NEOPERL® WATERTRAIN®



INTERNAL WATERWAY

NEOPERL®

flow, stop and go®

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All information in this catalogue is subject to change without notice.

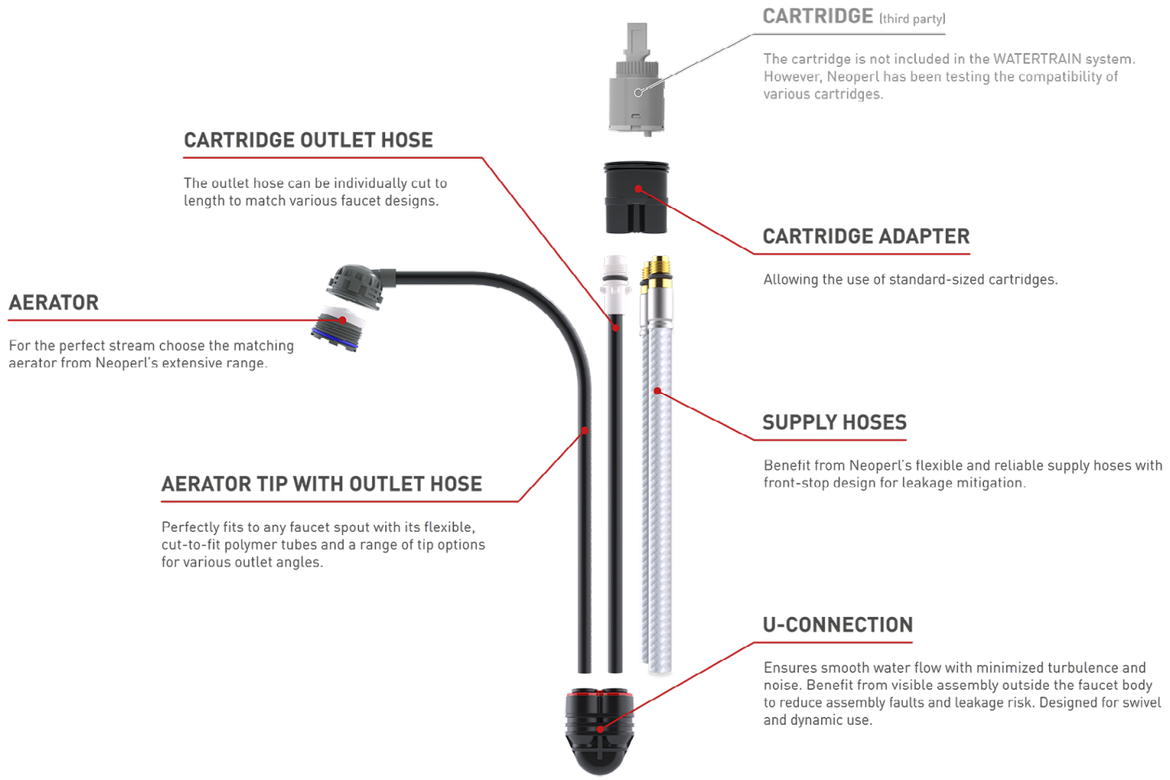
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DRY FAUCET SOLUTION BY NEOPERL

WATERTRAIN® is an innovative internal waterway system that separates the water from the faucet body, providing a dry faucet solution compliant with lead-free policies.

The modular system boasts a pre-engineered set of components that can be customized in length and orientation to fit any faucet design. Its U-shaped connector ensures smooth water passage, reducing turbulence and noise while maximizing flow. Additionally, the system includes a cartridge adapter compatible with standard-sized cartridges.

Modular system - designed for flexibility



BENEFITS

With WATERTRAIN®, manufacturers benefit from a reliable, high-performance solution, so they can stay focused on what truly differentiates them: design, brand, and user experience.

Here is what sets WATERTRAIN® apart:

Design flexibility

- Modular system with cut-to-length polymer tubes to match various faucet bodies and sizes
- Easily adapts to existing faucet designs. Maintains original fit, form and function while converting the internal waterway
- Allows free choice of faucet body materials without compromising water quality

Costs

- The drinking water approved water-way saves substantial time and cost for the market launch of subsequent faucets/ SKUs
- Compatible with standard cartridges
- No additional cost for plastic molding tools due to the flexibility of cut-to-length polymer tubes
- Less stock keeping units due to standardized components

Performance

- Smooth water passage minimising turbulences (i.e. reduced noise emission, max. flow performance)
- Suitable for dynamic (i.e. kitchen swivel faucet) and static use
- Assembly of robust waterway connection outside the faucet body (i.e. mitigation of assembly faults and risk of leakage)
- Easy to repair and recycle

Regulatory compliance

- Heavy-metal free waterway
- All components comply with global drinking-water standards, incl. EU Drinking Water Directive (DWD)
- Reduced testing scope for meeting mechanical compliance
- Globally recognized solution built on multiple patent-protected technologies

PRODUCT AND HYGIENE CERTIFICATIONS

WATERTRAIN® components are designed to meet international regulations including tapware standards, e.g. EN 817, ASME A112.18.1.

Standards

EU-DWD 2020/2184 ready

ATTESTATION DE CONFORMITÉ SANITAIRE ACS

KTW-BWGL1+

WaterMark

NSF Certified to NSF/ANSI/CAN 61-G

UPC C ® ASME A112.18.1

WRAS APPROVED PRODUCT

DESIGN OPTIONS

Thanks to its modular design, WATERTRAIN® can be adapted to a wide range of faucet types, including various bathroom and kitchen faucets – whether static or swivel, touchless sensor faucets, or traditional two-handle models.

Washbasin faucets



Top lever faucet

Top lever faucet

Top lever faucet with flat spout

Touchless sensor faucets



Touchless faucet with front sensor

Touchless faucet with top sensor

Kitchen faucets



Top lever kitchen faucet

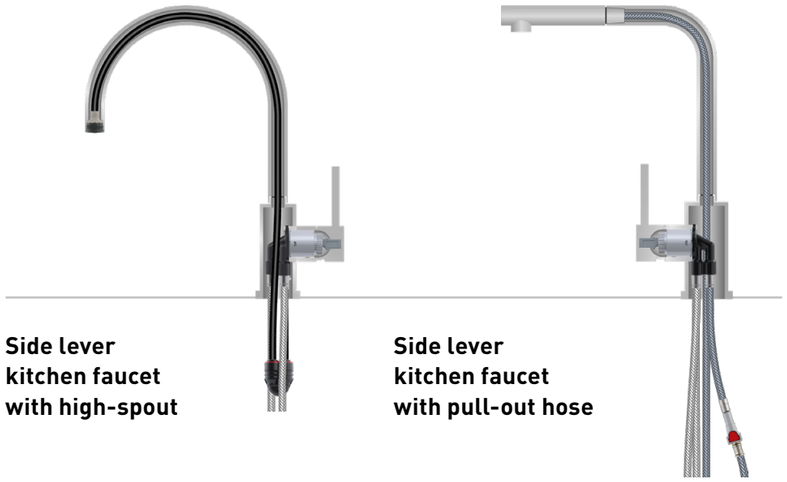
Top lever swivel faucet

2-handle faucet



2-handle faucet

Side lever faucets



Side lever kitchen faucet with high-spout

Side lever kitchen faucet with pull-out hose

Schematic faucet illustrations without specific design details

WATERTRAIN® COMPONENTS

Below you'll find an overview of the complete WATERTRAIN® component portfolio. Based on your faucet design, target flow rate, and cartridge type, you can select the components that best fit your requirements. Our team will be happy to support you in defining the right configuration for your application.

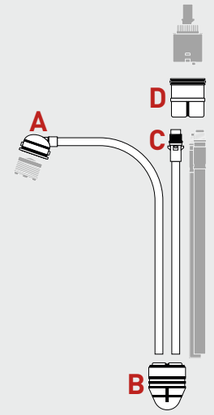
A Aerator tip with outlet hose

Item no.	Picture	Designation	Ø Outlet hose	Size	Angle	Length	Packaging unit	
Flange tip								
18.5200.025		flange tip	6.4 mm	M24x1	100°	350 mm	250 pc	
18.5200.019		flange tip	8.0 mm	M24x1	100°	350 mm	250 pc	
18.5200.016		flange tip	6.4 mm	M24x1	135°	350 mm	250 pc	
18.5200.021		flange tip	8.0 mm	M24x1	135°	350 mm	250 pc	
18.5200.011		flange tip	6.4 mm	M20x1	100°	350 mm	250 pc	
18.5200.009		flange tip	6.4 mm	M20x1	135°	350 mm	250 pc	
18.5200.074		flange tip with O-ring	6.4 mm	M18x1	180°	350 mm	250 pc	COMING SOON

Item no.	Picture	Designation	Ø Outlet hose	Size	Angle	Length	Packaging unit	
Cup tip								
18.5200.037		cup tip	6.4 mm	M20x1	100°	350 mm	250 pc	
18.5200.080		cup tip	6.4 mm	M18.5x1	105°	350 mm	250 pc	COMING SOON
18.5200.017		cup tip	6.4 mm	M18.5x1	110°	350 mm	250 pc	
18.5200.057		cup tip	6.4 mm	M18x1	105°	350 mm	250 pc	COMING SOON
18.5200.029		cup tip for sensor faucets	6.4 mm	M13.5x1	180°	500 mm	250 pc	

WATERTRAIN® COMPONENTS

Refer to our website for technical information, such as drawings and product datasheets.



B U-connection

Item no.	Picture	Designation	Ø Outlet hose	Packaging unit
18.5000.001		U-connection	6.4 mm	250 pc
18.5000.015		U-connection	8.0 mm	250 pc

C Cartridge outlet hose

Item no.	Picture	Designation	Ø Outlet hose	Size	Length	Packaging unit
18.5100.000		cartridge outlet hose	6.4 mm	M10x1	200 mm	250 pc
18.5100.002		cartridge outlet hose	6.4 mm	M11x1	200 mm	250 pc
18.5100.004		cartridge outlet hose	8.0 mm	M11x1	200 mm	250 pc

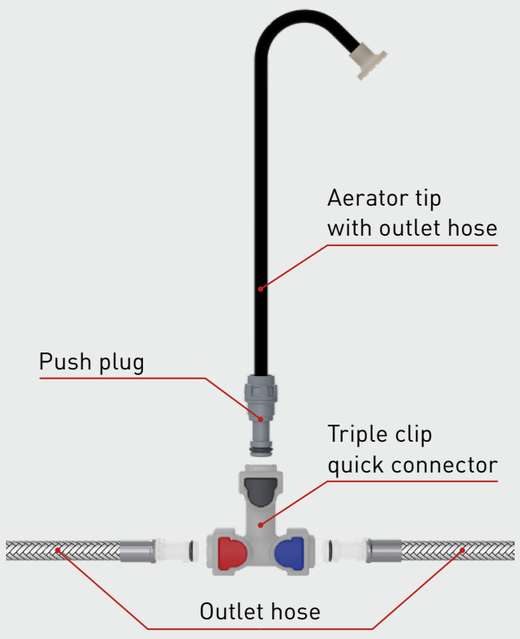
D Cartridge adapter

Item no.	Picture	Designation	Size	Packaging unit
18.5001.000		cartridge adapter D25 top lever	M8x1 M10x1	250 pc
18.5001.002		cartridge adapter D35 top lever	M10x1 M11x1	250 pc

WATERTRAIN® COMPONENTS

2-handle solution with quick connector

Item no.	Picture	Designation	Ø Outlet hose	Size	Plug	Length	Packaging unit
18.5000.002		triple clip quick connector (TCQC)			3x plug D10		250 pc
18.5000.003		push plug 6.4mm	6.4 mm		plug D10		250 pc
18.5000.004		push plug 8.0mm	8.0 mm		plug D10		250 pc
39.9600.016		outlet hose DN8 LL plug D10 G1/2"		G1/2"	plug D10	400 mm	125 pc
39.9600.020		outlet hose DN8 LL plug D10 M10x1		M10x1	plug D10	400 mm	125 pc



COMPATIBLE CARTRIDGES

The following readily available cartridges have been tested and confirmed compatible with the WATERTRAIN® cartridge adapter. Hygienic and mechanical performance is based on the respective manufacturer's specifications. Please note: the cartridge itself is not included in the scope of delivery.



Standard size: 25mm

Manufacturer	Size	Cartridge model	Noise class 1 (ISO3822)
KCG	25 mm	K25 ASS	yes
Kerox	25 mm	K-25 A	yes
Kerox	25 mm	K-25 HF A	yes
Sedal	25 mm	EN-25 Top	yes
Sedal	25 mm	SN25	
Wanhai	25 mm	25D-1	

Standard size: 35mm

Manufacturer	Size	Cartridge model	Noise class 1 (ISO3822)
KCG	35 mm	K35 ASS	yes
Kerox	35 mm	KN-35 A HWS	yes
Kerox	35 mm	K-35 Smart	yes
Sedal	35 mm	EN35 basic	yes
Sedal	35 mm	KN-35 SD Tor TR	yes
Wanhai	35 mm	35D-1	

AERATOR TIP OPTIONS

Depending on spout geometry and sealing concept, different aerator tip solutions are available.



Cup tip

- Self-contained, leakage-safe cup-solution suitable for axial washer sealing
- Ideal for flat spouts with limited height but sufficient width to incorporate the cup
- Flattest cup solution in the portfolio – requires the least installation height inside the spout

Compatible aerators

- SLIM® Air M20x1
  SLIM® Air protrusion prevents water from running down along the spout.



Cup tip

- Self-contained, leakage-safe cup-solution suitable for radial sealing
- Ideal for flat spouts with limited height but sufficient width to incorporate the cup

Compatible aerators

- **NEW**: Caché® Shorty M18x1 / M18.5x1
  Fully hidden in the spout



Flange tip

- Flange tip for axial washer sealing
- Ideal for flat spouts with limited height
- Different tip angle options
- Retaining ring recommended for minimizing risk of leakage

Compatible aerators

- SLIM® Air M20x1 / M24x1
- Inserts with housing (STD / Shorty M24x1)



Flange tip

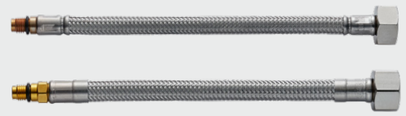
- Flange tip for axial washer sealing
- Direct thread connection to faucet body
- Maximum stream width for the given spout diameter
- Different tip angle options
- Internal stop in the spout required

Compatible aerators

- New dry faucet product line
  NEW: EZY18
  Axial washer sealing
  Fully hidden in the spout

COMPATIBLE SUPPLY HOSES

The following list is a selection from Neoperl's comprehensive supply hose portfolio, compiled specifically for the testing phase to match standard hose connection and material requirements. Further specifications are available on request.



Exemplary selection for testing

Item no.	Designation	Fitting	Length	Material	Braiding
39.0007.127	SPX DN6 B16 450 V LL M8x1 RWG 3/8	M8x1 G 3/8	450 mm	low lead	PA
39.0007.035	SPX DN6 B16 700 V LL M8x1 FS RWG 9/16	M8x1 9/16	700 mm	low lead	PA
39.0007.031	SPX DN6 B16 450 V LF M8x1 FS RWG 1/2	M8x1 G 1/2	450 mm	lead free	PA
39.0007.129	SPX DN6 B16 450 V LL M10x1 RWG 3/8	M10x1 G 3/8	450 mm	low lead	PA
39.0007.049	SPX DN6 B16 700 V LL M10x1 FS RWG 9/16	M10x1 9/16	700 mm	low lead	PA
39.0007.045	SPX DN6 B16 450 V LF M10x1 FS RWG 1/2	M10x1 G 1/2	450 mm	lead free	PA
39.0007.067	SPX DN8 B16 450 V M10x1 FS RWG 1/2	M10x1 G 1/2	450 mm	brass	PA
39.0400.348	EP DN8 B0 450 M10x1 FS RWG 1/2	M10x1 G 1/2	450 mm	brass	SST



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