

TOTO®

Large Profile High-Efficiency Urinal
UT445U(V)

The ADA compliant TOTO 0.125gpf urinal features a full size design complete with privacy shields. TOTO HEU’s are engineered to work with the EcoPower® flush valves, offering the ultimate in water conservation and flushing performance. Using only one pint of water per flush when paired with a TOTO EcoPower 0.125gpf flush valve, the urinal saves 88% more water than a 1.0gpf urinal. The urinal is available in top spud and back spud installation options.



Performance Dashboard

Features & functionality

- 0.125gpf when paired with a TOTO 0.125gpf EcoPower flush valve
- Washout flush action with 3/4" top or back spud inlet
- Full size urinal with concealed integral trap
- Complete with low profile dome strainer
- Wall-mounted
- ADA compliant

Visit **TOTO** for more product specifications for:
[UT445U](#), [UT445UV](#)

CSI MasterFormat™ #22 42 13.16

Environmental performance

- Improved by:**
Saves 88% more water than standard 1.0gpf urinal
- Certifications & rating systems:**
WaterSense® certified
Declare™ label

[See LCA results & interpretation](#)



- WATERSENSE®**
- Promotes water efficiency and enhances the market for water-efficient products, programs, and practices.
 - The WaterSense label helps consumers identify water-efficient products and programs.
 - Products with the WaterSense label will perform well, help save money, and encourage innovation in manufacturing.



SM Transparency Report™ + Material Health Overview

VERIFICATION	LCA
3rd party verified	✓ NSF
Self-declared	
Transparency Report	
Certified	✓ NSF
Self-declared	
Material evaluation	
3rd party verified	
Self-declared	✓
Validity: 08/16/17 – 08/16/22 TOT – 10/18/14 – 006	

The **LCA** and Report are independently verified and certified to the **SM Transparency Report Framework** and **ISO 14025**.

NSF International
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International Living Future Institute
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Contact us

LCA & material health results & interpretation

Large Profile High-Efficiency Urinal UT445U(V)

Life cycle assessment

Material health

Scope and summary

☒ Cradle to grave

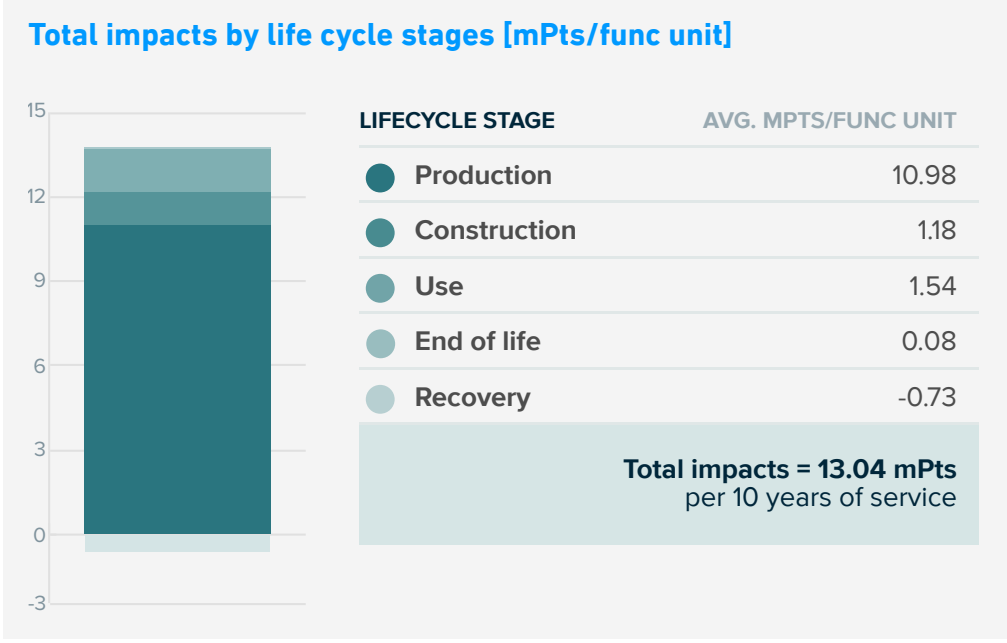
☐ Cradle to gate with options

☐ Cradle to gate






Functional unit
10 years of use of a urinal in an average U.S. commercial environment.
One urinal in an average U.S. commercial environment. The period of 10 years is modeled as the period of application based on the average technical lifespan for commercial applications. The economical lifespan of commerical applications can be longer or lower due to aesthetic replacements or more intense use. The implication is that the LCA model assumes that the application ends at year 10 and that the materials will be treated in an end-of-life scenario.

Default use phase scenario
10 years of service in an average U.S. commercial environment with 0.125 gallon/use and 18 uses/day during 260 days/year resulting in 5,850 gallons of water.

Material composition greater than 1% by weight		
PART	MATERIAL	AVG. % WT.
Ceramic	Ceramic	86%
Packaging	Corrugated Board	10%
Flange, spud, nut & hanger	Brass	3%
	Other	1%



LCA results

LIFECYCLE STAGE	PRODUCTION	CONSTRUCTION	USE	END OF LIFE	RECOVERY
Information modules: Included Excluded* *Installation and deconstruction/demolition are mostly manual. The toilets and/or urinals should not need repair, maintenance or replacement during the modeled life time. Operational energy use is irrelevant to the life cycle of the modeled product. Reuse and energy recovery are not modeled for toilets and/or urinals.	A1 Raw Materials	A4 Transportation/ Delivery	B1 Use	C1 Deconstruction/ Demolition	D1 Recycling
	A2 Transportation	A5 Construction/ Installation	B2 Maintenance	C2 Transportation	D2 Reuse
	A3 Manufacturing		B3 Repair	C3 Waste processing	D3 Energy
			B4 Replacement	C4 Disposal	
			B5 Refurbishment		
			B6 Operational energy use		
			B7 Operational water use		
					

SM 2013 Learn about SM Single Score results

Impacts per 10 years of service	10.98 mPts	1.18 mPts	1.54 mPts	0.08 mPts	-0.73 mPts
Materials or processes contributing >20% to total impacts in each lifecycle stage	Ceramic parts production together with brass parts and injection molding process.	Transportation of the product to installation site or consumer and disposal of packaging.	Volume of water use during the operation of the product and the embedded energy use (such as electricity) in the water used.	Transport to waste processing, waste processing and disposal of material flows transported to a landfill.	Plastic and metal components' recycling processes.

TRACI

Ecological damage

Impact Category	Unit						
Acidification	kg SO ₂ eq	<div></div>	9.02E-01	1.71E-01	1.34E-01	4.14E-03	-2.86E-02
Ecotoxicity	CTU _e	<div></div>	1.73E+02	2.74E+01	1.23E+01	1.02E+00	-9.20E+00
Eutrophication	kg N eq	<div></div>	1.88E-01	1.14E-02	1.13E-02	3.27E-04	-8.37E-03
Global warming	kg CO ₂ eq	<div></div>	8.23E+01	1.25E+01	1.99E+01	1.91E+00	1.11E+00
Ozone depletion	kg CFC-11 eq	<div></div>	3.06E-06	6.64E-099	8.39E-07	7.54E-08	-2.05E-07

Human health damage

Impact Category	Unit						
Carcinogenics	CTU _{he}	<div></div>	1.59E-06	1.48E-07	4.21E-07	1.05E-08	-1.30E-07
Non-carcinogenics	CTU _h	<div></div>	5.01E-05	1.42E-06	1.87E-06	7.14E-08	-6.02E-06
Respiratory effects	kg PM _{2.5} eq	<div></div>	6.68E-02	2.96E-03	8.88E-03	3.00E-04	-3.57E-03
Smog	kg O ₃ eq	<div></div>	9.19E+00	5.07E+00	9.27E-01	1.13E-012	-3.47E-01

Resources depletion

Impact Category	Unit						
Fossil fuel depletion	MJ surplus	<div></div>	1.43E+02	1.95E+01	1.35E+01	1.29E+00	-2.62E+00

References

LCA Background Report
TOTO Sanitary Ceramic Products LCA Background Report (public version), TOTO 2014

SM Transparency Report Framework
Part A: Part A: LCA Calculation Rules and Background Report Requirements (Draft V2) (based on ISO14040-44, ISO14025 and EN15804)
Part B: Product Group Definition – [Commercial Urinal](#)

SM Transparency Reports enable purchasers and users to compare the environmental performance of products on a life cycle basis. They are designed to present information transparently to make the limitations of comparability more understandable. SM Transparency Reports of products that comply with the same Product Group Definition (PGD) and include the same life cycle stages, but are made by different manufacturers, may not sufficiently align to support direct comparisons. They therefore, cannot be used as comparative assertions unless the conditions defined in ISO 14025 Section 6.7.2. ‘Requirements for Comparability’ are satisfied.

Rating systems

The intent is to reward project teams for selecting products from manufacturers who have verified improved life-cycle environmental performance.

LEED BD+C: New Construction | v4 - LEED v4
MR Building product disclosure and optimization
Environmental product declarations

SM Transparency Report product credit values:

<input type="radio"/> LCA self-declared, Report self-declared	0 product
<input type="radio"/> LCA verified, Report self-declared	1/4 product
<input checked="" type="radio"/> LCA verified, Report certified	1 product

Green Globes for New Construction and Sustainable Interiors
NC 3.5.1.2 Path B: Prescriptive Path from Building Core | **NC 3.5.2.2 and SI 4.1.1 Path B:** Prescriptive Path for Interior Fit-outs

SM Transparency Report™ + Material Health Overview

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Self-declared	
Transparency Report	
Certified	<input checked="" type="checkbox"/> NSF
Self-declared	
Material evaluation	
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Self-declared	<input checked="" type="checkbox"/>

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LCA & material health results & interpretation

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Life cycle assessment

Material health

Evaluation program: Declare

Declare labels are issued to products disclosing ingredient inventory, sourcing and end of life options. Declare labels are based on the Manufacturers Guide to Declare, administered by the International Living Future Institute.

How it works

Material ingredients are inventoried and screened against the **Living Building Challenge** (LBC) Red List which represents the 'worst in class' materials, chemicals, and elements known to pose serious risks to human health and the greater ecosystem.

The Declare product database and label are used to select products that meet the Living Building Challenge's stringent materials requirements, streamlining the materials specification and certification process.

How this rating was achieved

Declare level

'Red List Free' means this product does not contain any ingredients on the LBC's Red List.

What's in the product and why

Red List materials

No red list materials are present in the urinal.

Where it goes at the end of its life

TOTO encourages consumers to recycle their used urinal and urinal parts. Contact your local municipality for recycling programs.

How we're making it healthier

The Commercial Urinal is designed to be used with the TOTO EcoPower® Urinal Flush Valve. The EcoPower technology enables the flush valve to operate off the energy grid, and requires no routine battery replacement. This technology helps to reduce pollution and hazardous waste, thereby mitigating human health impacts.

Urinal models with a water consumption of 0.125gpf are engineered to utilize biomimicry, modeled after the oxbow affect found in nature. Water moving on the outside of a curve will move faster, causing turbulence. The 0.125gpf urinal utilizes a V-shaped trap to reduce turbulent flow, resulting in lower water use without compromising performance. Superior performance reduces the need for extraneous cleaning and the associated use of cleaning substances.

See how we make it greener

Assessment scope and results

Content inventory: All ingredients identified by name and CAS #
Inventory threshold: 100 ppm

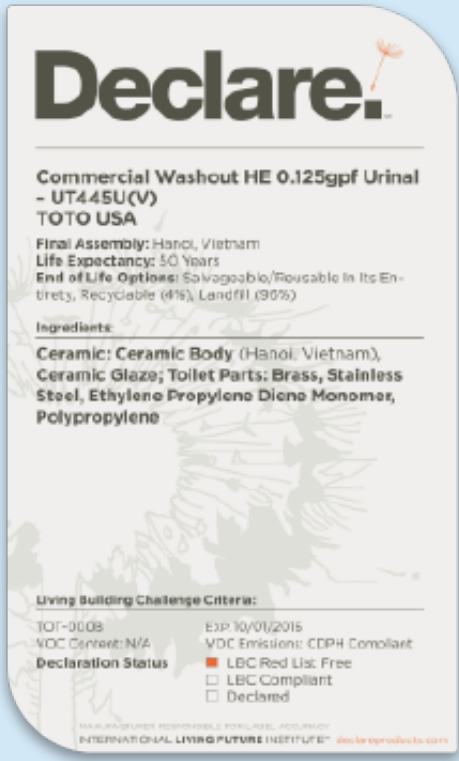
Declaration status:

The Declare product database and label are used to select products that meet the LBC's stringent materials requirements, streamlining the materials specification and certification process.

- LBC Red List Free ?
- LBC Compliant ?
- Declared ?



Large Profile High-Efficiency Urinal



Click on each label to see the full declaration

References

Declare

TOTO USA, Declare label for Large Profile High-Efficiency Urinal UT445U

Manufacturer's Guide to Declare

A comprehensive Guide providing information about the program, the assessment methodology, how to submit material data to obtain a Declare label and how they are used to meet the Health & Happiness and Materials Petals of the Living Building Challenge.

Rating systems

LEED v4, Building product disclosure and optimization
Material Ingredients

Credit values:

- ☒ Option 1. Material ingredient reporting 1 product
- ☐ Option 2. Material ingredient optimization 1 product

Living Building Challenge
Living Building Challenge 3.0



Materials petal:

- ☒ Imperative 10. Red List Free
- ☒ Imperative 12. Responsible Industry
- ☐ Imperative 13. Living Economy Sourcing

SM Transparency Report™ + Material Health Overview

VERIFICATION

LCA

3rd party verified



Self-declared

Transparency Report

Certified



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How we make it greener

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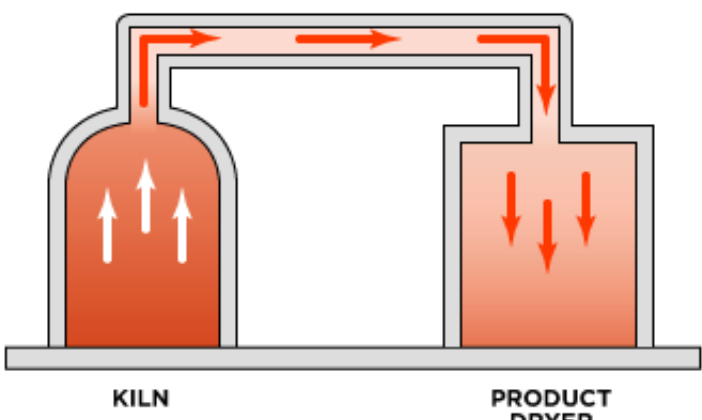
[Collapse all](#)

[See LCA results by lifecycle stage](#)

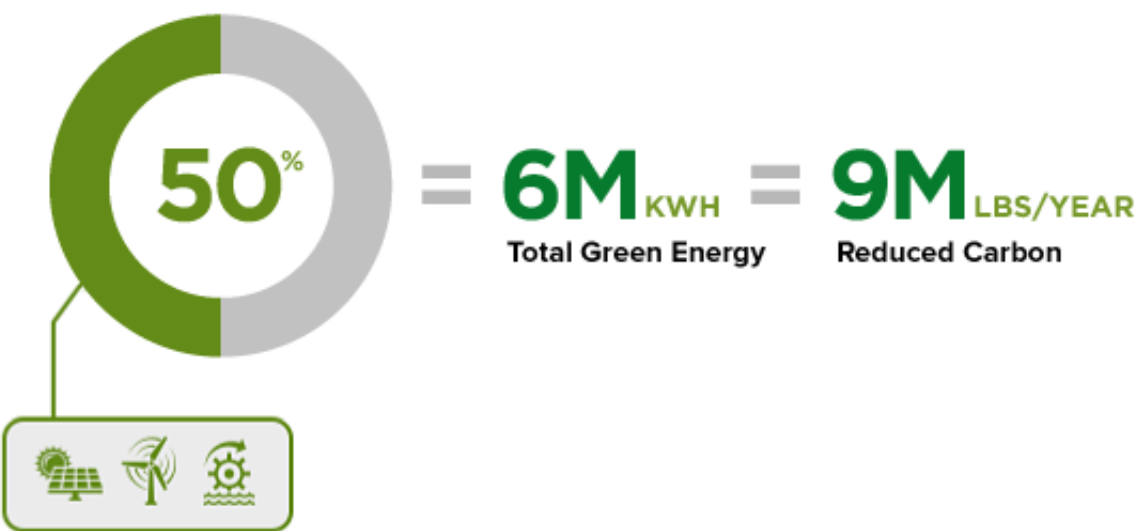
PRODUCTION



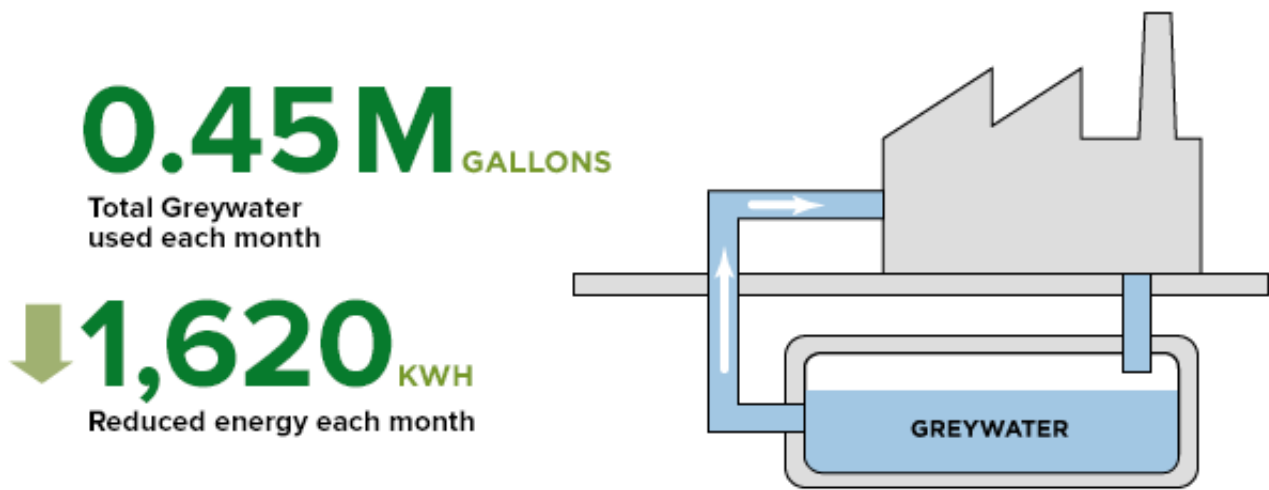
↓15 %
Less Natural Gas



Waste heat from the kilns is routed to the product dryer. This reduces 15% natural gas consumption.



50% of the electricity that TOTO uses is based on renewable energy generation. It's 6 million kilowatt hours of green energy, which means over 9 million pounds of carbon reduced each year.



0.45 million gallons per month of greywater is used in TOTO's operations. 1,620 of kwh in energy is reduced due to less potable water.



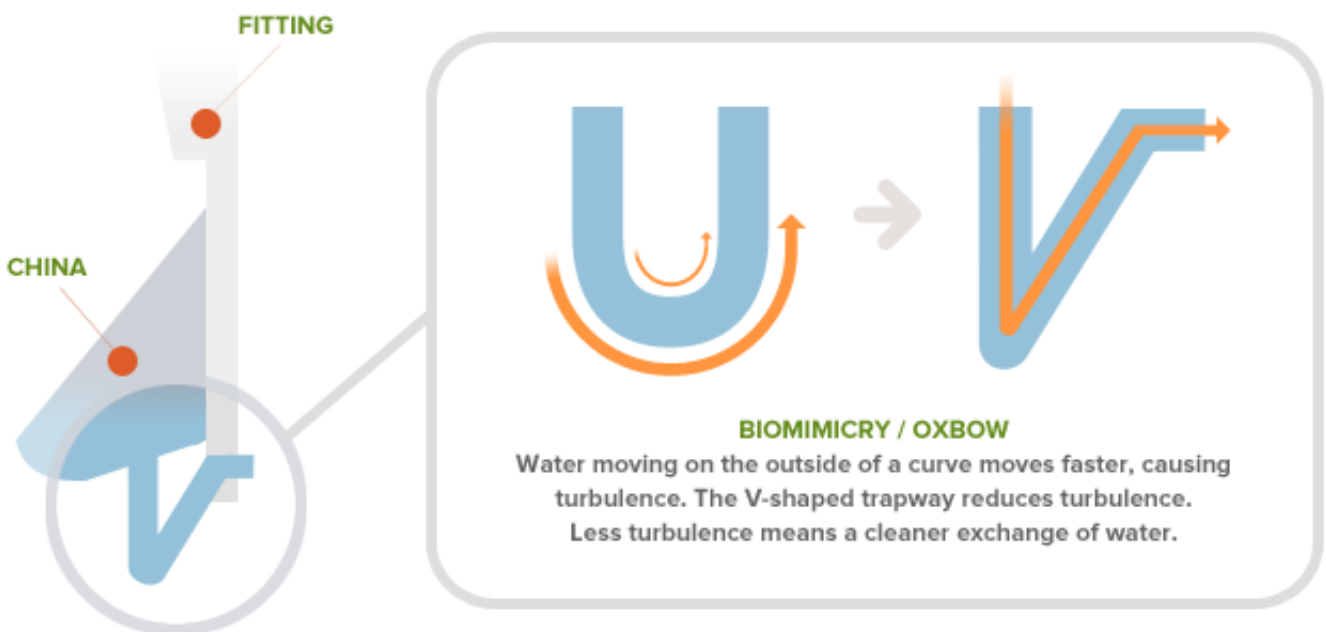
65% of all cardboard used is 100% recycled content.

CONSTRUCTION

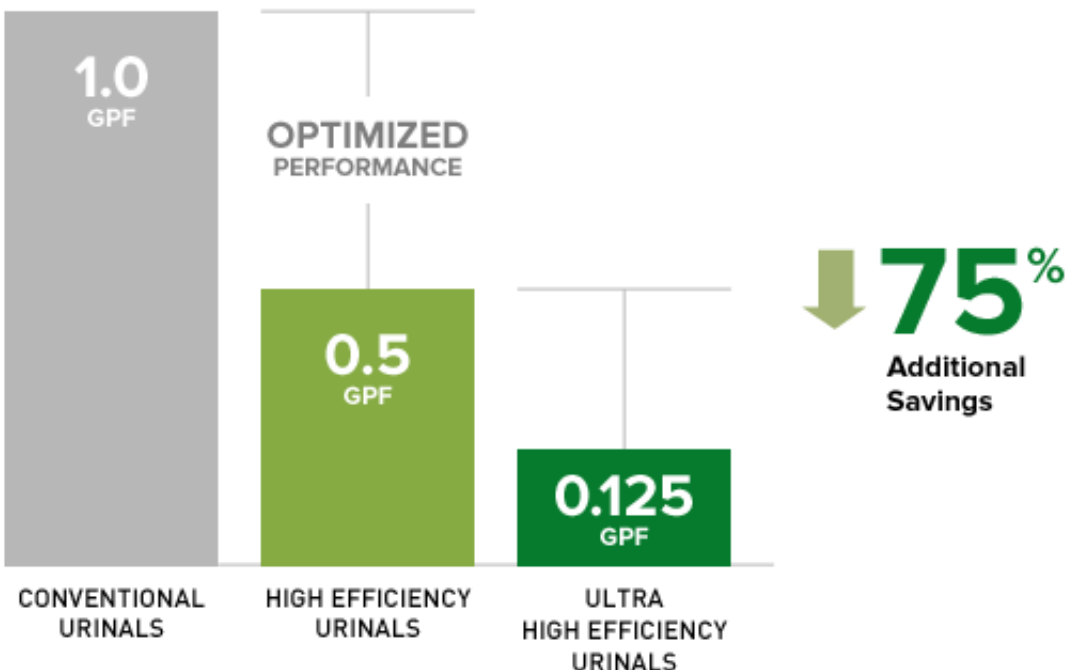


UPS parcel shipments are carbon neutral. TOTO is a registered SmartWay® Transport Partner.

USE




Designed to work in combination with the EcoPower TEU1UN Urinal Flush Valve, the urinal was engineered to utilize biomimicry, modeled after the oxbow affect found in nature. Water moving on the outside of a curve will move faster, causing turbulence. The 0.125gpf urinal utilizes a V-shaped trap to reduce turbulent flow, resulting in lower water use without compromising performance.



Designed to work in combination with the EcoPower TEU1UN Urinal Flush Valve, the 0.125 gallon per flush urinal reinforces TOTO's performance reputation while offering an additional water savings.

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