



waterlimited![®]
SIMPLE SOLUTIONS

NEOPERL[®]

flow, stop and go[®]

**NEOPERL Watersaving Products -
simple, effective and low cost solutions**

brought to you by

VERTECO


save water
uae









Aerators



Aerators are found in nearly all kitchen and lavatory faucets. An aerator is a key component in the overall performance of the faucet. Here is how you should expect your aerator to perform: control the stream straightness and diameter; reduce splash by aerating the stream and eliminating side spray; save water and reduce energy costs; meet local plumbing codes and standards.

Atomizer aerator - Atomizers are special aerators with a minimal flow rate (water-saving). The atomization is achieved by dispersing the water into tiny droplets. By contrast with the very small amount of water used, the wetted surface is quite huge.

CASCADE® SLC aerator - SLC (Smart Lime Cleaning), for a maximum lifespan of your faucet aerator. Removing limescale is easy thanks to a soft elastomer layer.

| | | Description | Insert | Female M22×1 | Male M24×1 |
|--|---|---|-------------------------|-------------------------|-------------------------|
|  |  | ATOMIZER Single Jet 0.02 gpm (0.1 l/min) | part no. 02.0422.000 | part no. 02.0422.023 | part no. 02.0422.033 |
|  |  | ATOMIZER Single Jet 0.06 gpm (0.25 l/min) | part no. 02.0423.000 | part no. 02.0423.023 | part no. 02.0423.033 |
|  |  | ATOMIZER Triple Jet 0.15 gpm (0.6 l/min) | part no. 02.0420.000 | part no. 02.0420.023 | part no. 02.0420.033 |
|  |  | CASCADE® SLC PCA® 1.0 gpm max. (3.8 l/min) | part no. 40.0058.000 | part no. 40.0058.023 | part no. 40.0058.033 |
|  |  | CASCADE® SLC PCA® 1.5 gpm max. (5.7 l/min) | part no. 40.0056.000 | part no. 40.0056.023 | part no. 40.0056.033 |

Large variety of flow rates available.

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Dual Flow Units



Default:
Atomized Stream
(0.2 litres/min |
0.05gpm)

After Switch:
Spray Stream
(Flow regulated
1.2gpm max)

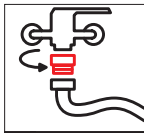
Dual Flow Aerator - Slide part no. 07.4531.000



Dual Flow Aerator - Push part no. 07.4530.000



PCR-E 1/2" x 1/2" Shower Connection



A water saving element for shower faucets. Simply insert the 1/2" screw connection between faucet and shower hose. Easy to install and therefore perfect for retrofit.

PCR-E 4 l/min (grey) part no. A5.2213.0

PCR-E 6 l/min (black) part no. A5.2217.0

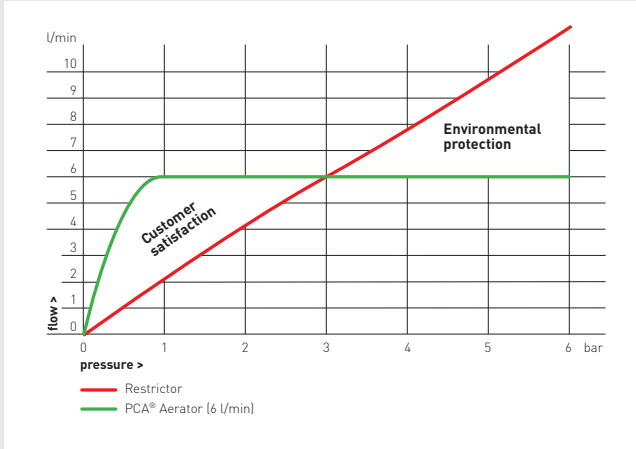
PCR-E 9 l/min (orange) part no. A5.2223.0

PCR-E 12 l/min (red) part no. A5.2226.0

Large variety of flow rates available.



NEOPERL® PCA® Watersaving Technology



Restricted vs. flow regulated

NEOPERL water saving products ensure that as much water as necessary is used (Customer satisfaction), but only as little as possible is consumed (Environmental protection) to provide comfort of use while conserving water.



There are two options to control the flow. The most common option is a fixed orifice designed to allow a predetermined flow at a specified pressure (e.g. 3 bar). These products are referred to as “restricted” in the NEOPERL literature. By definition, restricted devices provide insufficient flow at low pressure and excess flow at high pressure. The other option is the flow regulator technology. The **pressure compensating flow regulator** ensures a constant flow rate regardless of pressure fluctuations.

Working Principle Flow Regulator



Static conditions (no flow, or low pressure)
The elastomer is relaxed (position 1).

Dynamic conditions (flow)

The elastomer subjected to the line pressure is compressed into the seating area which reduces the water passage (position 2). As the pressure increases the elastomer is compressed further into the seating area and reduces the water passage further (position 3). As the pressure decreases the elastomer relaxes and reopens the water passage (return to position 2 and 1).





brought to you by VERTECO
Polyclean Building, Al Quoz 3,
PO Box 54287, Dubai United
Arab Emirates

T: +971 4 338 1155
E: info@verteco.ae

www.verteco.com
www.SaveWaterUAE.com