



**EVERYBODY,
EVERY DAY,
IN EVERY LITTLE WAY**

brought to you by

VERTECO

NEOPERL®

flow, stop and go®

NEOPERL MIDDLE EAST



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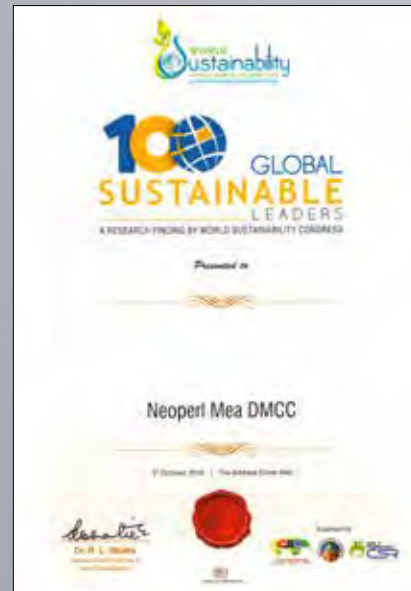
info@neoperl.ae

Neoperl MEA DMCC was founded in Dubai, United Arab Emirates in 2014 and is part of the international Neoperl Group.

Our team strives to provide excellent service to our customers in the Middle East and Africa every single day.

With our state-of-the-art test bench, built according to DIN standards, we are able to run test curves from 0.1 up to 10 bar.

We invite and welcome our customers to optimise their plumbing products while making sure they adhere to the latest standards and requirements.



THE NEOPERL GROUP

All in one: your drinking water expert

The Neoperl Group is a leading supplier for the plumbing industry around the globe. We develop, produce and market solutions for drinking water. For 60 years and counting, faucet manufacturers, industrial customers, retailers and distributors have placed their trust in us.

NEOPERL® products shape the water stream, regulate the flow rate, connect appliances to water and protect drinking water from contamination. Our water-saving products enable everyone to reduce their use of this precious resource and to reduce their energy consumption by heating less water – a simple solution to the benefit of the environment and the climate.

Bound to succeed: thanks to our know-how

The know-how provided by our approx. 1,800 employees in 16 countries is the cornerstone of our success. Production sites in Europe, Asia and the United States as well as sales offices in all major markets form our dense global network.

Through our extensive regional presence we have gained detailed knowledge of local and country-specific characteristics. We understand what makes each market unique. Our technical know-how combined with our international sales and marketing expertise turn us into specialists for drinking water – all around the world.

The perfect product: through innovation and focus on quality

The research & development department in Müllheim (Germany) is our “innovation engine”. In our first-class state-of-the-art facilities we develop competitive solutions tailored to the multifaceted needs of our international clients. To do so, we rely on the valuable input provided by our customers and partners. Together, we keep exploring – and pushing – the boundaries of the technically feasible and thus develop tomorrow’s solutions today.

In order to secure our leading position quality-wise, we rely on automation to the greatest possible extent, while every single production step is subject to an integrated, 100% quality control process.

Like a mountain stream, we never cease to follow our course.

If we encounter obstacles, we gather speed and find ways to get round them.

Our competent staff, innovative power and the vast wealth of knowledge at hand provide the continuous flow of energy that drives us forward.



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AERATORS



Aerators – one of the most important components of every faucet

Nowadays, aerators can be found on the spouts of virtually all washbasin and bathtub faucets. They shape the water to produce a non-splashing stream and add air to make the water pleasantly soft. They also reduce plumbing noise and help to save water and energy.

Aerators with flow regulation

There are basically two ways to control the flow. One is to restrict it by defining the size of the orifice in such a way as to permit a predetermined flow rate at a specific pressure (e.g. 3 bar). Neoperl refers to these products as "flow restrictors". While flow restrictors allow little water to pass at low pressure, the flow rate is often higher than necessary at high pressure.

Integrated flow regulator

With a flow restrictor, the water flow through an aerator increases as the pressure rises. However, it may be necessary to achieve a virtually constant flow rate, regardless of pressure fluctuations, in situations where the flow rate is subject to certain requirements, e.g.

- compliance with standards in specific markets
- saving water
- regulated distribution of water.

This is where the flow regulator technology comes in. PCA aerators are easier and more convenient to use than flow restrictors at low pressure and save water at high pressure. The user uses as much water as needed (customer satisfaction) but not more than is necessary (environmental protection).

Standard PCA
from 1.0 to 5.0 bar



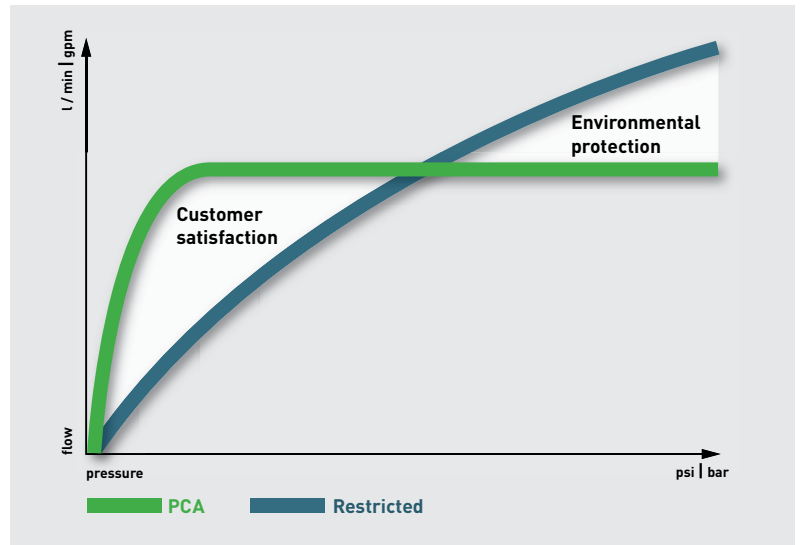
PCA DC
from 0.2 to 5.0 bar



How the flow regulator technology works

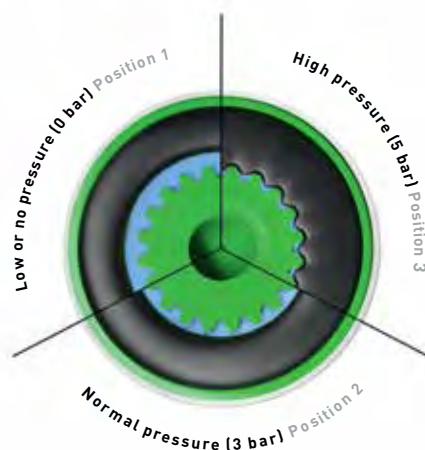
Static state (no flow, no or low pressure): the precision control o-ring is relaxed (position 1).

Dynamic state (flow): As soon as water flows through the flow regulator, the o-ring becomes distorted and is pressed into the gaps between the teeth of the core. This reduces the size of the opening for the water (position 2). The deformation of the o-ring increases as the pressure rises (position 3). When the pressure decreases, the o-ring gradually returns to its original shape, increasing the size of the opening for the water again (returning to position 2 and then to position 1).



New water-saving technology!

The new PCA DC technology offers all the benefits of Neoperl's standard PCA. In addition, the PCA DC can be used in all pressure conditions: regardless of low or high pressure at the outlet, the user gets a full and pleasant water stream. With aeration from only 0.2 bar, the comfort zone is increased.



AERATORS

Insert and housing sizes



TT (Tom Thumb) size

female M16 × 1
male M18 × 1
IG 3/8"



TJ (Tiny Junior) size

female M19 × 1
male M20 × 1

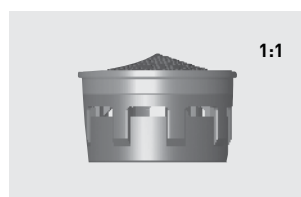
Compact Vandal Proof
male M24 × 1



CACHÉ TT (M16.5 × 1)



Small 24 × 6 mm



STD (Standard) size

female M22 × 1*
male M24 × 1*

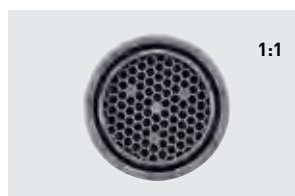
US female 55/64"-27
UNS-2B*
US male 15/16"-27 UNS-2A*



Shorty STD (Standard) size

Shorty male M24 × 1

Shorty US female 55/64"-27
UNS-2B
Shorty US male 15/16"-27
UNS-2A



CACHÉ TJ (M18.5 × 1)



Medium 28 × 7 mm



CACHÉ JR (M21.5 × 1)



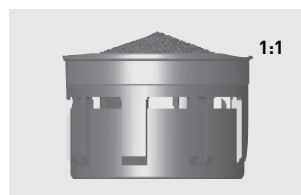
Large 32 × 8 mm



CACHÉ STD (M24 × 1)



X-Large 40 × 10 mm



TF (Tub Filler) size

male M28 × 1

Housings

All aerator housings are available upon request with special surface finishes, customised laser engraving and various colours.

* **Vandal-proof housing** versions available: VP housings have a rotating sleeve construction. A special key is required for removal, making the aerator theft-proof.



M24 × 1 VP



M22 × 1 VP

Stream patterns



Aerated stream

Aerators use the Venturi effect to add air into the water stream. This gives the water a pleasantly abundant, soft feel for the user – regardless of the flow rate. Uncontrolled water splashing is a thing of the past.



Laminar stream

Laminar stream straighteners produce a crystal-clear, non-splashing and non-aerated water stream. Ideal for high-flow applications or health care facilities (no mix of water/air).



Mikado stream

The new Mikado stream is a real eye-catcher. The extraordinary, grid-like spray pattern – formed by individual water jets – looks clear and harmonious. Owing to its form the spray loses density as it moves downwards, hence the force of the jets ranges from vigorously massaging to pleasantly soft.



Rain stream

Neoperl's Rain Spray offers a special washing experience. Its numerous little nozzles produce an extensive and pleasantly abundant water stream – a shower sensation for your hands.



Spray stream

The spray stream offers an ideal means of dispersing water over the largest possible wetting area when the flow rate is low. Its water-saving attributes also make the spray stream an interesting prospect for highly frequented washrooms (e.g. in public buildings).



Atomized stream

Aerators with atomizer stream offer a good water dispersion (thanks to atomization) and extremely low flow rates.

AERATORS

Features

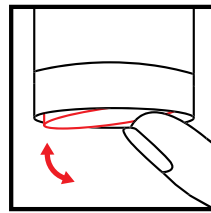


SLC integrated

SLC optional

SLC (Smart Lime Cleaning)

Lime deposits at the tip of the aerator can simply be rubbed away thanks to the soft elastomer surface. This extends the service life substantially.



SSR integrated

SSR optional

SSR (swivel plate)

The SSR function offers a means of adjusting the direction of the water stream as needed. The inclination angle of the swivel plate on the outlet side is adjustable. The maximum swivel angle depends on the model and varies between $\pm 6^\circ$ and $\pm 10^\circ$.



AC integrated

AC optional

AC (AutoClean)

The dome screen of an AC aerator has an automatic cleaning function. Small dirt particles (up to 0.7 mm in size) are simply flushed out. This ensures that the stream pattern and flow rate remain unaffected, even after long periods of use.

Lime build-up

Aerator testing:

Two new aerators have been tested in the following conditions:

- simulation of the equivalent of 5 to 6 years of use
- water temperature of approx. 15 °C/59 °F
- room temperature of approx. 20 °C/68 °F
- water hardness 20–30° dH (German hardness)

Aerators with metal wire mesh screen

A film of water builds up over time, which forms a bridge between the insert and the housing. This is where lime begins to form. The lime gradually spreads towards the middle of the screen and finally clogs the air inlets. The stream becomes hard and splashes.



Aerators without metal wire mesh screen

With full-plastic aerators, the formation of water film bridges is hindered. Lime build-up is slowed down considerably thanks to their unique structure (CASCADE and HONEYCOMB). They continue to produce a straight, non-splashing stream of water, even after long periods of use.

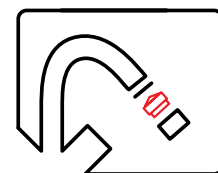


Additional lime protection: SLC feature



Lime clogs aerators over time. Neoperl has developed the SLC feature for maximum lime resistance: you can simply rub away any lime deposits on the outlet surface of the aerator with your finger.

AERATORS



Aerator product lines: inserts with housings for standardised threads



PERLATOR® HONEYCOMB

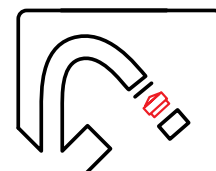
Improved lime protection due to HONEYCOMB structure; extended life time; perfect stream quality; very low noise level.

Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.2058.000	40.2058.033	40.2058.023
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.2060.000	40.2060.033	40.2060.023
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.2056.000	40.2056.033	40.2056.023
STD	PCA 2.2 gpm max. (~8.3 l/min)	yellow	40.2053.000	40.2053.033	40.2053.023
STD	PCA DC 1.2 gpm max. (~4.5 l/min)	pink	40.2014.000	40.2014.033	40.2014.023
STD	PCA DC 1.5 gpm max. (~5.7 l/min)	green	40.2015.000	40.2015.033	40.2015.023
STD	PCA DC 2.1 gpm max. (~7.9 l/min)	red	40.2016.000	40.2016.033	40.2016.023

Size	Flow rate	Colour code	Insert only	M18 × 1	M16 × 1
TT	PCA 1.0 gpm max. (~3.8 l/min)	blue	44.3058.000	44.3058.033	44.3058.023
TT	PCA 1.2 gpm max. (~4.5 l/min)	pink	44.3060.000	44.3060.033	44.3060.023
TT	PCA 1.5 gpm max. (~5.7 l/min)	green	44.3056.000	44.3056.033	44.3056.023

Size	Flow rate	Colour code	Insert only	M20 × 1	M19 × 1
TJ	PCA 1.0 gpm max. (~3.8 l/min)	blue	43.2058.000	43.2058.033	43.2058.023
TJ	PCA 1.2 gpm max. (~4.5 l/min)	pink	43.2060.000	43.2060.033	43.2060.023
TJ	PCA 1.5 gpm max. (~5.7 l/min)	green	43.2056.000	43.2056.033	43.2056.023



Size	Flow rate	Colour code	Insert only	M28 × 1
TF	PCA 1.0 gpm max. (~3.8 l/min)	blue	41.2058.000	41.2058.313
TF	PCA 1.5 gpm max. (~5.7 l/min)	green	41.2056.000	41.2056.313
TF	PCA 2.0 gpm max. (~7.6 l/min)	lilac	41.2057.000	41.2057.313



PERLATOR® HONEYCOMB SSR

SSR

Simply change the stream angle via the insert's tilting plate. Up to 10° adjustment is possible.

Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.6058.000	40.6058.033	40.6058.023
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.6056.000	40.6056.033	40.6056.023



CASCADE

Excellent lime protection (extended life time); perfect stream quality; very low noise level.



Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 0.35 gpm max. (~1.3 l/min)	brown	40.1068.000	40.1068.033	40.1068.023
STD	PCA 0.5 gpm max. (~1.9 l/min)	lime	40.1059.000	40.1059.033	40.1059.023
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.1058.000	40.1058.033	40.1058.023
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.1060.000	40.1060.033	40.1060.023
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.1056.000	40.1056.033	40.1056.023
STD	PCA 2.2 gpm max. (~8.3 l/min)	yellow	40.1053.000	40.1053.033	40.1053.023



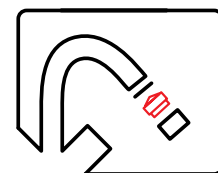
CASCADE SLC

SLC

SLC (Smart Lime Cleaning) for long aerator life span. Simply rub the limescale away with your finger; perfect stream quality.

Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.0058.000	40.0058.033	40.0058.023
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.0060.000	40.0060.033	40.0060.023
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.0056.000	40.0056.033	40.0056.023
STD	PCA 2.2 gpm max. (~8.3 l/min)	yellow	40.0053.000	40.0053.033	40.0053.023

AERATORS





Aerator product lines: inserts with housings for standardised threads



PCA Spray

Spray stream: good water dispersion at low flow rates; recommended for wash troughs in public facilities.



Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 0.35 gpm max. (~1.3 l/min)	brown	A5.9041.1	A5.9241.0	A5.9141.0
STD	PCA 0.5 gpm max. (~1.9 l/min)	lime	A5.9042.1	A5.9242.0	A5.9142.0
STD	PCA 2.5 l/min	green	A5.9044.1	A5.9244.0	A5.9144.0
STD	PCA 3.0 l/min	lilac	A5.9045.1	A5.9245.0	A5.9145.0
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	A5.9046.1	A5.9246.0	A5.9146.0



PCA Spray SLC



Spray stream: good water dispersion at low flow rates; recommended for wash troughs in public facilities. With SLC feature to easily remove limescale deposits.

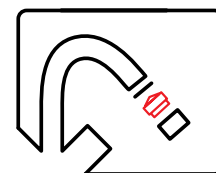
Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 0.35 gpm max. (~1.3 l/min)	brown	40.7268.000	40.7268.033	40.7268.023
STD	PCA 0.5 gpm max. (~1.9 l/min)	lime	40.7259.000	40.7259.033	40.7259.023
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.7258.000	40.7258.033	40.7258.023



MIKADO



The MIKADO aerator turns the stream into an eye-catcher when washing your hands.

Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 0.35 gpm max. (~1.3 l/min)	brown	40.7C68.000	40.7C68.033	40.7C68.023
STD	PCA 0.5 gpm max. (~1.9 l/min)	lime	40.7C59.000	40.7C59.033	40.7C59.023
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.7D58.000	40.7D58.033	40.7D58.023
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.7D60.000	40.7D60.033	40.7D60.023



Spray ITR

Creates a shower stream feeling for the faucet, for hygienic sprays and shower heads.



Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 1.0 gpm max. (3.8 l/min)	blue	40.7A58.000	40.7A58.033	40.7A58.023
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.7A60.000	40.7A60.033	40.7A60.023
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.7A56.000	40.7A56.033	40.7A56.023

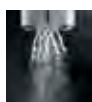


Spray ITR SSR





Creates a shower stream feeling for the faucet, for hygienic sprays and shower heads. Simply change the stream angle ($\pm 7^\circ$) via the insert's tilting plate.

Size	Flow rate	Colour code	Insert only	M24 × 1 	M22 × 1 
STD	PCA 1.0 gpm max. (3.8 l/min)	blue	40.7658.000	40.7658.033	40.7658.023
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.7660.000	40.7660.033	40.7660.023
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.7656.000	40.7656.033	40.7656.023

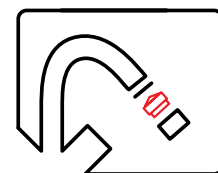


Atomizer

An atomized stream with an ultra-low flow rate. For cold water applications only.

Size	Flow rate	Version	Insert only	M24 × 1 	M22 × 1 
STD	~ 0.1 l/min at 3 bar	single-jet	02.0422.0	01.0423.0	01.0424.0
STD	~ 0.25 l/min at 3 bar	single-jet	02.0423.0	01.0425.0	01.0426.0
STD	~ 0.6 l/min at 3 bar	triple-jet	02.0420.0	01.0418.0	01.0419.0

AERATORS



Aerator product lines: inserts with housings for standardised threads



Shorty

Shorty HONEYCOMB aerators open up new possibilities in faucet design with a shortened housing for a classical yet modern look.

Size	Flow rate	Colour code	Insert only	M24 × 1 (short)	M22 × 1 (short)
STD	PCA 1.0 gpm max. (~3.8 l/min)	blue	40.2958.000	40.2958.243	40.2958.233
STD	PCA 1.2 gpm max. (~4.5 l/min)	pink	40.2960.000	40.2960.243	40.2960.233
STD	PCA 1.5 gpm max. (~5.7 l/min)	green	40.2956.000	40.2956.243	40.2956.233
STD	PCA 2.2 gpm max. (~8.3 l/min)	yellow	40.2953.000	40.2953.243	40.2953.233

Size	Flow rate	Colour code	Insert only	M18 × 1 (short)
TT	PCA 1.0 gpm max. (~3.8 l/min)	blue	44.3958.000	44.3958.243
TT	PCA 1.2 gpm max. (~4.5 l/min)	pink	44.3960.000	44.3960.243
TT	PCA 1.5 gpm max. (~5.7 l/min)	green	44.3956.000	44.3956.243



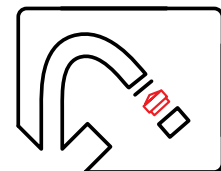
Housing comparison:
classic M24 × 1 and Shorty M24 × 1



Crystal

The Crystal Stream Shaper creates a pleasant laminar stream experience. It stays compact even from a height of 2.5 metres.

Size	Flow rate	Insert
TF	15–25 l/min	02.0650.0





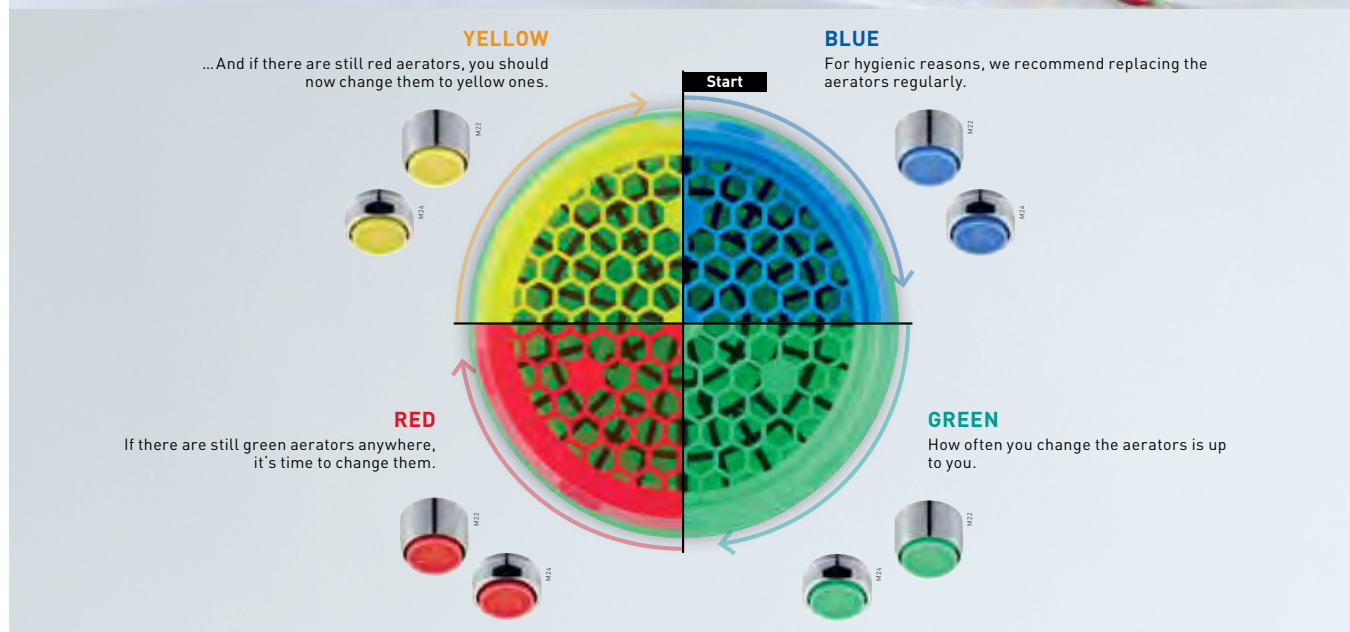
Aerator product lines: inserts with housings for hospitals



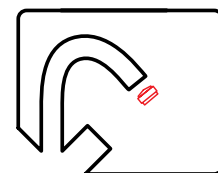
HONEYCOMB Clinic

Improved safety and hygiene for hospitals thanks to an effective four-colour concept – each colour symbolises a replacement cycle.

Size	Flow rate	Insert only	M24 × 1 	M22 × 1 
STD	Z (7.5–9 l/min) Blue	40.2102.0A0	40.2102.3A3	40.2102.2A3
STD	Z (7.5–9 l/min) Green	40.2102.0B0	40.2102.3B3	40.2102.2B3
STD	Z (7.5–9 l/min) Red	40.2102.0C0	40.2102.3C3	40.2102.2C3
STD	Z (7.5–9 l/min) Yellow	40.2102.0F0	40.2102.3F3	40.2102.2F3



AERATORS



Aerator product lines: inserts with thread (without housing)



CACHÉ CASCADE

This threaded aerator insert needs no housing: it is inserted directly in the spout. This offers new possibilities for faucet designers. Note that CACHÉ aerators have special bore specifications.

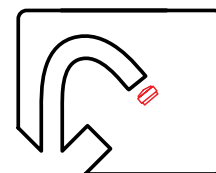
Flow rate	Colour code	M24×1 (STD)
PCA 0.35 gpm max. (~1.3 l/min)	brown	40.1268.010
PCA 0.5 gpm max. (~1.9 l/min)	lime	40.1259.010
PCA 1.0 gpm max. (~3.8 l/min)	blue	40.1258.010
PCA 1.2 gpm max. (~4.5 l/min)	pink	40.1260.010
PCA 1.5 gpm max. (~5.7 l/min)	green	40.1256.010
PCA 2.2 gpm max. (~8.3 l/min)	yellow	40.1253.010



CACHÉ PCA Spray

This threaded aerator insert needs no housing: it is inserted directly in the spout. This offers new possibilities for faucet designers. Note that CACHÉ aerators have special bore specifications.

Flow rate	Colour code	M16.5×1 (TT)	M18.5×1 (TJ)	M21.5×1 (JR)	M24×1 (STD)
PCA 0.35 gpm max. (~1.3 l/min)	brown	44.7368.010	–	42.7368.010	40.7368.010
PCA 0.5 gpm max. (~1.9 l/min)	lime	44.7359.010	43.7359.010	42.7359.010	40.7359.010
PCA 1.0 gpm max. (~3.8 l/min)	blue	44.7358.010	43.7358.010	42.7358.010	40.7358.010



CACHÉ PERLATOR® HC

This threaded aerator insert needs no housing: it is inserted directly in the spout. This offers new possibilities for faucet designers. Note that CACHÉ aerators have special bore specifications.

Flow rate	Colour code	M16.5×1 (TT)	M18.5×1 (TJ)	M21.5×1 (JR)	M24×1 (STD)
PCA 1.0 gpm max. (~3.8 l/min)	blue	44.3258.010	43.2258.010	42.2258.010	40.2258.010
PCA 1.2 gpm max. (~4.5 l/min)	pink	44.3260.010	43.2260.010	42.2260.010	40.2260.010
PCA 1.5 gpm max. (~5.7 l/min)	green	44.3256.010	43.2256.010	42.2256.010	40.2256.010
PCA 2.2 gpm max. (~8.3 l/min)	yellow	44.3253.010	43.2253.010	42.2253.010	40.2253.010

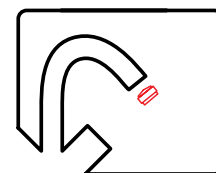


PERLATOR® Coin Slot

This threaded aerator has an integrated coin slot for easy installation and removal with a coin. 100 % compatible with M24×1 bore dimensions.

Flow rate	Colour code	M24×1 (STD)
PCA 1.0 gpm max. (~3.8 l/min)	blue	45.2058.000
PCA 1.2 gpm max. (~4.5 l/min)	pink	45.2060.000
PCA 1.5 gpm max. (~5.7 l/min)	green	45.2056.000
PCA 2.2 gpm max. (~8.3 l/min)	yellow	45.2053.000

AERATORS



Aerator product lines: speciality with rectangular stream shape



PERLATOR® Rectangular

Enables uniquely shaped water stream, thus offering completely new options in tap design.




Size	Flow rate	Colour code	Insert
32×8 mm	PCA 1.2 gpm max. (~4.5 l/min)	pink	02.3234.0
32×8 mm	PCA 1.5 gpm max. (~5.7 l/min)	green	02.3236.0

ACCESSORIES



NEOPERL® service keys facilitate the installation and removal of aerators. They offer a means of avoiding unsightly scratches on chrome surfaces. Our range not only includes individual keys, but also versatile multi-purpose or universal keys and tools for the professional plumber.

Service keys

	Model	Part no.
	Universal key (metal) Suitable for: M22×1 and M24×1 (STD), M28×1 (TF) CACHÉ aerators (STD, JR, TJ, TT)	09.9160.0
	Standard key, blue Suitable for: M22×1 and M24×1 (STD), M28×1 (TF)	09.9101.0
	Aerator service box Keys suitable for: M18×1 (TT), M20×1 (TJ), M24×1 (STD), M28×1 (TF) vandal-proof housings (STD, JR, TJ) CACHÉ aerators (STD, JR, TJ, TT) SLIM M18×1, SLIM Air & SSR M24×1 aerators RECTANGULAR aerators NANOPERL aerators	35.6207.0

FLOW REGULATORS



Flow regulators maintain a defined, virtually constant flow rate regardless of pressure fluctuations. You can use flow regulators as a retro-fit component to reduce water consumption in showers, shuttles and bib taps.


NEOPERL® flow regulators comprise a precision control o-ring, a core and, depending on the model, a housing. The gap between the o-ring and the teeth of the core is the opening through which the water flows.

Flow regulators for retro-fit

PCW-01 washer regulator



Two functions in one: regulating and sealing. Replaces the washer in shower hoses.

	Flow rate	Colour	Part no.	Size
	1.0 gpm max. (~3.8 l/min)	dark blue	58.8644.1	½" connection
	1.5 gpm max. (~5.7 l/min)	green	58.8645.1	½" connection
	2.2 gpm max. (~8.3 l/min)	yellow	58.8648.1	½" connection
	4.0 l/min	dark grey	58.8634.1	½" connection
	6.0 l/min	black	58.8636.1	½" connection
	9.0 l/min	orange	58.8639.1	½" connection
	12.0 l/min	red	58.8642.1	½" connection

PCW-02 washer regulator




Two functions in one: regulating and sealing. Replaces the washer in shower handles or bib taps.

	Flow rate	Colour	Part no.	Size
	1.0 gpm max. (~3.8 l/min)	dark blue	58.9170.1	½" connection
	1.5 gpm max. (~5.7 l/min)	green	58.9171.1	½" connection
	2.2 gpm max. (~8.3 l/min)	yellow	58.9174.1	½" connection
	4.0 l/min	dark grey	58.9086.1	½" connection
	6.0 l/min	black	58.9088.1	½" connection
	9.0 l/min	orange	58.9091.1	½" connection
	12.0 l/min	red	58.9094.1	½" connection

PCR-E Shower Connection ½" x ½"



Simply insert the ½" screw connection between shower faucet and hose. Easy to install – perfect for retrofit.

	Flow rate	Part no.
	4.0 l/min	A5.2213.0
	6.0 l/min	A5.2217.0
	9.0 l/min	A5.2223.0
12.0 l/min	A5.2226.0	

PRESSURE LIMITER



Where clogged nozzles, high line pressure and/or water hammer may lead to a sudden increase in pressure and hence damage or deform 'end-of-line' applications, a **pressure limiter** is used to limit this risk. It keeps the downstream pressure on the application at a pre-defined level. This results in a constant flow rate and supports the design of required flow patterns due to the pressure being constant.

Application areas



Shower handle



Rain shower



Shattaf

The end-of-line application can be constructed in a 'lighter' fashion since by using a pressure limiter it is only ever subjected to a maximum pressure of 1 bar.



Design

supply pressure
1 - 10 bar



The defined downstream pressure of 1 bar provides a constant flow rate. This supports the design of required flow patterns due to the pressure staying constant at 1 bar.

Model

	Model	Part no.
	Pressure Limiter G1/2" 1 bar	A5.0006.0
	Pressure Limiter insert	A5.0004.0

DIVERTERS



Diverter valves are used to switch the water stream from the tub filler position to the shower hose. NEOPERL® diverters meet the performance requirements on switch-back pressure and durability according to EN200/EN817 water supply system type 1. Self-retaining down to 0.2 bar according to EN200 – type 2.

Product lines

Model	Material	Part no.
DVA	Brass	18.0020.0
DVA-CV	Brass	18.0042.0
DVLA-CV	Brass	18.0032.0
DVA-H1	Hybrid	18.1320.0
DVA-H1-D	Hybrid	18.1321.0
DVA-H1-CV-D	Hybrid	18.1343.0
DVLA-H1-D	Hybrid	18.1332.0



SWIVEL ADAPTERS





Swivel adaptors can be connected to any standard faucet thread, enabling the aerator to spray water into every corner of the sink or bidet. Rely on proven quality and a first-class chrome finish – cylindrical or angular, with a wide range of matching aerators.

Product lines

CACHÉ swivel adapter

	Part no.	Connecting thread	Aerator thread	Suitable aerators
	06.7100.0	Male M24 × 1	M21.5 × 1 CACHÉ JR	CACHÉ JR aerators
	06.7060.0	Male M18.5 × 1 CACHÉ TJ	M18.5 × 1 CACHÉ TJ	CACHÉ TJ aerators

Swivel joints



	Part no.	Connecting thread	Aerator thread
	06.0100.0	Female M22 × 1	Female M22 × 1
	06.2200.0	Male M24 × 1	Male M24 × 1

CONNECTING HOSES



FLEXCORE connecting hoses are very flexible and kink-free and thus suitable for extremely small mounting spaces. They are approved for drinking water use.

Product line-up

DN8	Type	Overall length (in mm)*			
	G1/2" x G1/2"	350	450	600	900
	G1/2" x M10 x 1	350	450	600	900

* other lengths available on request

Inliner



corrugated

Application areas



Technical information

Operating/max temperature	70°C	Tensile strength	>1400 N	Braided outer diameter	11.9 mm
Max. working pressure	10 bar	Bending radius	25 mm	Flow rate (300mm, 3 bar, open atmosphere)	28 l/min
Burst pressure	>100 bar	Bending behaviour	<15%		

Attainable standards



SHOWER HOSES



With a wide range of colours, surface finishes, fittings and connections, the CHROMALUX shower hose collection offers a vast choice of innovative versions. Neoperl shower hoses not only look good, they also comply with all of the technical requirements laid down in DIN EN 1113. The fittings and connections have a high-quality chrome finish or can be coated in the same colour as the hose to order.

CHROMALUX Supreme



chrome



polished brass



shiny black



shiny white

CHROMALUX Metallic



chrome

CHROMALUX Agraff



chrome-plated



electro-polished

CHROMALUX Stainless

(for shattaf application)



stainless steel

General information

Standard lengths: 150, 175, 200 cm

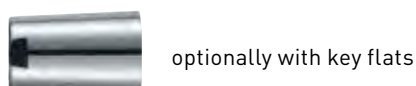
Standard connections: 30 cm cone with G 1/2" thread; with or without key flats

Optional: revolving connections eliminate the problem of the hose becoming twisted in the shower area.

Note: Other fittings and connections available upon request. All shower hoses are supplied with plastic caps to protect the cones.



G 1/2"



optionally with key flats

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