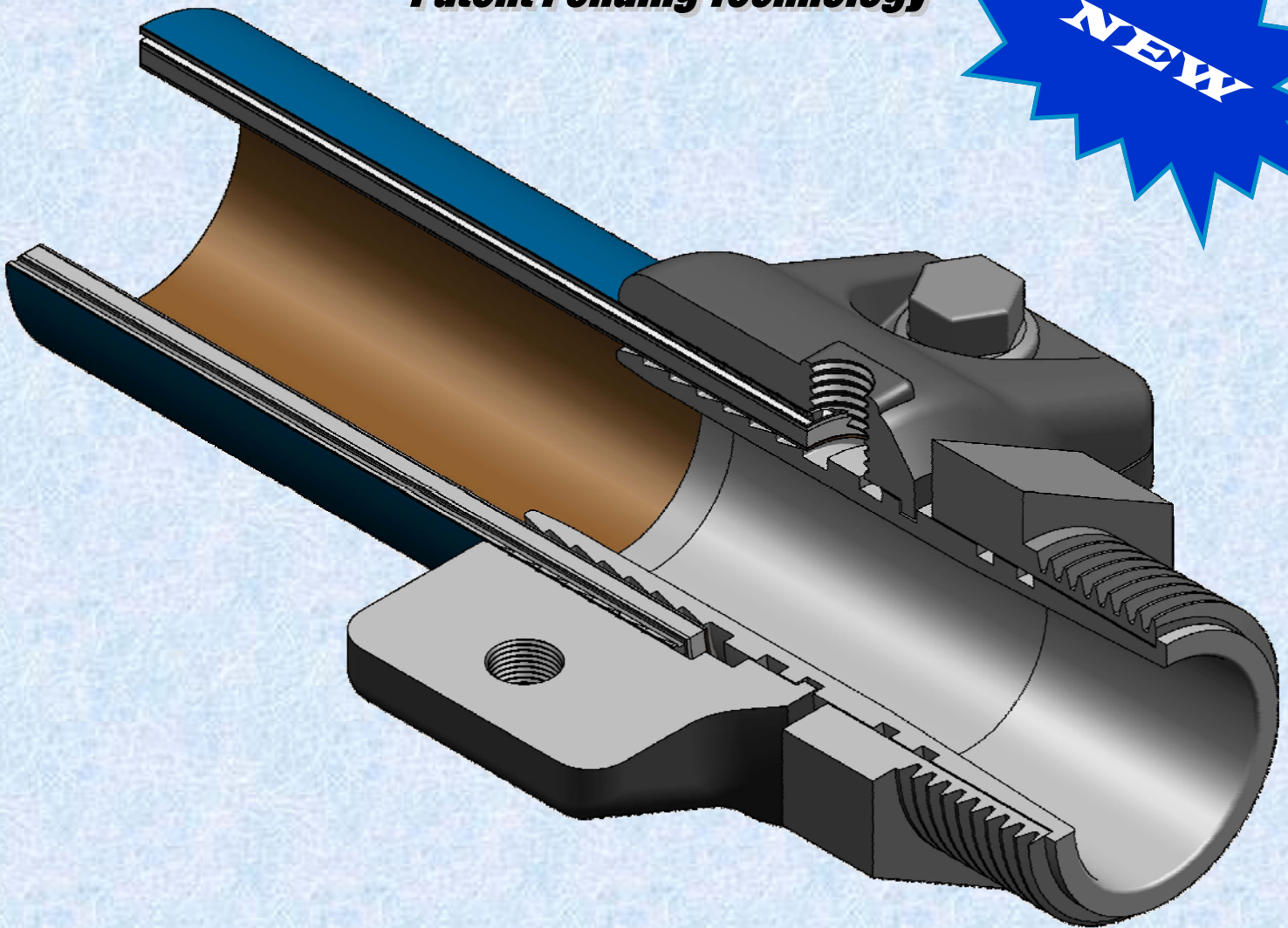




Double Wall Swivel Bolt-On Coupling (SBC)


Technical Data and Market Comparison

State of the Art
Patent Pending Technology



Leading the Way in Fueling Innovation Worldwide

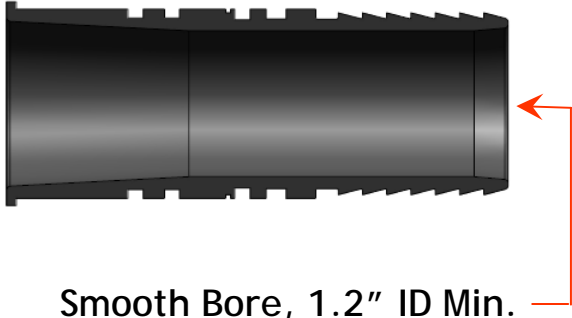
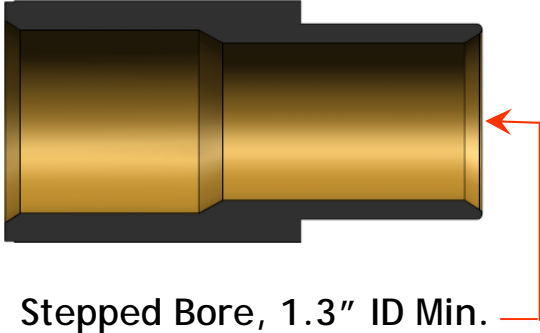




New OPW Double Wall Swivel Bolt-On Coupling (SBC) VS Competitor Coupling

	 SBC 1.5"	Competitor 1.75"
Internal Flow Path Efficiency Comparison (See Data—Page 4)	Constant Internal Diameter Smooth Bore (Laminar Flow)	Variable Internal Diameter Stepped Bore (Turbulent Flow)
Tee / Elbow Size Required	1.5" FNPT (No reducer bushing required)	2" FNPT (Plus 2" to 1.5" reducer bushing for riser pipe)
Trim Pipe Jacket Required	No	Yes
Rubber Test Boots Required	No	Yes
Integral Port to Pipe Interstitial space	1/8" FNPT	None (Test Boot Air Stem)
Future Secondary Jacket Test Capability	Yes	???
Secondary Jacket Continuous Monitoring Capability	Yes	???

New OPW Swivel Bolt-On Coupling (SBC)

VS

Competitor Coupling

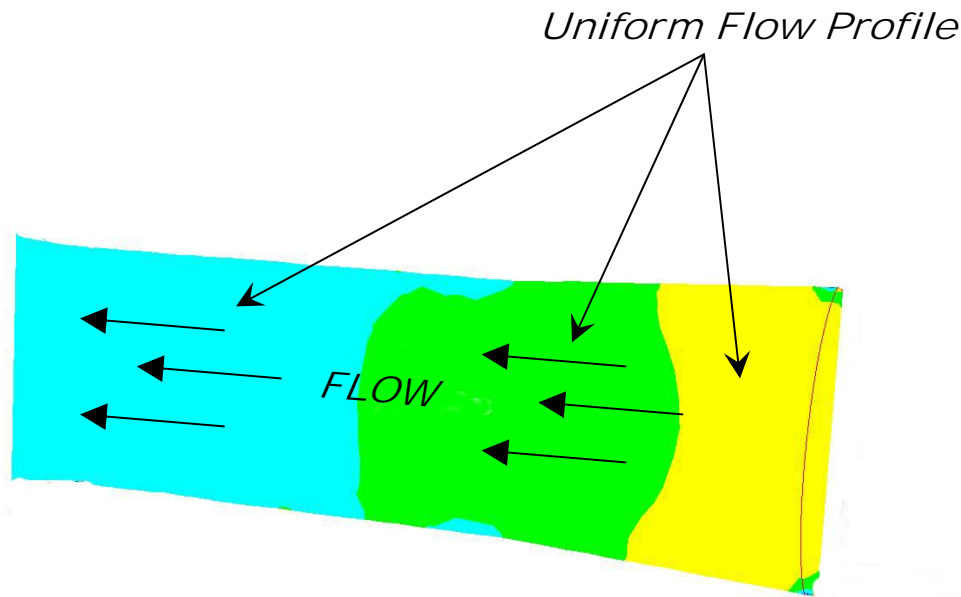
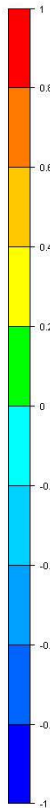
	OPW SBC 1.5" (1.5" MNPT)	Competitor 1.75" (2" MNPT)
Internal Flow Profile	 <p>Smooth Bore, 1.2" ID Min.</p>	 <p>Stepped Bore, 1.3" ID Min.</p>
Clamp Design	<p>Integral Interstitial Port 7 Precision Machined Barbs</p>  <p>E-Coated; Threads Coated</p>	<p>No Interstitial Port (Use Test Boot) 5 Cast Surface Barbs</p>  <p>Painted; Bare Threads</p>
Clamp Bolt	<p>One Piece Serrated Bolt</p>  <p>No Washer—Easy Assembly</p>	 <p>Bolt with Separate Washer</p>

Internal Coupling Pressure Profile Comparison at 40 GPM

OPW Swivel Bolt-On Coupling (SBC) - 1.5"

Static Pressure

+

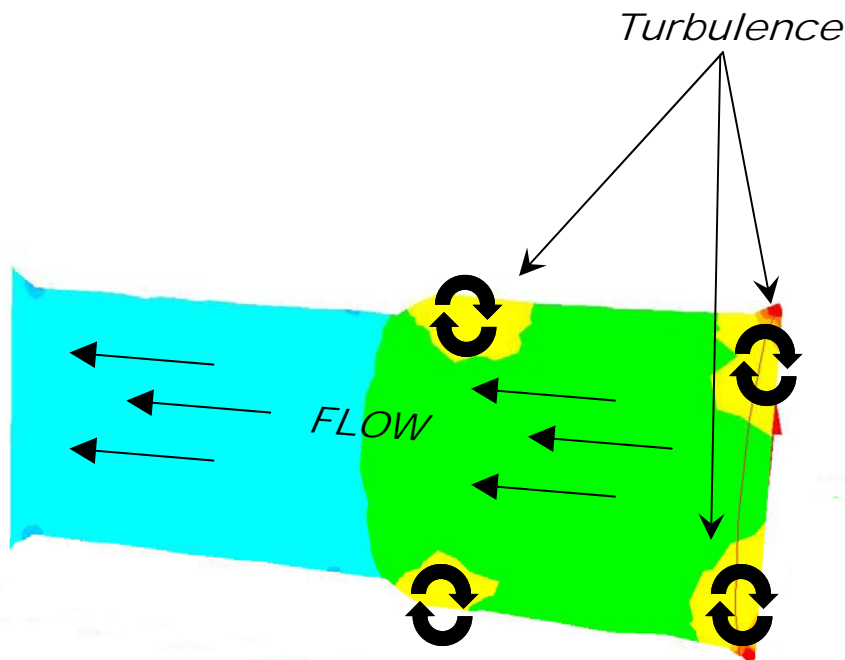
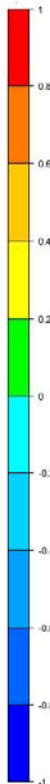


Smooth Bore creates a uniform flow path and reduces pressure drop

Competitor - 1.75"

Static Pressure

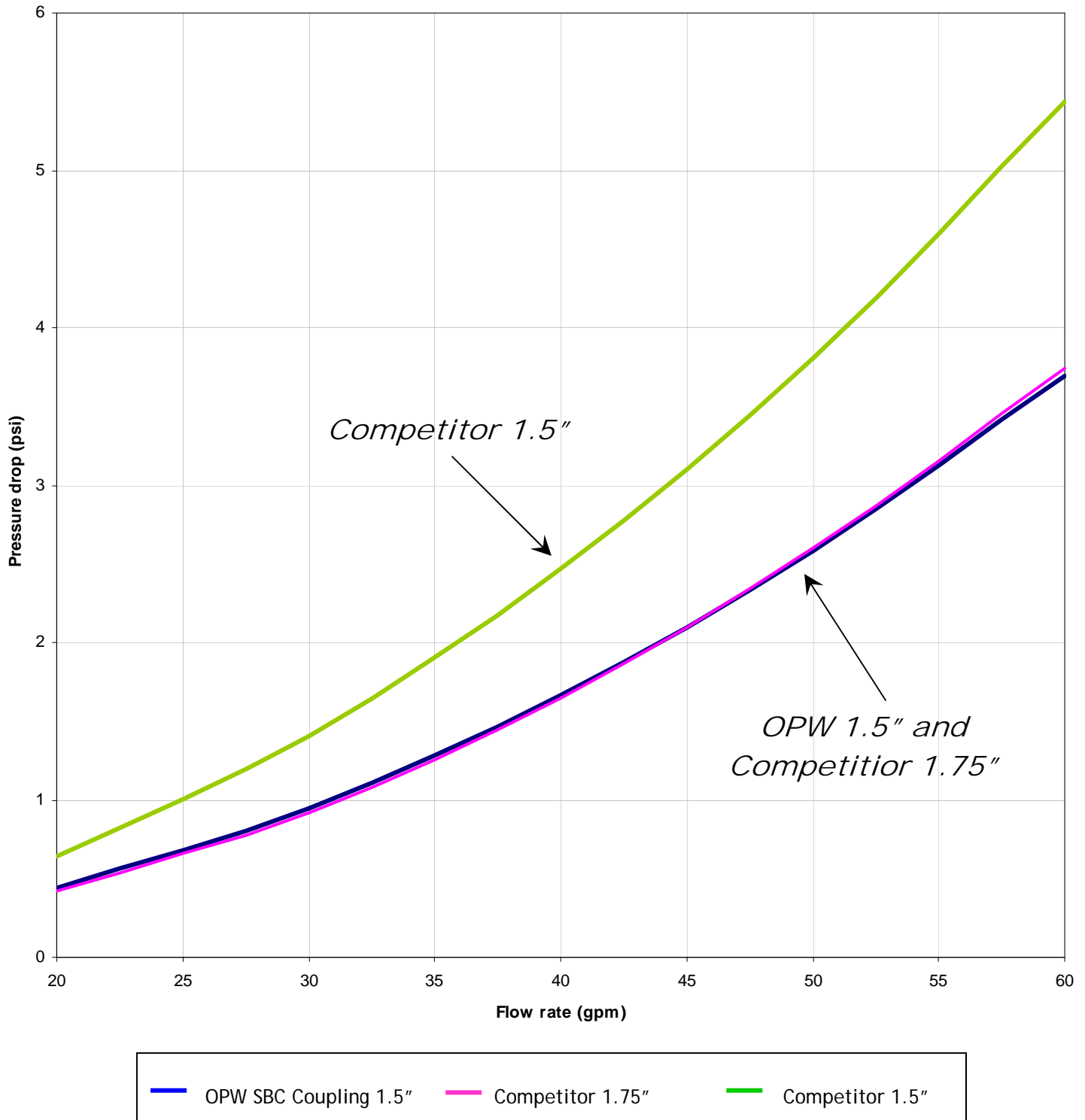
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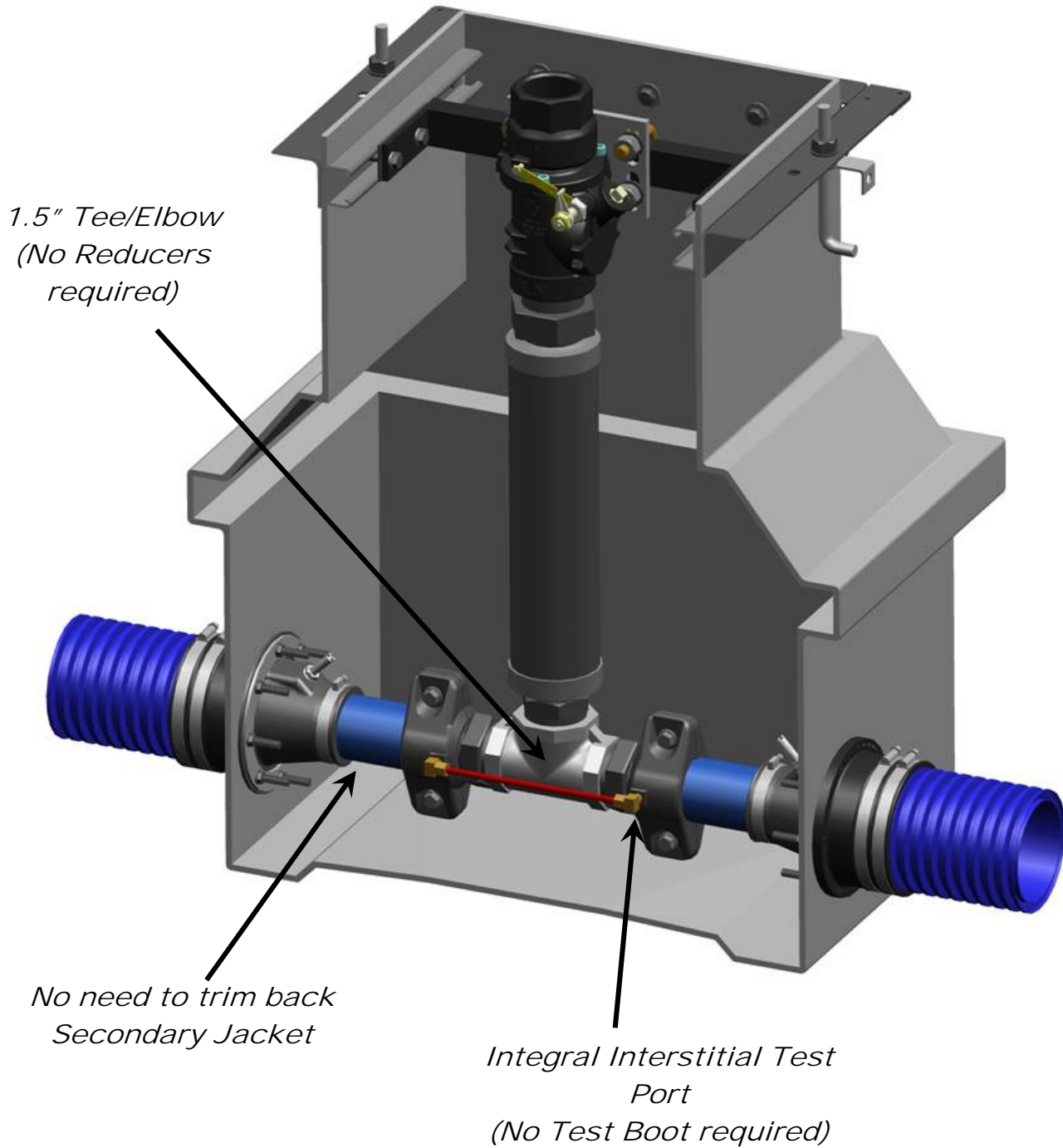
Stepped Bore creates turbulence and increases pressure drop

Pressure Drop Comparison Across Coupling Connection

Competitor 1.75" = OPW 1.5" » Competitor 1.5"



Double Wall Swivel Bolt-On Coupling (SBC) Installation





Environmental Sustainability is a Cornerstone of OPW's Purpose and Product Offering

OPW is leading the way in environmentally responsible product innovation. Environmentally safe refueling systems that promote clean air, clean water, and safe consumer environments.

We are not alone in our mission. OPW is part of Dover Corporation, a multi-billion dollar industrial conglomerate committed to global environmental sustainability. Around the world, Dover companies, such as OPW, are helping to protect the long-term well-being of the environment, from greenhouse gas and water reductions to increased environmental protection and energy efficiency

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