

**FILTER CARTRIDGES**

# SX, BX, CX

Extensive range of filter cartridges for every application in water filtration and water treatment, made with the most appropriate filtering and treatment media.

- **SX cartridges** fit to standard Atlas Filtri SX housings, as well as most standard housings available from the market.
- **Exclusive BX and CX cartridges with double o-ring collar** fit to proprietary Atlas Filtri BX and CX housings, DP housings, K housings, Depural Top housings.

The cartridges standard heights range from 4" to 50", depending on model and configuration.

The standard filter rates range from Ultra-filtration at 0.02 micron to nominal filtration at 100 micron, providing any kind of filtration requirement. The standard treatment media are made from Granular Activated Carbon (GAC), Carbon Block, Polyphosphate, Ionic Exchange Resins.

Custom made heights, filter rates, treatment media are available on request. Atlas Filtri cartridges are manufactured with the finest and most advanced materials under constant focus on innovative processing technologies and ceaseless modernization to ensure the absolute quality of our products.

A wide range of cartridges are certified under the most stringent certification procedures and standards: TIFQ (Italy), ACS (France), GOST (Russia).

Dedicated accessories are available on demand: FilterFit, centering device which holds cartridges perfectly standing inside DP housings; Containing Sponge, designed to hold in place treatment media for the filling of P type empty cartridges (containers).

# CARTRIDGES CONFIGURATION

## FOR FILTERS SX, BX, CX

Atlas Filtri® cartridges are available in a wide range of end-caps configurations to provide:

- the widest compatibility to housings for cartridges with standard configuration SX with flat seals and double open end (DOE). The major part of housings in the market are suitable to this standard.
- a range of quick-fit double o-ring cartridges with proprietary configurations BX, AX, CX to ensure: perfect watertight fit, safer for micro-filtration; simple and rapid maintenance operations; perfect cartridge standing and elimination of wrong positioning; market exclusivity.



## SX

**Standard double open end (DOE) configuration with flat seals.**

Fit to SX housings, DP housings, Depural®, Depural® Top, Bravo DP, Oasis DP.



## BX

**Quick-fit configuration with 45 mm double o-ring collar.**

Fit to Plus 3P BX housings, DP housings, K Plus 3P housings, Depural® Top, Bravo DP, Oasis DP.



## CX

**Quick-fit configuration with 57 mm double o-ring collar.**

Fit to Plus 3P CX and K DP housings.

## CERTIFICATIONS



The products are tested and certified under the most stringent procedures worldwide, achieving the **sanitary certification GOST (Russia)**.

## TERMS LEGEND

### Filtration

Filter rate in micron.

### Flow rate

In liters per hour (l/h), the flow rate for ideal filtration using a new cartridge.

### Average life-span

The average working life of the cartridge. Working life depends on the type of application, and on the level of filtration, the cartridge material, the type of maintenance that can be carried out and, especially, depends on the quality of the water being treated. The quality of the water is an extremely variable factor and thus the average life-span is indicated for a mains water supply with average European potable water characteristics.

### Maintenance

Type and frequency of applicable maintenance operations.

## WATER TREATMENT PRODUCTS BULKS

### Polyphosphate crystals 10/20

- 0,5 Kg pack
- 1,5 Kg pack
- 25 kg pack

### Polyphosphate crystals 6/10

- 0,5 Kg pack
- 1,5 Kg pack
- 25 kg pack

### Granular activated carbon

- 0,3 kg pack
- 20 kg pack

### Strong cationic resin (softening)

- 25 litres pack

### Strong anionic resin (anti-nitrates)

- 25 litres pack

### Mixed bed resin (demineralisation)

- 25 litres pack

## SYMBOLS LEGEND



For domestic use



For technical and industrial use



CB-EC cartridges are the only environmentally friendly carbon block element, made with a proprietary technology reducing green house gas emissions in activated carbon production.

## CARTRIDGES RANGE

### Cartridges for mechanical filtration

#### WASHABLE CARTRIDGES

**RL** - polyester net. Filtration 50 micron.

**RL C** - polyester net. Filtration 50 micron.

**RL A** - stainless steel net. Filtration 70 micron.

**RS** - polyester net. Filtration 50 micron.

**RA** - stainless steel net. Filtration 70 micron.

**SA** - stainless steel net. Filtration 50 micron.

#### FILTRATION IN DEPTH

**FA** - wound polypropylene thread.  
Filtration from 1 to 100 micron.

**FA HOT** - wound polypropylene thread  
with special inner core, for hot water.  
Filtration from 1 to 100 micron.

**CPP** - melt-blown polypropylene smooth.

**PP** - melt-blown polypropylene grooved.

**TS** - polyester fabric. Filtration 50 micron.

**CS** - special paper. Filtration 25 micron.

**GA** - quartzite. Filtration 10 micron.

**AB** - ceramic. Filtration 0,45 micron.

**AC** - polypropylene-borosilicate multi-layer.  
Filtration 0,2 micron and 0,45 micron.

### Cartridges for water treatment

#### GRANULAR ACTIVATED CARBON

Reduction of chlorine, taste, odour (CTO); volatile organic compounds (VOC) pesticides, insecticides, chlorinated organic compounds.

#### GRANULAR ACTIVATED CARBON

**LA** - granular activated carbon from coconut shell.

#### GRANULAR ACTIVATED CARBON AND FILTER MEDIUM

**FA-CA** - wound polypropylene thread. Filtration from 5 to 100 micron.  
Granular activated carbon from coconut shell.

**CA** - melt-blown polypropylene. Filtration 25 micron. Granular activated carbon from coconut shell.

**BT CPP LA** - melt-blown polypropylene. Filtration from 1 to 50 micron.  
Granular activated carbon from coconut shell.

#### ACTIVATED CARBON BLOCK

Reduction of chlorine, taste, odour (CTO); volatile organic compounds (VOC) pesticides, insecticides, chlorinated organic compounds, heavy metals (Pb), bacteria and virus.

**CA SE** - activated carbon block from coconut shell. Filtration from 0,3 to 5 micron.

**CA-SE HF** - activated carbon block from coconut shell and hollow-fiber membranes.  
Filtration 0,15 and 0.02 micron. Antibacterial.

**CB-EC** - activated carbon block from coconut shell. Filtration from 1 to 10 micron.

#### POLYPHOSPHATE CRYSTALS

Anti-scale treatment

**HA** - polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 80/778.

**BT CPP HA** - melt-blown polypropylene. Filtration from 1 to 50 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

**BT RL HA** - polyester net. Filtration 50 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

**FA HA** - wound polypropylene thread. Filtration from 5 to 100 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

**CPP HA** - melt-blown polypropylene. Filtration 5 and 25 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

#### IONIC EXCHANGE RESINS

**QA CF** - cationic resin. Reduction of total hardness.

**QA AF** - anionic resin. Reduction of nitrates.

**QA LM** - mixed bed of cationic and anionic resins. Demineralization.

#### EMPTY CONTAINERS

**P** - containers to be filled up with water treatment products.

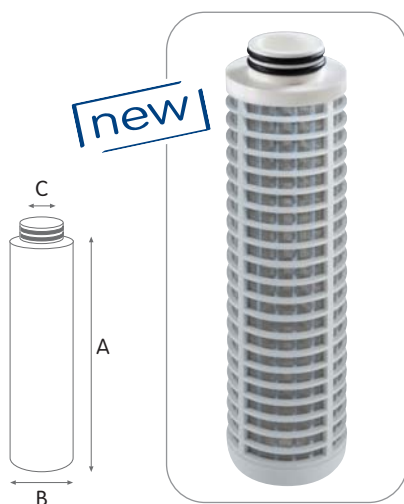
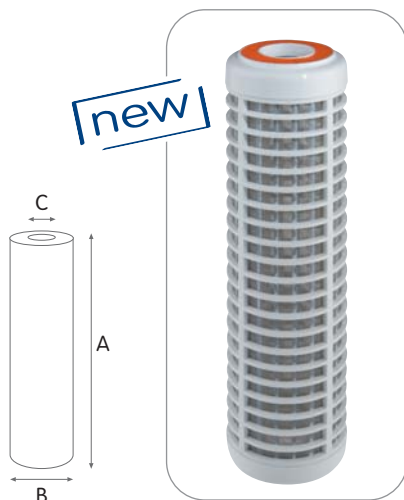


# RL A stainless steel washable net AISI 316

## Sediment filtration.

**Average life-span:** 2 - 3 years.

**Maintenance:** wash every month at least.



RL A are available in a variety of:

## CONFIGURATIONS:

- SX standard configuration double open end (DOE) available for every height and diameter.
- BX proprietary configuration with double o-ring collar 45 mm, suitable to PLUS 3P BX housings, DP housings, K PLUS 3P housings.
- CX proprietary configuration with double o-ring collar 57 mm, suitable to PLUS 3P CX, K DP housings.

## MODELS:

- RL A series from 10" to 20" OD 2.40" ID 1.10", SX, BX, CX configurations.

Variants available on minimum quantity:

- RL A series at 30" and 40".

## CERTIFICATIONS



RL A cartridges are tested and certified under the most stringent procedures worldwide, achieving the **certification of compliance with DM 174/2004 (TIFQ Italy)**.

## WORKING CONDITIONS

Max working temperature \_\_\_\_\_ 45°C (113°F)

## SPECIFICATIONS

Non-toxic materials, suitable for drinking water.

Filter medium: stainless steel net AISI 316.

Armouring and end caps: polypropylene.

Flat seals SX: SEBS.

O-rings BX and CX: EPDM.

Cartridges with stainless steel net and plastic frame, with consistent water flow and very low pressure drop, filtration at 70 micron. The cartridges are manufactured without glue and sealants, nets are included while molding the structural frame. Available with height 10" and 20".

## RL A SX

### STAINLESS STEEL WASHABLE NET WITH DOUBLE OPEN END (DOE)

| CODE                | MODEL             | NOMINAL HEIGHT | NOMINAL FILTRATION MICRON | NOMINAL FLOW/RATE l/h | DIMENSIONS MM |    |    |
|---------------------|-------------------|----------------|---------------------------|-----------------------|---------------|----|----|
|                     |                   |                |                           |                       | A             | B  | C  |
| OD 2,40" x ID 1,10" |                   |                |                           |                       |               |    |    |
| RA5465119           | RL A 10 SX 70 mcr | 10"            | 50                        | 2500                  | 250           | 70 | 30 |
| RA5467119           | RL A 20 SX 70 mcr | 20"            | 50                        | 4000                  | 505           | 70 | 30 |

## RL A BX

### STAINLESS STEEL WASHABLE NET WITH DOUBLE O RING COLLAR 45 MM

| CODE                | MODEL             | NOMINAL HEIGHT | NOMINAL FILTRATION MICRON | NOMINAL FLOW/RATE l/h | DIMENSIONS MM |    |    |
|---------------------|-------------------|----------------|---------------------------|-----------------------|---------------|----|----|
|                     |                   |                |                           |                       | A             | B  | C  |
| OD 2,40" x ID 1,10" |                   |                |                           |                       |               |    |    |
| RA5465219           | RL A 10 BX 70 mcr | 10"            | 50                        | 2500                  | 250           | 70 | 30 |
| RA5467219           | RL A 20 BX 70 mcr | 20"            | 50                        | 4000                  | 505           | 70 | 30 |

## RL A CX

### STAINLESS STEEL WASHABLE NET WITH DOUBLE O RING COLLAR 57 MM

| CODE                | MODEL             | NOMINAL HEIGHT | NOMINAL FILTRATION MICRON | NOMINAL FLOW/RATE l/h | DIMENSIONS MM |    |    |
|---------------------|-------------------|----------------|---------------------------|-----------------------|---------------|----|----|
|                     |                   |                |                           |                       | A             | B  | C  |
| OD 2,40" x ID 1,10" |                   |                |                           |                       |               |    |    |
| RA5465319           | RL A 10 CX 70 mcr | 10"            | 50                        | 2500                  | 250           | 70 | 40 |
| RA5467319           | RL A 20 CX 70 mcr | 20"            | 50                        | 4000                  | 505           | 70 | 40 |

## FLOW RATE vs PRESSURE DROP $\Delta p$

Tests carried on 10" elements type **RL A 10 SX**.

Testing mode: 20°C, 3 BAR

