

# PRODUCT CATALOGUE 2019

FIRST-CLASS COMPONENTS FOR THE  
SANITARY INDUSTRY



**sedal**  
THE FAUCET'S HEART

# SMART WEBSITE

Sedal introduces its new website with lots of new features. Automated tools, easy navigation menus, intuitive filters and accessible information make this website the smartest we have ever had.

With this website renovation, Sedal continues its way to reach excellence in every detail. Continuous improvement is embedded in everything we do to offer the best user experience possible.

You are invited to visit [www.sedal.com](http://www.sedal.com) to feel the experience and quickly find the information you are looking for.

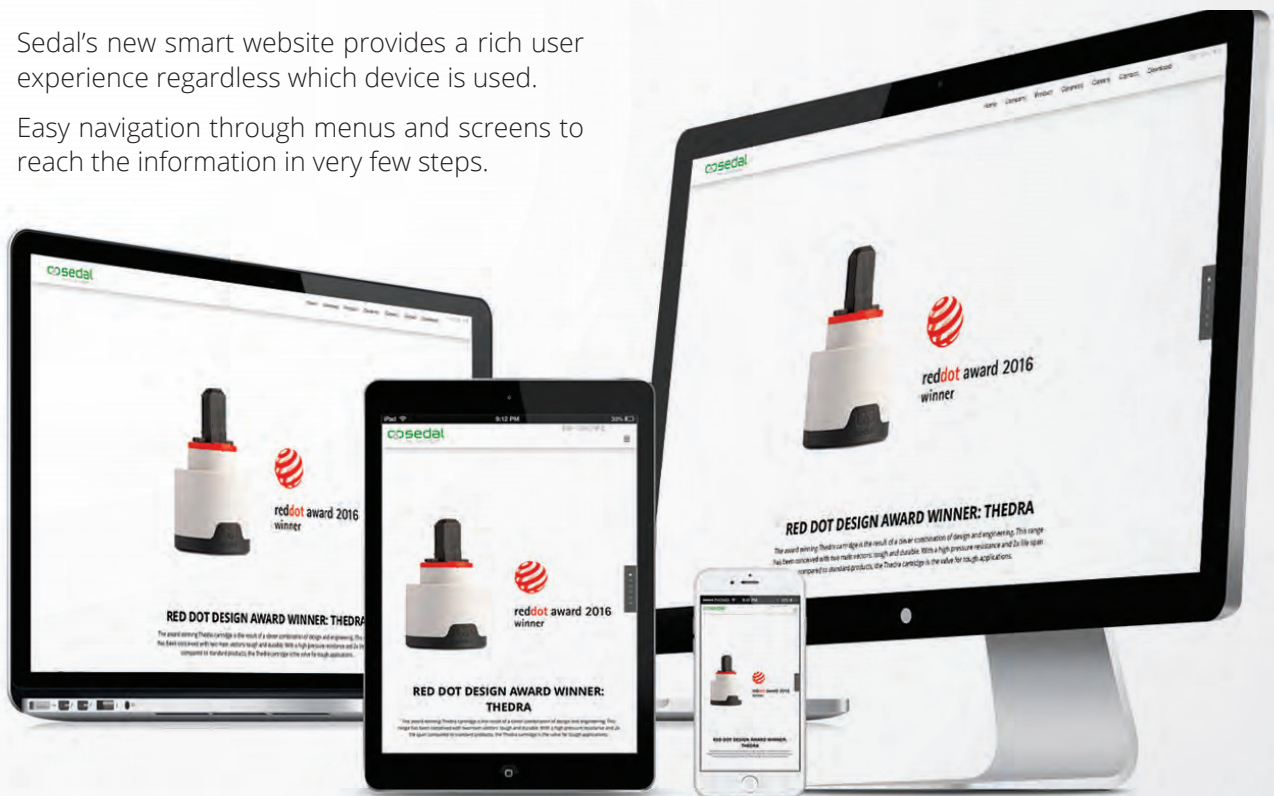




## MULTI-PLATFORM SUPPORT

Sedal's new smart website provides a rich user experience regardless which device is used.

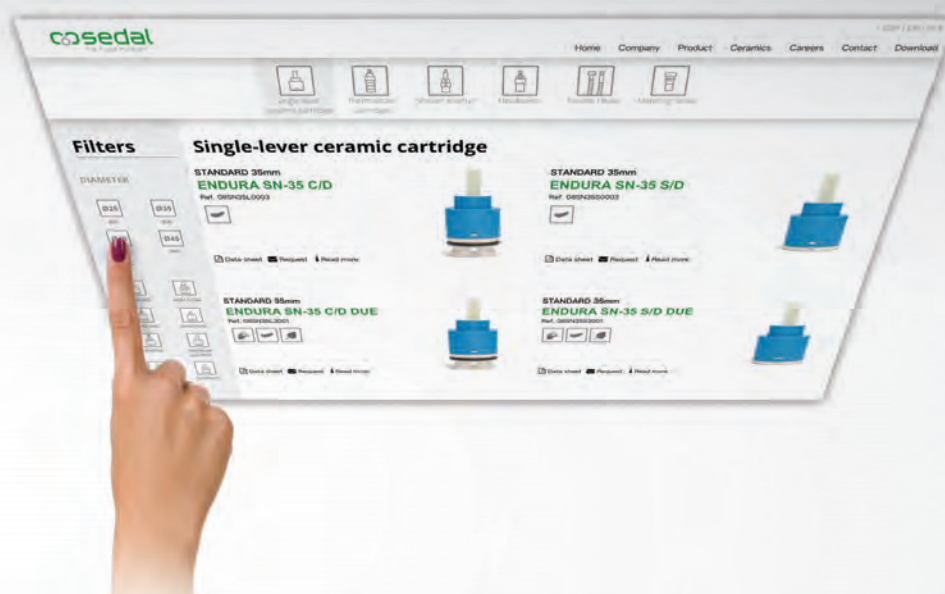
Easy navigation through menus and screens to reach the information in very few steps.



## SMART PRODUCT SELECTOR

The new Smart Product Selector is an intuitive and powerful tool to find the product you are looking for just in a few seconds.

You can filter the product portfolio by family, size, type and functions and the system interactively displays the products that match your search. Once you finish the search you will be able to navigate or download the Data Sheet, request samples or ask for additional information from the product.



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# THERMOSTATIC CARTRIDGES

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# FAUCET SYSTEMS


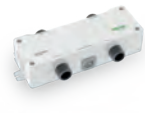



## DIGITAP

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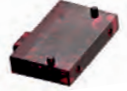
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# COMPANY: INNOVATING EVERYDAY

SEDAL Group is a leading global manufacturer of components for the faucet and sanitary industry. Founded in 1984, we have since then constantly grown and expanded our activities. Today we offer a wide range of products and solutions that meet the most demanding customer's requirements.

Headquartered in Spain, SEDAL is active in over 44 countries around the world, which provides us with a broad knowledge of the market. Following our vision, we pursue technical excellence in every single product we develop. Our team of engineers takes care of achieving new technical challenges to keep our customers satisfied. Deep know how in critical faucet components such as ceramic cartridges, headworks, thermostatic cartridges, flexible connections or diverters leads us to be the preferred supplier for some of the largest faucet manufacturers worldwide.

We invite you to learn more about our full product range on this catalogue and at [www.sedal.com](http://www.sedal.com)

## SEDAL GROUP COMPANIES

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**cosedal**  
THE FAUCET'S HEART

**sedal**  
CERAMICS

YOUR  
TECHNICAL  
CERAMICS  
PARTNER

**sedal**  
CONNECT





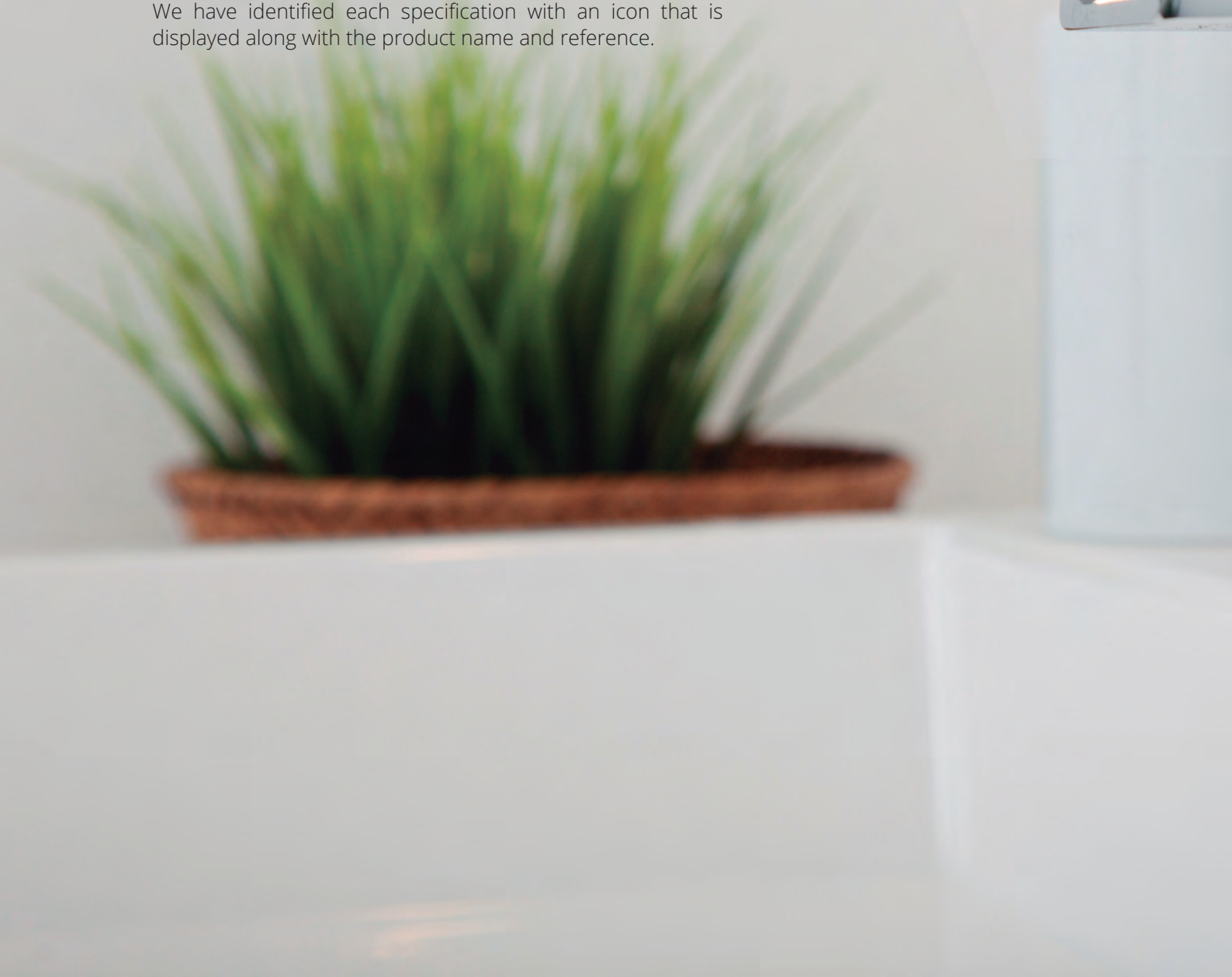


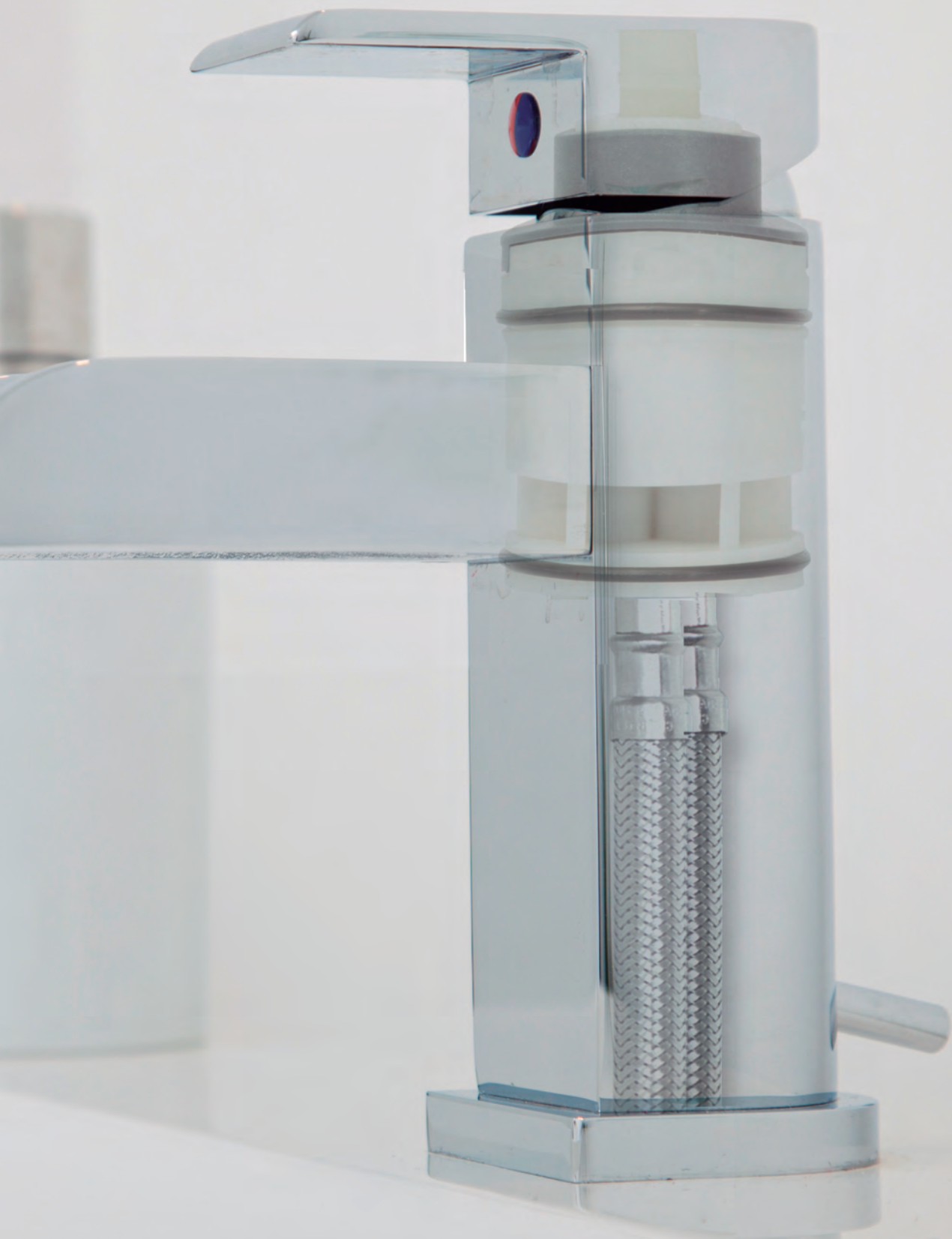


# CARTRIDGES FOR SINGLE LEVER FAUCETS

The ceramic cartridge is the component giving the faucet its main functionalities. SEDAL develops a range of cartridges starting from entry level valves to specific designs to improve our customer productivity and give the consumer an excellent balance between features and user experience.

We have identified each specification with an icon that is displayed along with the product name and reference.










**25MM & 28MM  
CARTRIDGES**

*FOR SINGLE  
LEVER FAUCETS*


# INDEX · 25 & 28MM CARTRIDGES

## 25<sub>MM</sub>


### SN

25MM			METAL LEVER		CODE	PAGE
			✓	SD		
		SN-25	✓	CD	08SN25LG000	16
		COLD	✓	CD	08SN25L1503	18
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			-	CD	08E25LBL02	23
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### UPPER SEALING

28MM		COMPACT EX-28	METAL LEVER		CODE	PAGE
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			-	SD	08EX28L0002	34

# SN-25

## DESCRIPTION

---

New SN-25 cartridges from SEDAL have been designed to perform above standards including robust lever design, smooth operation and higher flow than previous versions, providing great value-added products for the faucet's manufacturer.

## FEATURES

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### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### LEVER VARIANTS

This cartridge allows different lever versions, such as metal lever.

## ADVANTAGES

---

### ● IMPROVED PERFORMANCE

25mm cartridges are typically more sensitive to tough conditions, so we developed a new 25mm valve improving the technical specifications to achieve the best performance.

- +30% flow rate increase
- +20% smoothness operation torque
- -50% noise reduction

### ● MORE ENDURANCE

The application of new technologies inside our cartridges has extended SN-25 endurance:

- 1x ASME / EN life cycle
- Improved plastic material robustness
- +50% Increased torque resistance
- +30% Increased flexion resistance

### ● TOUGH CONSTRUCTION FOR SMALL FAUCETS DESIGN

The small size of SN-25 makes it specially suitable for slim design faucets, allowing the manufacturer to innovate with its design without giving up the high-performance and robustness of the product.

### ● DIFFERENT VERSIONS AVAILABLE

SN-25 cartridge is available with and without distributor. There is also a metal lever version compatible with C/D and S/D bases.

## SN-25 C/D

REF. 08SN25LG000



## SN-25 S/D

REF. 08SN25FG000



### RECOMMENDED APPLICATIONS



#### WASHBASIN

Specially designed for washbasins.



#### SHOWERS

Specially designed for one outlet showers.



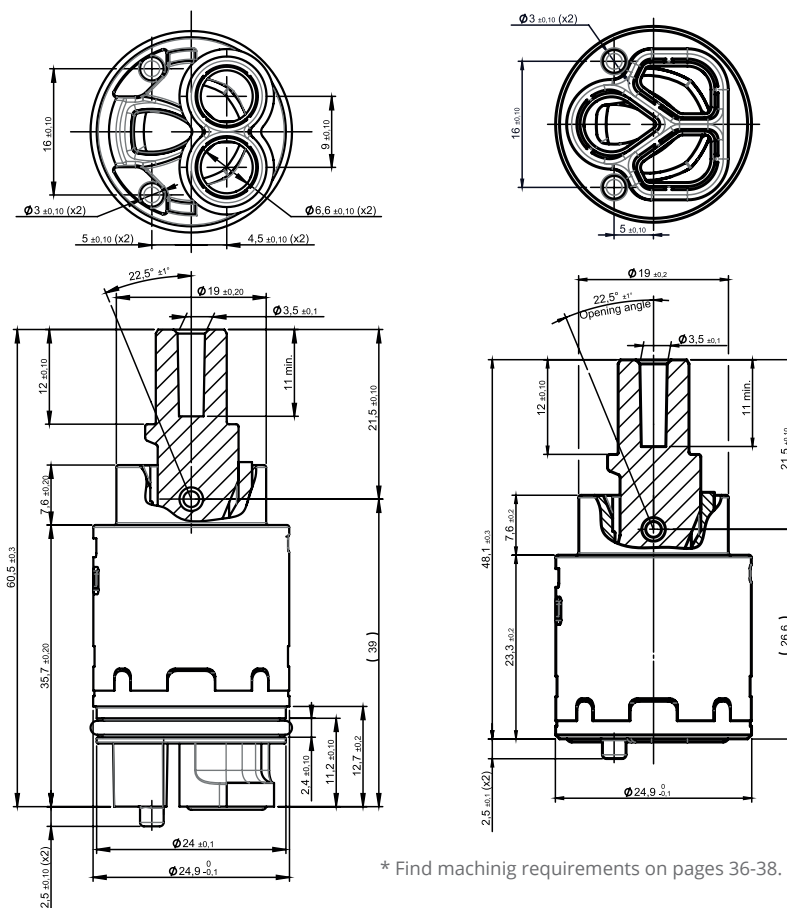
#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### DIMENSIONS



\* Find machining requirements on pages 36-38.

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.25	7-8Nm	7-8Nm
Opening angle	22.5°	22.5°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity (r=45mm)	>12 mm	>12 mm
Fidelity	<5°C	<5°C
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C
Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.15-0.35 Nm	0.15-0.35 Nm
Flow rate (free flow)	C/D (basin)	S/D (basin)
at 0.2 bar	3.3 l/min	4.8 l/min
at 1 bar	10 l/min	10.8 l/min
at 3 bar	17.2 l/min	18.3 l/min
at 5 bar	21.9 l/min	22.4 l/min
Flow rate (free flow)	C/D (bath)	S/D (bath)
at 0.2 bar	3.2 l/min	5.6 l/min
at 1 bar	11.1 l/min	12.1 l/min
at 3 bar	19.1 l/min	20.8 l/min
at 5 bar	24.2 l/min	26.5 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.



# SN-25

## COLD

### DESCRIPTION

---

New SN-25 cartridges from SEDAL have been designed to perform above standards including robust lever design, smooth operation and higher flow than previous versions, providing great value-added products for the faucet's manufacturer.

### ADVANTAGES

---

- *ADDITIONAL FEATURES*  
SN-25 Cold has the same advantages than SN-25, but with cold technology as an additional feature.

### FEATURES

---



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.

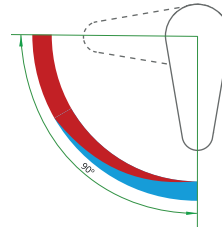


**LEVER VARIANTS**  
This cartridge allows different lever versions, such as metal lever.



**COLD**  
Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.

- *COLD TECHNOLOGY*  
The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



## SN-25 C/D

COLD

REF. 08SN25L1503



## SN-25 S/D

COLD

REF. 08SN25S1503



### RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.

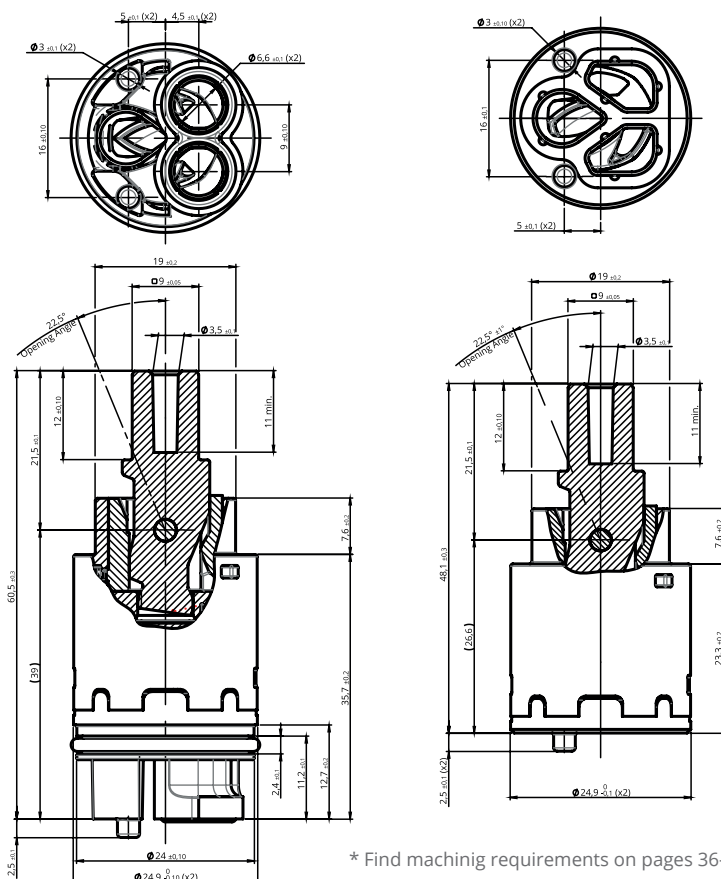


**KITCHENS**  
Suitable for use in kitchens.

### CERTIFICATIONS



### DIMENSIONS



\* Find machining requirements on pages 36-38.

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.25	7-8Nm	7-8Nm
Opening angle	22.5°	22.5°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity (r=45mm)	>12 mm	>12 mm
Fidelity	<5°C	<5°C
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.15-0.35 Nm	0.15-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	3 l/min	3.2 l/min
at 1 bar	7 l/min	7.4 l/min
at 3 bar	12 l/min	12.6 l/min
at 5 bar	15.30 l/min	16.1 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# SN-25 COLD MIRROR

## DESCRIPTION

New SN-25 cartridges from SEDAL have been designed to perform above standards including robust lever design, smooth operation and higher flow than previous versions, providing great value-added products for the faucet's manufacturer.

## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### LEVER VARIANTS

This cartridge allows different lever versions, such as metal lever.



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### MIRROR

Movement from right to left to obtain hot water.

## ADVANTAGES

### ADDITIONAL FEATURES

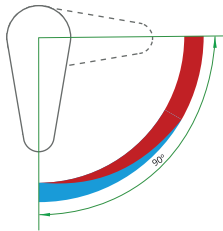
SN-25 Cold mirror has the same advantages than SN-25, but with cold mirror technology as an additional feature.

### COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.

### SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

Mirror version has been specifically designed for kitchen applications, avoiding the inconvenience of the handle touching the wall.



## SN-25 C/D COLD MIRROR

REF. 08SN25L1504



DOWNLOAD  
DATA SHEET

## SN-25 S/D COLD MIRROR

REF. 08SN25S1504

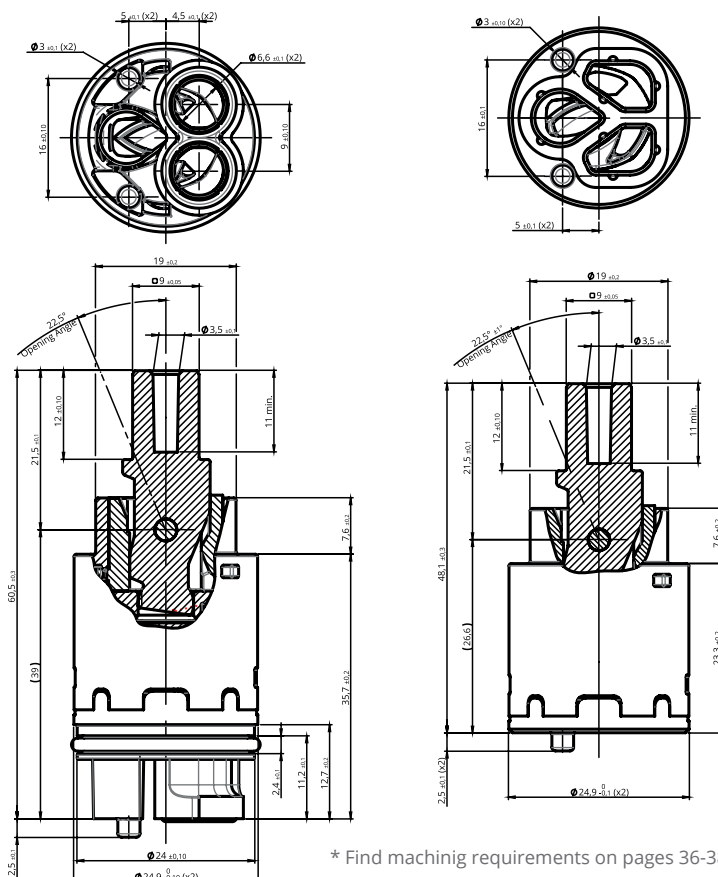


ALSO WITH  
METAL LEVER



DOWNLOAD  
DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 36-38.

### RECOMMENDED APPLICATIONS



**KITCHENS**  
Specially designed for  
kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.25	7-8Nm	7-8Nm
Opening angle	22.5°	22.5°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity (r=45mm)	>12 mm	>12 mm
Fidelity	<5°C	<5°C
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.15-0.35 Nm	0.15-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	3 l/min	3.2 l/min
at 1 bar	7 l/min	7.4 l/min
at 3 bar	12 l/min	12.6 l/min
at 5 bar	15.30 l/min	16.1 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.



# STANDARD CARTRIDGES

## DESCRIPTION

---

25mm traditional cartridge that matches perfectly with slim faucet designs.

## ADVANTAGES

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- *TOUGH CONSTRUCTION FOR SMALL FAUCETS DESIGN*  
The small size of E-25 makes it specially suitable for slim design faucets.
- *DIFFERENT VERSIONS AVAILABLE*  
Available with and without distributor.

## E-25 C/D

REF.08E25LBL02



## E-25 S/D

REF.08E25FBL02



### RECOMMENDED APPLICATIONS

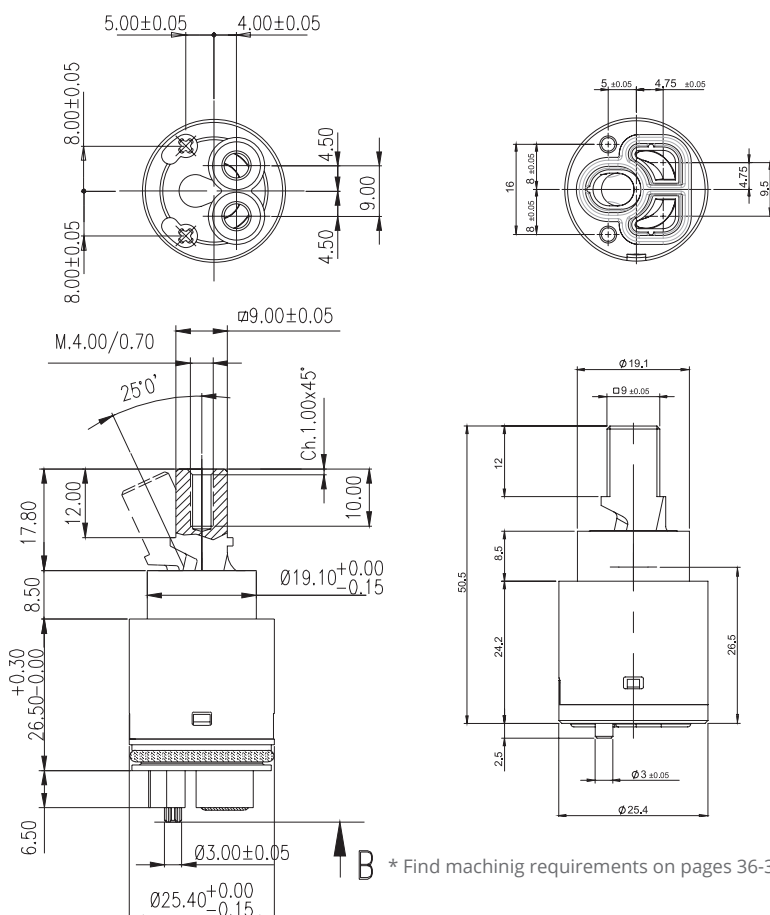


**WASHBASIN**  
Specially designed for washbasins.

### CERTIFICATIONS



### DIMENSIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	7-8Nm	7-8Nm
Opening angle	22.5°	22.5°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	25-30 bar	>35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity (r=45mm)	>10° angle	>10 mm
Fidelity	<5°C	<5°C
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4 °C - <6 °C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.25 Nm	0.25-0.30 Nm
Turn left-right	0.25-0.30 Nm	0.25-0.30 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	4.8 l/min	4.8 l/min
at 1 bar	6.4 l/min	6.4 l/min
at 3 bar	10.5 l/min	10.5 l/min
at 5 bar	13.6 l/min	13.6 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# SN-25

## ECOFLOW

### DESCRIPTION

Ecoflow cartridges have been designed for applications where a low flow is required to fulfill the latest standards and market trends. The low flow that a manufacturer would normally reach with the use of restrictors, can be reached by using the Ecoflow cartridge with an aireator, suppressing the negative effects of the current solutions. The Ecoflow 25 is specifically designed to deliver 5.5 liters @3 bar without using restrictors. It also includes a clutch for a perfect operational feel and a high maximum torque resistance to withstand harsh environments.

### ADVANTAGES

- **SN TECHNOLOGY**  
Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life)
- **IMPROVED FLOW-RATE VS HANDLE STROKE**  
Existing solutions offer a very limited opening stroke to regulate the flow. With ECOFLOW, the entire stroke is available.



### FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.

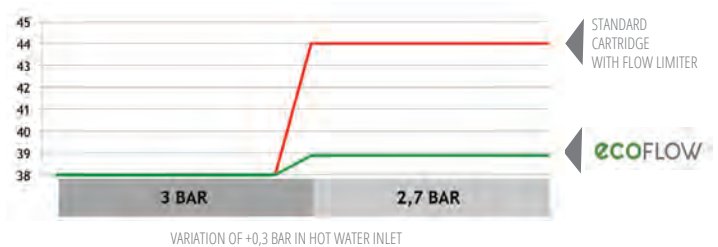


**REGULATIONS**  
This cartridge is optimized according to WaterSense and Water Label requirements.



**RESTRICTOR**  
The cartridge includes itself a restrictor that reduces the flow rate to save water.

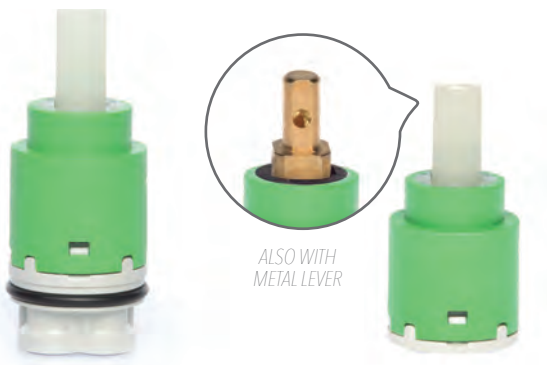
- **REDUCES TEMPERATURE FLUCTUATION**  
When using a flow limiter in the spout combined with standard cartridges, the user can experience strong changes in water temperature. The new ECOFLOW Tech valves provide an excellent temperature stability in front of pressure variations in cold and hot water supply lines at low flow rates.



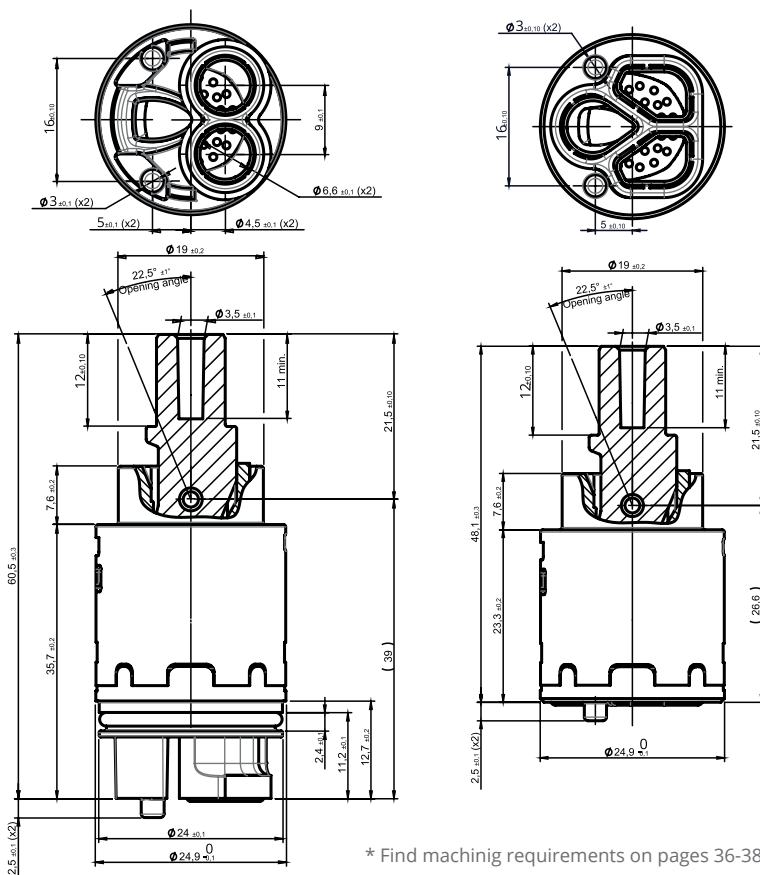
- **THE USAGE OF A RESTRICTOR IS OPTIONAL**  
The flow rate reduction is carried out at the right place. With ECOFLOW the usage of a limiter or restrictor is optional.

**SN-25 C/D**  
 ECOFLOW  
 REF.08SN25L0001

**SN-25 S/D**  
 ECOFLOW  
 REF.08SN25S0002



**DIMENSIONS**



\* Find machining requirements on pages 36-38.

**RECOMMENDED APPLICATIONS**



**WASHBASINS**  
 Specially useful for low flow washbasins.

**CERTIFICATIONS**



\* Optimised for WaterSense and WaterLabel

**TECHNICAL SPECIFICATIONS**

General	C/D	S/D
Nut torque pitch M1.5	7-8Nm	7-8Nm
Opening angle	22.5°	22.5°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<3°	<3°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.15-0.35 Nm	0.15-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.1 bar	1.1 l/min	1.1 l/min
at 1 bar	3.6 l/min	3.6 l/min
at 3 bar	5.5 l/min	5.5 l/min
at 5 bar	7.4 l/min	7.4 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.



# REVOLVING GI-25

## DESCRIPTION

Revolving cartridges include a turning lever in order to mix water and provide better control of the flow rate.

## FEATURES



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### REVOLVING

This cartridge has a turning lever from 0° to 180°.



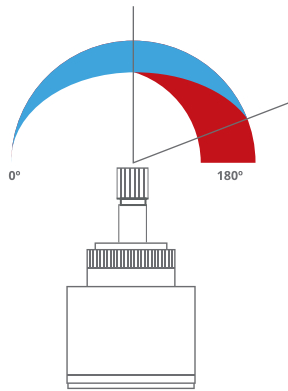
### METALLIC LEVER

This revolving cartridge has metallic lever

## ADVANTAGES

### ● REVOLVING MOVEMENT

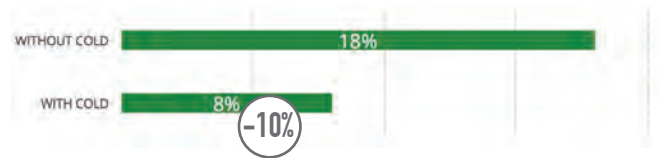
25mm revolving cartridge has a rotation angle of 180° from cold to hot.



### ● COLD TECHNOLOGY

The cartridge starts in cold position by default, saving energy consumption related to plumbing products in the household.

HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



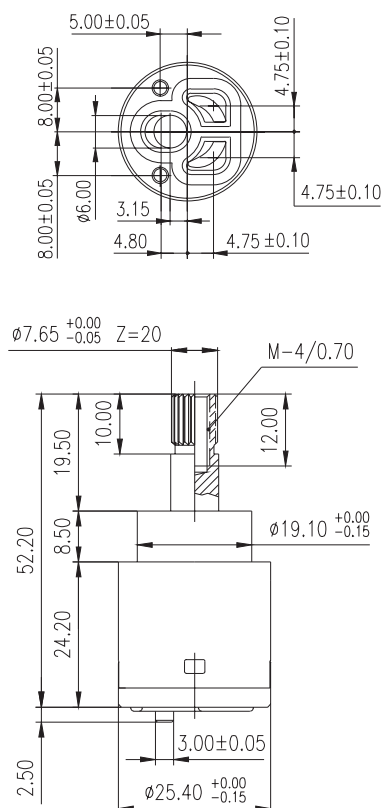
# GI-25 S/D

REF. 08GI25FBL00



DOWNLOAD  
DATA SHEET

## DIMENSIONS



\* Find machining requirements on pages 36-38.

## RECOMMENDED APPLICATIONS



**DECORATIVE WASHBASINS**  
Specially designed for decorative faucets.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	7-8Nm
Rotation angle	180°
Working pressure (recommended)	1 - 5 bar
Burst pressure	25-30 bar
Life cycle - EN 200	200,000 cycles
ASME 112.18.1 M	500,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.50-0.40 Nm

Flow rate (free flow)	S/D
at 0.5 bar	3.9 l/min
at 1 bar	5.6 l/min
at 3 bar	9.6 l/min
at 5 bar	12.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# DIVERTER

## GD-25

### DESCRIPTION

The GD25 diverter from Sedal is a high end 25mm valve that provides smooth operation along with a defined feeling of safety and precision thanks to the metallic lever and a high precision ceramic set. The operation torque has been improved while keeping a small footprint. Works perfectly paired with our TM006 Thermostatic cartridge for showers.

### FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**METALLIC LEVER**  
This revolving cartridge has metallic lever.



**OUTLETS**  
Diverter cartridge with two outlets.



**ROTATION ANGLE**  
Diverter cartridge with 90° rotation angle.

### ADVANTAGES

● *SLIM BODY SHOWERS WITH HIGH FLOW*

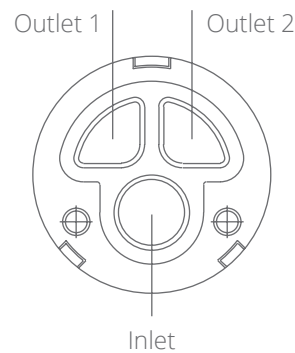
The GD25 has a high flow rate @3 bar, allowing to build slim body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.

● *MORE ENDURANCE*

Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal lever improves the user perception of quality and precision in a small cartridge.

● *DIVERTER FUNCTIONALITY*

This cartridge fits specially good in bath showers because allows to have two different outlets while keeping slim designs. Mixed water enters inlet 3 and exits either outlet 1 or 2.



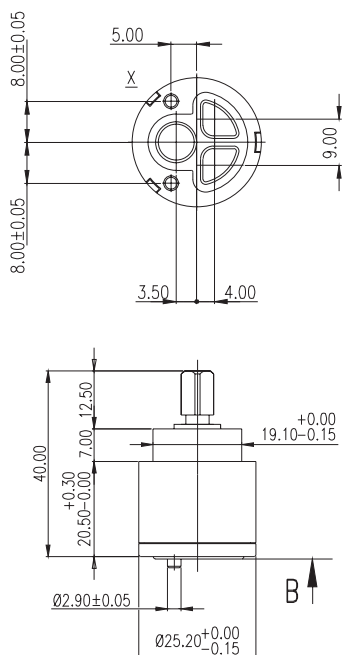
## GD-25 S/D

REF. 08GD25FAZ00



DOWNLOAD  
DATA SHEET

### DIMENSIONS



### RECOMMENDED APPLICATIONS



#### SHOWERS DIVERTERS

Specially designed for showers with diverters.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	7-8Nm
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	30-35 bar
Life cycle - EN 817	70,000 cycles
ASME 112.18.1 M	500,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.22-0.25 Nm

Flow rate (free flow)	S/D
at 0.5 bar	6.8 l/min
at 1 bar	9.3 l/min
at 3 bar	16 l/min
at 5 bar	20.4 l/min

\* Find machining requirements on pages 36-38.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# JOYSTICK

## JY-25

### DESCRIPTION

Joystick cartridges have a similar functionality as standard cartridges, although the special design of their levers allows smooth 360° movements. Very popular in some countries, Joystick cartridges provide a natural movement especially with vertical levers. The JY25 from Sedal is a very compact Joystick cartridge specially developed for slim bodies or cascade tap designs.

### ADVANTAGES

- **SMALLEST IN THE MARKET**  
25mm joystick is the smallest in the industry, allowing the manufacturer to design slim faucets.
- **NEW CERAMICS DISC GEOMETRY**  
JY-25 C/D has a new ceramics disc geometry that allows its smooth 360° movement.
- **ROBUST DESIGN**  
25mm joystick has a robust design, withstanding higher levels of burst pressure.
- **HIGHER FLOW RATE**  
JY-25 C/D has higher flow rates than previous versions.

### FEATURES



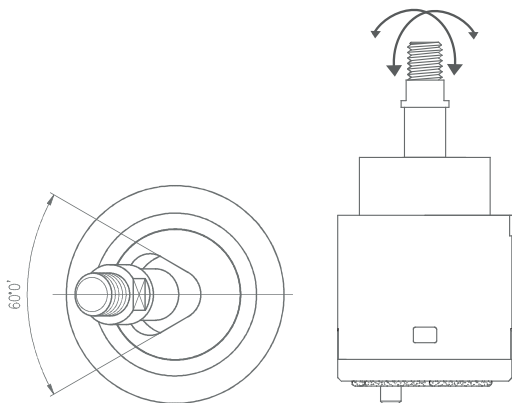
#### JOYSTICK

Joystick cartridge with smooth 360° movement.



#### METALLIC LEVER

This joystick cartridge has metallic lever





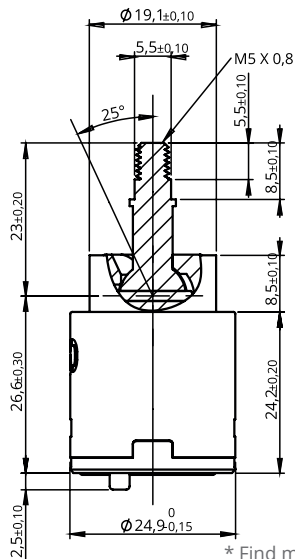
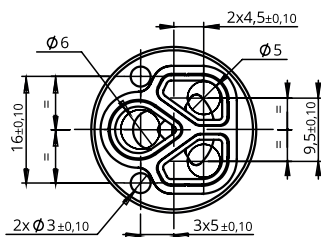
# JY-25 S/D

REF. 08JY25S1101



DOWNLOAD DATA SHEET

## DIMENSIONS



\* Find machining requirements on pages 36-38.

## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	7-8 Nm
Opening angle	25°C
Rotation angle	80°
Working pressure (recommended)	1 - 5 bar
Burst pressure	40-50 bar
Life cycle - EN 817	70,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.20-0.25 Nm

Flow rate (free flow)	S/D
at 0.5 bar	5.3 l/min
at 1 bar	7.3 l/min
at 3 bar	12.3 l/min
at 5 bar	15.9 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# UPPER SEALING

## GC-25

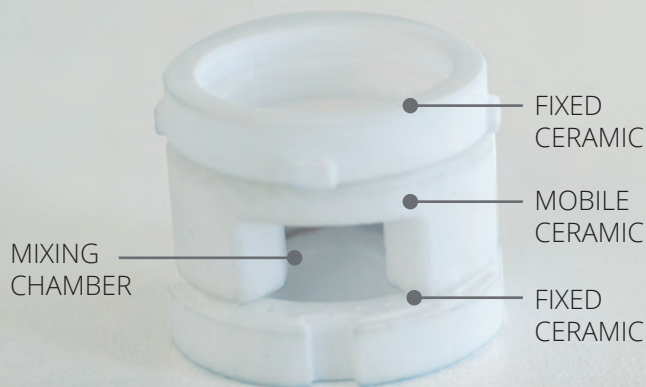
### DESCRIPTION

Upper sealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side.

Some of these cartridges also provide extra productivity thanks to their design.

### ADVANTAGES

- **TRIALOX TECHNOLOGY**  
The new GC-25 Trialox features a new ceramic design that boosts its life expectancy while improving consistently the comfort of operation. Sedal's Trialox Technology is at the heart of this upper sealing 25mm cartridge to deliver a significant high flow for such a small footprint.
- **NEW REVOLUTIONARY CERAMIC SET**  
The GC-25 Trialox consists on a mobile ceramic sandwiched between two fixed ones, instead of the classic two ceramic construction. The water flows inside GC-25 through the lower ceramic to the mixing chamber. The upper fixed ceramic ensures leakage protection while keeping operation smooth.

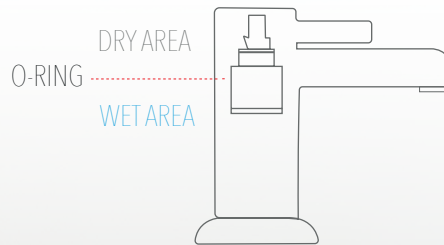


### FEATURES



**METALLIC LEVER**  
This joystick cartridge has metallic lever

- **ALLOWS DIFFERENT FAUCET CONFIGURATIONS**  
Allows the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side.



- **HIGH PERFORMANCE**  
Along with a high flow, the GC-25 Trialox ensures a full EN817 or ASME cycling while keeping the torque of operation and comfort parameters regularly.

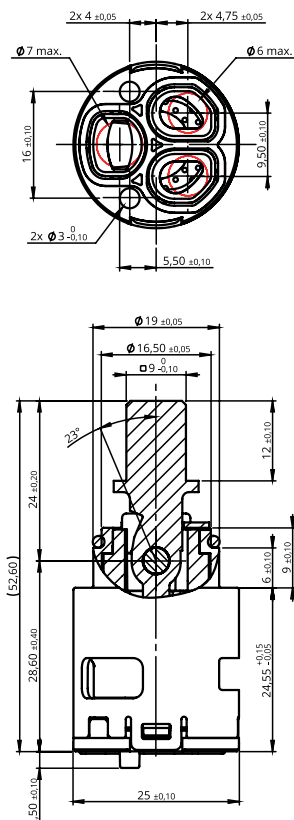
# GC-25 S/D

REF. 08GC25S0009



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## DIMENSIONS



## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	7-8 Nm
Opening angle	23°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817	70,000 cycles
ASME A112.18.1	500,000 cycles
Sensitivity (r=52mm)	11°-13° angle
Fidelity	<3°C
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C- <6°C
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.15-0.40 Nm
Open-close	0.15-0.40 Nm

Flow rate (free flow)	S/D
at 0.5 bar	6.2 l/min
at 1 bar	9.2 l/min
at 3 bar	16.1 l/min
at 5 bar	20.9 l/min

\* Find machining requirements on pages 36-38.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# SN-28 CARTRIDGES

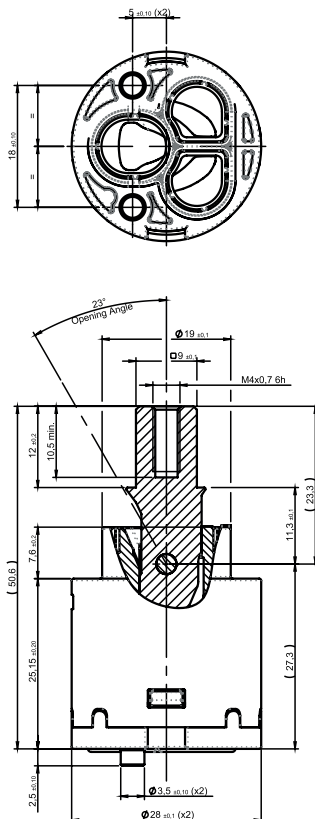
## SN-28 S/D

REF. 08SN28S0002



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DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 36-38.

### DESCRIPTION

The SN28 cartridge provides a slim design capability but not as thin as 25mm cartridges, resulting in an interesting intermediate way in between 35mm and 25mm taps. It features soft operational movement thanks to a clutched ceramic movement and high grade ceramics.

### FEATURES



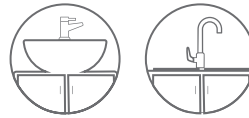
#### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.

### ADVANTAGES

The manufacturer can keep a slim design but can obtain a higher flow rate.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	7-8Nm
Opening angle	23°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
ASME 112.18.1 M	500,000 cycles
Sensitivity (r=45mm)	>10 mm
Fidelity	<5°C
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C
Max. hot water*	90 °C

Operation Torque	S/D
Open-close	0.15-0.30 Nm
Turn left-right	0.25-0.35 Nm

Flow rate (free flow)	S/D
at 0.2 bar	5.7 l/min
at 1 bar	12 l/min
at 3 bar	20.3 l/min
at 5 bar	25.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# COMPACT

## EX-28

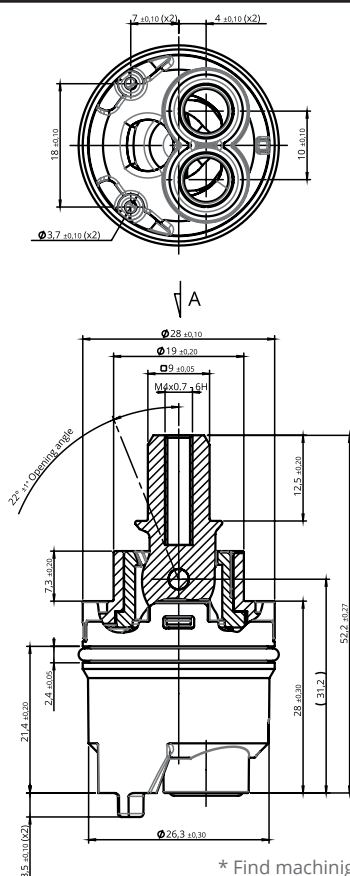
### EX-28

REF. 08EX28L0002



DOWNLOAD  
DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 36-38.

### DESCRIPTION

Compact 28 mm cartridge specially designed for short faucets.

### ADVANTAGES

#### MINIMALISM WITH HIGH PERFORMANCE

Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges.

### RECOMMENDED APPLICATIONS



**CONCEALED WASHBASINS**  
Specially designed for washbasins.



**CONCEALED SHOWERS**  
Specially designed for one outlet showers.



**CONCEALED KITCHENS**  
Suitable for use in kitchens.

### TECHNICAL SPECIFICATIONS

General	EX-28
Nut torque pitch M1.5	8 Nm
Opening angle	22°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817	140,000 cycles
ASME 112.18.1 M	500,000 cycles
Sensitivity	10°-12° angle
Fidelity	3 °C
Max. hot water*	90 °C

Operation Torque	EX-28
Open-close	0.15-0.25 Nm

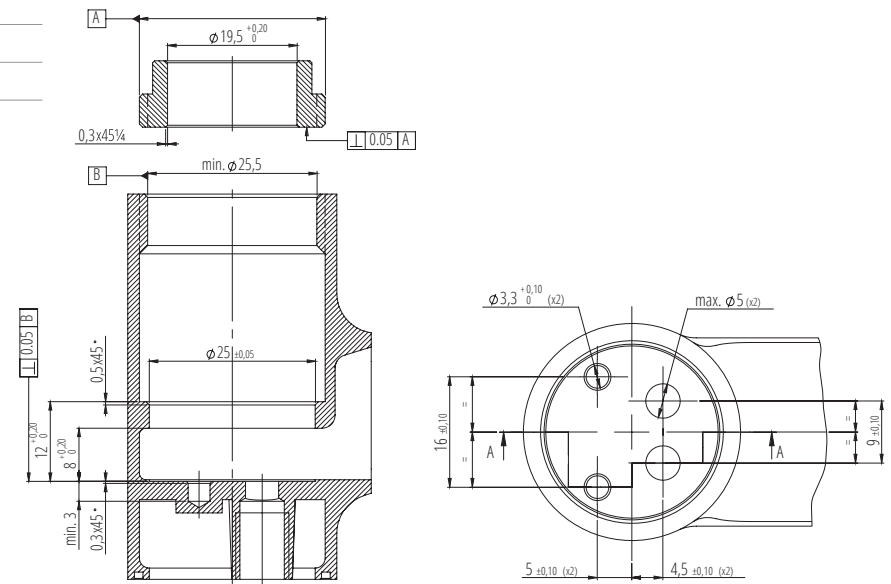
Flow rate (free flow)	EX-28
at 0.5 bar	8.6 l/min
at 1 bar	12.2 l/min
at 3 bar	21.2 l/min
at 5 bar	27.5 l/min

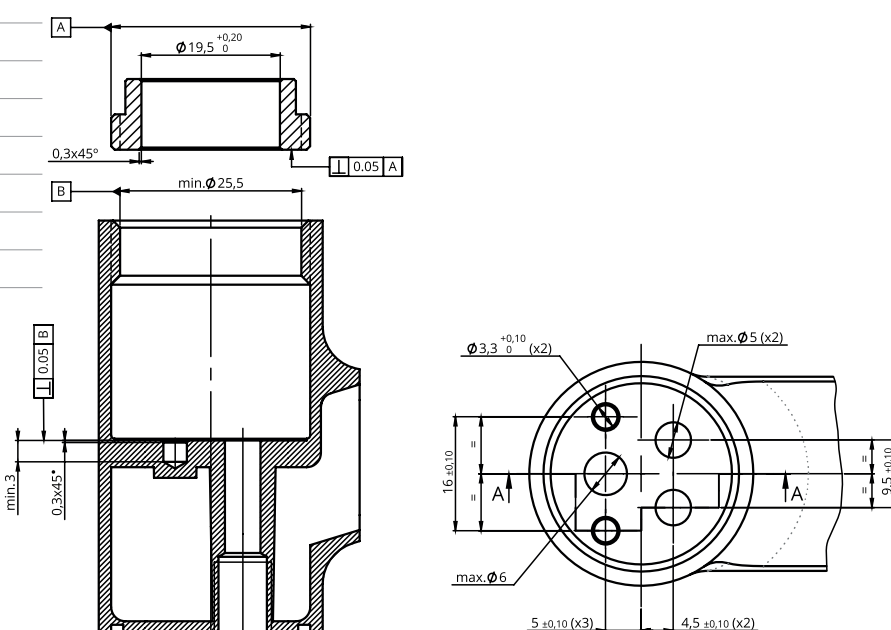
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.



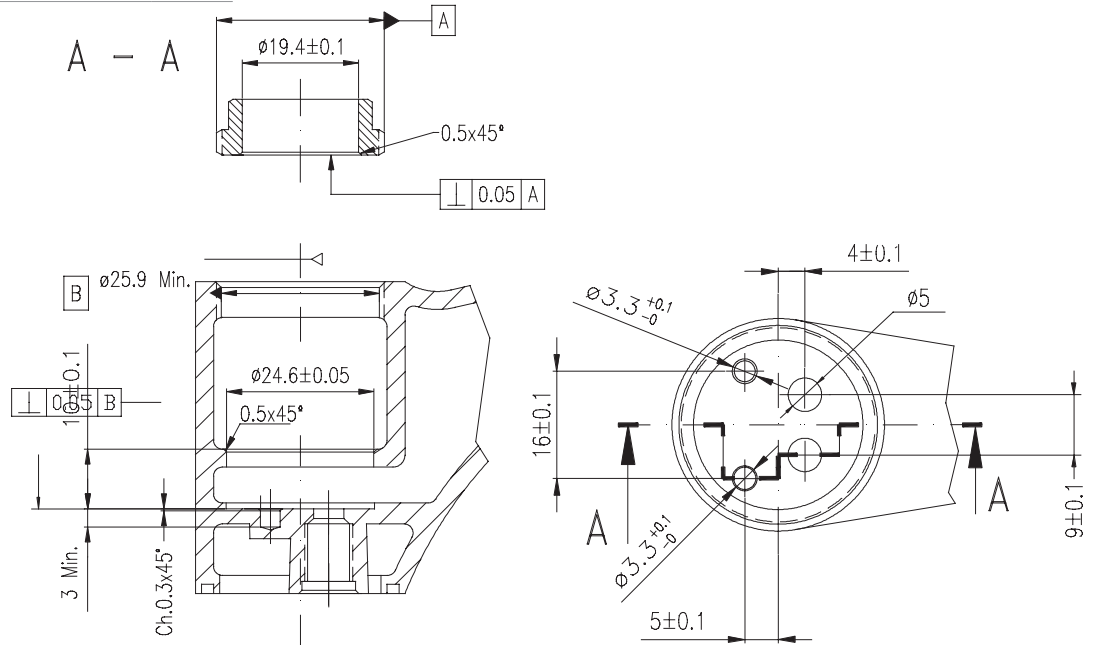
# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

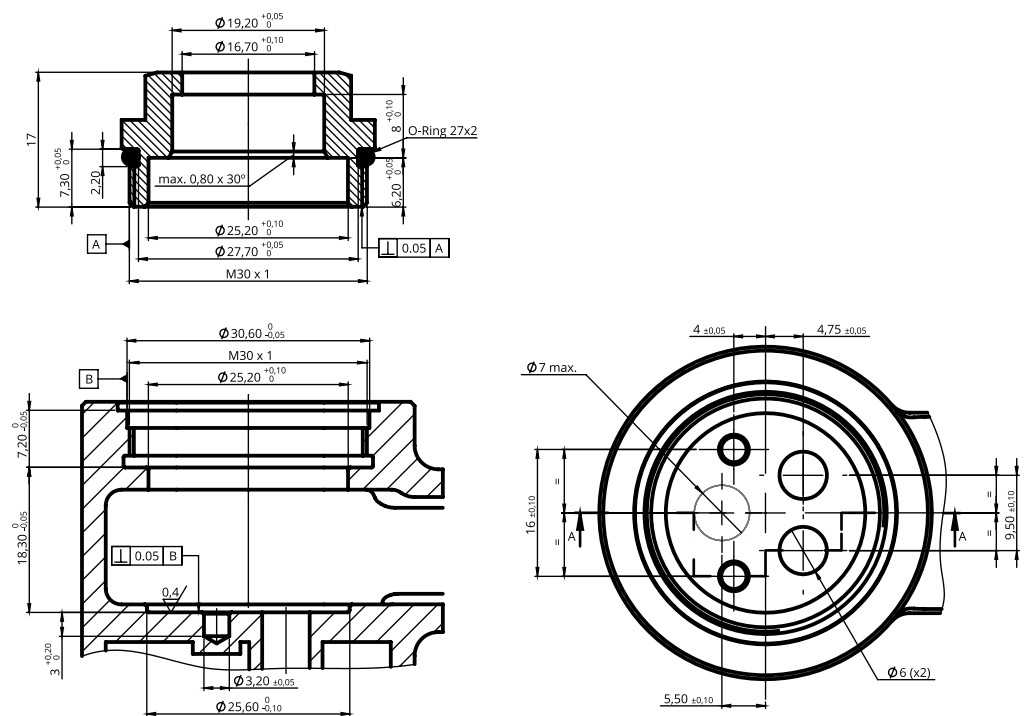
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
25 mm	SN-25 C/D	08SN25LGO00	16	
	SN-25 C/D COLD	08SN25L1503	18	
	SN-25 C/D COLD MIRROR	08SN25L1504	20	
	SN-25 C/D ECOFLOW	08SN25L0001	24	

DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
25 mm	SN-25 S/D	08SN25FGO00	16	
	SN-25 S/D COLD	08SN25S1503	18	
	SN-25 S/D COLD MIRROR	08SN25S1504	20	
	SN-25 S/D ECOFLOW	08SN25S0002	24	
	E-25 S/D	08E25FBL02	22	
	GI-25 S/D	08GI25FBL00	26	
	GD-25 S/D	08GD25FAZ00	28	
	JY-25 S/D	08JY25S1101	30	

DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
25 mm	E-25 C/D	08E25LBL02	22	



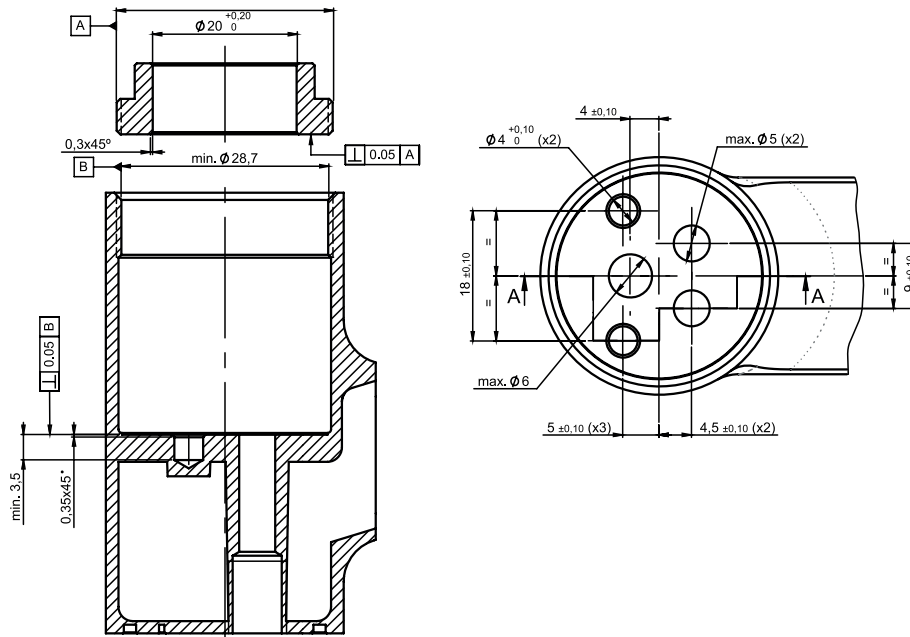
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
25 mm	GC-25 S/D	08GC25FBL100	32	



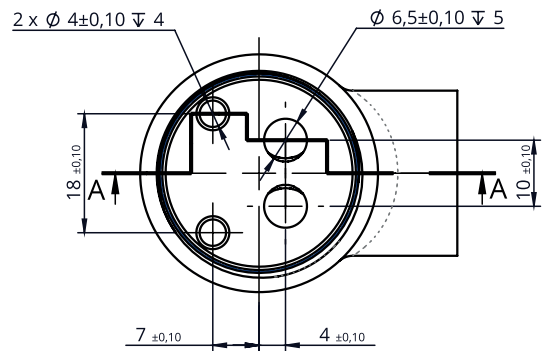
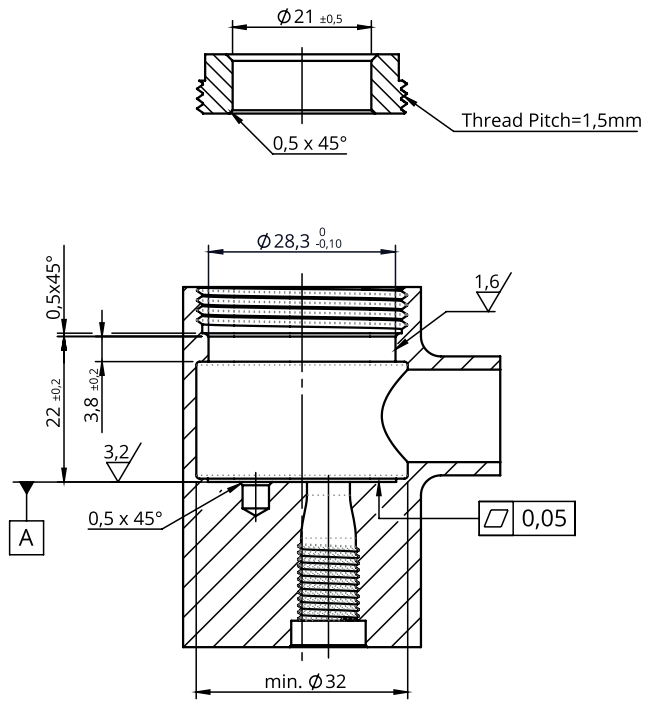
# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
28 mm	SN-28	08SN28S0002	34	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
28 mm	EX-28	08EX28L0002	35	






**35MM  
CARTRIDGES**

*FOR SINGLE  
LEVER FAUCETS*





# INDEX · 35MM CARTRIDGES




## TOP

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	TOP	✓	✓	CD SD	08EN35L4505 08EN35S4505	42
	DUE	✓	✓	CD SD	08EN35S3504 08EN35L3504	44


## ENDURA

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	ENDURA	✓	✓	CD SD	08SN35L0003 08SN35S0003	46
	DUE	✓	-	CD SD	08SN35L3001 08SN35S3001	48
	COLD	✓	✓	CD SD	08SN35L1502 08SN35S1502	50
	COLD DUE	✓	✓	CD SD	08SN35L0005 08SN35S0005	52
	ENDURA	✓	✓	CD SD	08EN35L0004 08EN35S0004	54
	DUE	✓	-	CD SD	08EN35L3001 08EN35S3001	56
	COLD	✓	✓	CD SD	08EN35L1503 08EN35S1503	58
	COLD MIRROR	-	-	SD	08EN35S1505	60
	COLD DUE	✓	✓	CD SD	08EN35L0005 08EN35S0005	62
COLD MIRROR DUE	-	-	SD	08EN35S2002	64	


## STANDARD

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	EN-35	-	-	CD SD	08EN35L0003 08EN35S0003	66
	EN-35 DUE	-	-	CD SD	08E35LAZ31 08E35FAZ31	67
	SN-35	-	-	CD SD	08SN35LG000 08SN35FG000	68
	TRN-35	✓	✓	CD SD	08RN35LVE00 08RN35FVE00	69


## BASIC

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	BG BASIC	-	-	CD SD	08EN35L0011 08EN35S0011	70


## ECOFLOW

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	SN-35	-	-	CD SD	08SN35L0008 08SN35S0008	72

## TERMACLICK

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	TERMACLICK	-	-	CD SD	08SN35L2003 08SN35S2003	74
	MIRROR	-	-	SD	08SN35S2004	76




## DRY FAUCET

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	BISO	-	-	2 3	08SN35B0002 08SN35S0001	78
	SISO	-	-	2 3	08SN35A0002 08SN35A0001	80

## SPECIALS

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	GI-35	✓	-	CD SD	08GI35LBE64 08GI35FBE64	82
	GI-35 L9	-	-	CD SD	08GI35LBE09 08GI35FBE09	84
	GI-35 Z20	-	-	CD SD	08GI35LBE01 08GI35FBE01	85
	GD-35	-	-	CD SD	08GD35LBE00 08GD35FBE00	86
	GD-35 4	-	-	SD	08GD35S0001	88
	JY-35	-	-	CD	08JY35L001	90

## UPPER SEALING

		TEMP. LIMITER	FLOW LIMITER		CODE	PG
	G-35	✓	✓	CD	08G35L0001	92
	G-35 DUE	✓	✓	CD	08G35L0002	94
	G-35 COLD	✓	✓	CD	08G35L1501	96
	CC-35	✓	✓	CD	08CC35L0003	98
	CC-35 BASIC	✓	✓	CD	08CC35L0016	99
	CC-35 BASIC DUE	✓	✓	CD	08CC35L5701	100
	EX-35	✓	✓	CD	08EX35S0001	102
	EX-35 DUE	✓	✓	CD	08EX35S3501	104

# EN-35 TOP

## DESCRIPTION

EN-35 TOP is a 35mm cartridge created to be the best in class, outstanding its competitors in all fields and offering the manufacturer a perfect balanced cartridge with an extraordinary endurance: 2x standard life cycling tests. It is also available with TRN technology for water and energy saving.

## ADVANTAGES

- HIGHER FLOWRATE**  
TOP has a 5% more flowrate than the average in its market segment. It also has **3.5% more flowrate** than its closest competitor and it is substantially better than the standard cartridges.
- A PLUS IN SENSITIVITY**  
TOP has a **20% more sensitivity** than its closest competitor. It has a 12% more sensitivity than the average cartridges in the market.
- LOWER NOISE LEVEL**  
TOP produces only 16dB, **20% less noise** than the average in its market segment and also than its closest competitor.
- EXTRAORDINARY COMFORT**  
TOP has an **extraordinary operational comfort**, with smooth operation even in hot conditions, offering to the user a 11% more comfort than the average in its market segment.
- MECHANICAL STRENGTH**  
TOP has a **25% more mechanical strength** than Endura and a **20% more of nut torque loss**.

## FEATURES



### FLOW LIMITER

Limit maximum water flow for water saving.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

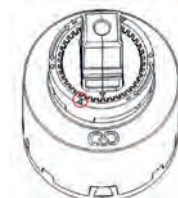
### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

TOP cartridge has an optional ring called TR that allows limiting maximum temperature in 10 selectable stops (every 9°), enabling an anti-scalding safety feature.



Open at 0°



Open at 27°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption**.



## EN-35 C/D

TOP

REF.08EN35L4505 (TRN)



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DATA SHEET

## EN-35 S/D

TOP

REF. 08EN35S4505 (TRN)



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DATA SHEET

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### OTHER VERSIONS

Temperature limiter (TR)  
Without limiters

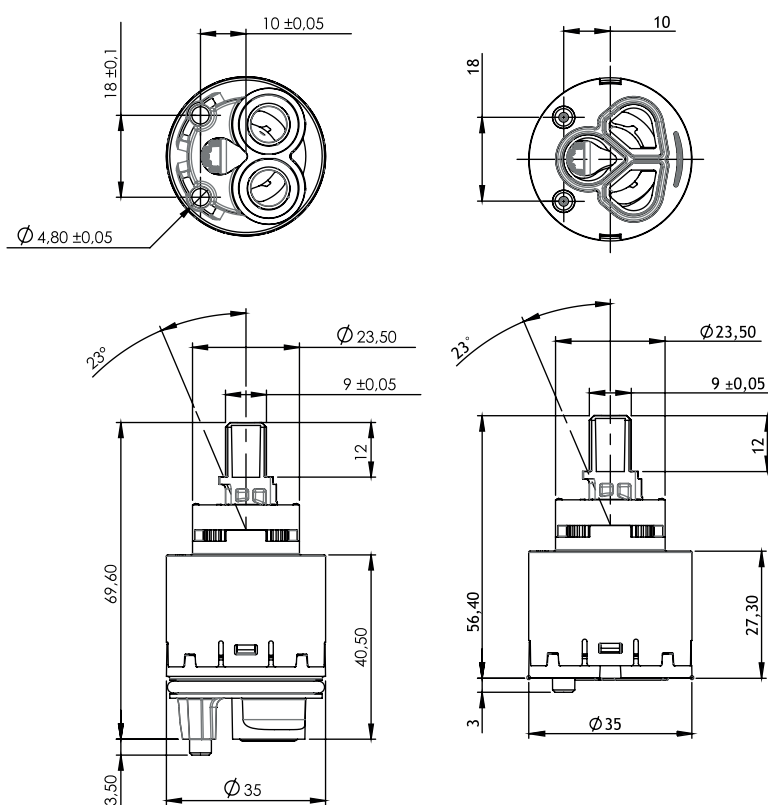
C/D

REF.08EN35L0023  
on demand

S/D

REF.08EN35S0023  
on demand

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>60 bar	>60 bar
Life cycle- x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 EN 817	140,000 cycles	140,000 cycles
NF-077 U3	175,000 cycles	175,000 cycles
x2 GB-18145	140,000 cycles	140,000 cycles
Sensitivity	>13.5 mm	>13.5 mm
Fidelity	<2°	<2°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<3°C - <4°C	<3°C - <4°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.15-0.30 Nm	0.15-0.30 Nm
Turn left-right	0.15-0.25 Nm	0.15-0.25 Nm

Noise level	C/D	S/D
Noise level (A2-NF077)	16 ± 2 dB	16 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 3 bar	29.3 l/min	29.5 l/min

-Hammer test **NF-077**.

-High temp. pressure test **AS-NZS**

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# EN-35 TOP DUE

## DESCRIPTION

EN-35 TOP is a 35mm cartridge created to be the best in class, outstanding its competitors in all fields and offering the manufacturer a perfect balanced cartridge with an extraordinary endurance: 2x standard life cycling tests. It is also available with TRN and DUE technologies for water and energy saving.

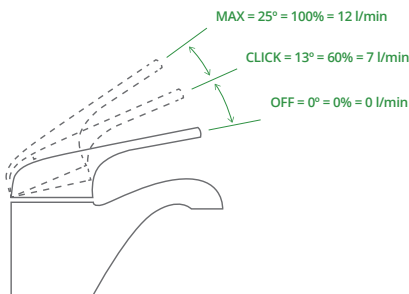
## ADVANTAGES

### ● ADDITIONAL FEATURES

EN-35 TOP Due has the same advantages than EN-35 Top, but with due technology as an additional feature.

### ● DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



## FEATURES



### FLOW LIMITER

Limit maximum water flow for water saving.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



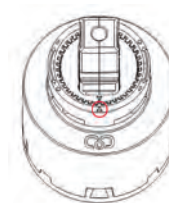
### DUE

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

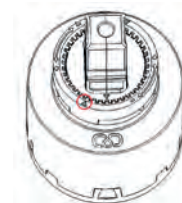
### ● VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

TOP cartridge has an optional ring called TR that allows limiting maximum temperature in 10 selectable stops (every 9°), enabling an anti-scalding safety feature.



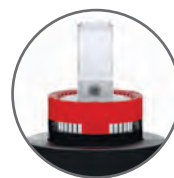
Open at 0°



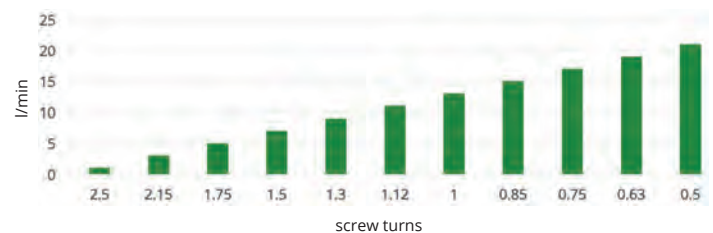
Open at 27°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**





## EN-35 C/D

TOP DUE

REF.08EN35L3504 (TR)



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## EN-35 S/D

TOP DUE

REF.08EN35S3504 (TR)



DOWNLOAD DATA SHEET

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### OTHER VERSIONS

Temperature limiter (TRN)  
Without limiters

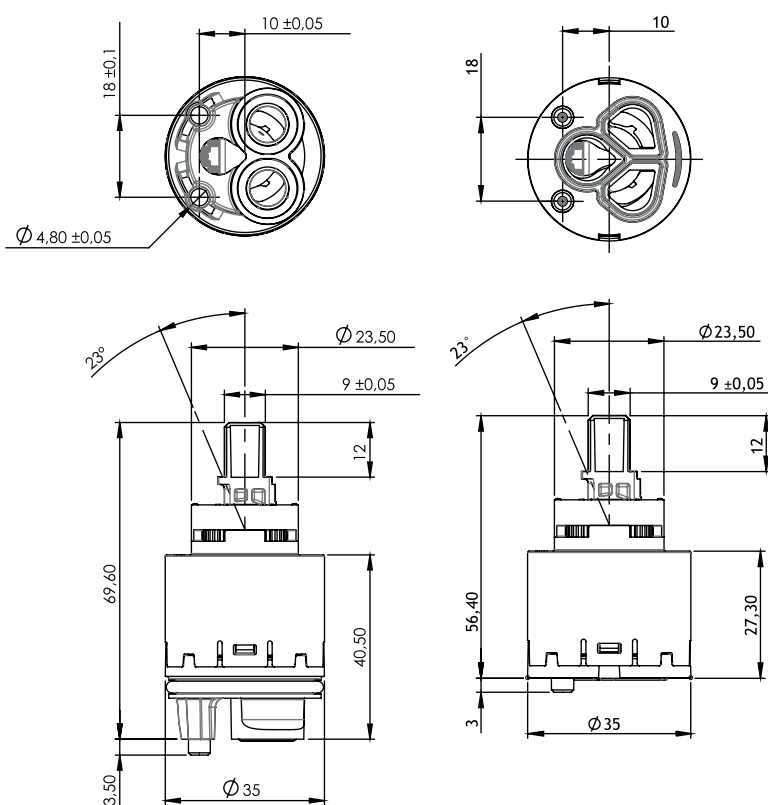
### C/D

on demand  
on demand

### S/D

on demand  
on demand

### DIMENSIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>60 bar	>60 bar
Life cycle- x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 EN 817	140,000 cycles	140,000 cycles
NF-077 U3	175,000 cycles	175,000 cycles
x2 GB-18145	140,000 cycles	140,000 cycles
Sensitivity	>13.5 mm	>13.5 mm
Fidelity	<2°	<2°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<3°C - <4°C	<3°C - <4°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.15-0.30 Nm	0.15-0.30 Nm
Turn left-right	0.15-0.25 Nm	0.15-0.25 Nm

Noise level	C/D	S/D
Noise level (A2-NF077)	16 ± 2 dB	16 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 3 bar	29.3 l/min	29.5 l/min

-Hammer test **NF-077**.

-High temp. pressure test **AS-NZS**

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

\* Find machining requirements on pages 106-109.

# SN-35 ENDURA

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes SN system, which provides the cartridge with a unique smoothness of operation and TRN technology for water and energy saving.

## ADVANTAGES

- **SN TECHNOLOGY**  
Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).
- **HIGH-PRECISION COMPONENTS**  
High precision components and excellent performing materials.
- **A BUNCH OF TECHNOLOGY**  
A complete set of high tech solutions:
  - Glide Feel Technology for a perfectly smooth operation
  - Ceramic Nano Shelter Technology for extra durability,
  - Noise Cancelling Technology
  - AccuDue Technology to save water
- **DOUBLE LIFE-CYCLE**  
The new ENDURA features SedalOX™ 96, which allows an extended life cycling. The result is more than double ASME and EN standard cycles in life tests.
- **GREAT RANGE. GRATER POSSIBILITIES**  
The new ENDURA 35 range provides the manufacturer with 18 different options to develop its products and more than 100 potential combinations.

## FEATURES



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



**FLOW LIMITER**  
Limit maximum water flow for water saving.



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**TEMPERATURE LIMITER**  
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°

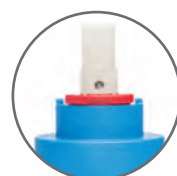


Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## SN-35 C/D

ENDURA

REF.08SN35L0003



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OPTIONAL:  
Improved comfort  
& durability  
version for  
extreme conditions.

## SN-35 S/D

ENDURA

REF.08SN35S0003

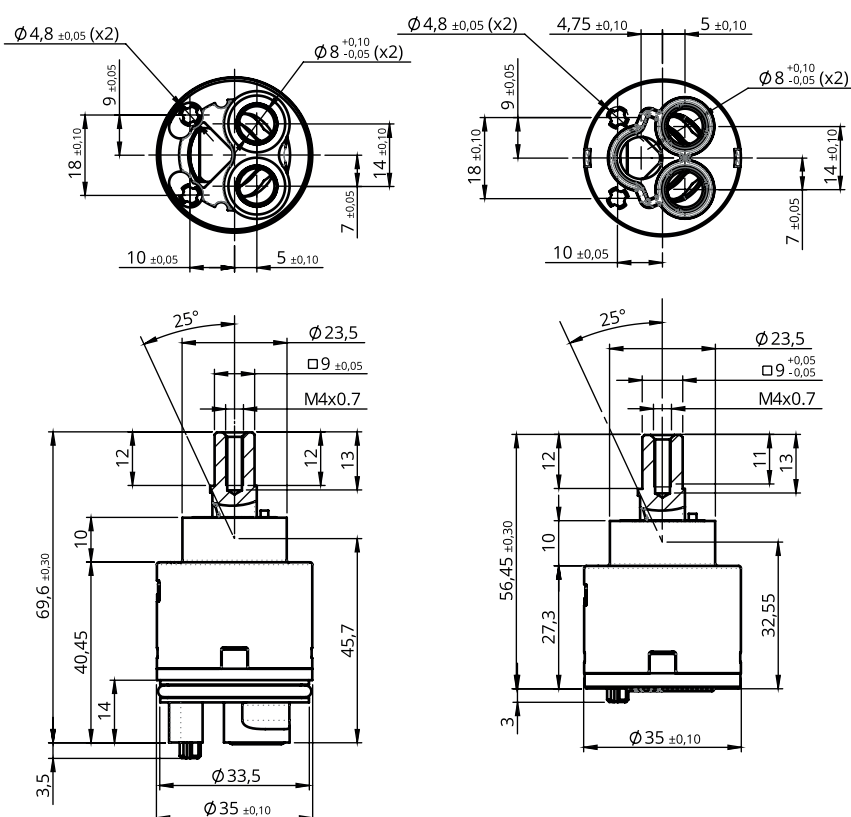


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### OTHER VERSIONS

	C/D	S/D
Temperature limiter (TR)	REF.08SN35L5401	REF.08SN35S5401
Temperature & flow limiter (TRN)	REF.08SN35L4501	REF.08SN35S4501
Improved for extreme conditions	REF.08SN35L0013	REF.08SN35S0013
Improved for extreme conditions (TR)	REF.08SN35L5401	REF.08SN35S5401

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle-EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.25 Nm	0.15-0.25 Nm

Noise level	C/D	S/D
Noise level	20 ± 2 dB	20 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	7.8 l/min	7.4 l/min
at 1 bar	17.1 l/min	16.4 l/min
at 3 bar	29.5 l/min	28.2 l/min
at 5 bar	38 l/min	36.4 l/min

Only applies to officially listed products.

Tested at Sedal's lab with Sedal's standard faucet

\*Peak or limited time condition.

# SN-35 ENDURA DUE

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes SN system, which provides the cartridge with a unique smoothness of operation, TR technology for temperature control and DUE technology for water saving.

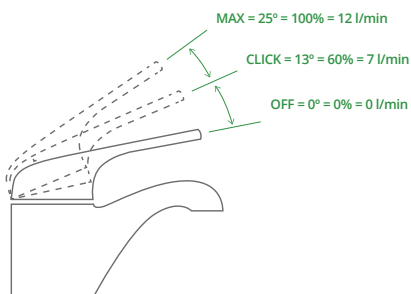
## ADVANTAGES

### ADDITIONAL FEATURES

SN-35 Endura Due has the same advantages than SN-35 Endura, but with due technology as an additional feature.

### DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



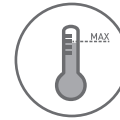
### FLOW LIMITER

Limit maximum water flow for water saving.



### DUE

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°

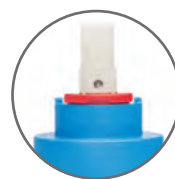


Open at 21°

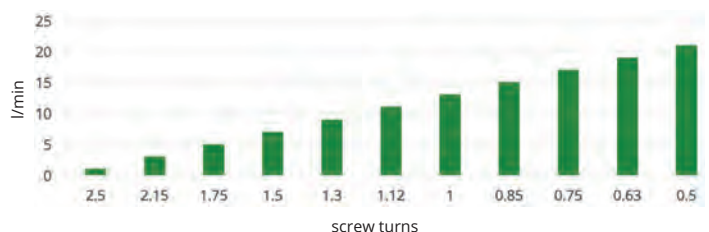
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## SN-35 C/D

ENDURA DUE

REF.08SN35L3001



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## SN-35 S/D

ENDURA DUE

REF.08SN35S3001



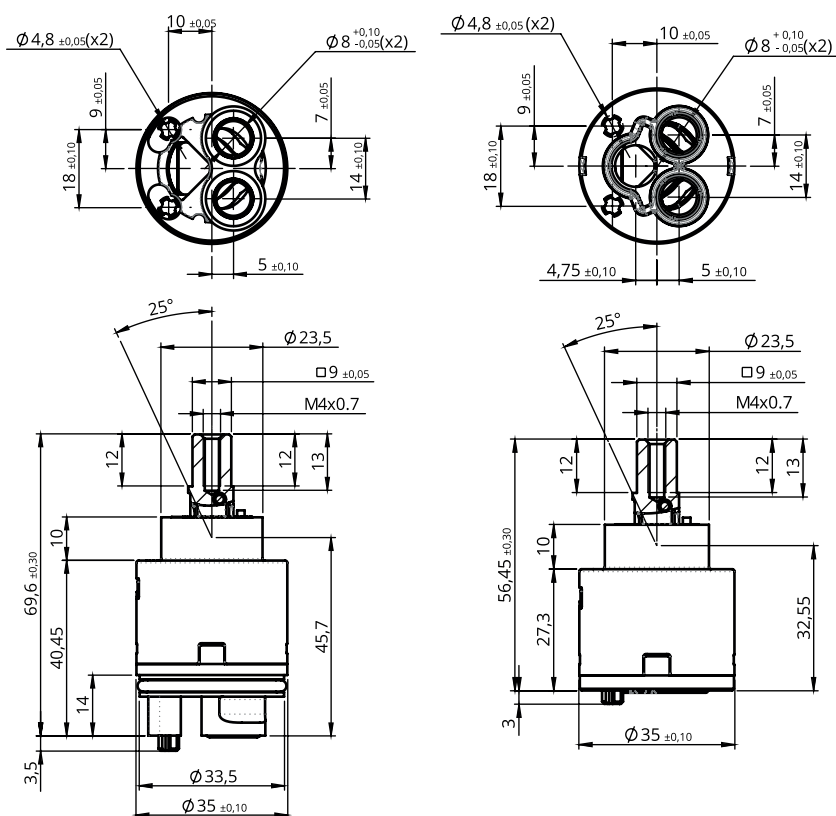
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### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

C/D	S/D
REF.08SN35L5701 on demand	REF.08SN35S5701 on demand

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.



**BATH-SHOWERS**  
Specially designed for bath showers.



**KITCHENS**  
Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.25 Nm	0.15-0.25 Nm

Noise level	C/D	S/D
Noise level	20 ± 2 dB	20 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	7.8 l/min	7.4 l/min
at 1 bar	17.1 l/min	16.4 l/min
at 3 bar	29.5 l/min	28.2 l/min
at 5 bar	38 l/min	36.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.



# SN-35 ENDURA COLD

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes SN system, which provides the cartridge with a unique smoothness of operation, TRN technology for maximum water saving and control. This cartridge opens in cold position, with an open angle of 20° to the right and 90° to the left.

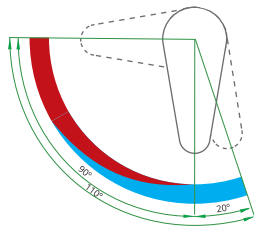
## ADVANTAGES

### ● ADDITIONAL FEATURES

SN-35 Endura Cold C110 has the same advantages than SN-35 Endura, but with cold technology as an additional feature.

### ● COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### FLOW LIMITER

Limit maximum water flow for water saving.



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

### ● VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## SN-35 C/D

ENDURA COLD

REF.08SN35L1502



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## SN-35 S/D

ENDURA COLD

REF.08SN35S1502



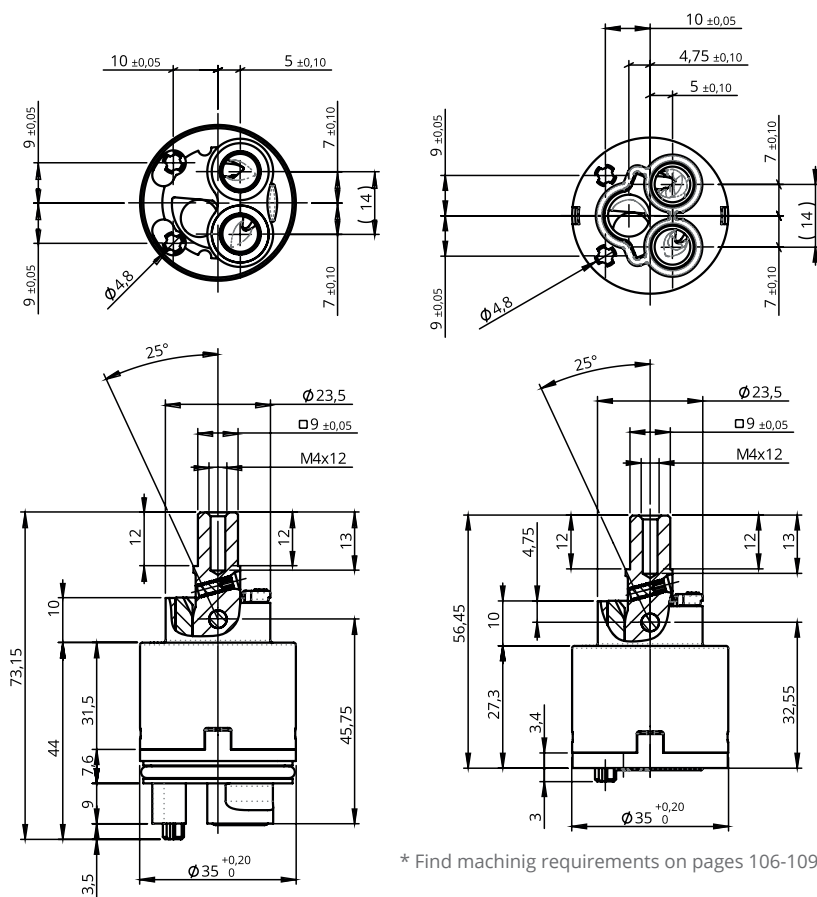
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### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

	C/D	S/D
Temperature limiter (TR)	REF.08SN35L2501	REF.08SN35S2501
Temperature & flow limiter (TRN)	REF.08SN35L4001	REF.08SN35S4001

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110°	110°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.25 Nm	0.15-0.25 Nm

Noise level	C/D	S/D
Noise level	20 ± 2 dB	18.7 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.5 bar	5.4 l/min	5.4 l/min
at 1 bar	7.8 l/min	7.7 l/min
at 3 bar	13.6 l/min	13.5 l/min
at 5 bar	17.1 l/min	17.6 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# SN-35 ENDURA

## COLD DUE

### DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes SN system, which provides the cartridge with a unique smoothness of operation, DUE for water saving and TR and TRN versions for water flow and temperature control. This cartridge opens in cold position.

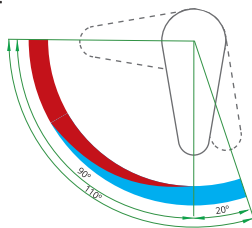
### ADVANTAGES

#### ADDITIONAL FEATURES

SN-35 Endura C3 has the same advantages than SN-35 Endura, but with cold and due technologies as additional features.

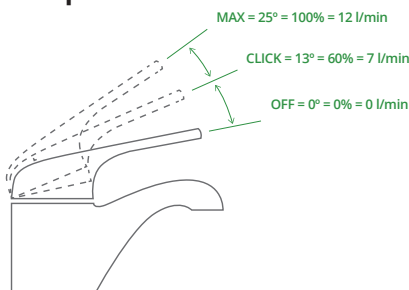
#### COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



#### DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption**.



### FEATURES



#### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



#### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



#### DUE

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



#### FLOW LIMITER

Limit maximum water flow for water saving.



#### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

#### VERSIONS WITH LIMITERS

##### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°

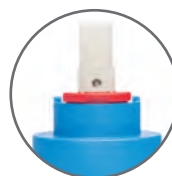


Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

##### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption**.



## SN-35 C/D

ENDURA  
COLD DUE

REF.08SN35L0005



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DATA SHEET

## SN-35 S/D

ENDURA  
COLD DUE

REF.08SN35S0005



DOWNLOAD  
DATA SHEET

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110°	110°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.30 Nm	0.20-0.30 Nm
Turn left-right	0.20-0.30 Nm	0.20-0.30 Nm

Noise level	C/D	S/D
Noise level	20 ± 2 dB	18.7 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.5 bar	5.4 l/min	5.4 l/min
at 1 bar	7.8 l/min	7.7 l/min
at 3 bar	13.6 l/min	13.5 l/min
at 5 bar	17.1 l/min	17.6 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

### OTHER VERSIONS

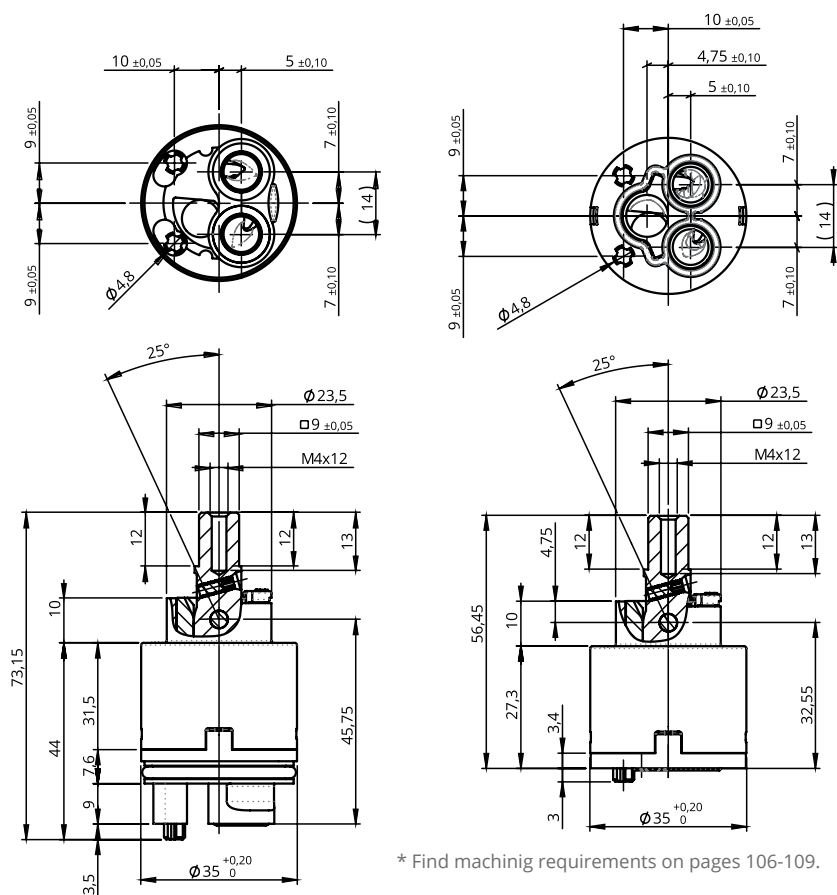
Temperature limiter (TR)  
Temperature & flow limiter (TRN)

REF.08SN35L5001    REF.08SN35S5001  
REF.08SN35L5501    REF.08SN35S5505

### C/D

### S/D

### DIMENSIONS



\* Find machining requirements on pages 106-109.

# EN-35 ENDURA

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes TR and TRN versions for water and energy saving.

## ADVANTAGES

- **HIGH-PRECISION COMPONENTS**  
High precision components and excellent performing materials.
- **A BUNCH OF TECHNOLOGY**  
A complete set of high tech solutions:
  - Glide Feel Technology for a perfectly smooth operation
  - Ceramic Nano Shelter Technology for extra durability,
  - Noise Cancelling Technology
  - AccuDue Technology to save water
- **DOUBLE LIFE-CYCLE**  
The new ENDURA features SedalOX™ 96, which allows an extended life cycling. The result is more than double ASME and EN standard cycles in life tests.
- **GREAT RANGE. GRATER POSSIBILITIES**  
The new ENDURA 35 range provides the manufacturer with 18 different options to develop its products and more than 100 potential combinations.

## FEATURES



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### FLOW LIMITER

Limit maximum water flow for water saving.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

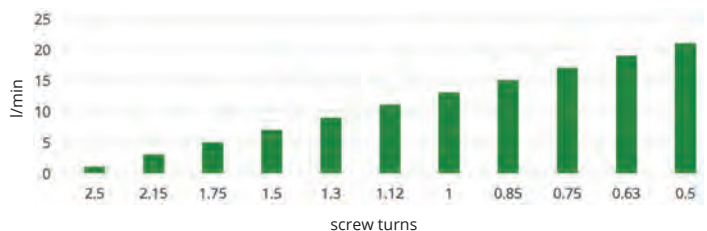
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**





## EN-35 C/D

ENDURA

REF.08EN35L0004



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## EN-35 S/D

ENDURA

REF.08EN35S0004

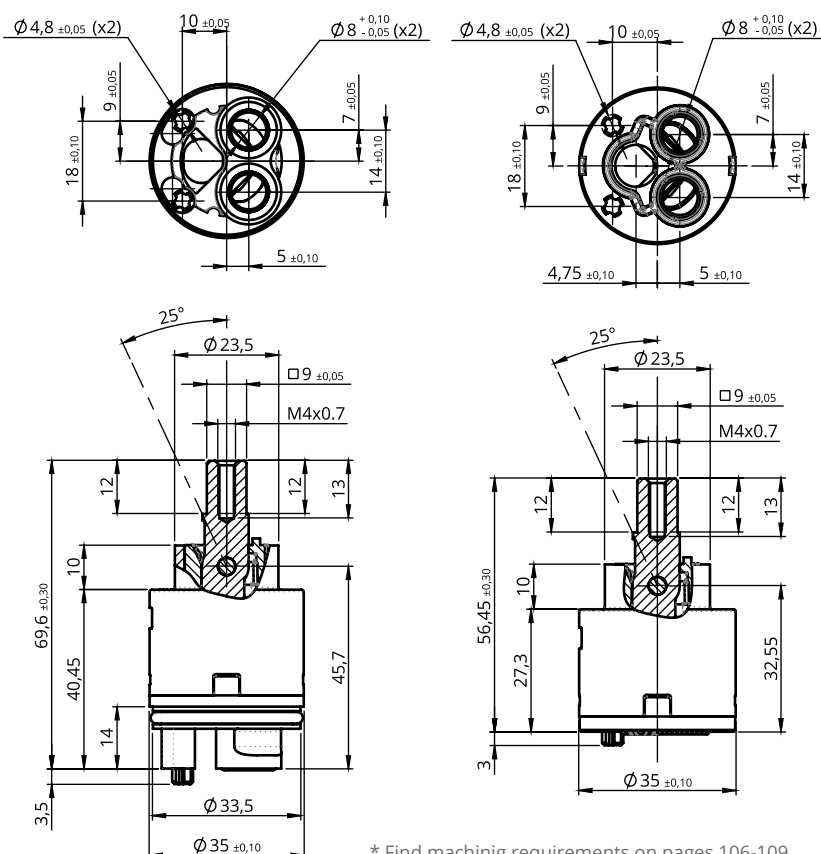


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### OTHER VERSIONS

	C/D	S/D
Temperature limiter (TR)	REF.08EN35L5401	REF.08EN35S5401
Temperature & flow limiter (TRN)	REF.08EN35L4501	REF.08EN35S4501

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817		
NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4 °C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.20-0.35 Nm	0.20-0.35 Nm

Noise level	C/D	S/D
Noise level	20 ± 2 dB	20 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	7.4 l/min	7 l/min
at 1 bar	16 l/min	15.4 l/min
at 3 bar	27.7 l/min	26.1 l/min
at 5 bar	36 l/min	33.9 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# EN-35 ENDURA DUE

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes DUE and TR technologies for water saving and control.

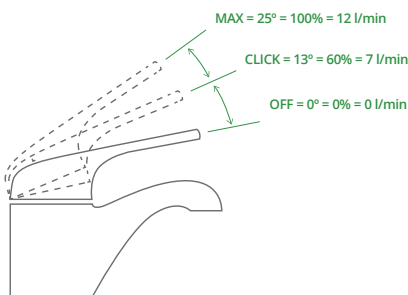
## ADVANTAGES

### ADDITIONAL FEATURES

EN-35 Endura Due has the same advantages than EN-35 Endura, but with due technology as an additional feature.

### DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



## FEATURES



### DUE

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



### FLOW LIMITER

Limit maximum water flow for water saving.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## EN-35 C/D

ENDURA DUE

REF.08EN35L3001



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## EN-35 S/D

ENDURA DUE

REF.08EN35S3001



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DATA SHEET

### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

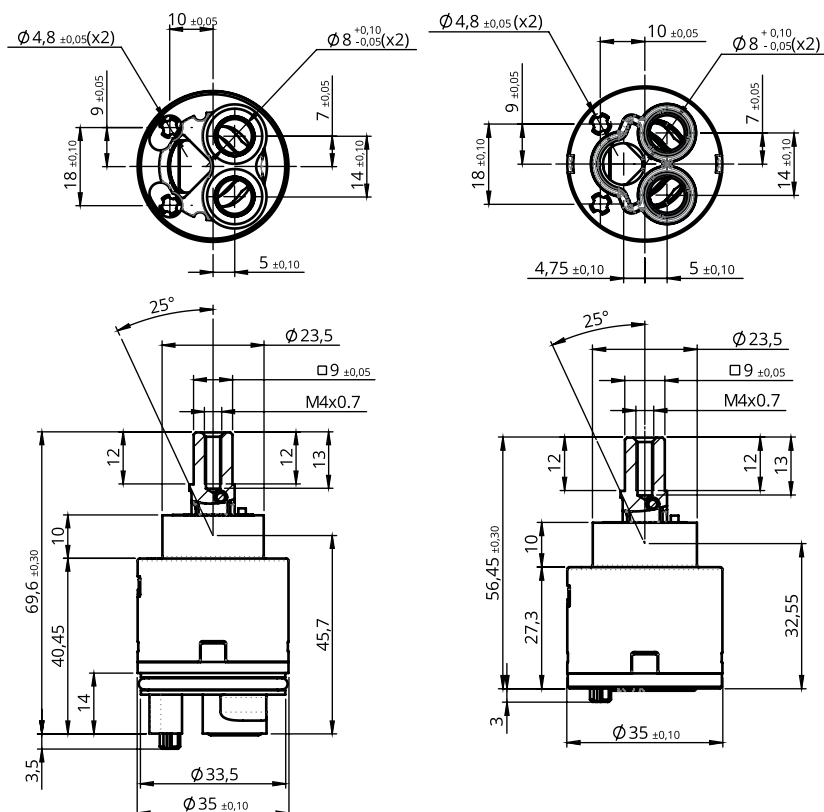
C/D

REF.08EN35L5701  
on demand

S/D

REF.08EN35S5701  
on demand

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4 C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.20-0.35 Nm	0.20-0.35 Nm

Noise level	C/D	S/D
Noise level	22 ± 2 dB	24,5 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	7.4 l/min	7 l/min
at 1 bar	16 l/min	15.4 l/min
at 3 bar	27.7 l/min	26.1 l/min
at 5 bar	36 l/min	33.9 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# EN-35 ENDURA COLD

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes TRN technology for maximum water saving and control. This cartridge opens in cold position, with an open angle of 20° to the right and 90° to the left.

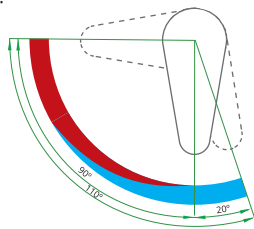
## ADVANTAGES

### ADDITIONAL FEATURES

EN-35 Endura Cold C110 has the same advantages than EN-35 Endura, but with cold technology as an additional feature.

### COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



## FEATURES



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### FLOW LIMITER

Limit maximum water flow for water saving.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°

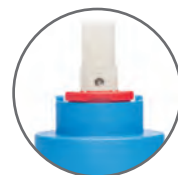


Open at 21°

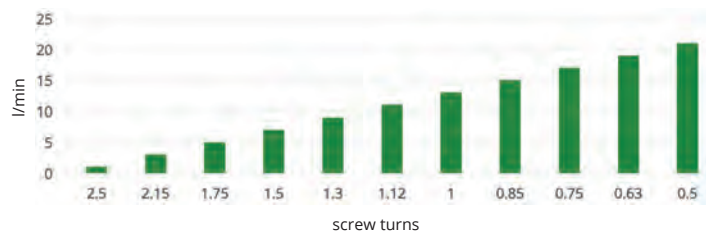
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption**.



## EN-35 C/D

ENDURA COLD

REF.08EN35L1503



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## EN-35 S/D

ENDURACOLD

REF.08EN35S1503



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### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110° ± 2	110° ± 2
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	55-60 bar	55-60 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	12°-14° angle	12°-14° angle
Fidelity	<1°	<1°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<0.5°C - <1.2°C	<0.5°C - <1.2°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.20-0.35 Nm	0.20-0.35 Nm

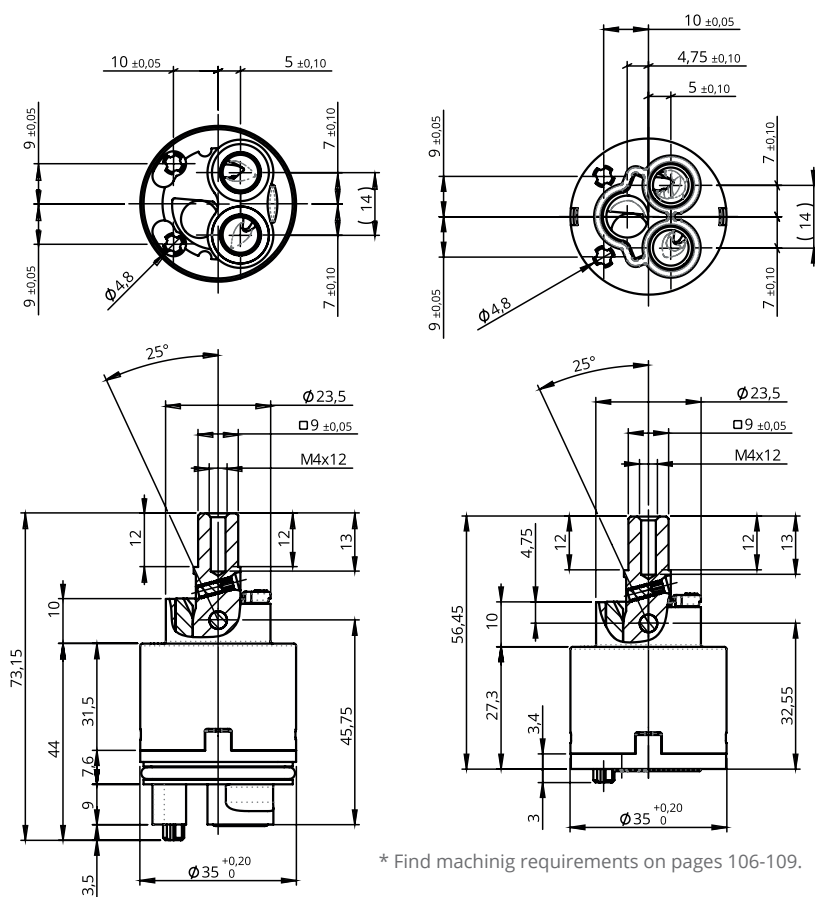
Flow rate (free flow)	C/D	S/D
at 0.2 bar	3.4 l/min	3 l/min
at 1 bar	8 l/min	6.7 l/min
at 3 bar	13.8 l/min	11.8 l/min
at 5 bar	18.5 l/min	15.3 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

### OTHER VERSIONS

	C/D	S/D
Temperature limiter (TR)	REF.08EN35L2501	REF.08EN35S2501
Temperature & flow limiter (TRN)	REF.08EN35L4001	REF.08EN35S4001

### DIMENSIONS



\* Find machining requirements on pages 106-109.



# EN-35 ENDURA COLD MIRROR

## DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. This cartridge is specially useful for kitchen applications in which the handle would touch the wall. It includes COLD technology for energy saving.

## ADVANTAGES

### ● ADDITIONAL FEATURES

EN-35 Endura Cold Mirror has the same advantages than EN-35 Endura, but with cold and mirror technologies as additional features.

### ● SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

Mirror version has been specifically designed for kitchen applications, avoiding the inconvenience of the handle touching the wall.

## FEATURES



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### MIRROR

Movement from right to left to obtain hot water.

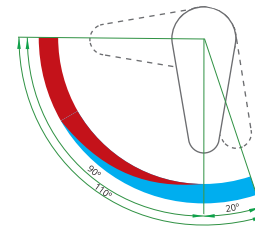


### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

### ● COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



# EN-35 S/D

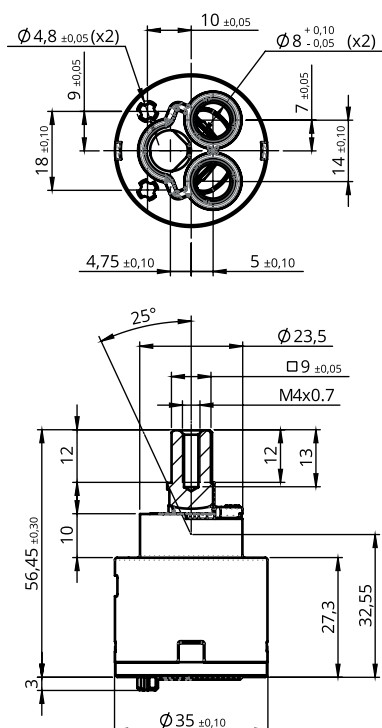
ENDURA COLD  
MIRROR

REF.08EN35S1505



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DATA SHEET

## DIMENSIONS



\* Find machining requirements on pages 106-109.

## RECOMMENDED APPLICATIONS



### KITCHENS

Suitable for use in  
kitchens.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12Nm
Opening angle	25°
Rotation angle	110°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles
x2 ASME	1,000,000 cycles
x2 GB18145	140,000 cycles
Sensitivity	>12 mm
Fidelity	<2°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4 C - <6°C
Max. hot water*	90 °C

Operation Torque	S/D
Open-close	0.20-0.35 Nm
Turn left-right	0.20-0.35 Nm

Noise level	S/D
Noise level	24.5 ± 2 dB

Flow rate (free flow)	S/D
at 0.5 bar	4.8 l/min
at 1 bar	6.7 l/min
at 3 bar	11.8 l/min
at 5 bar	15.3 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# EN-35 ENDURA

## COLD DUE

### DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. It also includes TRN technology for temperature and flow control and DUE for water saving. This cartridge opens in cold position.

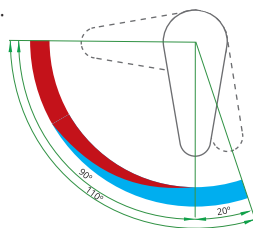
### ADVANTAGES

● **ADDITIONAL FEATURES**

EN-35 Endura C3 has the same advantages than EN-35 Endura, but with cold and due technologies as additional features.

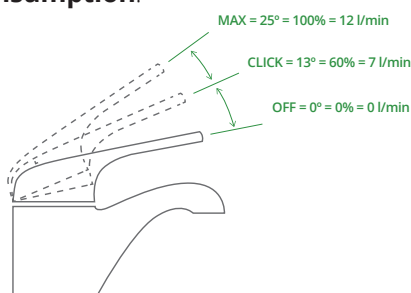
● **COLD TECHNOLOGY**

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



● **DUE TECHNOLOGY**

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption**.



### FEATURES



**COLD**

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



**DUE**

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



**TEMPERATURE LIMITER**

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



**FLOW LIMITER**

Limit maximum water flow for water saving.



**ECO**

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

● **VERSIONS WITH LIMITERS**

**TEMPERATURE LIMITER FUNCTION (TR)**

Endura cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°

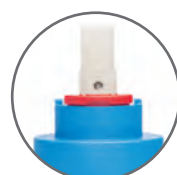


Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

**TEMPERATURE & FLOW LIMITER FUNCTION (TRN)**

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption**.



## EN-35 C/D

ENDURA  
COLD DUE

REF.08EN35L0005



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## EN-35 S/D

ENDURA  
COLD DUE

REF.08EN35S0005



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### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### OTHER VERSIONS

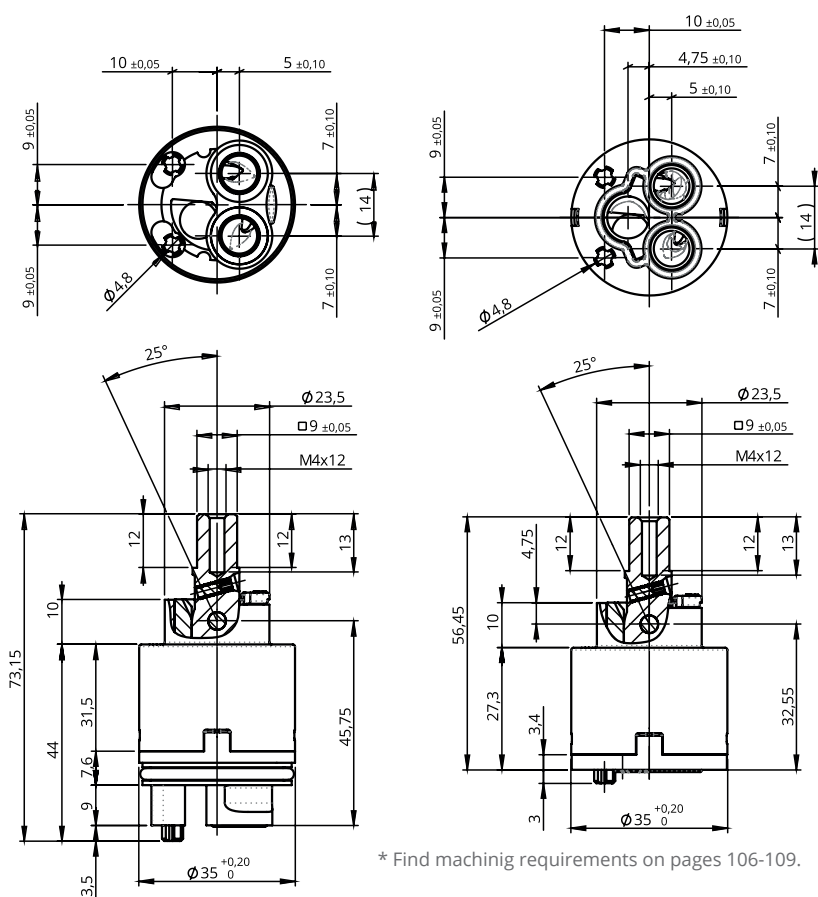
Temperature limiter (TR)  
Temperature & flow limiter (TRN)

C/D	S/D
REF.08EN35L5001	REF.08EN35S5001
REF.08EN35L5501	REF.08EN35S5501

### CERTIFICATIONS



### DIMENSIONS



\* Find machining requirements on pages 106-109.

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110° ± 2	110° ± 2
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	55-60 bar	55-60 bar
Life cycle - EN 817		
NFU3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	12°-14° angle	12°-14° angle
Fidelity	<1°	<1°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<0.5°C - <1.2°C	<0.5°C - <1.2°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.20-0.35 Nm	0.20-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	3.4 l/min	3 l/min
at 1 bar	8 l/min	6.7 l/min
at 3 bar	13.8 l/min	11.8 l/min
at 5 bar	18.5 l/min	15.3 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# EN-35 ENDURA

## COLD MIRROR DUE

### DESCRIPTION

35mm cartridge with an extraordinary endurance: 2x standard life cycling tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology and a complete set of technologies. This cartridge is specially useful for kitchen applications in which the handle would touch the wall. It also includes COLD technology for energy saving and DUE for water saving.

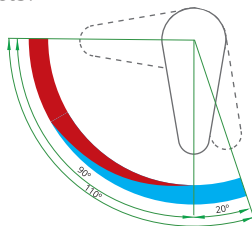
### ADVANTAGES

● **ADDITIONAL FEATURES**

EN-35 Endura C3 mirror has the same advantages than EN-35 Endura, but with cold, due and mirror technologies as additional features.

● **COLD TECHNOLOGY**

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



### FEATURES



**COLD**

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



**DUE**

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



**ECO**

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

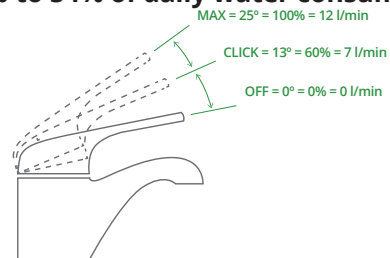


**MIRROR**

Movement from right to left to obtain hot water.

● **DUE TECHNOLOGY**

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



● **SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS**

Mirror version has been specifically designed for kitchen applications, avoiding the inconvenience of the handle touching the wall.





# EN-35 S/D

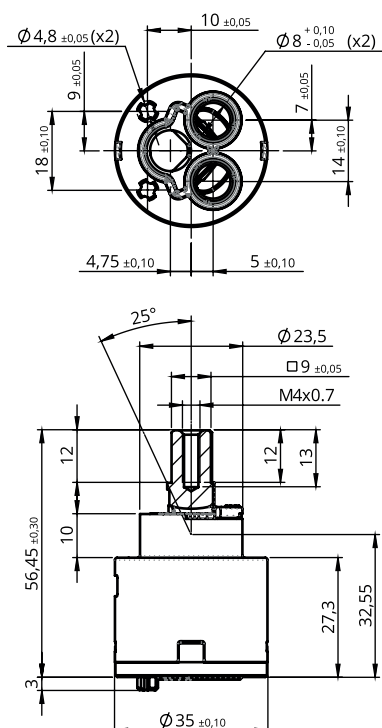
ENDURA COLD  
MIRROR DUE

REF.08EN35S2002



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## DIMENSIONS



\* Find machining requirements on pages 106-109.

## RECOMMENDED APPLICATIONS



### KITCHENS

Suitable for use in  
kitchens.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12Nm
Opening angle	25°
Rotation angle	110°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles
x2 ASME	1,000,000 cycles
x2 GB18145	140,000 cycles
Sensitivity	>12 mm
Fidelity	<2°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4 C - <6°C
Max. hot water*	90 °C

Operation Torque	S/D
Open-close	0.20-0.35 Nm
Turn left-right	0.20-0.35 Nm

Noise level	S/D
Noise level	24.5 ± 2 dB

Flow rate (free flow)	S/D
at 0.5 bar	4.8 l/min
at 1 bar	6.7 l/min
at 3 bar	11.8 l/min
at 5 bar	15.3 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# STANDARD CARTRIDGES

## EN-35 C/D

REF.08EN35L0003



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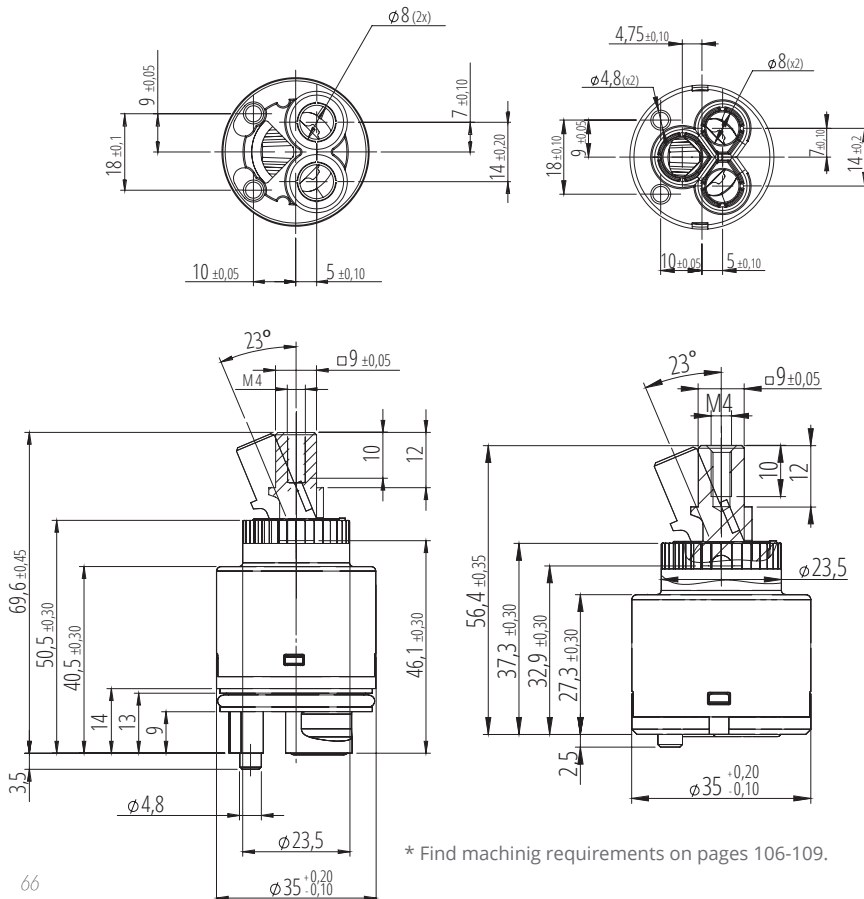
## EN-35 S/D

REF.08EN35S0003



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DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### DESCRIPTION

35 mm cartridge.

### ADVANTAGES

The classic standard cartridge of Sedal has shown its good performance through the years.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<3°	<3°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<2°C - <4.5°C	<2°C - <4.5°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.25-0.40 Nm	0.25-0.40 Nm
Turn left-right	0.15-0.40 Nm	0.15-0.40 Nm

Noise level	C/D	S/D
Noise level	24 ± 2 dB	26 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	6.1 l/min	5.8 l/min
at 1 bar	13.1 l/min	13.4 l/min
at 3 bar	22.3 l/min	23.1 l/min
at 5 bar	29 l/min	29.7 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

## EN-35 C/D

DUE

REF.08E35LAZ31



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DATA SHEET

## EN-35 S/D

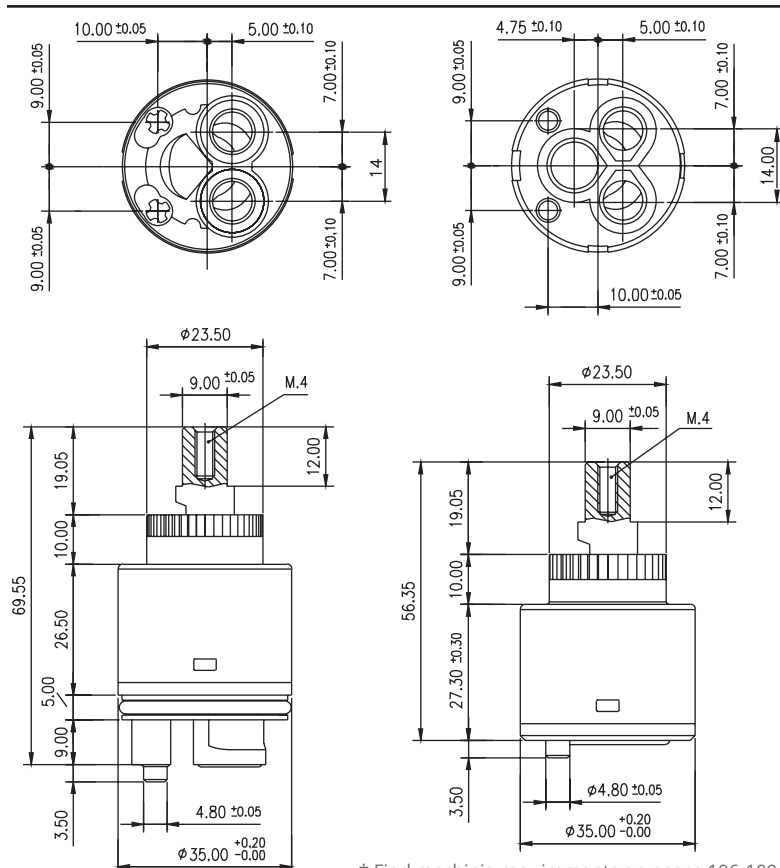
DUE

REF. 08E35FAZ31



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### DIMENSIONS



\* Find machining requirements on pages 106-109.

### DESCRIPTION

35 mm cartridge.

### ADVANTAGES

The classic standard cartridge of Sedal has shown its good performance through the years. Due technology for water saving.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	28-35 bar	28-35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	10°-11°	10°-11°
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.25-0.40 Nm	0.25-0.40 Nm
Turn left-right	0.15-0.40 Nm	0.15-0.40 Nm

Noise level	C/D	S/D
Noise level	24 ± 2 dB	26 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	6.1 l/min	5.8 l/min
at 1 bar	13.1 l/min	13.4 l/min
at 3 bar	22.3 l/min	23.1 l/min
at 5 bar	29 l/min	29.7 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# STANDARD CARTRIDGES

## SN-35 C/D

REF.08SN35LG000



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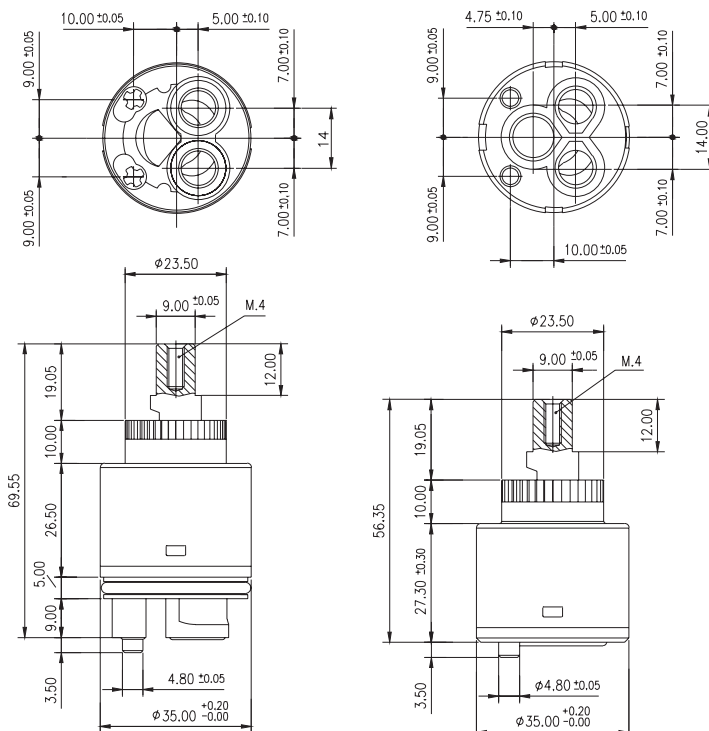
## SN-35 S/D

REF.08SN35FG000



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DATA SHEET

### DIMENSIONS



### DESCRIPTION

35 mm cartridge.

### ADVANTAGES

The classic standard cartridge with SN technology. Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	CD	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	55-60 bar	50-60 bar
Life cycle - EN 817	175,000 cycles	175,000 cycles
ASME 118.12.1 M	500,000 cycles	500,000 cycles
x2 GB18145	140,000 cycles	70,000 cycles
Sensitivity	11°-14° angle	13°-15° angle
Max. hot water	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.25 Nm	0.20-0.30 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.9 l/min	8.7 l/min
at 1 bar	13.5 l/min	12.2 l/min
at 3 bar	23.4 l/min	21 l/min
at 5 bar	30.1 l/min	26.9 l/min

\* Find machining requirements on pages 106-109.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

## TRN-35 C/D

REF.08RN35LVE00



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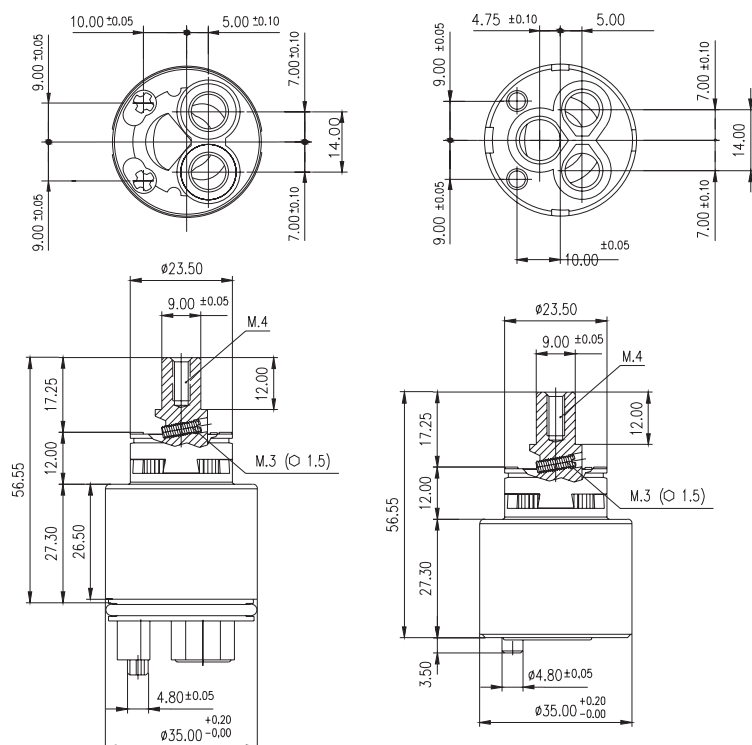
## TRN-35 S/D

REF.08RN35FVE00



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DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### DESCRIPTION

35 mm cartridge.

### ADVANTAGES

Sedal standard cartridge includes flow and temperature limiters to save water and energy, offering an environmental sustainability feature.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	28-35 bar	28-35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity	10°-11° angle	8.9°-9.2° angle
Max. hot water	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.22-0.25 Nm	0.21-0.25 Nm
Turn left-right	0.24-0.33 Nm	0.22-0.31 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.7 l/min	9.2 l/min
at 1 bar	14.9 l/min	12.9 l/min
at 3 bar	25.3 l/min	22.3 l/min
at 5 bar	33 l/min	28.7 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.



# BASIC CARTRIDGES

## DESCRIPTION

---

35mm basic cartridge with ACS certification and available with and without distributor. This Sedal valve is specially designed for washbasins, bath-showers and kitchen faucets.

## ADVANTAGES

---

Entry-level product with Sedal high-reliability.

## EN-35 C/D

BG BASIC

REF.08EN35L0011



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## EN-35 S/D

BG BASIC

REF. 08EN35S0011



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### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



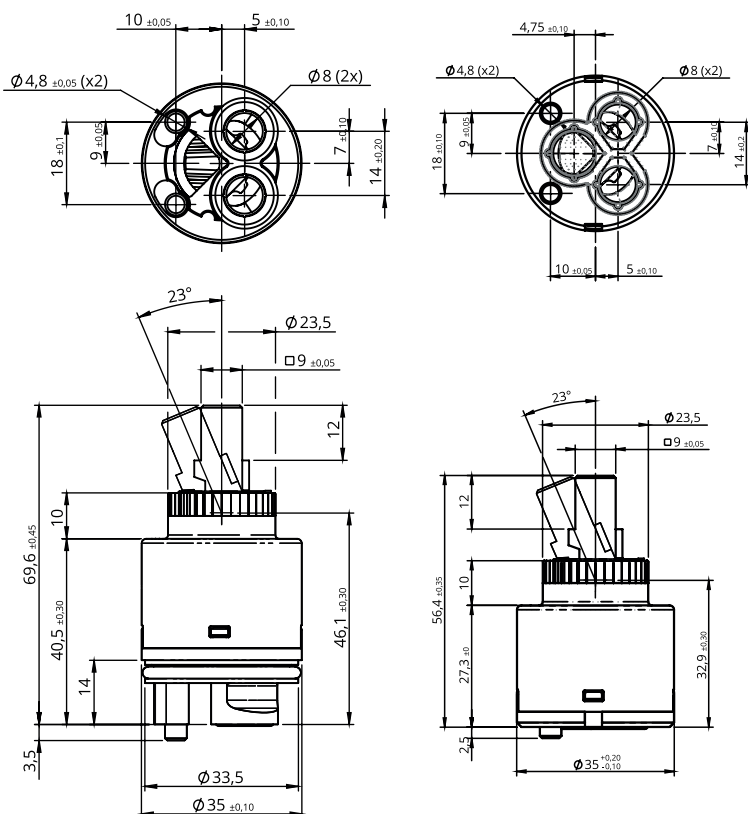
#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### DIMENSIONS



\* Find machining requirements on pages 106-109.

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	35 bar	35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 118.12.1 M	500,000 cycles	500,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	12°-14° angle	12°-14° angle
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<1.2°C - <1.2°C	<1.1°C - <1.4°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.25-0.30 Nm	0.25-0.30 Nm
Turn left-right	0.25-0.30 Nm	0.25-0.30 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.3 l/min	8.8 l/min
at 1 bar	13.1 l/min	12.6 l/min
at 3 bar	22.3 l/min	22.1 l/min
at 5 bar	29 l/min	28 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# SN-35

## ECOFLOW

### DESCRIPTION

Ecoflow cartridges have been designed for applications where a low flow is required to fulfill the latest standards and market trends. The low flow that a manufacturer would normally reach with the use of restrictors, can be reached by using the Ecoflow cartridge with an aireator, suppressing the negative effects of the current solutions. The Ecoflow 35 is specifically designed to deliver 7.8 liters @3 bar without using restrictors. It also includes a clutch for a perfect operational feel and a high maximum torque resistance to withstand harsh environments.

### ADVANTAGES

- **SN TECHNOLOGY**  
Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life)
- **IMPROVED FLOW-RATE VS HANDLE STROKE**  
Existing solutions offer a very limited opening stroke to regulate the flow. With ECOFLOW, the entire stroke is available.

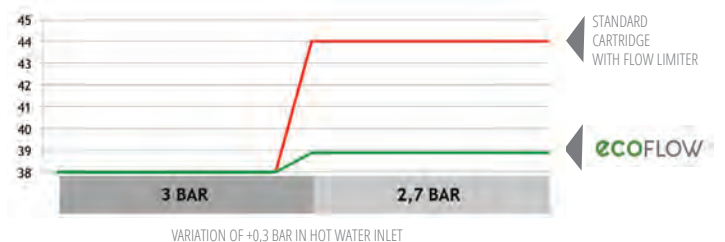


### FEATURES

- **ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.
- **SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.
- **REGULATIONS**  
This cartridge is optimized according to WaterSense and Water Label requirements.
- **RESTRICTOR**  
The cartridge includes itself a restrictor that reduces the flow rate to save water.



- **REDUCES TEMPERATURE FLUCTUATION**  
When using a flow limiter in the spout combined with standard cartridges, the user can experience strong changes in water temperature. The new ECOFLOW Tech valves provide an excellent temperature stability in front of pressure variations in cold and hot water supply lines at low flow rates.



- **THE USAGE OF A RESTRICTOR IS OPTIONAL**  
The flow rate reduction is carried out at the right place. With ECOFLOW the usage of a limiter or restrictor is optional.

## SN-35 C/D

ECOFLOW

REF.08SN35L0008



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DATA SHEET

## SN-35 S/D

ECOFLOW

REF.08SN35S0009



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### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

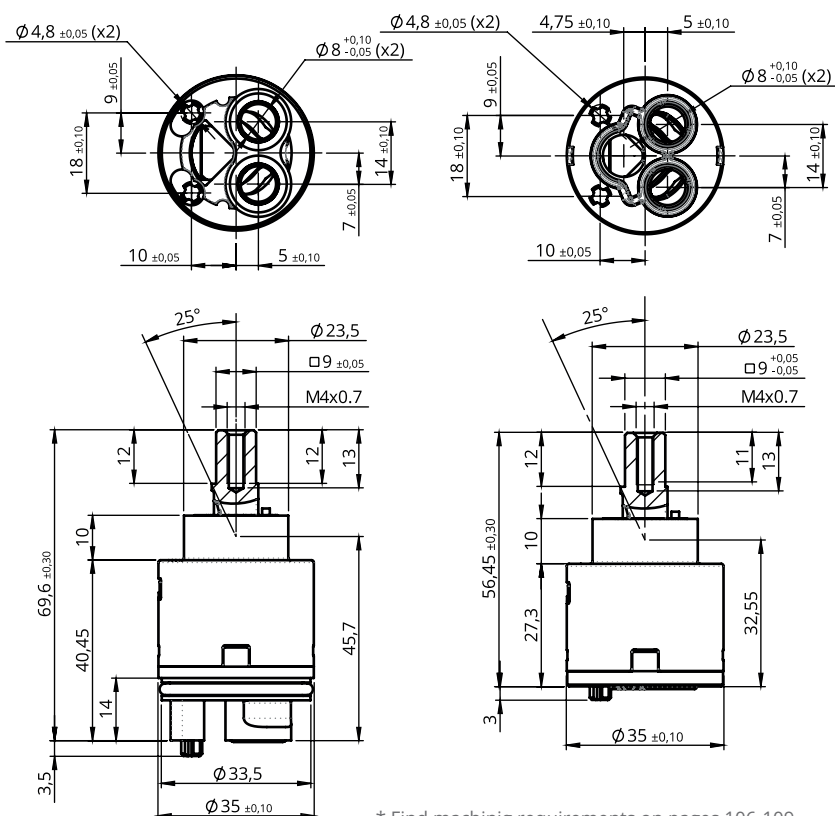
Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### CERTIFICATIONS



\* Optimised for WaterSense and WaterLabel

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	7-8Nm	7-8Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity	>10-12 mm	>10-12 mm
Fidelity	<3°	<3°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.25 Nm	0.15-0.25 Nm

Flow rate (free flow)	C/D	S/D
at 0.1 bar	1.4 l/min	1.4 l/min
at 1 bar	4.6 l/min	4.6 l/min
at 3 bar	7.8 l/min	7.8 l/min
at 5 bar	9.5 l/min	9.5 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# TERMACLICK

## DESCRIPTION

Thanks to a mid-stroke click at the temperature comfort point, the new termaclick cartridge prevents waste of energy as the user enjoys a unique smoothness of operation. This valve, which includes cold start, is available in 35mm and mirrored for kitchen application.

## ADVANTAGES

- **ENERGY SAVING**  
TermaClick cartridge helps saving energy thanks to:
  - Cold start opening, which flows cold water when the lever is centered.
  - Mid-way stroke that clicks at the theoretical point of 38°C water outlet, making the user aware of the saving point.
- **SAFETY CLICK AT COMFORT TEMPERATURE**  
The user detects the click point and enjoys comfort temperature of water without risks at the safety temperature. This feature allows completely safe usage for children.
- **SEDALOX CERAMIC SET**  
TermaClick incorporates SedalOX ceramics for a superior endurance.

## FEATURES



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



**TERMACLICK**  
Mid-way click at comfort temperature and energy saving feature thanks to a cold opening. Left to hot.

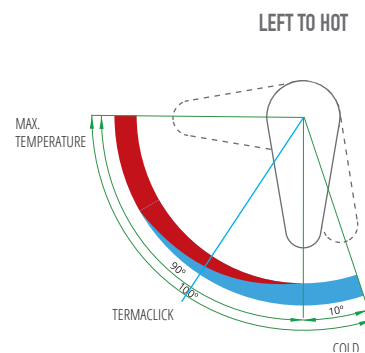


**COLD**  
Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

- **DIFFERENT VERSIONS AVAILABLE**  
TermaClick is a 35mm cartridge, comprising high and low base versions.



- **GLIDE FEEL TECHNOLOGY**  
This technology ensures the user a unique smoothness of operation.



**SN-35 C/D**  
TERMACLICK  
REF.08SN35L2003



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**SN-35 S/D**  
TERMACLICK  
REF.08SN35S2003



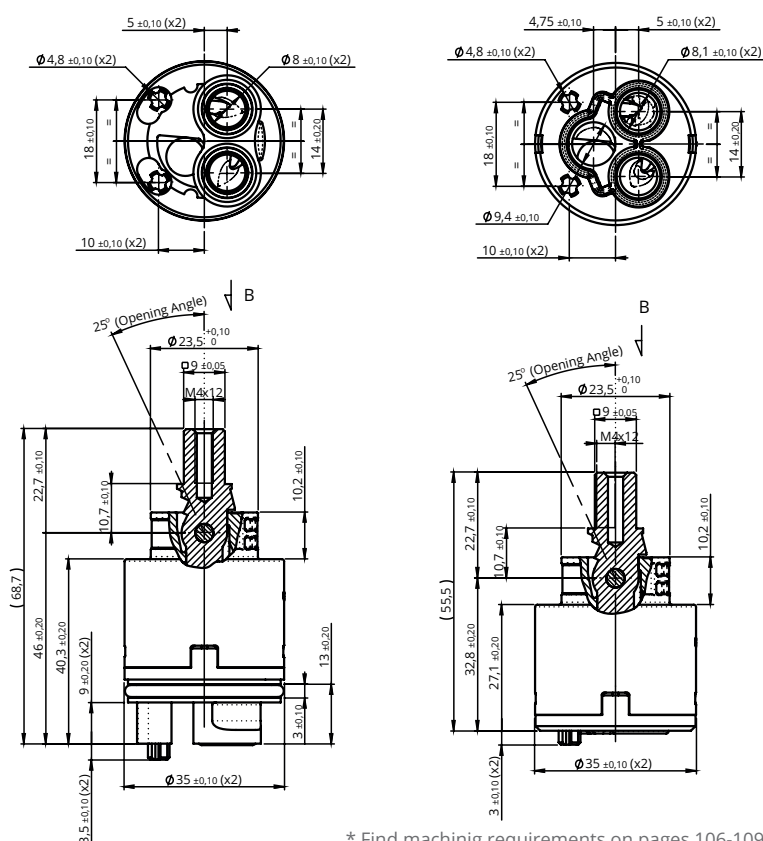
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DATA SHEET

RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.

DIMENSIONS



\* Find machining requirements on pages 106-109.

TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>35 bar	>35 bar
Life cycle - x2 EN 817	140,000 cycles	140,000 cycles
x2 GB18154	140,000 cycles	140,000 cycles
Sensitivity (r=45mm)	>10 mm	>10 mm
Fidelity	<5°C	<5°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.15-0.35 Nm	0.15-0.35 Nm
Turn left-right	0.15-0.35 Nm	0.15-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	6.4 l/min	5.6 l/min
at 1 bar	13.3 l/min	12.2 l/min
at 3 bar	24.9 l/min	21.4 l/min
at 5 bar	32.3 l/min	27.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# TERMACLICK MIRROR

## DESCRIPTION

Thanks to a mid-stroke click at the temperature comfort point, the new termaclick cartridge prevents waste of energy as the user enjoys a unique smoothness of operation. This valve, which includes cold start, is available in 35mm and mirrored for kitchen application.

## ADVANTAGES

### ● ADDITIONAL FEATURES

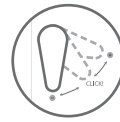
SN-35 Termaclick mirror has the same advantages than Termaclick, but with mirror base as an additional feature.

## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### TERMACLICK MIRROR

Mid-way click at comfort temperature and energy saving feature thanks to a cold opening. Right to hot.



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.

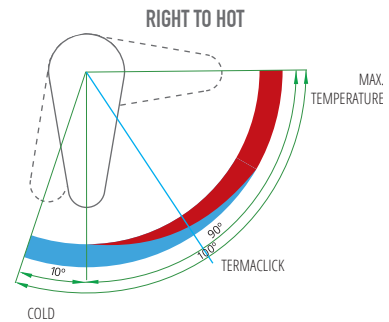


### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

### ● SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

Mirror version has been specifically designed for kitchen applications, avoiding the inconvenience of the handle touching the wall.



# SN-35 S/D

## TERMACLICK

### MIRROR

REF.08SN35S2004



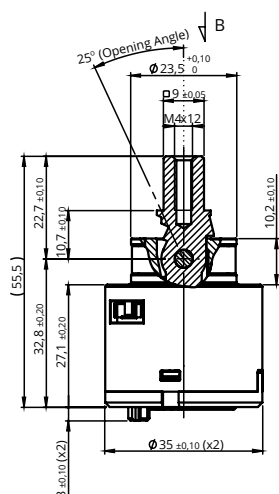
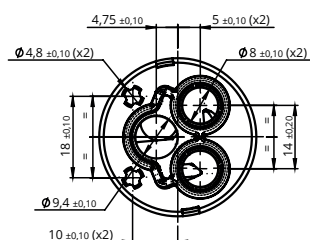
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### RECOMMENDED APPLICATIONS



**KITCHENS**  
Specially designed for  
washbasins.

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### TECHNICAL SPECIFICATIONS

General	S/D MIRROR
Nut torque pitch M1.5	10-12Nm
Opening angle	25°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - x2 EN 817	140,000 cycles
x2 GB18154	140,000 cycles
Sensitivity (r=45mm)	>10 mm
Fidelity	<5°C
Max. hot water*	90 °C

Operation Torque	S/D MIRROR
Open-close	0.15-0.30 Nm
Turn left-right	0.15-0.30 Nm

Flow rate (free flow)	S/D MIRROR
at 0.5 bar	7.6 l/min
at 1 bar	10.9 l/min
at 3 bar	19.1 l/min
at 5 bar	24.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# DRY FAUCET BISO CARTRIDGES

## DESCRIPTION

Dry faucet range is an optimal solution for lead-free policy products, as there is no contact between the water and the metal of the body. It helps to save costs because faucets bodies and spouts can be manufactured with different materials while allowing brass weight reduction in the faucet body.

## FEATURES



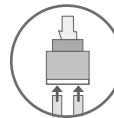
### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### DRY FAUCET

Thanks to its design, the water is never in contact with the metal of the body faucet.



### DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.



### LEAD FREE

Suitable for low-lead applications.

## ADVANTAGES

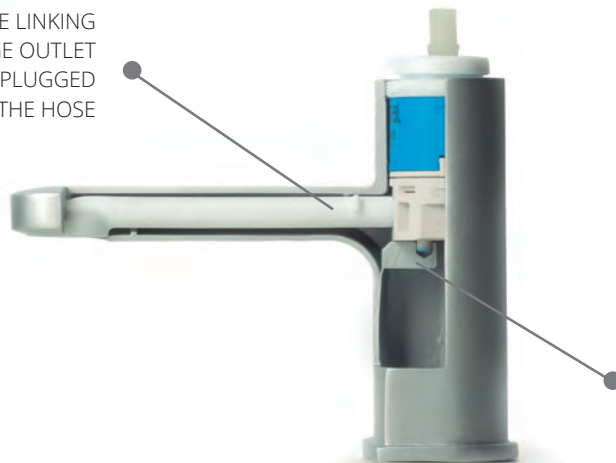
### ● LIGHTER BODY

BISO cartridge allows lighter body design and easier casting.

### ● LEAD-FREE

Optimal solution for lead-free policy products, because there is no contact between water and metal.

SPOUT CORE LINKING THE CARTRIDGE OUTLET AND AIREATOR PLUGGED DIRECTLY INTO THE HOSE



WATER INLET HOSES PLUGGED DIRECTLY INTO THE CARTRIDGE

### ● DIFFERENT OPTIONS AVAILABLE

Different configurations as it is part of Endura family, such as STD, Cold or Ecoflow options.

## SN-35 BISO 2

REF.08SN35B0002



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## SN-35 BISO 3

REF.08SN35B0001



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DATA SHEET

OPTIONAL:  
Improved comfort  
& durability  
version for  
extreme conditions

### RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for  
washbasins.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	BISO 2	BISO 3
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity (r)	>10 mm	>12 mm
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4 C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	BISO 2	BISO 3
Open-close	0.15-0.35 Nm	0.15-0.35 Nm
Turn left-right	0.25-0.35 Nm	0.25-0.35 Nm

Flow rate (free flow)	BISO 2	BISO 3
at 0.2 bar	5.3 l/min	5.3 l/min
at 1 bar	12 l/min	12 l/min
at 3 bar	20.8 l/min	20.8 l/min
at 5 bar	26.5 l/min	26.5 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

### OTHER VERSIONS

#### BISO 2

#### BISO 3

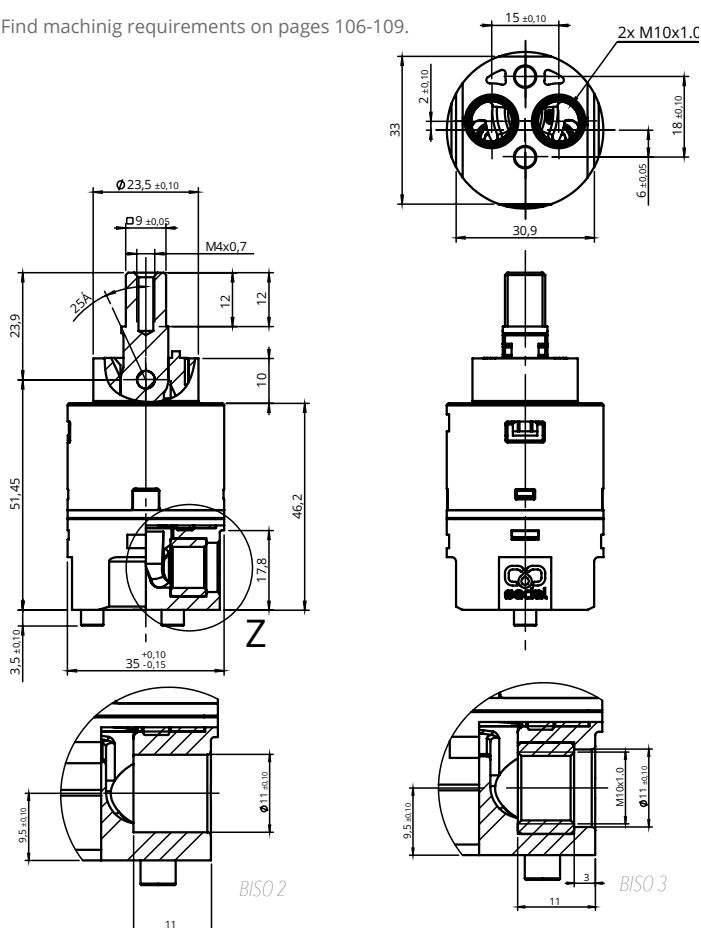
Improved for extreme conditions

REF.08SN35B0008

REF..08SN35B0007

### DIMENSIONS

\* Find machining requirements on pages 106-109.





# DRY FAUCET SISO CARTRIDGES

## DESCRIPTION

Dry faucet range is an optimal solution for lead-free policy products, as there is no contact between the water and the metal of the body. It helps to save costs because faucets bodies and spouts can be manufactured with different materials while allowing brass weight reduction in the faucet body.

## FEATURES



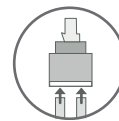
### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### DRY FAUCET

Thanks to its design, the water is never in contact with the metal of the body faucet.



### DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.



### LEAD FREE

Suitable for low-lead applications.

## ADVANTAGES

- **LIGHTER BODY**  
SISO cartridge allows lighter body design and easier casting.
- **LEAD-FREE POLICY**  
Optimal solution for lead-free policy products, because there is no contact between water and metal.



- **DIFFERENT OPTIONS AVAILABLE**  
Different configurations as it is part of Endura family, such as Standard, Cold or Ecoflow options.

## SN-35 SISO 2

REF.08SN35A0002



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DATA SHEET

## SN-35 SISO 3

REF.08SN35A0001



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DATA SHEET

OPTIONAL:  
Improved comfort  
& durability  
version for  
extreme conditions

### RECOMMENDED APPLICATIONS



**KITCHENS**  
Specially designed for  
washbasins.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	SISO 2	SISO 3
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity (r)	>10 mm	>12 mm
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4 C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	SISO 2	SISO 3
Open-close	0.15-0.35 Nm	0.15-0.35 Nm
Turn left-right	0.25-0.35 Nm	0.25-0.35 Nm

Flow rate (free flow)	SISO 2	SISO 3
at 0.2 bar	5.3 l/min	5.3 l/min
at 1 bar	12 l/min	12 l/min
at 3 bar	20.8 l/min	20.8 l/min
at 5 bar	26.5 l/min	26.5 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

### OTHER VERSIONS

Improved for extreme conditions

### SISO 2

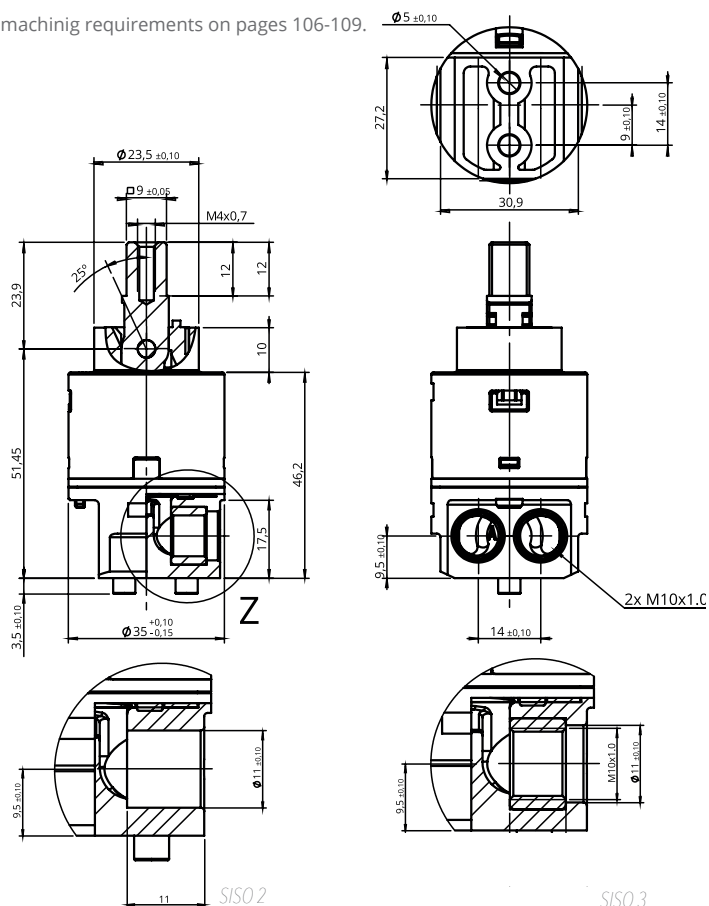
REF.08SN35A0008

### SISO 3

REF. .08SN35A0007

### DIMENSIONS

\* Find machining requirements on pages 106-109.



# REVOLVING GI-35

## DESCRIPTION

Revolving cartridges include a turning lever in order to mix water and provide better control of the flow rate.

## FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**TEMPERATURE LIMITER**  
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



**REVOLVING**  
This cartridge has a turning lever from 0° to 180°.



**COLD**  
Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.

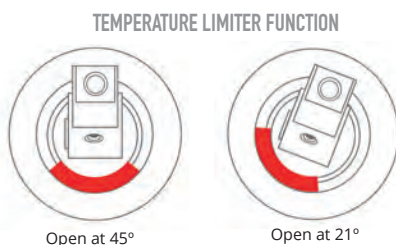


**METALLIC LEVER**  
This revolving cartridge has metallic lever

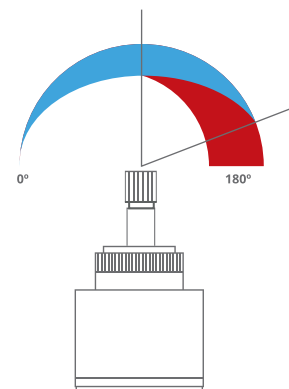
## ADVANTAGES

- **180° ROTATION ANGLE**  
35mm revolving cartridge has a rotation angle of 180° from cold to hot.
- **EASY REVOLVING MOVEMENT**  
Smooth revolving movement for a comfort operation to the user.
- **TR TECHNOLOGY**  
The TR technology allows energy saving thanks to temperature limiters. It also enables an anti-scalding safety feature. This function allows limiting maximum temperature in 7 selectable stops.

- **COLD TECHNOLOGY**  
The cartridge starts in cold position by default, saving energy consumption related to plumbing products in the household.



position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°



HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



## GI-35 C/D

TR

REF.08GI35LBE64



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## GI-35 S/D

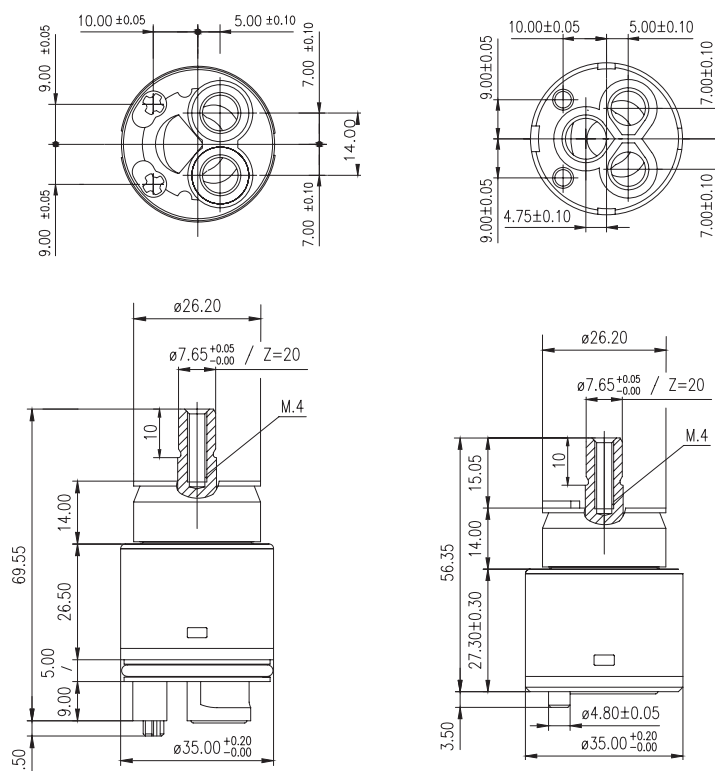
TR

REF. 08GI35FBE64



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### DIMENSIONS



### RECOMMENDED APPLICATIONS



**DECORATIVE WASHBASINS**  
Specially designed for decorative faucets.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Rotation angle	180°	180°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	40-45 bar	40-45 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME 118.12.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.22-0.24 Nm	0.22-0.24 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.9 l/min	8.6 l/min
at 1 bar	13.7 l/min	11.9 l/min
at 3 bar	23.1 l/min	20.1 l/min
at 5 bar	29.5 l/min	25.8 l/min

\* Find machining requirements on pages 106-109.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# REVOLVING

## GI-35

### GI-35 C/D

L9

REF.08GI35LBE09



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DATA SHEET

### GI-35 S/D

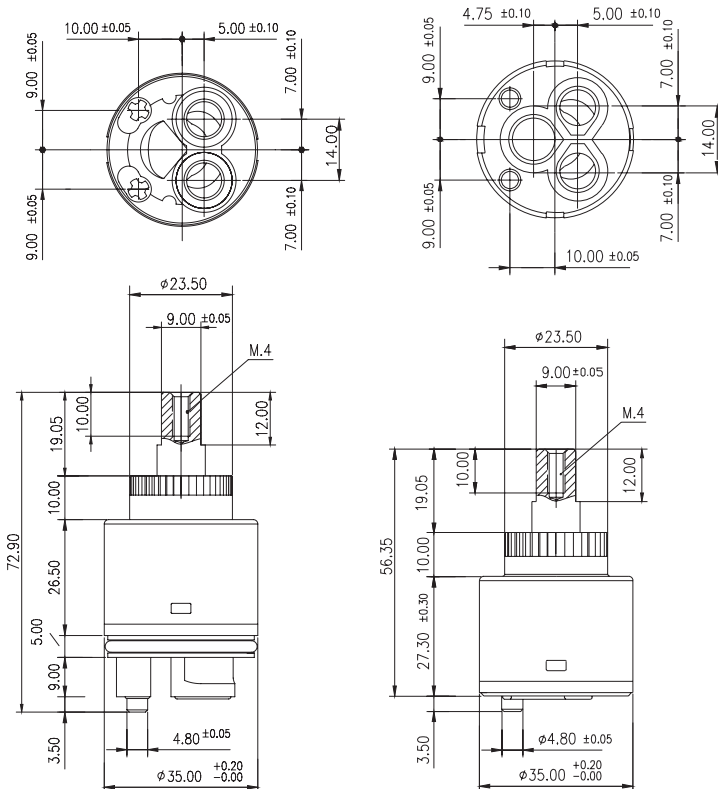
L9

REF.08GI35FBE09



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DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### DESCRIPTION

35 mm revolving cartridges with a turning lever in order to mix water and provide better control of the flow rate.

### ADVANTAGES

*BRASS OR PLASTIC SHAFT*

Cartridge available with plastic or metal shaft, depending on the application.

### RECOMMENDED APPLICATIONS



**DECORATIVE WASHBASINS**  
Specially designed for decorative faucets.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Rotation angle	180°	180°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	45-50 bar	45-50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.22-0.24 Nm	0.25-0.55 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.9 l/min	8.6 l/min
at 1 bar	13.7 l/min	11.9 l/min
at 3 bar	23.1 l/min	20.1 l/min
at 5 bar	29.5 l/min	25.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.



## GI-35 S/D

Z20

REF.08GI35LBE01



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## GI-35 S/D

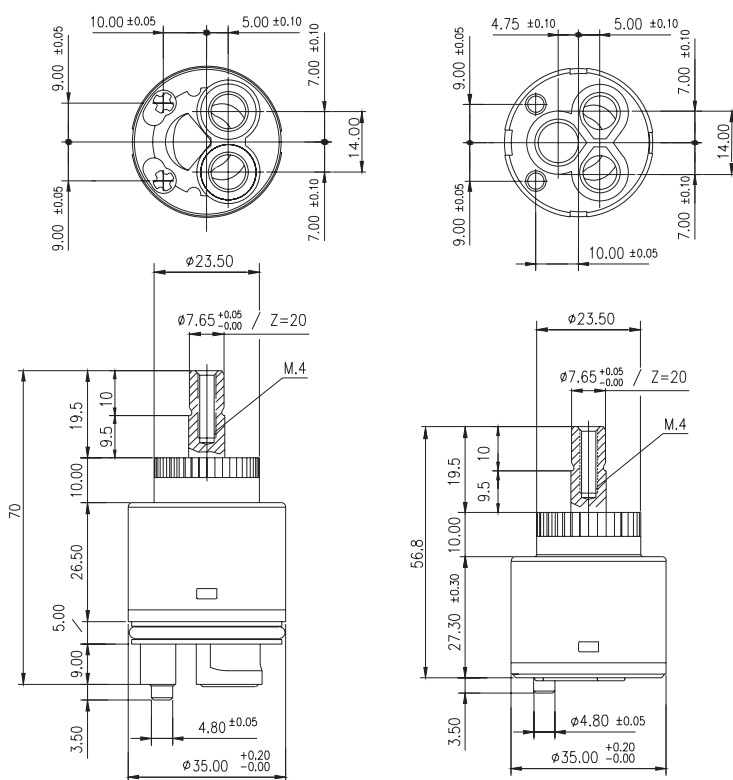
Z20

REF.08GI35FBE01



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DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 106-109.

### DESCRIPTION

35 mm revolving cartridges with a turning lever in order to mix water and provide better control of the flow rate.

### ADVANTAGES

*BRASS OR PLASTIC SHAFT*

Cartridge available with plastic or metal shaft, depending on the application.

### RECOMMENDED APPLICATIONS



**DECORATIVE WASHBASINS**  
Specially designed for decorative faucets.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Rotation angle	180°	180°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	45-50 bar	45-50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.22-0.24 Nm	0.25-0.55 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.9 l/min	8.6 l/min
at 1 bar	13.7 l/min	11.9 l/min
at 3 bar	23.1 l/min	20.1 l/min
at 5 bar	29.5 l/min	25.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

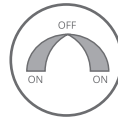
# DIVERTER

## GD-35

### DESCRIPTION

The GD35 diverter from Sedal is a high end 35mm valve that provides smooth operation along with a defined feeling of safety and precision thanks to the metallic lever and a high precision ceramic set. The operation torque has been improved while keeping a small footprint. Works perfectly paired with our TM001 Thermostatic cartridge for showers.

### FEATURES



#### ON-OFF

Diverter with on-off function in default position with flow control.



#### CLICK

GD-35 includes a click in the middle to notice the change of outlet.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### METALLIC LEVER

This diverter cartridge has metallic lever.



#### OUTLETS

Diverter cartridge with two outlets.



#### ROTATION ANGLE

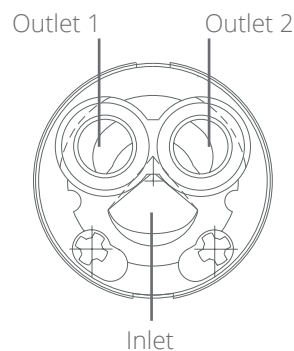
Diverter cartridge with 180° rotation angle.

### ADVANTAGES

- SURPASSES CONVENTIONAL DURABILITY STANDARDS**  
 Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal lever improves the user perception of quality and precision in a small cartridge.
- ROBUST DESIGN**  
 GD-35 has a robust design, withstanding higher levels of burst pressure.
- HIGHER FLOW RATE**  
 The GD35 has a high flow rate @3 bar, allowing to build body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.

#### DIVERTER FUNCTIONALITY

This cartridge fits specially good in bath showers because allows to have two different outlets while keeping slim designs. Mixed water enters inlet 3 and exits either outlet 1 or 2.



## GD-35 C/D

REF.08GD35LBE00



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DATA SHEET

## GD-35 S/D

REF.08GD35FBE00



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DATA SHEET

### RECOMMENDED APPLICATIONS

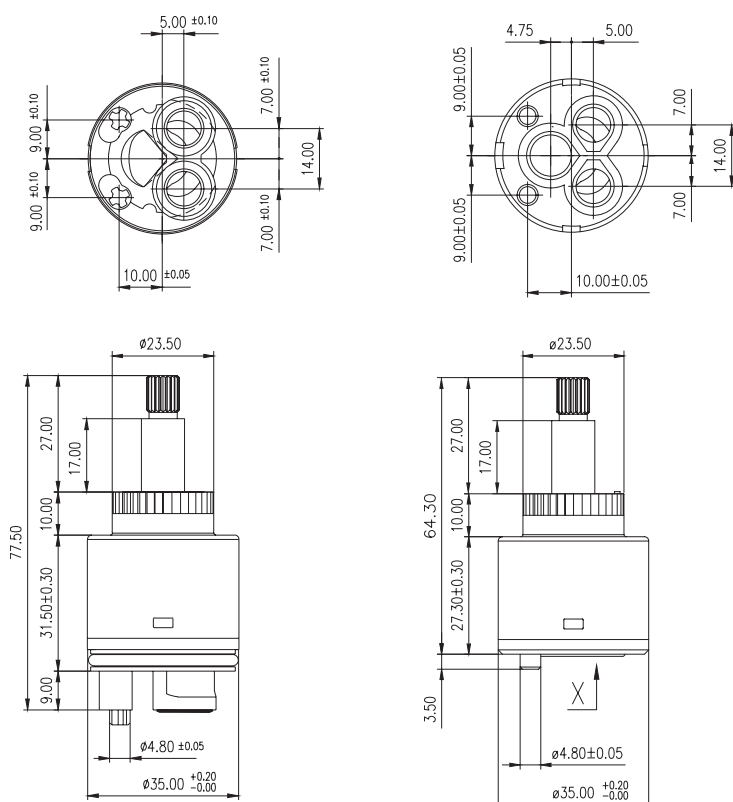


**SHOWERS DIVERTERS**  
Specially designed for showers with diverters.

### CERTIFICATIONS



### DIMENSIONS



\* Find machining requirements on pages 106-109.

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	7-8Nm	7-8Nm
Rotation angle	180°	180°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	25-30 bar	25-30 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.50-0.40 Nm	0.50-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	3.9 l/min	3.9 l/min
at 1 bar	5.6 l/min	5.6 l/min
at 3 bar	9.6 l/min	9.6 l/min
at 5 bar	12.4 l/min	12.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# DIVERTER

## GD-35 4

### DESCRIPTION

The GD35 S/D 4 diverter from Sedal is a high end 35mm valvewith four outlets that provides smooth operation along with a defined feeling of safety and precision thanks to the metallic lever and a high precision ceramic set. The operation torque has been improved while keeping a small footprint. Works perfectly paired with our TM001 Thermostatic cartridge for showers.

### FEATURES



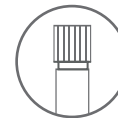
**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**CLICK**  
GD-35 includes a click in the middle to notice the change of outlet.



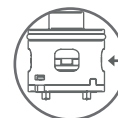
**OUTLETS**  
Diverter cartridge with two outlets.



**METALLIC LEVER**  
This diverter cartridge has metallic lever.



**ROTATION ANGLE**  
Diverter cartridge with 360° rotation angle.

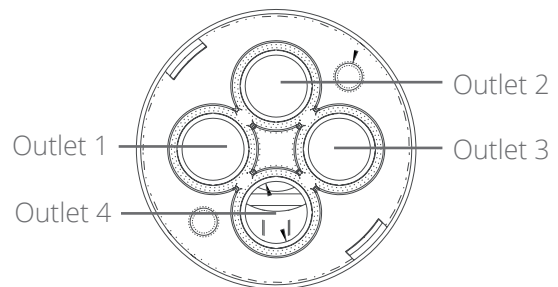


**SIDE INLET**  
The inlet of the diverter is located on the sides.

### ADVANTAGES

- SURPASSES CONVENTIONAL DURABILITY STANDARDS**  
Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal lever improves the user perception of quality and precision in a small cartridge.
- ROBUST DESIGN**  
GD-35 has a robust design, withstanding higher levels of burst pressure.
- HIGHER FLOW RATE**  
The GD35 has a high flow rate @3 bar, allowing to build body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.
- 3 DIFFERENT SHAFTS LENGHT AVAILABLE**  
The GD35 is available with three different shaft lengths to fullfill any manufacturer requirements.

- DIVERTER FUNCTIONALITY**  
This cartridge fits specially good in bath showers because allows to have four different outlets. Mixed water enters inlet on the side and exits either outlet 1, 2, 3 or 4.



Total Height (mm)
52.2 mm
64.8 mm
80.5 mm

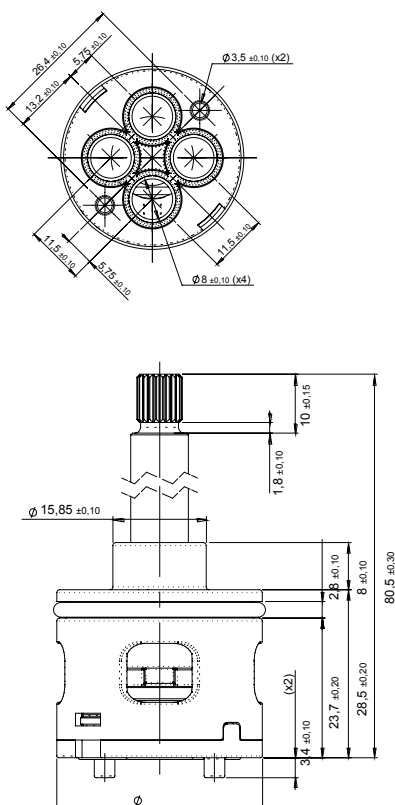
# GD-35 S/D 4

REF. 08GD35S0001



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DATA SHEET

## DIMENSIONS



\* Find machining requirements on pages 106-109.

## RECOMMENDED APPLICATIONS



**SHOWERS DIVERTERS**  
Specially designed for  
showers with diverters.

## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12 Nm
Rotation angle	360°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817 NF077	30,000 cycles 30,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.15-0.40 Nm
OUTLET SELECTOR (Torque increment)	0.10-0.20 Nm

Flow rate (free flow)	S/D
at 0.5 bar	10.2 l/min
at 1 bar	15.5 l/min
at 3 bar	26.5 l/min
at 5 bar	34 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# JOYSTICK

## JY-35

### DESCRIPTION

---

Joystick cartridges have a similar functionality as standard cartridges, although the special design of their levers allows smooth 360° movements.

Very popular in some countries, Joystick cartridges provide a natural movement especially with vertical levers.

The JY35 from Sedal is a very robust Joystick cartridge specially developed for faucets or cascade tap designs.

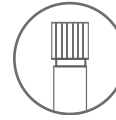
### FEATURES

---



#### JOYSTICK

Joystick cartridge with smooth 360° movement.



#### METALLIC LEVER

This joystick cartridge has metallic lever

### ADVANTAGES

---

#### SMOOTH FEELING

35mm joystick has a very smooth operational feeling that gives comfort to the user.

#### NEW CERAMICS DISC GEOMETRY

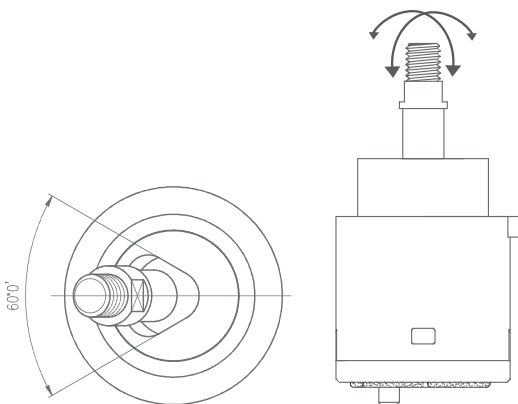
JY-35 has a new ceramics disc geometry that allows its smooth 360° movement.

#### ROBUST DESIGN

35mm joystick has a robust design, withstanding higher levels of burst pressure.

#### HIGHER FLOW RATE

JY-35 has higher flow rates than previous versions.





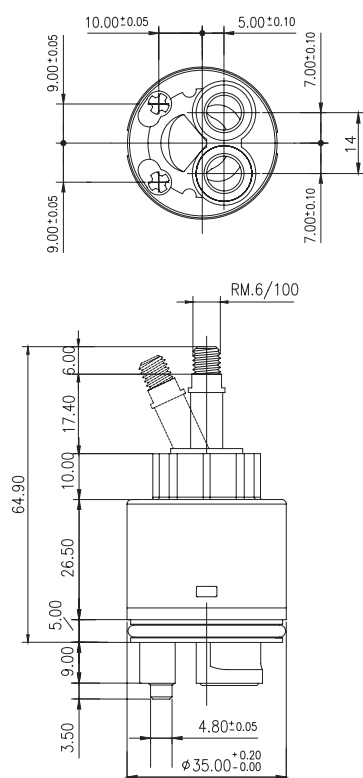
# JY-35 C/D

REF. 08JY35L001



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DATA SHEET

## DIMENSIONS



\* Find machining requirements on pages 106-109.

## RECOMMENDED APPLICATIONS



### WASHBASINS

Specially designed for washbasins.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12 Nm
Opening angle	25°C
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	30-35 bar
Life cycle - EN 817	70,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.25-0.33 Nm

Flow rate (free flow)	S/D
at 0.5 bar	10.4 l/min
at 1 bar	14.3 l/min
at 3 bar	24.6 l/min
at 5 bar	31.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# UPPER SEALING

## G-35

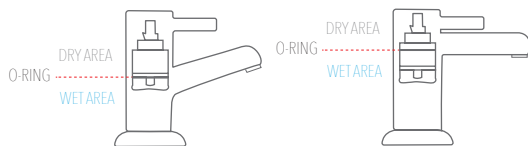
### DESCRIPTION

Upper sealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side. Some of these cartridges also provide extra productivity thanks to their design.

### ADVANTAGES

● **ALLOWS DIFFERENT FAUCET CONFIGURATIONS**

Allows the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side.



● **COMPATIBILITY**

Lower sealing compatible with standard 35mm available.

### FEATURES



**TEMPERATURE LIMITER**

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



**ECO**

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**FLOW LIMITER**

Limit maximum water flow for water saving.

● **UPPER SEALING WITH LIMITERS AVAILABLE**

**TEMPERATURE LIMITER FUNCTION (TR)**

G-35 cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°

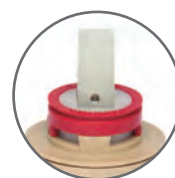


Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

**TEMPERATURE & FLOW LIMITER FUNCTION (TRN)**

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## G-35 C/D

REF. 08RG35L4602 (TRN)



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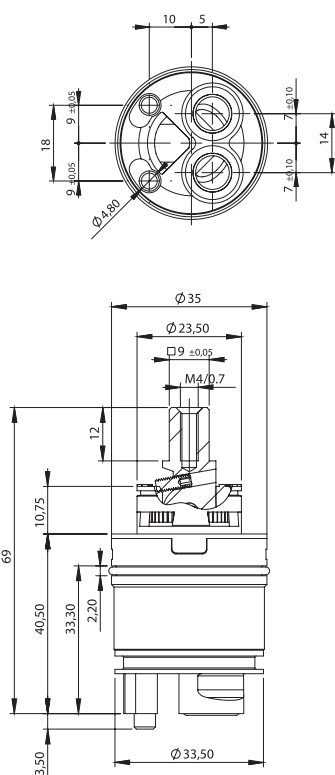
### OTHER VERSIONS

C/D

Without limiters

REF. 08G35L0001

### DIMENSIONS



### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D
Nut torque pitch M1.5	10-12Nm
Opening angle	23°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity (r=45mm)	>10° angle
Fidelity	<5° C
Max. hot water*	90 °C

Operation Torque	C/D
Open-close	0.20-0.40 Nm

Flow rate (free flow)	C/D
at 0.5 bar	9.2 l/min
at 1 bar	13 l/min
at 3 bar	22.5 l/min
at 5 bar	29 l/min

\* Find machining requirements on pages 106-109.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# UPPER SEALING

## G-35 DUE

### DESCRIPTION

Upper sealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side. Some of these cartridges also provide extra productivity thanks to their design.

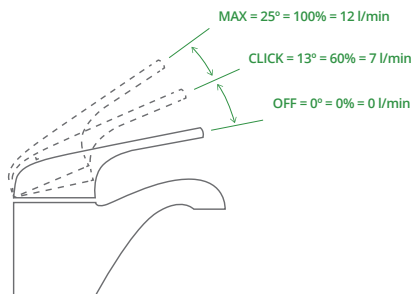
### ADVANTAGES

● **ADDITIONAL FEATURES**

G-35 Due has the same advantages than G-35, but with due technology as an additional feature.

● **DUE TECHNOLOGY**

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



### FEATURES



**ECO**

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**FLOW LIMITER**

Limit maximum water flow for water saving.



**DUE**

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



**TEMPERATURE LIMITER**

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

● **UPPER SEALING WITH LIMITERS**

**TEMPERATURE LIMITER FUNCTION (TR)**

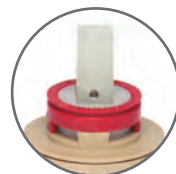
G-35 Due cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



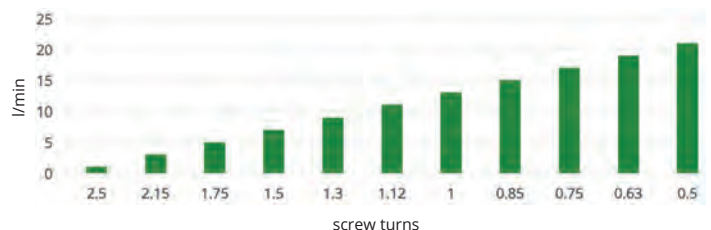
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

**TEMPERATURE & FLOW LIMITER FUNCTION (TRN)**

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



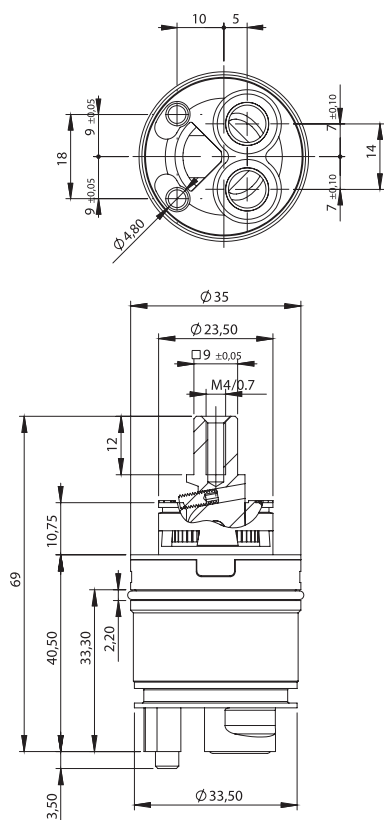
**G-35 C/D**

DUE

REF. 08G35L0002 (TRN)



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DATA SHEET

**DIMENSIONS**

\* Find machining requirements on pages 106-109.

**RECOMMENDED APPLICATIONS****WASHBASINS**

Specially designed for washbasins.

**BATH-SHOWERS**

Specially designed for bath showers.

**KITCHENS**

Suitable for use in kitchens.

**CERTIFICATIONS****TECHNICAL SPECIFICATIONS**

General	C/D
Nut torque pitch M1.5	10-12Nm
Opening angle	23°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity (r=45mm)	>10° angle
Fidelity	<5° C
Max. hot water*	90 °C

Operation Torque	C/D
Open-close	0.20-0.40 Nm

Flow rate (free flow)	C/D
at 0.5 bar	9.2 l/min
at 1 bar	13 l/min
at 3 bar	22.5 l/min
at 5 bar	29 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# UPPER SEALING

## G-35 COLD

### DESCRIPTION

Uppersealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side. Some of these cartridges also provide extra productivity thanks to their design.

### ADVANTAGES

● *ADDITIONAL FEATURES*

G-35 Cold has the same advantages than G-35, but with cold technology as an additional feature.

### FEATURES



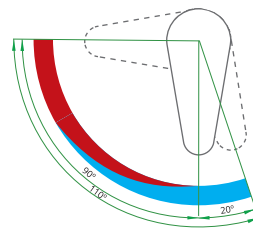
**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**COLD**  
Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.

● *COLD TECHNOLOGY*

The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products. Sedal has developed a new version of standard upper sealing cartridges of 35mm with cold start opening, which flows cold water when the lever is centered. This energy saving feature will help the user to have a better control of energy consumption.



HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %

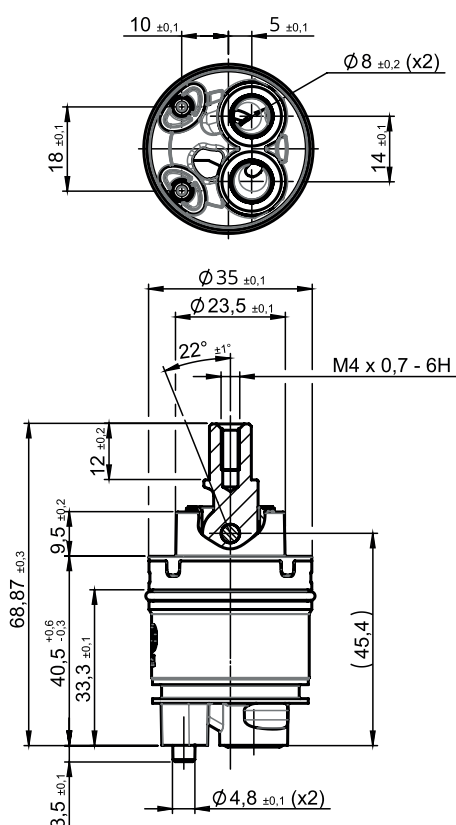




**G-35 C/D**

COLD

REF. 08G35L1501


[DOWNLOAD DATA SHEET](#)
**DIMENSIONS**

\* Find machining requirements on pages 106-109.

**RECOMMENDED APPLICATIONS****WASHBASINS**

Specially designed for washbasins.

**KITCHENS**

Suitable for use in kitchens.

**CERTIFICATIONS****TECHNICAL SPECIFICATIONS**

General	C/D
Nut torque pitch M1.5	10-12Nm
Opening angle	22°
Rotation angle	110°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817	70,000 cycles
Sensitivity (r=45mm)	>10° angle
Fidelity	<5° C
Max. hot water*	90 °C

Operation Torque	C/D
Open-close	0.20-0.40 Nm

Flow rate (free flow)	C/D
at 0.5 bar	6 l/min
at 1 bar	8.8 l/min
at 3 bar	15.3 l/min
at 5 bar	19.4 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# DIRECT PLUG-IN

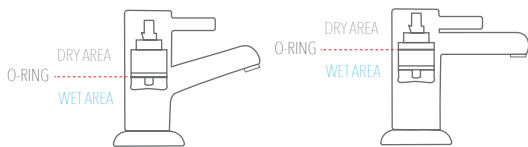
## CC-35

### DESCRIPTION

Upper sealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side. Some of these cartridges also provide extra productivity thanks to their design.

### ADVANTAGES

- DIRECT PLUG-IN**  
 Hoses are threaded directly into the cartridge with direct inlet connections
- MODERN FAUCET DESIGNS**  
 This kind of cartridge allows modern faucet design options thanks to its multiple configurations.
- COST SAVINGS**  
 Direct plug-in allows lighter faucet body and consequently the manufacturer has process and brass savings.
  - Brass saving up to 8%
  - Process saving up to 15%



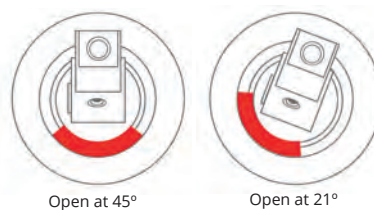
### FEATURES

- ECO**  
 Cartridges identified with an ECO icon offer at least one environmental sustainability feature.
- TEMPERATURE LIMITER**  
 Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.
- DIRECT PLUG IN**  
 Water inlet hoses are plugged directly into the cartridges.
- FLOW LIMITER**  
 Limit maximum water flow for water saving.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

CC-35 cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## CC-35

REF. 08CC35L0003



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DATA SHEET

## CC-35

BASIC

REF. 08CC35L0016



DOWNLOAD  
DATA SHEET

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



\*CC-35 BASIC is ACS certified only

### TECHNICAL SPECIFICATIONS

General	CC-35
Nut torque pitch M1.5	10-12Nm
Opening angle	23.5°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	11.5° angle
Fidelity	<5° C
Max. hot water*	90 °C

Operation Torque	CC-35
Open-close	0.30-0.50 Nm

Flow rate (free flow)	CC-35
at 0.5 bar	9.2 l/min
at 1 bar	12.9 l/min
at 3 bar	22.4 l/min
at 5 bar	29.1 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

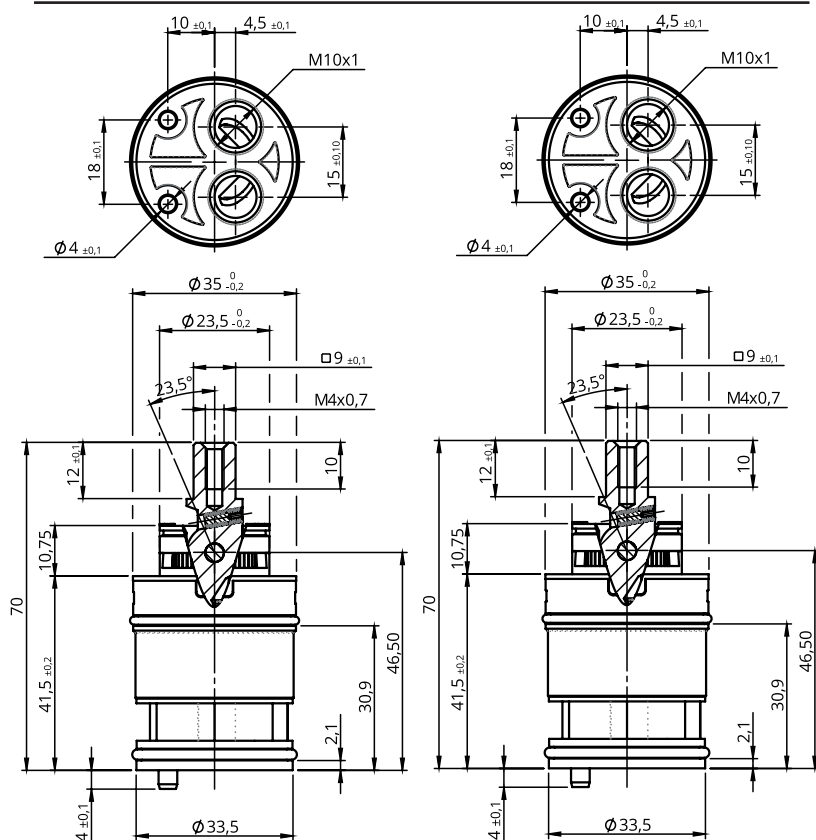
### STANDARD

REF. 08CC35L0001  
REF.08CC35L4501

### BASIC

REF. 08CC35L0002  
REF.08CC35L4502

### DIMENSIONS



\* Find machining requirements on pages 106-109.

# DIRECT PLUG-IN CC-35 DUE

## DESCRIPTION

Upper sealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side. Some of these cartridges also provide extra productivity thanks to their design.

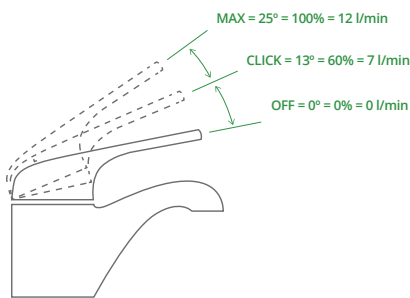
## ADVANTAGES

### ADDITIONAL FEATURES

CC-35 due has the same advantages than CC-35, but with due technology as an additional feature.

### DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



## FEATURES



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



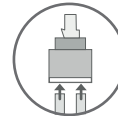
### DUE

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



### FLOW LIMITER

Limit maximum water flow for water saving.



### DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.

### ADDITIONAL FEATURES

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

CC-35 cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



# CC-35

DUE BASIC

REF.08CC35L4502 (TRN)



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DATA SHEET

## OTHER VERSIONS

Temperature limiter (TR)

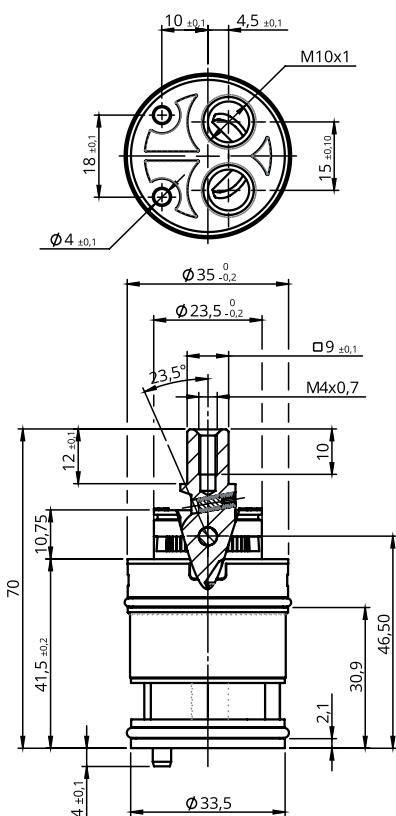
## STANDARD

-

## BASIC

REF. 08CC35L5701

## DIMENSIONS



\* Find machining requirements on pages 106-109.

## RECOMMENDED APPLICATIONS



### WASHBASINS

Specially designed for washbasins.



### BATH-SHOWERS

Specially designed for bath showers.



### KITCHENS

Suitable for use in kitchens.

## CERTIFICATIONS

ACS

## TECHNICAL SPECIFICATIONS

General	CC-35 DUE TRN BASIC
Nut torque pitch M1.5	10-12Nm
Opening angle	23.5°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	11.5° angle
Fidelity	<5° C
Max. hot water*	90 °C

Operation Torque	CC-35 DUE TRN BASIC
Open-close	0.30-0.50 Nm

Flow rate (free flow)	CC-35 DUE TRN BASIC
at 0.5 bar	9.2 l/min
at 1 bar	12.9 l/min
at 3 bar	22.4 l/min
at 5 bar	29.1 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# COMPACT EX-35

## DESCRIPTION

Compact 35 mm cartridge allows the manufacturer for short faucets.

## ADVANTAGES

- **MINIMALISM WITH HIGH PERFORMANCE**  
Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges.
- **ECO FEATURES**  
35 mm and 40mm compact cartridges are available with a due option, a feature that provides up to 50% water saving thanks to a mid-way stop at 60% of the lever stroke. 35mm cartridge is also available with temperature and flow limiters.

## FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**FLOW LIMITER**  
Limit maximum water flow for water saving.



**TEMPERATURE LIMITER**  
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

EX-35 cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**





**EX-35**

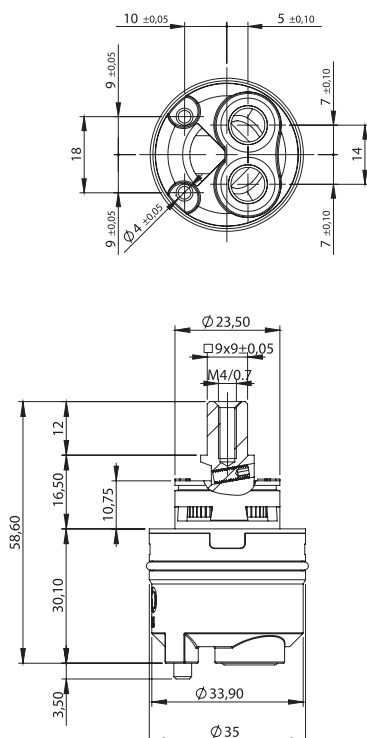
TRN

REF. 08EX35S0001


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DATA SHEET](#)
**OTHER VERSIONS**

Without limiters

REF. 08EX35S1001

**DIMENSIONS**

\* Find machining requirements on pages 106-109.

**RECOMMENDED APPLICATIONS****CONCEALED WASHBASINS**

Specially designed for washbasins.

**CONCEALED BATH-SHOWERS**

Specially designed for bath showers.

**CONCEALED KITCHENS**

Suitable for use in kitchens.

**CERTIFICATIONS****TECHNICAL SPECIFICATIONS**

General	EX-35 TRN
Nut torque pitch M1.5	10-12Nm
Opening angle	24°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	56 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	10°-12° angle
Fidelity	3 °C
Max. hot water*	90 °C

Operation Torque	EX-35 TRN
Open-close	0.20-0.30 Nm

Flow rate (free flow)	EX-35 TRN
at 0.5 bar	8.5 l/min
at 1 bar	12 l/min
at 3 bar	20.8 l/min
at 5 bar	26.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# COMPACT

## EX-35 DUE

### DESCRIPTION

Compact 35 mm cartridge allows the manufacturer for short faucets.

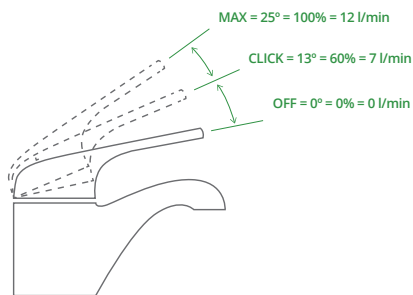
### ADVANTAGES

● **ADDITIONAL FEATURES**

EX-35 due has the same advantages than EX-35, but with due technology as an additional feature.

● **DUE TECHNOLOGY**

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



### FEATURES



**ECO**  
 Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**TEMPERATURE LIMITER**  
 Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



**DUE**  
 Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



**FLOW LIMITER**  
 Limit maximum water flow for water saving.

● **VERSIONS WITH LIMITERS**

**TEMPERATURE LIMITER FUNCTION (TR)**

EX-35 cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

**TEMPERATURE & FLOW LIMITER FUNCTION (TRN)**

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



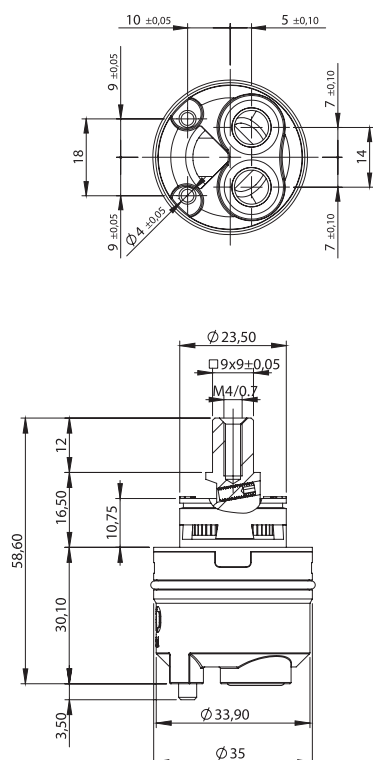
**EX-35**

TRN DUE

REF. 08EX35S3501



DOWNLOAD  
DATA SHEET

**DIMENSIONS**

\* Find machining requirements on pages 106-109.

**RECOMMENDED APPLICATIONS****CONCEALED WASHBASINS**

Specially designed for washbasins.

**CONCEALED BATH-SHOWERS**

Specially designed for bath showers.

**CONCEALED KITCHENS**

Suitable for use in kitchens.

**CERTIFICATIONS****TECHNICAL SPECIFICATIONS**

General	EX-35 TRN
Nut torque pitch M1.5	10-12Nm
Opening angle	24°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	56 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	10°-12° angle
Fidelity	3 °C
Max. hot water*	90 °C

Operation Torque	EX-35 TRN
Open-close	0.20-0.30 Nm
Saving device (DUE)	0.60-0.90 Nm

Flow rate (free flow)	EX-35 TRN
at 0.5 bar	8.5 l/min
at 1 bar	12 l/min
at 3 bar	20.8 l/min
at 5 bar	26.8 l/min

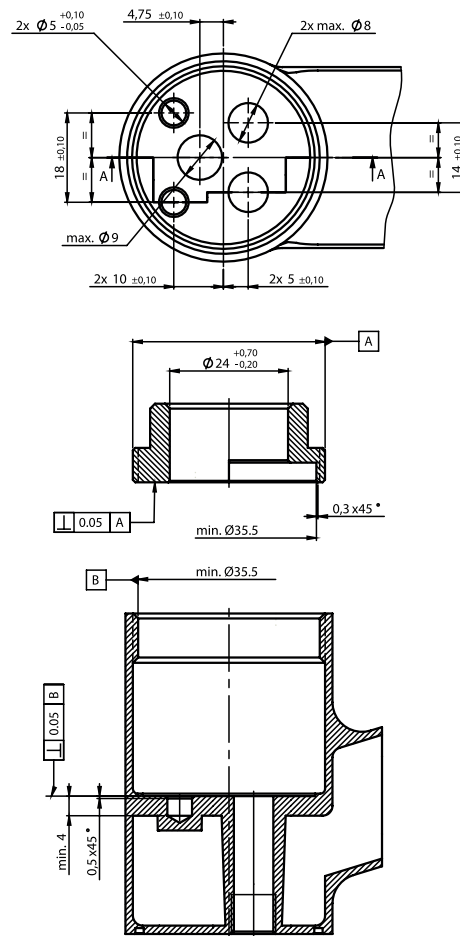
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
35 mm	EN-35 C/D TOP	08EN35L4505	42	<p>The technical drawings include a top view and two cross-sectional views (A-A and B-B). The top view shows a circular cartridge with two holes of diameter <math>2 \times \phi 5^{+0.10}_{-0.05}</math> and two larger holes of diameter <math>2 \times \text{max. } \phi 8</math>. Dimensions include a total diameter of <math>18 \pm 0.10</math>, a distance of <math>2 \times 10 \pm 0.10</math> between the small holes, and a distance of <math>2 \times 5 \pm 0.10</math> between the large holes. The cross-sectional view A-A shows a diameter of <math>\phi 24^{+0.70}_{-0.20}</math> and a chamfered edge of <math>0.3 \times 45^\circ</math>. The cross-sectional view B-B shows a diameter of <math>\phi 34 \pm 0.05</math> and a chamfered edge of <math>0.5 \times 45^\circ</math>. Surface finish requirements are indicated as <math>0.05</math> and <math>0.05</math> for different areas.</p>
	EN-35 C/D TOP DUE	08EN35L3504	44	
	SN-35 C/D ENDURA	08SN35L0003	46	
	SN-35 C/D ENDURA DUE	08SN35L3001	48	
	SN-35 C/D ENDURA COLD	08SN35L1502	50	
	SN-35 C/D ENDURA COLD DUE	08SN35L0005	52	
	EN-35 C/D ENDURA	08EN35L0004	54	
	EN-35 C/D ENDURA DUE	08EN35L3001	56	
	EN-35 C/D ENDURA COLD	08EN35L1503	58	
	EN-35 C/D ENDURA COLD DUE	08EN35L0005	62	
	EN-35 C/D ENDURA COLD MIRROR DUE	08EN35L2002	64	
	EN-35 C/D	08EN35L0003	66	
	EN-35 C/D DUE	08E35LAZ30	67	
	SN-35 C/D	08SN35LGO00	68	
	TRN-35 C/D	08RN35LVE00	69	
	EN-35 C/D BG BASIC	08EN35L0011	70	
	SN-35 C/D ECOFLOW	08SN35L0008	72	
	SN-35 C/D TERMACLICK	08SN35L2003	74	
	GI-35 C/D	08GI35LBE64	82	
	GI-35 C/D L9	08GI35LBE09	84	
GI-35 C/D Z20	08GI35LBE01	85		
GD-35 C/D	08GD35LBE00	86		
JY-35 C/D	08JY35LBE00	90		

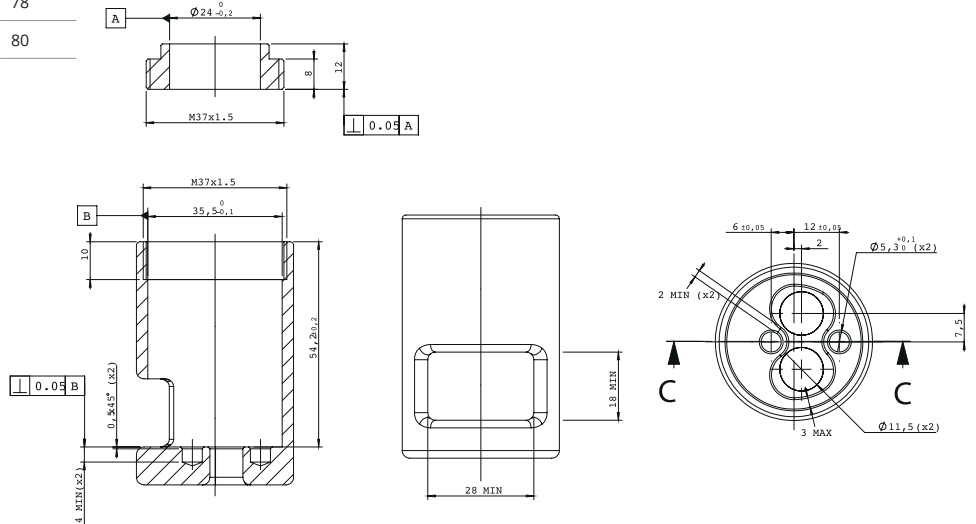
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
35 mm	EN-35 C/D TOP	08EN35S4505	42	
	EN-35 C/D TOP DUE	08EN35S3504	44	
	SN-35 S/D ENDURA	08SN35S0003	46	
	SN-35 S/D ENDURA DUE	08SN35S3001	48	
	SN-35 S/D ENDURA COLD	08SN35S1502	50	
	SN-35 S/D ENDURA COLD DUE	08SN35S0005	52	
	EN-35 S/D ENDURA	08EN35S0004	54	
	EN-35 S/D ENDURA DUE	08EN35S3001	56	
	EN-35 S/D ENDURA COLD	08EN35S1503	58	
	EN-35 S/D ENDURA COLD MIRROR	08EN35S1505	60	
	EN-35 S/D ENDURA COLD DUE	08EN35S0005	62	
	EN-35 S/D ENDURA COLD MIRROR DUE	08EN35S2002	64	
	EN-35 S/D	08EN35S0003	66	
	EN-35 S/D DUE	08E35FAZ30	67	
	SN-35 S/D	08SN35FGO00	68	
	TRN-35 S/D	08RN35FVE00	69	
	EN-35 S/D BG BASIC	08EN35S0011	70	
	SN-35 S/D ECOFLOW	08SN35S0009	72	
	SN-35 S/D TERMACLICK	08SN35S2003	74	
	SN-35 S/D TERMACLICK MIRROR	08SN35S2004	76	
	GI-35 S/D	08GI35FBE64	82	
	GI-35 S/D L9	08GI35FBE09	84	
	GI-35 S/D Z20	08GI35FBE01	85	
	GD-35 S/D	08GD35FBE00	86	



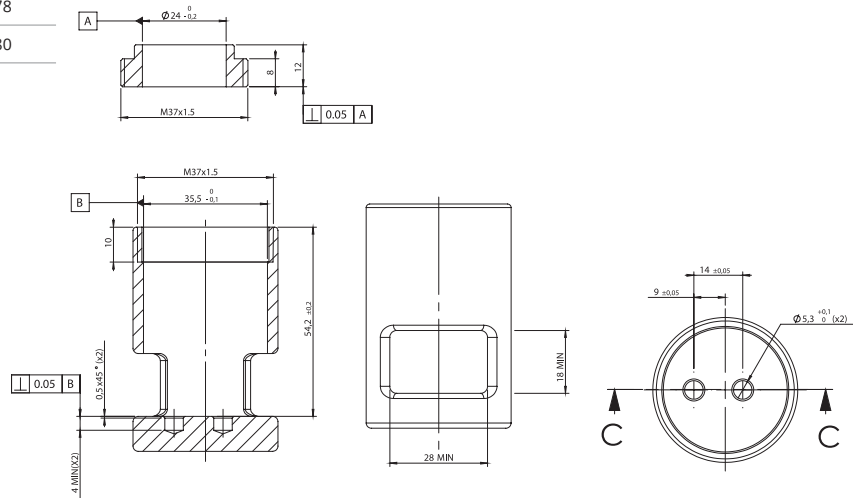
# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

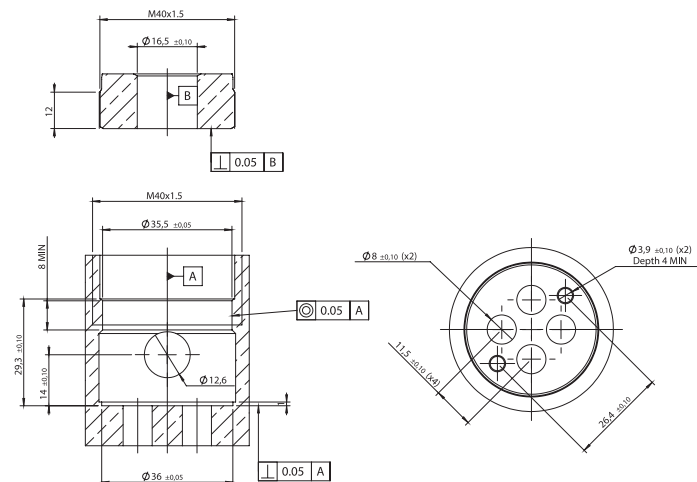
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
35 mm	SN-35 BISO 3	08SN35B0001	78	
	SN-35 BISO 2	08SN35B0002	80	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
35 mm	SN-35 SISO 3	08SN35A0001	78	
	SN-35 SISO 2	08SN35A0002	80	

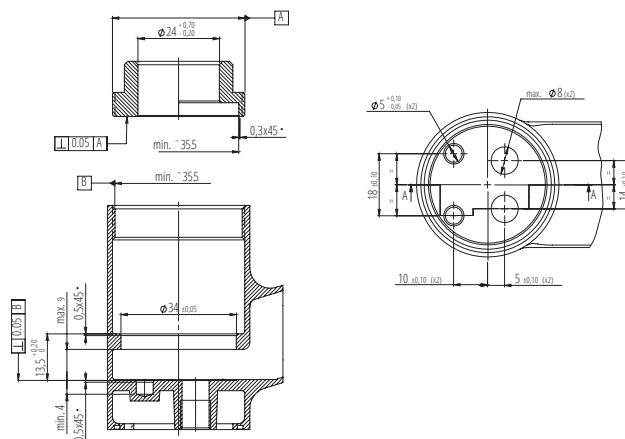


DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
35 mm	GD-35 S/D 4	08GD35S0004	88	

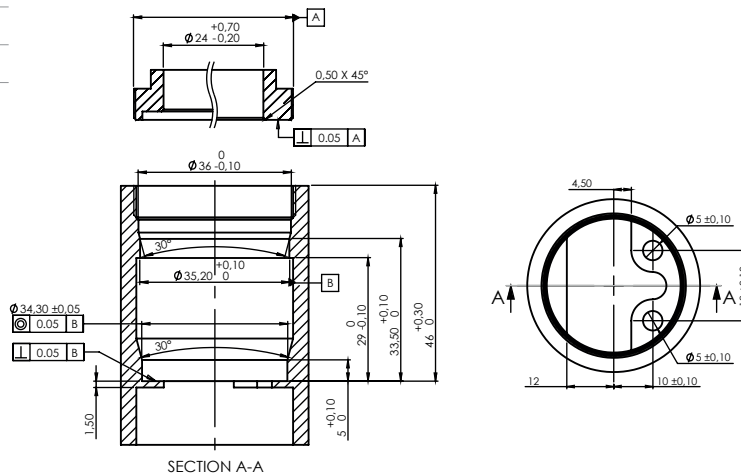




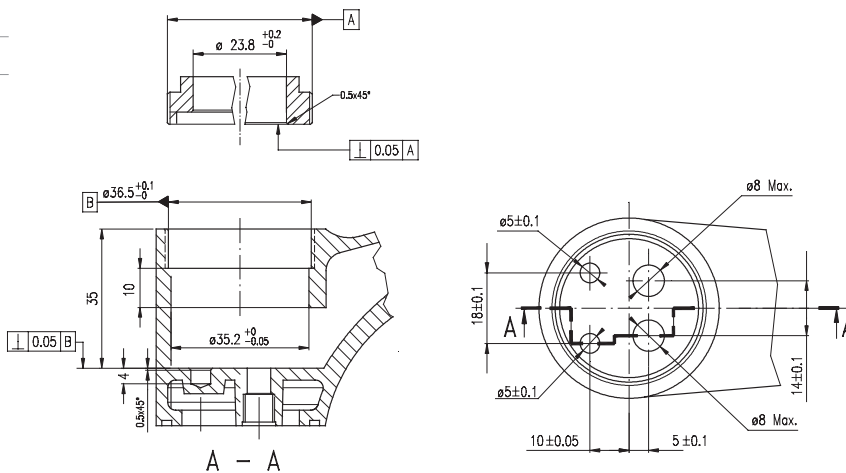
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
	G-35 C/D	08RG35L4602	92	
35 mm	G-35 C/D DUE	08G35L0002	94	
	G-35 C/D COLD	08G35L1501	96	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
	CC-35	08CC35L0003	98	
35 mm	CC-35 BASIC	08CC35L0016	99	
	CC-35 DUE	08CC35L5701	100	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
35 mm	EX-35 TRN	08EX35S0001	102	
	EX-35 TRN DUE	08EX35S3501	104	




# 40MM CARTRIDGES

*FOR SINGLE  
LEVER FAUCETS*





# INDEX · 40MM CARTRIDGES




## THEDRA

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
SN		THEDRA	✓	✓	CD SD	08SN40L0001 08SN40S0001	112
		DUE	✓	-	CD SD	08SN40L3001 08SN40S3001	114
		COLD	✓	✓	CD SD	08SN40L1501 08SN40S1501	116
		COLD DUE	✓	✓	CD SD	08SN40L2002 08SN40S2002	118

## HIGH FLOW

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
40MM		GC-40	✓	✓	CD SD	08GC40L4501 08GC40S4501	134
		GC-40 DUE	✓	-	CD SD	08GC40L0001 08GC40S0001	136
45MM					SD	08GC45FBE00	138


## STANDARD

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
E & EN		EN-40	-	-	CD SD	08EN40LAZ00 08EN40FAZ00	120
		E-40 DUE	-	-	CD SD	08E40LAZ30 08E40FAZ30	121
		E-40 COLD	-	-	CD SD	08E40LAM10 08E40FAM10	122
		E-40 COLD DUE	-	-	CD SD	08E40LAM20 08E40FAM20	123
		EN-40 COLD DUE	-	-	CD SD	08E40L3002 08E40S3002	124
		EN-40 COLD MIRROR DUE	-	-	CD SD	08EC40L2001 08EC40S2001	126
SN					CD SD	08SN40LGO00 08SN40FGO00	128
TRN					CD SD	08RN40LVE00 08RN40FVE00	129



## SPECIALS

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
REVOLVING		GI-40 L10 TR	✓	-	CD SD	08GI40LBE64 08GI40FBE64	140
		GI-40 Z20	-	-	CD SD	08GI40LBE00 08GI40FBE00	142
		GI-40 L10	-	-	CD SD	08GI40LBE10 08GI40FBE10	143
DIVERTER					SD	08GD40S0001	144
JOYSTICK					CD SD	08JY40LBE00 08JY40FBE00	146
PB					CD	08PB40L0001	148


## BASIC

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
BASIC					CD SD	08DN40LBG01 08DN40FBG01	130

## UPPER SEALING

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
UPPER SEAL.		G-40	✓	✓	CD	08G40LBE00	150
		G-40 DUE	✓	✓	CD	08G40LBE30	150
COMPACT		EX-40	✓	✓	CD	08EX40S0001	152
		EX-40 DUE	✓	✓	CD	08EX40S3001	152

## ECOFLOW

		TEMP. LIMITER	FLOW LIMITER		CODE	PG	
SN					CD SD	08SN40L0003 08SN40S0004	132

# SN-40 THEDRA

## DESCRIPTION

40mm cartridge with a unique clean and smart design that confers an undeniable ability to withstand the most extreme working conditions and requests: compression, torque, handle load, burst and x2 life cycles, granting smooth but firm user operation thanks to Glide Feel Technology. It also includes TR and TRN versions.

## ADVANTAGES

- **SN TECHNOLOGY**  
Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).
- **CHALLENGE, TECHNOLOGY**  
Careful design, ceramic expertise, several smart technologies, high performance materials and extraordinarily precise components are used to build the new THEDRA cartridges.
- **GREAT RANGE. GRATER POSSIBILITIES**  
THEDRA valve range provides more than 20 different combinations for the manufacturers to develop their products.
- **OUT OF SOLID ROCK**  
THEDRA is designed according to the roughest manufacturer's technical requests.
- **ENJOY THE SILENCE**  
THEDRA is NF Class I compliant, featuring Sedal's Noise Cancelling Technology.
- **DOUBLE LIFE-CYCLE**  
The new THEDRA cartridge has 2 times ASME life cycles thanks to SedalOX™ 96.
- **UNEQUAL DESIGN, UNEQUAL RESULTS**  
THEDRA was granted with reddot award in 2016.

## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### FLOW LIMITER

Limit maximum water flow for water saving.

## VERSIONS WITH LIMITERS

### TEMPERATURE LIMITER FUNCTION (TR)

Thedra cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

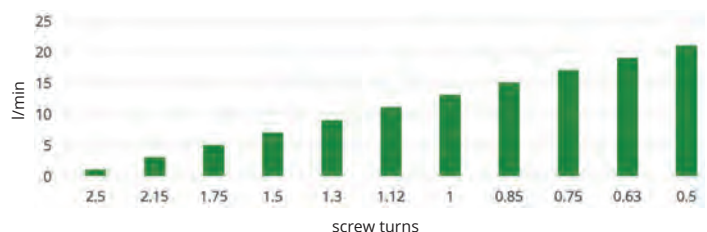
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**





## SN-40 C/D

THEDRA

REF. 08SN40L0001



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## SN-40 S/D

THEDRA

REF. 08SN40S0001



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### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>10-12 mm	>10-12 mm
Fidelity	<3°	<3°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Noise level	C/D	S/D
Noise level	16 ± 2 dB	20 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	8.3 l/min	7.6 l/min
at 1 bar	18.3 l/min	16.6 l/min
at 3 bar	31.5 l/min	28.6 l/min
at 5 bar	40.1 l/min	37 l/min

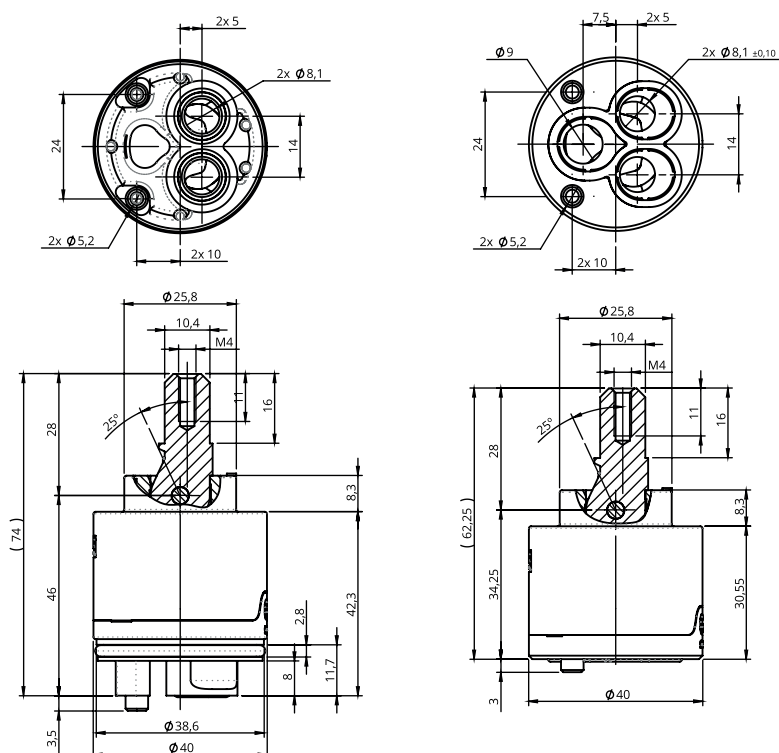
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

	CD	SD
Temperature limiter (TR)	REF.08SN40L0501	REF. 08SN40S0501
Temperature & flow limiter (TRN)	REF.08SN40L4501	REF. 08SN40S4501

### DIMENSIONS



\* Find machining requirements on pages 154-157.

# SN-40 THEDRA DUE

## DESCRIPTION

40mm cartridge with a unique clean and smart design that confers an undeniable ability to withstand the most extreme working conditions and requests: compression, torque, handle load, burst and x2 life cycles, granting smooth but firm user operation thanks to Glide Feel Technology. It includes DUE technology for water saving and TR version.

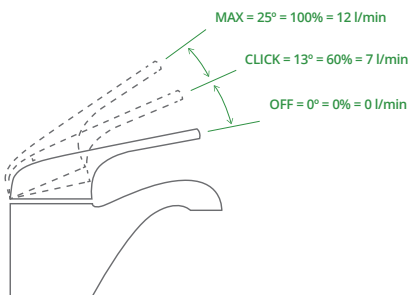
## ADVANTAGES

### ADDITIONAL FEATURES

SN-40 Thedra Due has the same advantages than SN-40 Thedra, but with due technology as an additional feature.

### DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### DUE

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50%.



### FLOW LIMITER

Limit maximum water flow for water saving.



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Thedra cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**





## SN-40 C/D

THEDRA DUE

REF. 08SN40L3001



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## SN-40 S/D

THEDRA DUE

REF. 08SN40S3001



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### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

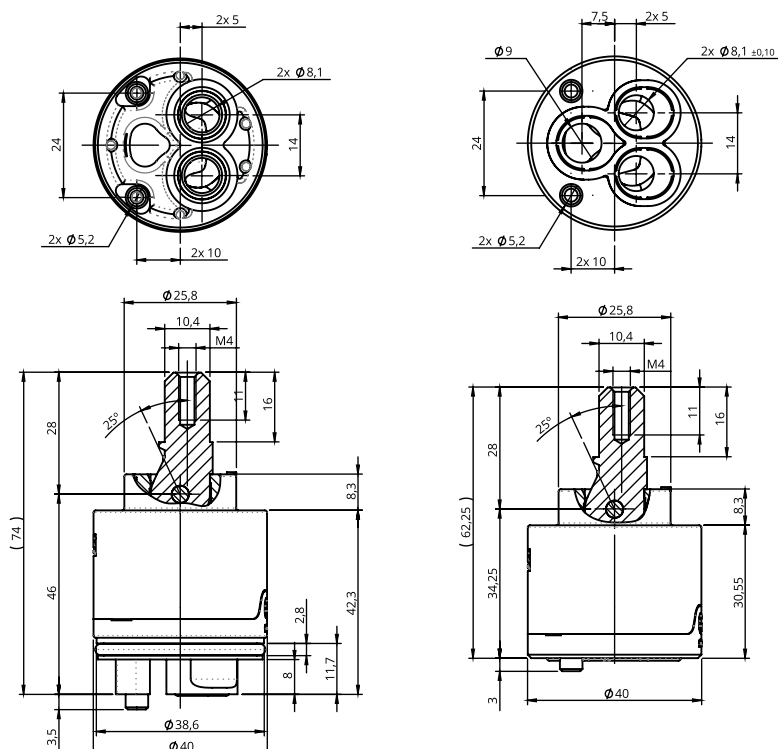
CD

REF.08SN40L3501  
on demand

SD

REF. 08SN40S3501  
on demand

### DIMENSIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>10-12 mm	>10-12 mm
Fidelity	<3°	<3°
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Noise level	C/D	S/D
Noise level	16 ± 2 dB	20 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	8.3 l/min	7.6 l/min
at 1 bar	18.3 l/min	16.6 l/min
at 3 bar	31.5 l/min	28.6 l/min
at 5 bar	40.1 l/min	37 l/min

\* Find machining requirements on pages 154-157.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# SN-40 THEDRA COLD

## DESCRIPTION

40mm cartridge with a unique clean and smart design that confers an undeniable ability to withstand the most extreme working conditions and requests: compression, torque, handle load, burst and x2 life cycles, granting smooth but firm user operation thanks to Glide Feel Technology. This cartridge opens in cold position and has TR and TRN versions available.

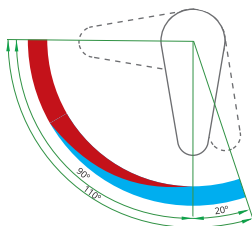
## ADVANTAGES

### ADDITIONAL FEATURES

SN-40 Thedra Cold has the same advantages than SN-40 Thedra, but with cold technology as an additional feature.

### COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



## FEATURES



### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### FLOW LIMITER

Limit maximum water flow for water saving.



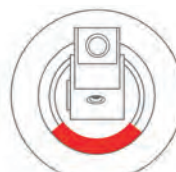
### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

### VERSIONS WITH LIMITERS

#### TEMPERATURE LIMITER FUNCTION (TR)

Thedra cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

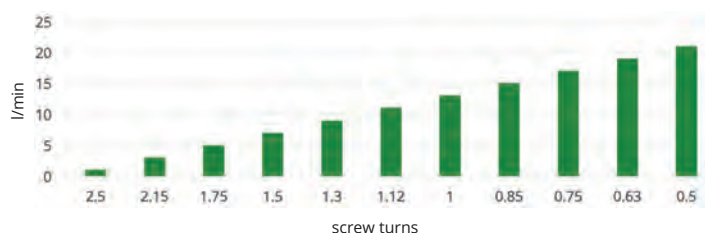
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption**.



## SN-40 C/D

THEDRA COLD

REF. 08SN40L1501



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## SN-40 S/D

THEDRA COLD

REF. 08SN40S1501



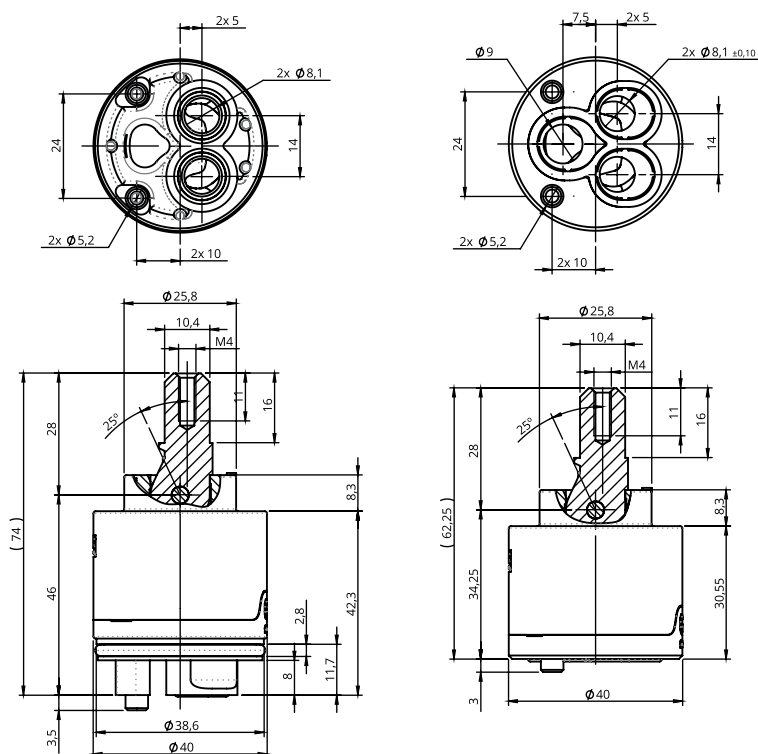
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### OTHER VERSIONS

Temperature limiter (TR)  
Temperature & flow limiter (TRN)

	CD	SD
Temperature limiter (TR)	REF.08SN40L2501	REF.08SN40S2501
Temperature & flow limiter (TRN)	REF. 08SN40L4001	REF.08SN40S4001

### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>10-12 mm	>10-12 mm
Fidelity	<3°	<3°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Noise level	C/D	S/D
Noise level	16 ± 2 dB	20 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.2 bar	8.3 l/min	7.6 l/min
at 1 bar	18.3 l/min	16.6 l/min
at 3 bar	31.5 l/min	28.6 l/min
at 5 bar	40.1 l/min	37 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# SN-40 THEDRA

## COLD DUE

### DESCRIPTION

40mm cartridge with a unique clean and smart design that confers an undeniable ability to withstand the most extreme working conditions and requests: compression, torque, handle load, burst and x2 life cycles, granting smooth but firm user operation thanks to Glide Feel Technology. It also includes SN system, which provides the cartridge with a unique smoothness of operation, TRN technology for temperature and flow control and DUE for water saving. This cartridge opens in cold position.

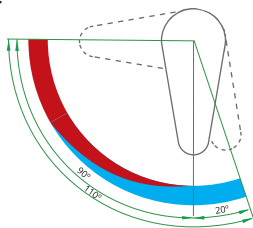
### ADVANTAGES

#### ADDITIONAL FEATURES

SN-40 Thedra C3 has the same advantages than SN-40 Thedra, but with cold and due technologies as additional features.

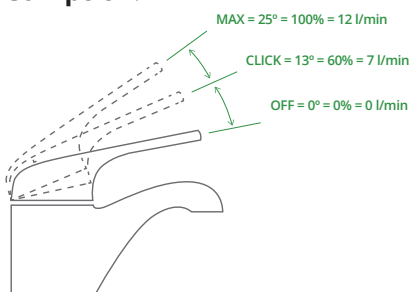
#### COLD TECHNOLOGY

The lever is in cold position by default, **saving up to 10% from the household energy consumption** related to plumbing products.



#### DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption**.



### FEATURES



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



**FLOW LIMITER**  
Limit maximum water flow for water saving.



**COLD**  
Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



**TEMPERATURE LIMITER**  
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



**DUE**  
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

#### VERSIONS WITH LIMITERS

##### TEMPERATURE LIMITER FUNCTION (TR)

Thedra cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

##### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption**.



## SN-40 C/D

THEDRA  
COLD DUE

REF. 08SN40L2002



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## SN-40 S/D

THEDRA  
COLD DUE

REF. 08SN40S2002

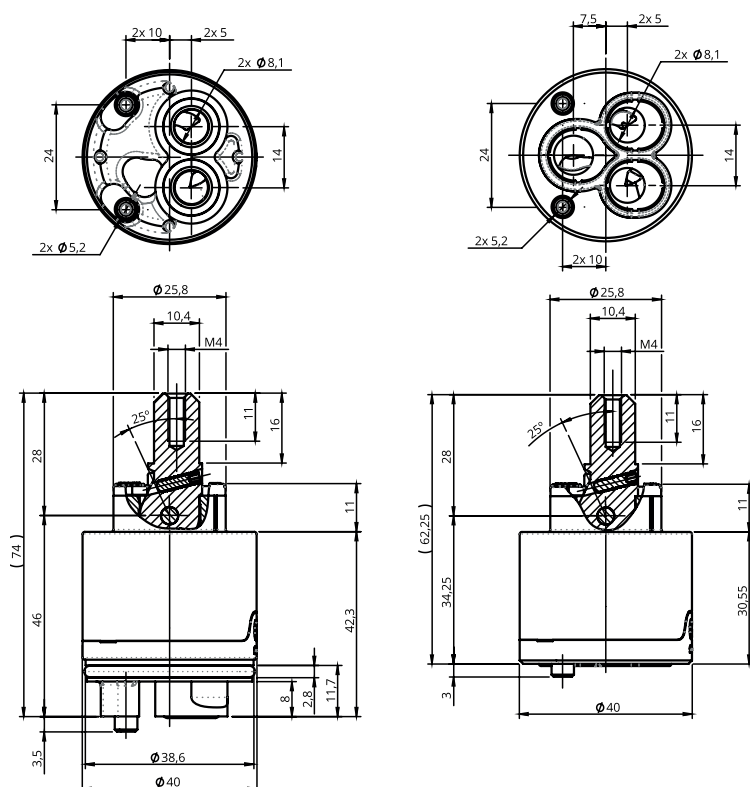


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DATA SHEET

### OTHER VERSIONS

	CD	SD
Temperature limiter (TR)	REF.08SN40L5001	REF.08SN40S5001
Temperature & flow limiter (TRN)	REF.08SN40L5501	REF.08SN40S5501

### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>10-12 mm	>10-12 mm
Fidelity	<3°	<3°
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Noise level	C/D	S/D
Noise level	17.5 ± 2 dB	16 ± 2 dB

Flow rate (free flow)	C/D	S/D
at 0.3 bar	4.4 l/min	4 l/min
at 1 bar	8.1 l/min	7.5 l/min
at 3 bar	14.2 l/min	13.3 l/min
at 4 bar	16.5 l/min	15.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# STANDARD CARTRIDGES

## EN-40 C/D

REF.08EN40LAZ00



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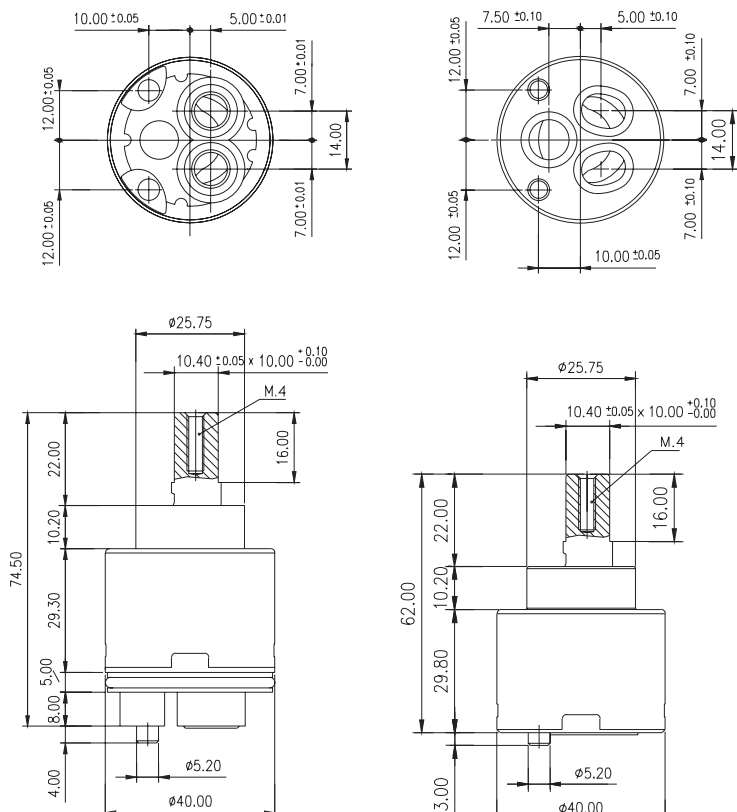
## EN-40 S/D

REF.08EN40FAZ00



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DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 154-157.

### DESCRIPTION

Standard 40 mm cartridge.

### ADVANTAGES

Classic standard cartridge of Sedal.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	55-65 bar	55-65 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity	15-17 mm	16-17 mm
Constant 63°C & 50°C (6 l/min - 3 l/min)	0.5 - 1.7 °C	0.8 - 1.7 °C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.25-0.35 Nm	0.25-0.35 Nm
Turn left-right	0.25-0.35 Nm	0.25-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.6 l/min	10.4 l/min
at 1 bar	15 l/min	14.7 l/min
at 3 bar	26 l/min	25.5 l/min
at 5 bar	33.4 l/min	32.7 l/min

Only applies to officially listed products.

Tested at Sedal's lab with Sedal's standard faucet

\*Peak or limited time condition.



## E-40 C/D

DUE

REF.08E40LAZ30



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## E-40 S/D

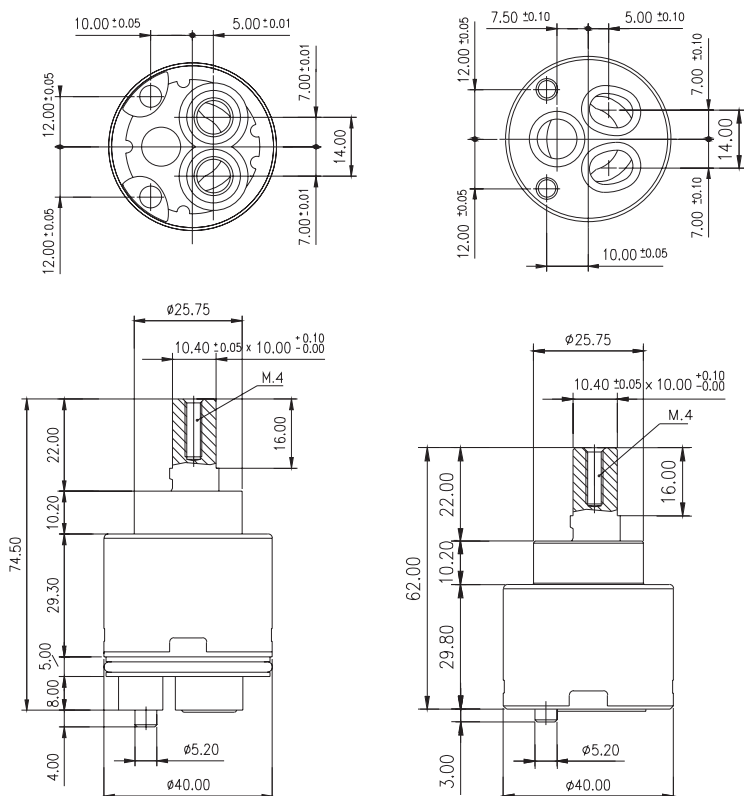
DUE

REF.08E40FAZ30



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### DIMENSIONS



\* Find machining requirements on pages 154-157.

### DESCRIPTION

Standard 40mm cartridge with DUE technology.

### FEATURES



**ECO**  
Environmental sustainability features.



**DUE**  
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke.

### ADVANTAGES

The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	55-65 bar	55-65 bar
Life cycle - EN 817	70,000 cycles	175,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity	9°-8.54° angle	-
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.25-0.35 Nm	0.25-0.30 Nm
Turn left-right	0.25-0.35 Nm	0.25-0.30 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.3 l/min	10.6 l/min
at 1 bar	14.2 l/min	14.8 l/min
at 3 bar	24.5 l/min	25.4 l/min
at 5 bar	31.5 l/min	32.6 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# STANDARD CARTRIDGES

## E-40 C/D

COLD

REF.08E40LAM10



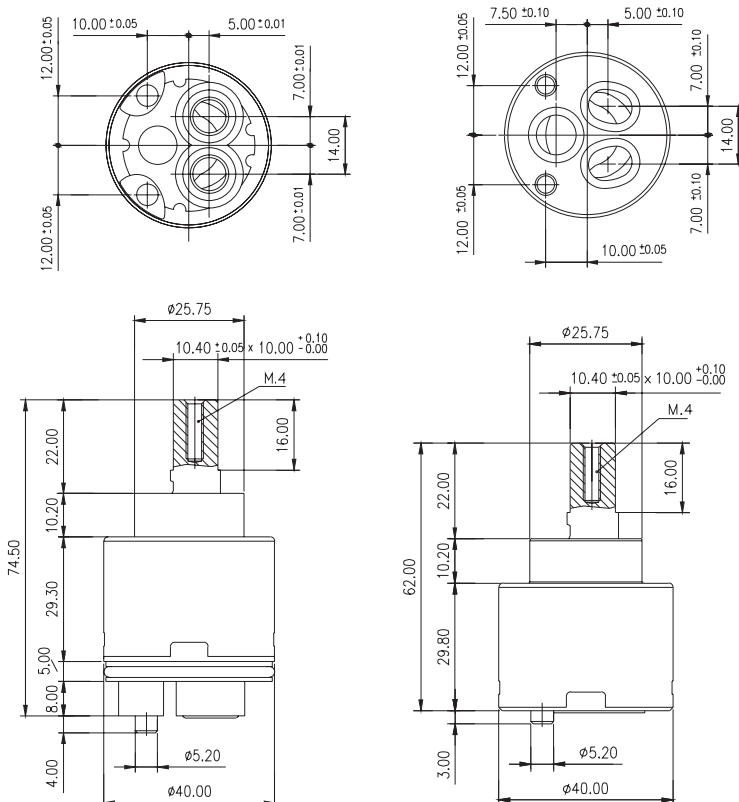
## E-40 S/D

COLD

REF. 08E40FAM10



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### DESCRIPTION

Standard 40mm cartridge with cold start.

### FEATURES



**ECO**  
Environmental sustainability features.



**COLD**  
Energy saving feature thanks to cold start when the lever is centered.

### ADVANTAGES

The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	60-73 bar	50-60 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity	4.5°-4.9° angle	-
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	8.2 l/min	7.6 l/min
at 1 bar	11.4 l/min	10.4 l/min
at 3 bar	19 l/min	17.6 l/min
at 5 bar	24.3 l/min	22.8 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

## E-40 C/D

COLD DUE

REF.08E40LAM20



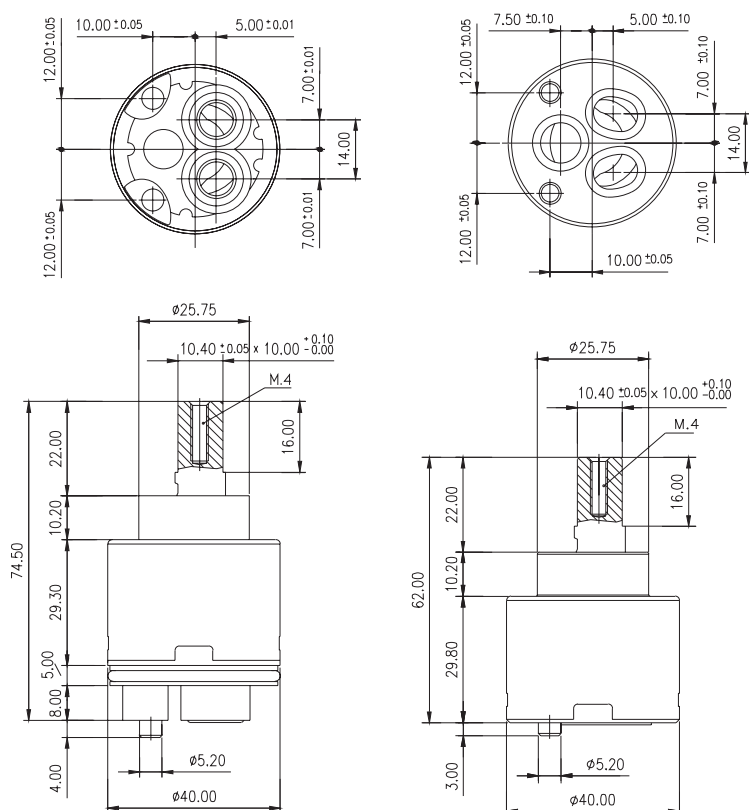
## E-40 S/D

COLD DUE

REF. 08E40FAM20



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### DESCRIPTION

Standard 40mm cartridge with cold start and due technology.

### FEATURES



**COLD**  
Energy saving feature thanks to cold start when the lever is centered.



**DUE**  
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke.

### ADVANTAGES

Due technology presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	60-73 bar	50-60 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity	4.5°-4.9° angle	-
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	8.2 l/min	7.6 l/min
at 1 bar	11.4 l/min	10.5 l/min
at 3 bar	19 l/min	17.5 l/min
at 5 bar	24.3 l/min	22.6 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# STANDARD EN-40 COLD DUE

## DESCRIPTION

Standard 40mm cartridge with C3 technology.

## FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**DUE**  
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

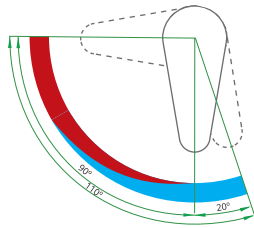


**COLD**  
Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.

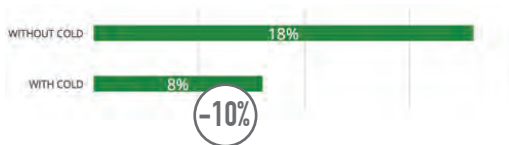
## ADVANTAGES

### ● COLD TECHNOLOGY

The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.

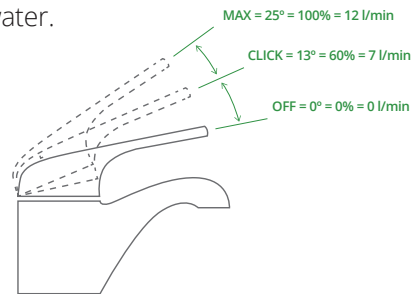


HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %

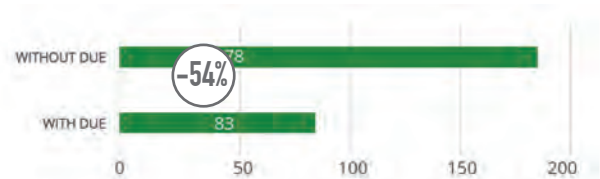


### ● DUE TECHNOLOGY

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows saving water.



DAILY AVERAGE WATER CONSUMPTION PER PERSON - FAUCETS & SHOWERS - IN LITERS



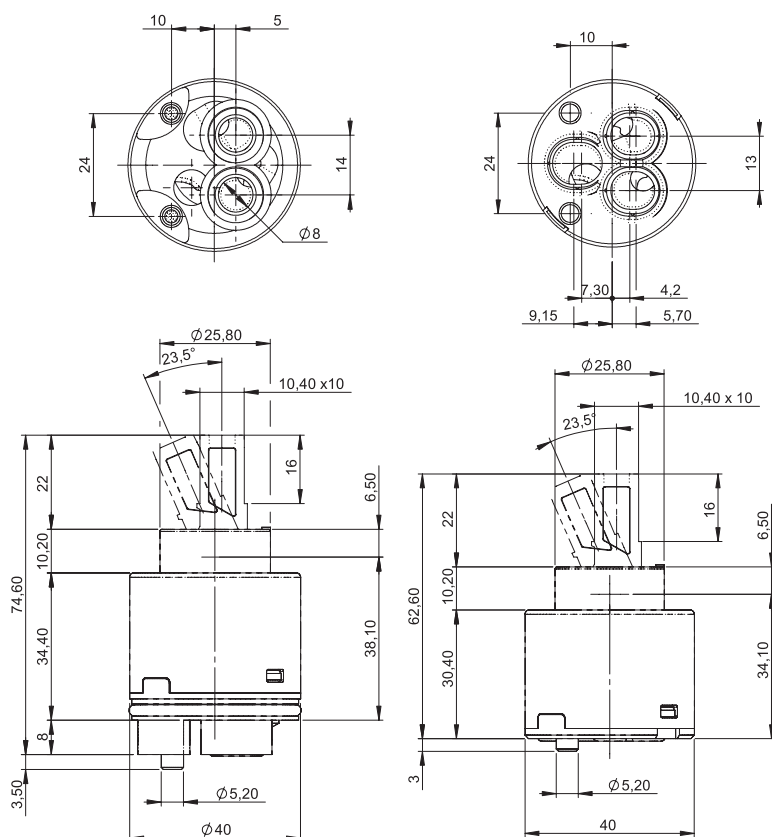
**EN-40 C/D**  
*EC-40 COLD DUE*  
 REF.08E40L3002



**EN-40 S/D**  
*EC-40 COLD DUE*  
 REF. 08E40S3002



**DIMENSIONS**



\* Find machining requirements on pages 154-157.

**RECOMMENDED APPLICATIONS**



**WASHBASINS**  
 Specially designed for washbasins.



**BATH-SHOWERS**  
 Specially designed for bath showers.



**KITCHENS**  
 Suitable for use in kitchens.

**CERTIFICATIONS**



**TECHNICAL SPECIFICATIONS**

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	110°	110°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12° angle	>12° angle
Fidelity	<2°C	<2°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	8.4 l/min	7.6 l/min
at 1 bar	12 l/min	11 l/min
at 3 bar	20.8 l/min	20 l/min
at 5 bar	27 l/min	26.2 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# STANDARD

## EN-40 COLD MIRROR DUE

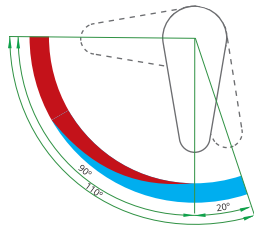
### DESCRIPTION

Standard 40mm cartridge with C3 technology and mirror base to make it easier to fit in Kitchens, avoiding the handle touching the wall.

### ADVANTAGES

● *COLD TECHNOLOGY*

The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.



● *SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS*

Mirror version has been specifically designed for kitchen applications, avoiding the inconvenience of the handle touching the wall.

### FEATURES



**ECO**

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**DUE**

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.



**COLD**

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.

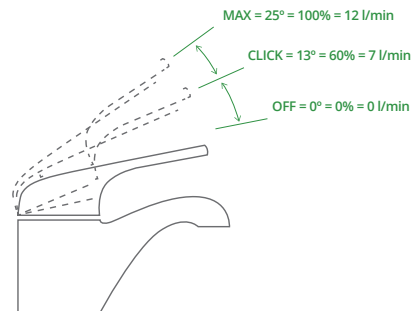


**MIRROR**

Movement from right to left to obtain hot water.

● *DUE TECHNOLOGY*

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows saving water.



COLD

MAX. TEMPERATURE



## EN-40 C/D

EC-40 COLD  
MIRROR DUE

REF.08EC40L2001



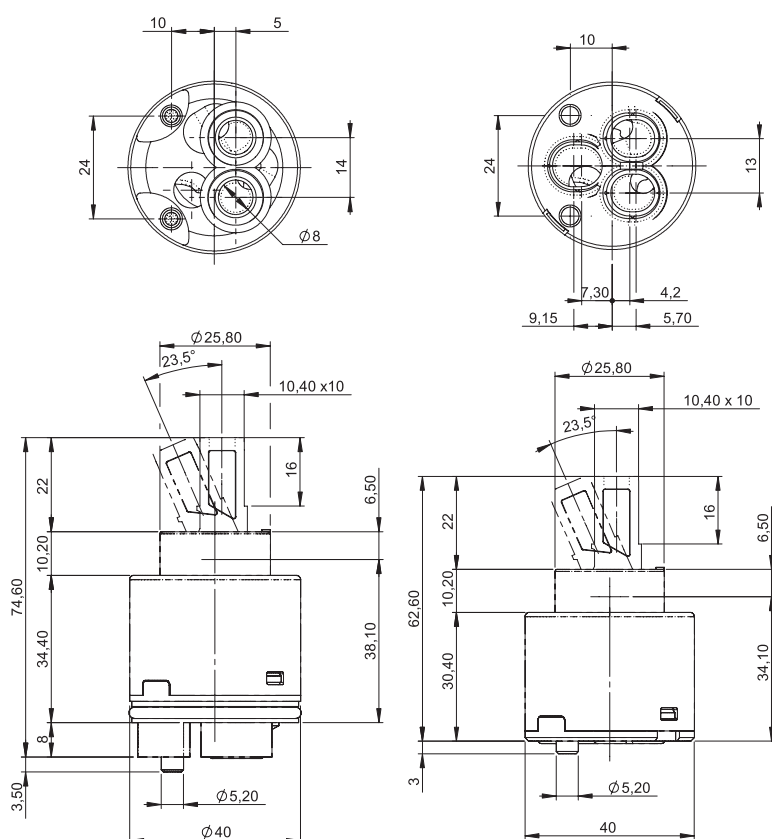
## EN-40 S/D

EC-40 COLD  
MIRROR DUE

REF. 08EC40S2001



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	110°	110°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12° angle	>12° angle
Fidelity	<2°C	<2°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	8.4 l/min	7.6 l/min
at 1 bar	12 l/min	11 l/min
at 3 bar	20.8 l/min	20 l/min
at 5 bar	27 l/min	26.2 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# STANDARD CARTRIDGES

## SN-40 C/D

REF.08SN40LGO00

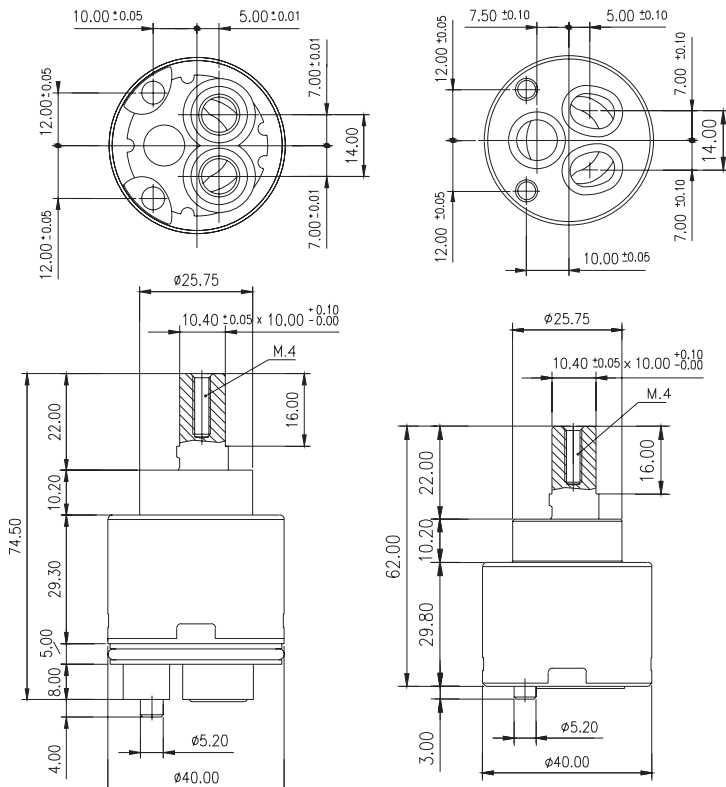


## SN-40 S/D

REF..08SN40FG000



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### DESCRIPTION

40 mm cartridge.

### ADVANTAGES

The classic standard cartridge with SN technology. Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	CD	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	72 bar	68-77 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity	10°-12° angle	13°-15° angle
Fidelity	-	4.5 °C
Max. hot water	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	11 l/min	11.1 l/min
at 1 bar	15.4 l/min	15.5 l/min
at 3 bar	26.4 l/min	26.8 l/min
at 5 bar	34.3 l/min	34.2 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

## TRN-40 C/D

REF.08RN40LVE00



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## TRN-40 S/D

REF.08RN40FVE00



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### DESCRIPTION

40 mm cartridge.

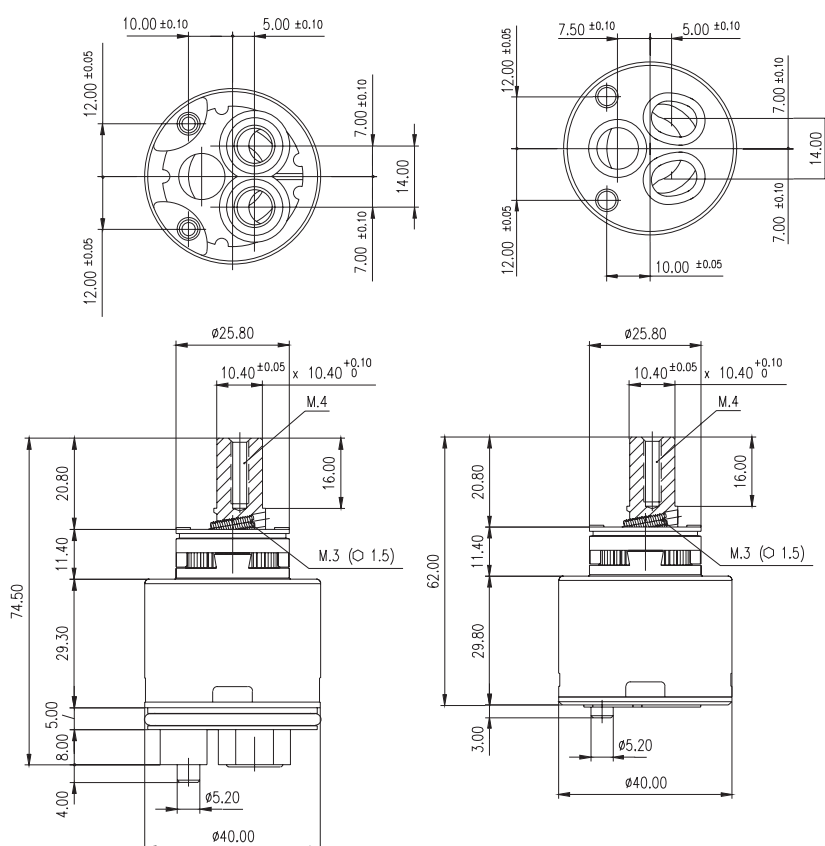
### ADVANTAGES

Sedal standard cartridge includes flow and temperature limiters to save water and energy, offering an environmental sustainability feature.

### RECOMMENDED APPLICATIONS



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	60-72 bar	55-65 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity	8°-10° angle	9.6° -9.7° angle
Fidelity	3°C	-
Max. hot water	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	CD	SD
at 0.5 bar	10.4 l/min	10.2 l/min
at 1 bar	14.5 l/min	14.5 l/min
at 3 bar	25.4 l/min	25 l/min
at 5 bar	32.8 l/min	32.2 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# BASIC CARTRIDGES

## DESCRIPTION

---

40mm basic cartridge with ACS certification and available with and without distributor. This Sedal valve is specially designed for washbasins, bath-showers and kitchen faucets.

## ADVANTAGES

---

Entry-level product with Sedal high-reliability.

## DN-40 C/D

BG BASIC

REF. 08DN40LBG01



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## DN-40 S/D

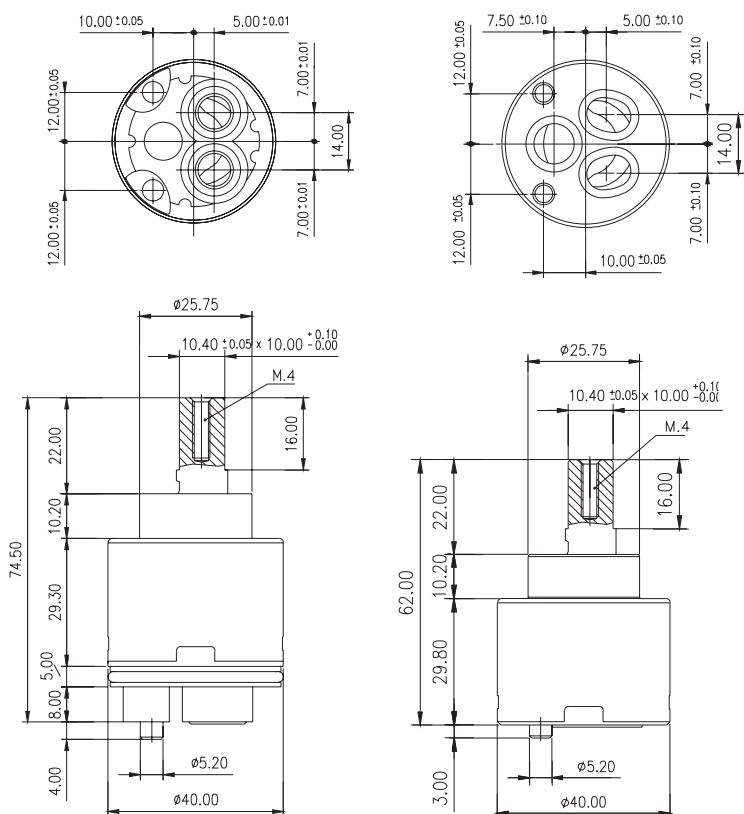
BG BASIC

REF. 08DN40FBG01



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### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS

ACS

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	35 bar	35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 118.12.1 M	500,000 cycles	500,000 cycles
Sensitivity	15°-17° angle	16°-17° angle
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<0.5°C - <1.7°C	<0.8°C - <1.7°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.35-0.40 Nm	0.35-0.40 Nm
Turn left-right	0.35-0.40 Nm	0.35-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.6 l/min	10.4 l/min
at 1 bar	15 l/min	14.7 l/min
at 3 bar	26 l/min	25.5 l/min
at 5 bar	33.4 l/min	32.7 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# SN-40 CARTRIDGES

## DESCRIPTION

Ecoflow cartridges have been designed for applications where a low flow is required to fulfill the latest standards and market trends. The low flow that a manufacturer would normally reach with the use of restrictors, can be reached by using the Ecoflow cartridge with an aireator, suppressing the negative effects of the current solutions. The Ecoflow 40 is specifically designed to deliver 7.7 liters @3 bar without using restrictors. It also includes a clutch for a perfect operational feel and a high maximum torque resistance to withstand harsh environments.

## ADVANTAGES

- **SN TECHNOLOGY**  
Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life)
- **IMPROVED FLOW-RATE VS HANDLE STROKE**  
Existing solutions offer a very limited opening stroke to regulate the flow. With ECOFLOW, the entire stroke is available.



## FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.

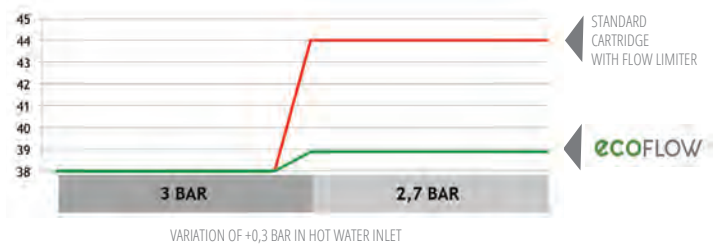


**REGULATIONS**  
This cartridge is optimized according to WaterSense and Water Label requirements.



**RESTRICTOR**  
The cartridge includes itself a restrictor that reduces the flow rate to save water.

- **REDUCES TEMPERATURE FLUCTUATION**  
When using a flow limiter in the spout combined with standard cartridges, the user can experience strong changes in water temperature. The new ECOFLOW Tech valves provide an excellent temperature stability in front of pressure variations in cold and hot water supply lines at low flow rates.



- **THE USAGE OF A RESTRICTOR IS OPTIONAL**  
The flow rate reduction is carried out at the right place. With ECOFLOW the usage of a limiter or restrictor is optional.



## SN-40 C/D

ECOFLOW

REF.08SN40L0003



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## SN-40 S/D

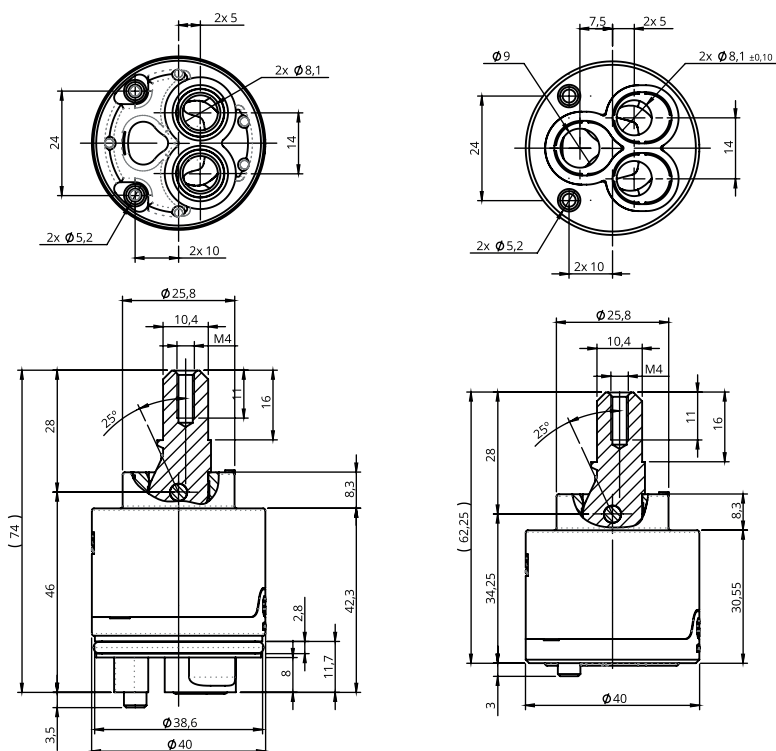
ECOFLOW

REF.08SN40S0004



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### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



\* Optimised for WaterSense and WaterLabel

### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>70-80 bar	>60-70 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity	>11-13 mm	>11-13 mm
Fidelity	<3°	<3°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.1 bar	1.5 l/min	1.5 l/min
at 1 bar	4.5 l/min	4.5 l/min
at 3 bar	7.7 l/min	7.7 l/min
at 5 bar	9.6 l/min	9.6 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# HIGH FLOW

## GC-40 THEDRA

### DESCRIPTION

40mm high flow cartridge with a unique clean and smart design that confers an undeniable ability to withstand the most extreme working conditions and requests: compression, torque, handle load, burst and x2 life cycles, granting smooth but firm user operation thanks to Glide Feel Technology.

### ADVANTAGES

- **SN TECHNOLOGY**  
Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).
- **CHALLENGE, TECHNOLOGY**  
Careful design, ceramic expertise, several smart technologies, high performance materials and extraordinarily precise components are used to build the new THEDRA cartridges.
- **GREAT RANGE. GRATER POSSIBILITIES**  
THEDRA valve range provides more than 20 different combinations for the manufacturers to develop their products.
- **OUT OF SOLID ROCK**  
THEDRA is designed according to the roughest manufacturer's technical requests.
- **ENJOY THE SILENCE**  
THEDRA is NF Class I compliant, featuring Sedal's Noise Cancelling Technology.
- **DOUBLE LIFE-CYCLE**  
The new THEDRA cartridge has 2 times ASME life cycles thanks to SedalOX™ 96.
- **UNEQUAL DESIGN, UNEQUAL RESULTS**  
THEDRA was granted with reddot award in 2016.

### FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**TEMPERATURE LIMITER**  
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



**SOFT**  
Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.



**FLOW LIMITER**  
Limit maximum water flow for water saving.

#### ● VERSIONS WITH LIMITERS

##### TEMPERATURE LIMITER FUNCTION (TR)

GC-40 Thedra cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

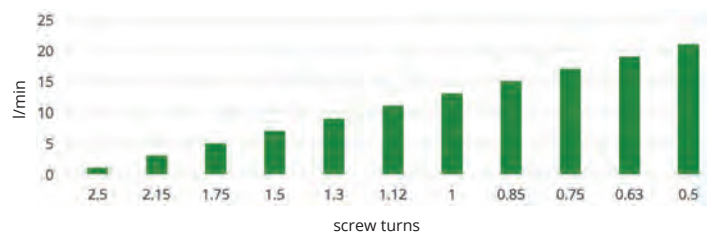
position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

##### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## GC-40 C/D

THEDRA

REF. 08GC40L4501



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## GC-40 S/D

THEDRA

REF. 08GC40S4501



DOWNLOAD DATA SHEET

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### OTHER VERSIONS

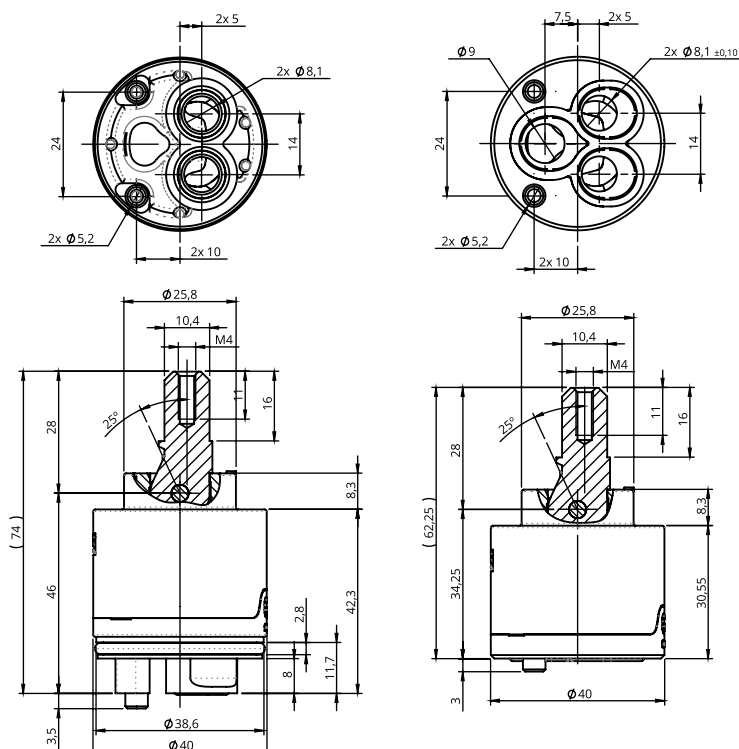
Temperature limiter (TR)  
Temperature & flow limiter (TRN)

	CD	SD
Temperature limiter (TR)	REF.08GC40L0501	REF.08GC40S0501
Temperature & flow limiter (TRN)	REF.08GC40L4501	REF.08GC40S4501

### CERTIFICATIONS



### DIMENSIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	10-13° angle	10-13° angle
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	8.9 l/min	8.1 l/min
at 1 bar	20 l/min	17.4 l/min
at 3 bar	34.4 l/min	30.4 l/min
at 5 bar	42.8 l/min	39.2 l/min

\* Find machining requirements on pages 154-157.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# HIGH FLOW

## GC-40 THEDRA DUE

### DESCRIPTION

40mm cartridge with a unique clean and smart design that confers an undeniable ability to withstand the most extreme working conditions and requests: compression, torque, handle load, burst and x2 life cycles, granting smooth but firm user operation thanks to Glide Feel Technology. It includes DUE technology for water saving and TR version.

### ADVANTAGES

● **ADDITIONAL FEATURES**

GC-40 Thedra Due has the same advantages than GC-40 Thedra, but with due technology as an additional feature.

### FEATURES



**ECO**

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**DUE**

Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

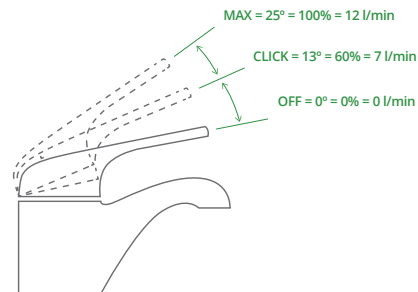


**SOFT**

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.

● **DUE TECHNOLOGY**

Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows **saving up to 54% of daily water consumption.**



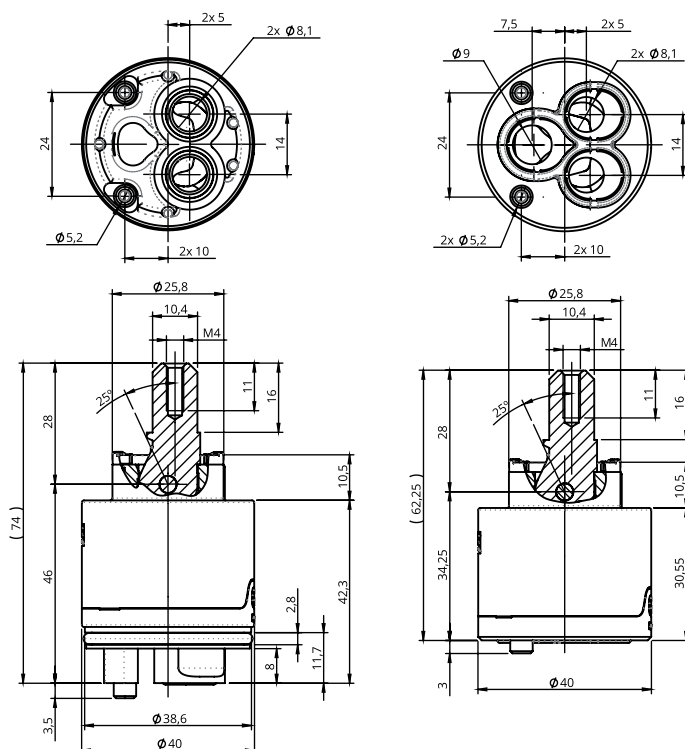
**GC-40 C/D**  
*THEDRA DUE*  
 REF. 08GC40L0001



**GC-40 S/D**  
*THEDRA DUE*  
 REF. 08GC40S0001



**DIMENSIONS**



\* Find machining requirements on pages 154-157.

**RECOMMENDED APPLICATIONS**



**WASHBASINS**  
 Specially designed for washbasins.



**BATH-SHOWERS**  
 Specially designed for bath showers.



**KITCHENS**  
 Suitable for use in kitchens.

**CERTIFICATIONS**



**TECHNICAL SPECIFICATIONS**

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	60-70 bar	60-70 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	10-13° angle	10-13° angle
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	8.9 l/min	8.1 l/min
at 1 bar	20 l/min	17.4 l/min
at 3 bar	34.4 l/min	30.4 l/min
at 5 bar	42.8 l/min	39.2 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# HIGH FLOW

## GC-45

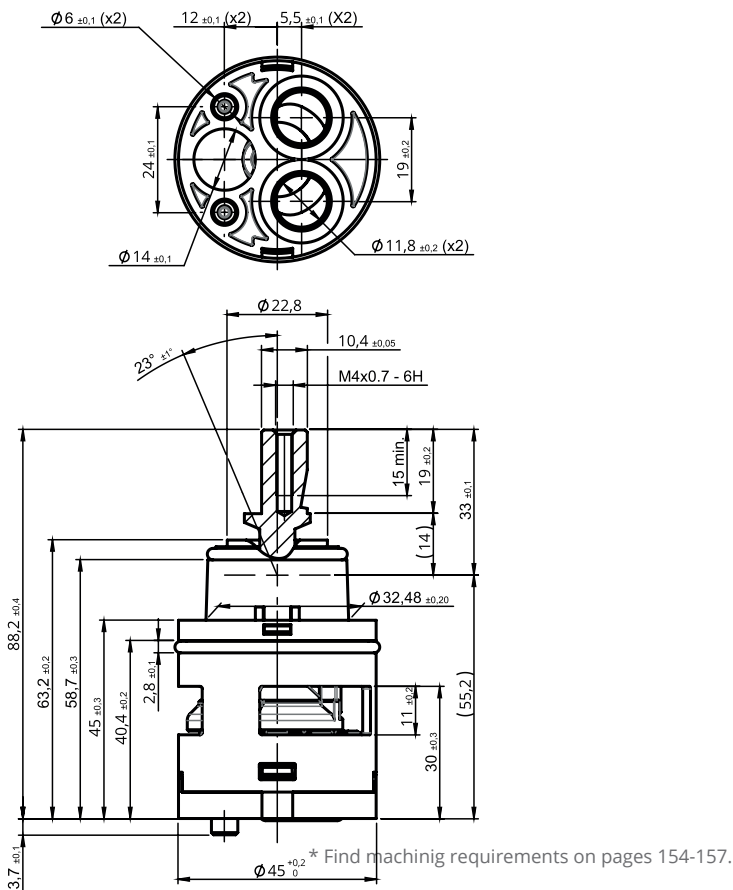
### GC-45 S/D

REF. 08GC45FBE00



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DATA SHEET

### DIMENSIONS



### DESCRIPTION

45mm high flow cartridge.

### FEATURES



#### SOFT

Up to 40% softer lever operation than standard cartridges thanks to a clutched ceramic operation design.

### ADVANTAGES

#### MAXIMUM FLOW RATE

This cartridges ensure maximum flow rate even at low pressure applications.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12Nm
Opening angle	23°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	30 ± 5 bar
Life cycle - EN 817	70,000 cycles
x2 ASME 112.18.1 M	500,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Open-close	0.25-0.35 Nm
Turn left-right	0.40-0.50 Nm

Flow rate (free flow)	S/D
at 0.5 bar	18 l/min
at 1 bar	24.8 l/min
at 3 bar	43.2 l/min
at 5 bar	55.3 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.





# REVOLVING GI-40

## DESCRIPTION

Revolving cartridges include a turning lever in order to mix water and provide better control of the flow rate.

## FEATURES



### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



### TEMPERATURE LIMITER

Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.



### REVOLVING

This cartridge has a turning lever from 0° to 180°.



### COLD

Energy saving feature thanks to the internal design of the cartridge, flowing cold water when the lever is centered.



### METALLIC LEVER

This revolving cartridge has metallic lever

## ADVANTAGES

### 180° ROTATION ANGLE

40mm revolving cartridge has a rotation angle of 180° from cold to hot.

### EASY REVOLVING MOVEMENT

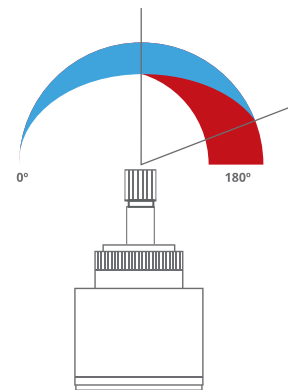
Smooth revolving movement for a comfort operation to the user.

### TR TECHNOLOGY

The TR technology allows energy saving thanks to temperature limiters. It also enables an anti-scalding safety feature. This function allows limiting maximum temperature in 7 selectable stops.

### COLD TECHNOLOGY

The cartridge starts in cold position by default, saving energy consumption related to plumbing products in the household.



### TEMPERATURE LIMITER FUNCTION



Open at 45°



Open at 21°

### HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°



# REVOLVING

## GI-40

### GI-40 C/D

Z20

REF.08GI40LBE00



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### GI-40 S/D

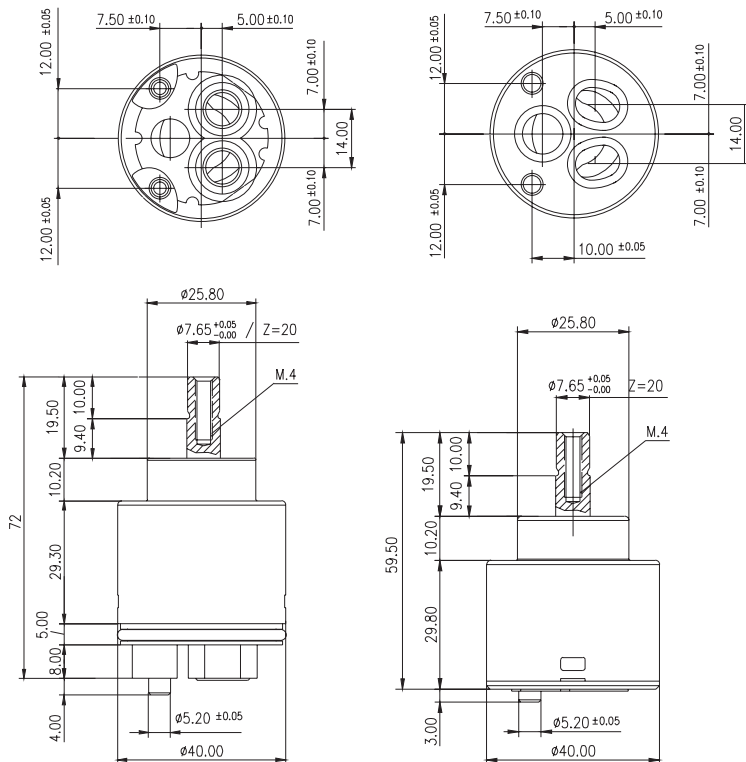
Z20

REF.08GI40FBE00



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### DIMENSIONS



\* Find machining requirements on pages 154-157.

### DESCRIPTION

40 mm revolving cartridges with a turning lever in order to mix water and provide better control of the flow rate.

### ADVANTAGES

*BRASS OR PLASTIC SHAFT*

Cartridge available with plastic or metal shaft, depending on the application.

### RECOMMENDED APPLICATIONS



**DECORATIVE WASHBASINS**  
Specially designed for decorative faucets.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Rotation angle	180°	180°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	45-50 bar	45-50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.20-0.22 Nm	0.20-0.22 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.4 l/min	9.5 l/min
at 1 bar	13.2 l/min	13.2 l/min
at 3 bar	23 l/min	22.8 l/min
at 5 bar	29.4 l/min	29.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# GI-40 C/D

L10

REF. 08GI40LBE10



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# GI-40 S/D

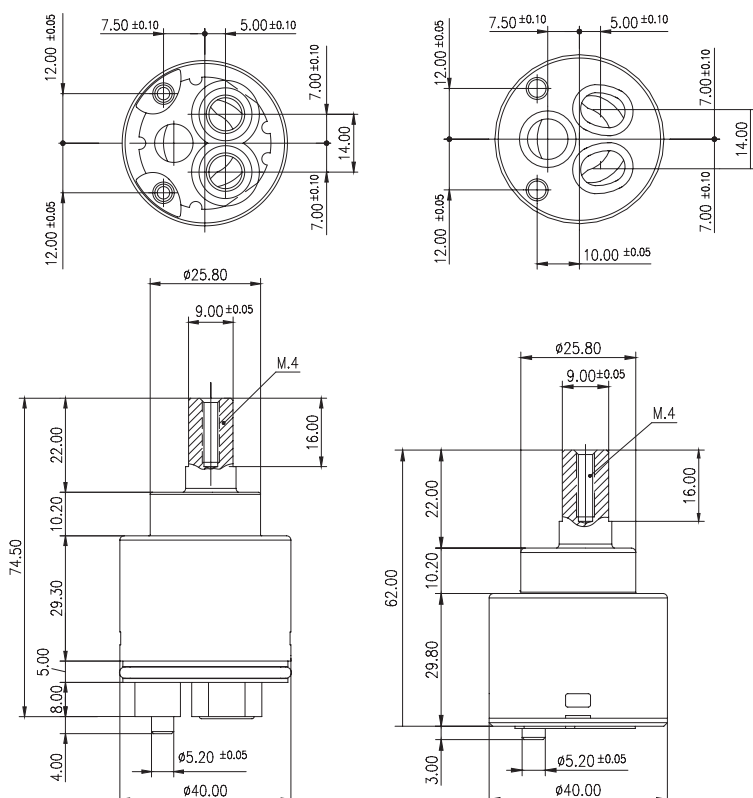
L10

REF. 08GI40FBE10



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## DIMENSIONS



\* Find machining requirements on pages 154-157.

## DESCRIPTION

40 mm revolving cartridges with a turning lever in order to mix water and provide better control of the flow rate.

## ADVANTAGES

*BRASS OR PLASTIC SHAFT*

Cartridge available with plastic or metal shaft, depending on the application.

## RECOMMENDED APPLICATIONS



**DECORATIVE WASHBASINS**  
Specially designed for decorative faucets.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Rotation angle	180°	180°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	45-50 bar	45-50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
x2 ASME 112.18.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.20-0.22 Nm	0.20-0.22 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.4 l/min	9.5 l/min
at 1 bar	13.2 l/min	13.2 l/min
at 3 bar	23 l/min	22.8 l/min
at 5 bar	29.4 l/min	29.4 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# DIVERTER

## GD-40 4

### DESCRIPTION

The GD40 S/D 4 diverter from Sedal is a high end 35mm valvewith four outlets that provides smooth operation along with a defined feeling of safety and precision thanks to the metallic lever and a high precision ceramic set.

The operation torque has been improved while keeping a small footprint. Works perfectly paired with our TM001 Thermostatic cartridge for showers.

### FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**CLICK**  
GD-35 includes a click in the middle to notice the change of outlet.



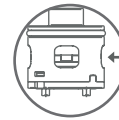
**OUTLETS**  
Diverter cartridge with two outlets.



**METALLIC LEVER**  
This diverter cartridge has metallic lever.



**ROTATION ANGLE**  
Diverter cartridge with 360° rotation angle.

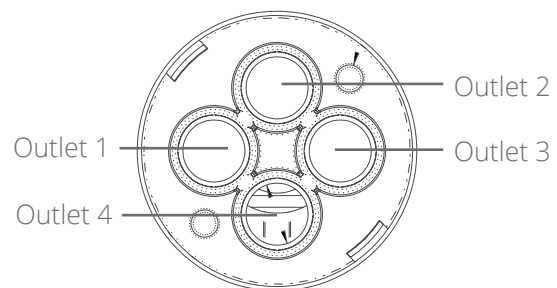


**SIDE INLET**  
The inlet of the diverter is located on the sides.

### ADVANTAGES

- **SURPASSES CONVENTIONAL DURABILITY STANDARDS**  
Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal lever improves the user perception of quality and precision in a small cartridge.
- **ROBUST DESIGN**  
GD-40 has a robust design, withstanding higher levels of burst pressure.
- **HIGHER FLOW RATE**  
The GD40 has a high flow rate @3 bar, allowing to build body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.
- **3 DIFFERENT SHAFTS LENGHT AVAILABLE**  
The GD40 is available with three different shaft lengths to fullfill any manufacturer requirements.

- **DIVERTER FUNCTIONALITY**  
This cartridge fits specially good in bath showers because allows to have four different outlets. Mixed water enters inlet on the side and exits either outlet 1, 2, 3 or 4.



Total Height (mm)
53.8 mm
66.3 mm
82 mm



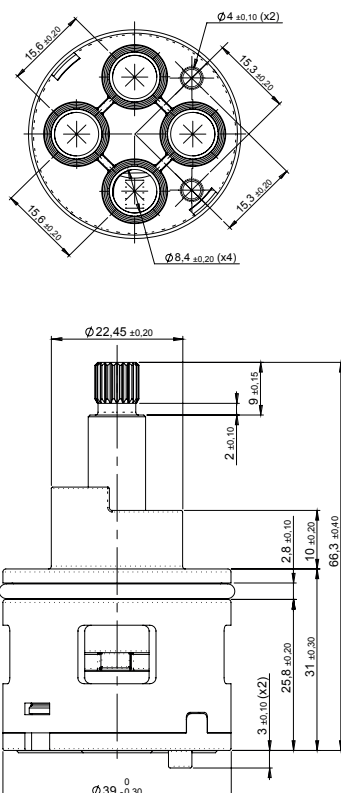
# GD-40 S/D 4

REF. 08GD40S0001



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DATA SHEET

## DIMENSIONS



\* Find machining requirements on pages 154-157.

## RECOMMENDED APPLICATIONS



**SHOWERS DIVERTERS**  
Specially designed for  
showers with diverters.

## TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12 Nm
Rotation angle	>360°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817 NF077	30,000 cycles
Max. hot water*	90 °C

Operation Torque	S/D
Turn left-right	0.15-0.45 Nm
OUTLET SELECTOR (Torque increment)	0.10-0.20 Nm

Flow rate (free flow)	S/D
at 0.5 bar	12.2 l/min
at 1 bar	17 l/min
at 3 bar	28.9 l/min
at 5 bar	37 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# JOYSTICK

## JY-40

### DESCRIPTION

Joystick cartridges have a similar functionality as standard cartridges, although the special design of their levers allows smooth 360° movements.

Very popular in some countries, Joystick cartridges provide a natural movement especially with vertical levers.

The JY40 from Sedal is a very robust Joystick cartridge specially developed for faucets or cascade tap designs.

### FEATURES



#### JOYSTICK

Joystick cartridge with smooth 360° movement.

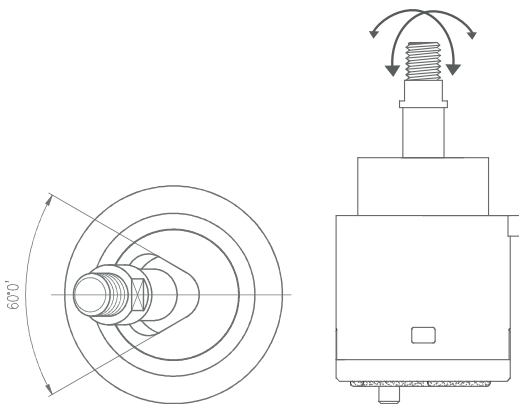


#### METALLIC LEVER

This joystick cartridge has metallic lever

### ADVANTAGES

- **SMOOTH FEELING**  
40mm joystick has a very smooth operational feeling that gives comfort to the user.
- **NEW CERAMICS DISC GEOMETRY**  
JY-40 has a new ceramics disc geometry that allows its smooth 360° movement.
- **ROBUST DESIGN**  
40mm joystick has a robust design, withstanding higher levels of burst pressure.
- **HIGHER FLOW RATE**  
JY-40 has higher flow rates than previous versions.



## JY-40 C/D

REF.08JY40LBE00



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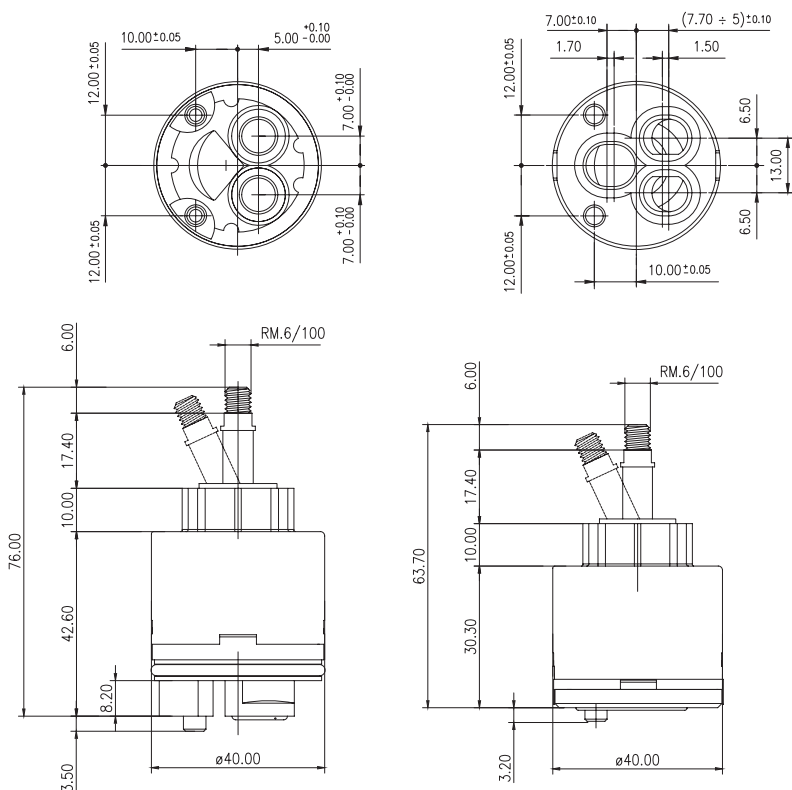
## JY-40 S/D

REF. 08JY40FBE00



DOWNLOAD  
DATA SHEET

### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12 Nm	10-12 Nm
Opening angle	25°C	25°C
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	30-35 bar	30-35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	70,000 cycles	70,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.32-0.38 Nm	0.32-0.38 Nm
Turn left-right	0.35-0.42 Nm	0.35-0.42 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.3 l/min	10 l/min
at 1 bar	14.5 l/min	13.7 l/min
at 3 bar	24.9 l/min	23.6 l/min
at 5 bar	31.8 l/min	30.5 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# PRESSURE BALANCE

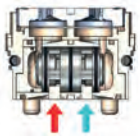
## PB-40

### DESCRIPTION

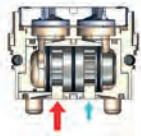
Pressure balance cartridges include a special mechanical device that detects pressure variations in water inlets, ensuring temperature stability. Particularly suited for applications in which water pressure is unstable.

### ADVANTAGES

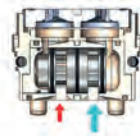
- AVOIDS PRESSURE VARIATIONS**  
 Pressure balance cartridges have a special base with a cylinder and a piston that moves according to pressure variations to keep the water temperature stable and avoid the annoying changes of temperature when showering.



**Balanced pressure**  
When the water pressure is stable, the piston inside the cylinder is located in the middle of the cartridge



**Hot water pressure**  
When the hot water enters the cartridge with more pressure than the cold, the piston moves to the right to close the inlet of hot water until it equals to the pressure of cold water.



**Cold water pressure**  
When the cold water enters the cartridge with more pressure than the hot, the piston moves to the left to close the inlet of cold water until it equals to the pressure of hot water.

- SECURITY**  
 TRN version has a safety anti-scalding feature.
- COMPATIBILITY**  
 PBs are compatible with standard and upper sealing versions.

### FEATURES



**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



**FLOW LIMITER**  
Limit maximum water flow for water saving.



**TEMPERATURE LIMITER**  
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

- VERSIONS WITH LIMITERS**

#### TEMPERATURE LIMITER FUNCTION (TR)

PB-40 cartridge has an optional ring called TR that allows limiting maximum temperature in 7 selectable stops, enabling an anti-scalding safety feature.



Open at 45°



Open at 21°

position	15° l/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

#### TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.



The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, **saving up to 22% of daily water consumption.**



## PB-40 C/D

REF. 08PB40L001


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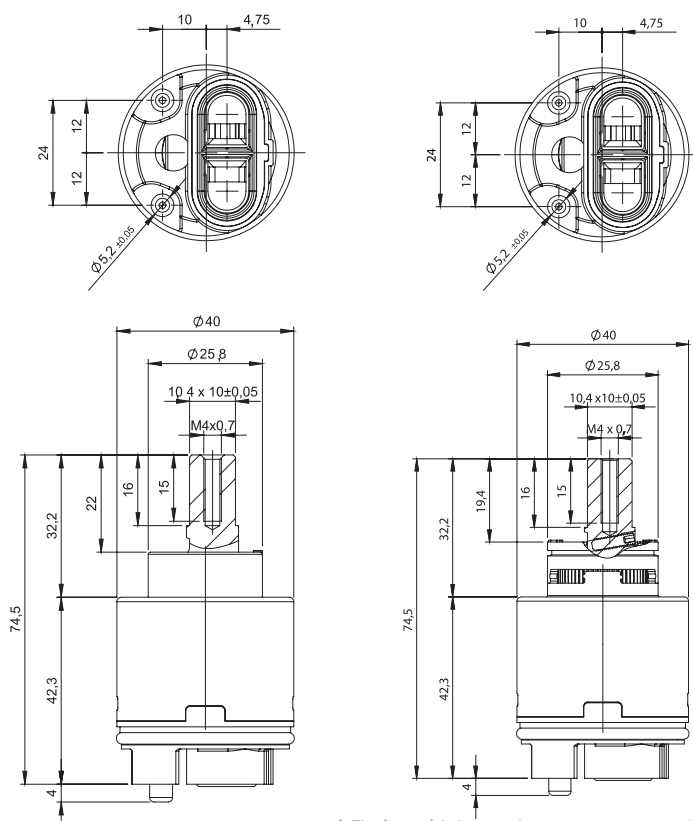
### OTHER VERSIONS

Temperature &amp; flow limiter (TRN)

### CD

REF.08PB40L4602

### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



\* Except PB-40 C/D (without TRN)

### TECHNICAL SPECIFICATIONS

General	C/D	C/D TRN
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	23.5°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817 NF U3	70,000 cycles	70,000 cycles
Sensitivity (r=45mm)	>12° angle	>12° angle
Fidelity	<5°C	<5°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	C/D TRN
Open-close	0.35-0.45 Nm	0.35-0.45 Nm

Flow rate (free flow)	C/D	C/D TRN
at 0.5 bar	6.5 l/min	6.5 l/min
at 1 bar	9.1 l/min	9.1 l/min
at 3 bar	15.8 l/min	15.8 l/min
at 5 bar	20.3 l/min	20.3 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# UPPER SEALING

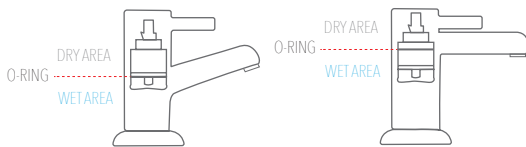
## G-40

### DESCRIPTION

Upper sealed cartridges allow the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side. Some of these cartridges also provide extra productivity thanks to their design.

### ADVANTAGES

- ALLOWS DIFFERENT FAUCET CONFIGURATIONS**  
 Allows the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side.
- COMPATIBILITY**  
 Lower sealing compatible with standard 40mm available.



### FEATURES

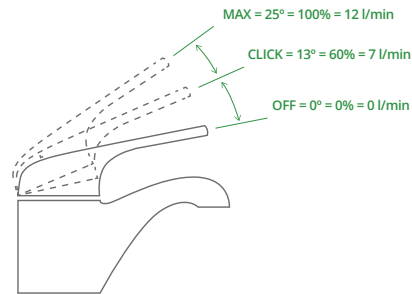


**ECO**  
 Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

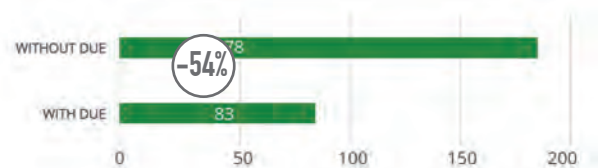


**DUE**  
 Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

- DUE TECHNOLOGY**  
 Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows saving water.



DAILY AVERAGE WATER CONSUMPTION PER PERSON - FAUCETS & SHOWERS - IN LITERS





## G-40 C/D

REF. 08G40LBE00



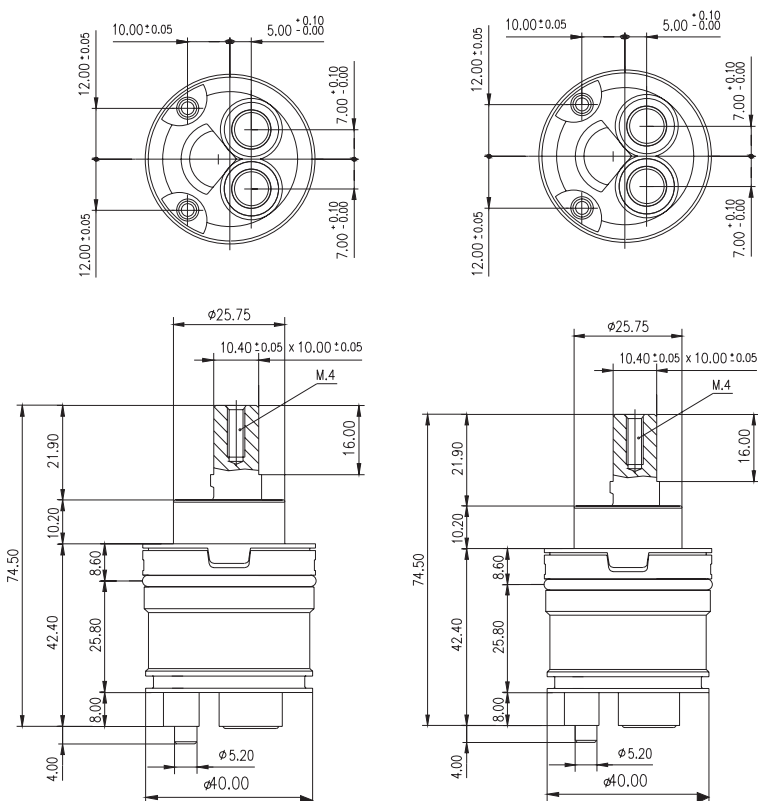
## G-40 C/D

*DUE*

REF. 08G40LBE30



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	C/D	C/D DUE
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	30-35 bar	32 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Sensitivity (r=45mm)	9° angle	9° angle
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	C/D DUE
Open-close	0.30-0.40 Nm	0.30-0.40 Nm
Turn left-right	0.35-0.45 Nm	0.35-0.45 Nm

Flow rate (free flow)	C/D	C/D DUE
at 0.5 bar	10.8 l/min	10.8 l/min
at 1 bar	15.1 l/min	15.1 l/min
at 3 bar	25.9 l/min	25.9 l/min
at 5 bar	33.5 l/min	33.5 l/min

Only applies to officially listed products.  
 Tested at Sedal's lab with Sedal's standard faucet  
 \*Peak or limited time condition.

# COMPACT EX-40

## DESCRIPTION

Compact 40 mm cartridge allows the manufacturer for short faucets.

## ADVANTAGES

- *MINIMALISM WITH HIGH PERFORMANCE*  
Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges

## FEATURES

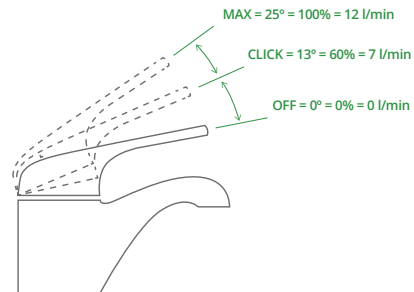


**ECO**  
Cartridges identified with an ECO icon offer at least one environmental sustainability feature.

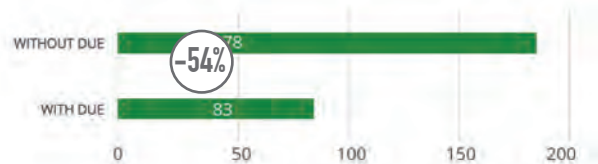


**DUE**  
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

- *DUE TECHNOLOGY*  
Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows saving water.



DAILY AVERAGE WATER CONSUMPTION PER PERSON - FAUCETS & SHOWERS - IN LITERS



## EX-40

REF. 08EX40S0001



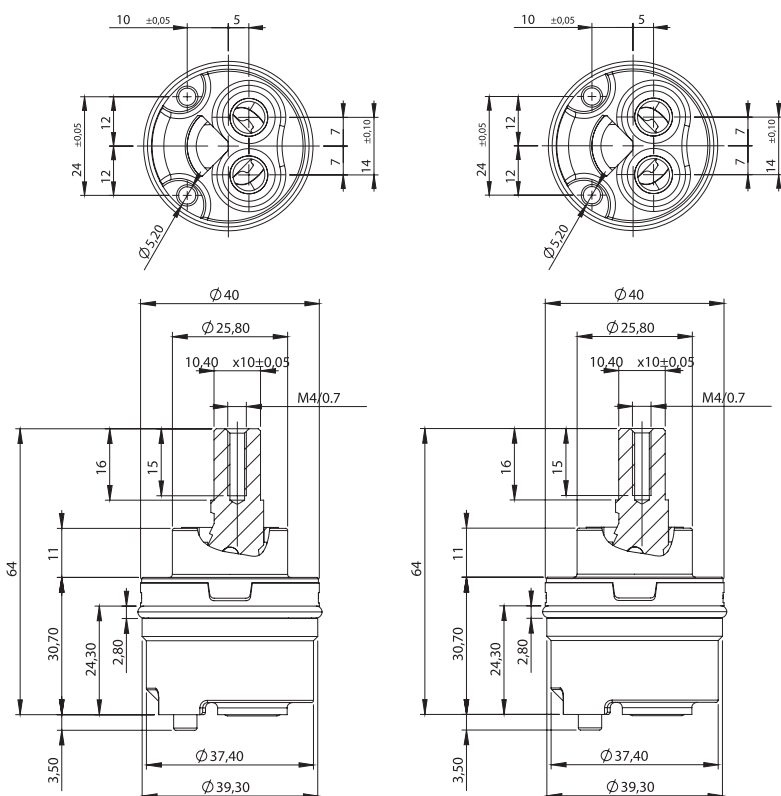
## EX-40

*DUE*

REF. 08EX40S3001



### DIMENSIONS



\* Find machining requirements on pages 154-157.

### RECOMMENDED APPLICATIONS



**CONCEALED WASHBASINS**  
Specially designed for washbasins.



**CONCEALED BATH-SHOWERS**  
Specially designed for bath showers.



**CONCEALED KITCHENS**  
Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	EX-40	EX-40 DUE
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	24°	24°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	50-55 bar	50-55 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity (r=45mm)	14-16° angle	14-16° angle
Max. hot water*	90 °C	90 °C

Operation Torque	EX-40	EX-40 DUE
Open-close	0.28-0.32 Nm	0.28-0.32 Nm
Turn left-right	0.13-0.25 Nm	0.13-0.25 Nm
Saving device (DUE)	-	0.60-0.90 Nm

Flow rate (free flow)	EX-40	EX-40 DUE
at 0.5 bar	10.7 l/min	10.7 l/min
at 1 bar	15.1 l/min	15.1 l/min
at 3 bar	26 l/min	26 l/min
at 5 bar	33.6 l/min	33.6 l/min

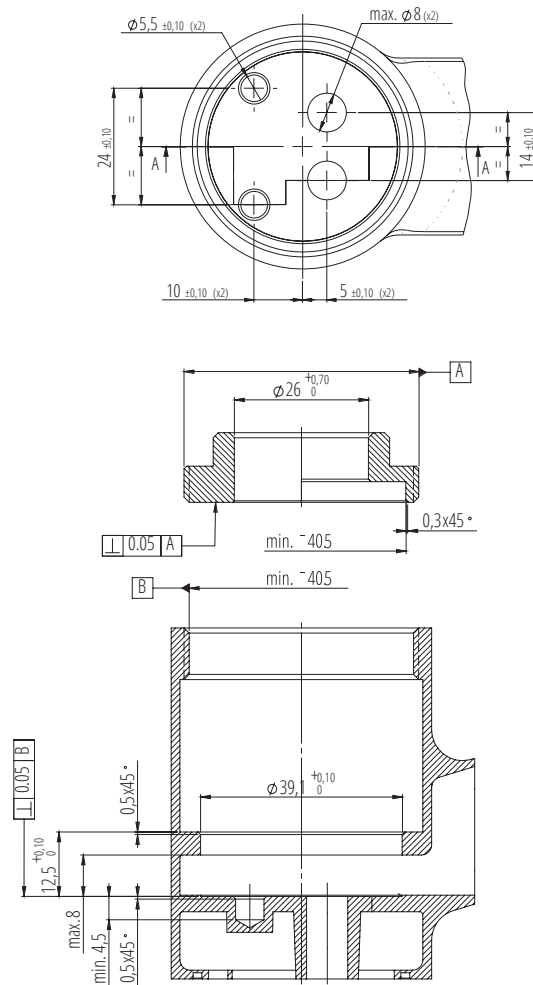
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet  
\*Peak or limited time condition.

# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
40 mm	SN-40 C/D THEDRA	08SN40L0001	112	
	SN-40 C/D THEDRA DUE	08SN40L3001	114	
	SN-40 C/D THEDRA COLD	08SN40L1501	116	
	SN-40 C/D THEDRA COLD DUE	08SN40L2002	118	
	EN-40 C/D	08EN40LAZ00	120	
	E-40 C/D DUE	08E40LAZ30	121	
	E-40 C/D COLD	08E40LAM10	122	
	E-40 C/D COLD DUE	08E40LAM20	123	
	EN-40 C/D COLD DUE	08EC40L3002	124	
	EN-40 C/D COLD MIRROR DUE	08EC40L2001	126	
	SN-40 C/D	08SN40LGO00	128	
	TRN-40 C/D	08RN40LVE00	129	
	DN-40 C/D BG BASIC	08DN40LBG01	130	
	SN-40 C/D ECOFLOW	08SN40L0003	132	
	GC-40 C/D THEDRA	08GC40L4501	134	
	GC-40 C/D THEDRA DUE	08GC40L0001	136	
	GI-40 C/D L10 TR	08GI40LBE64	140	
	GI-40 C/D Z20	08GI40LBE00	142	
	GI-40 C/D L10	08GI40LBE10	143	
	JY-40 C/D	08JY40LBE00	146	
PB-40 C/D	08PB40L0001	148		

### MACHINING TIP

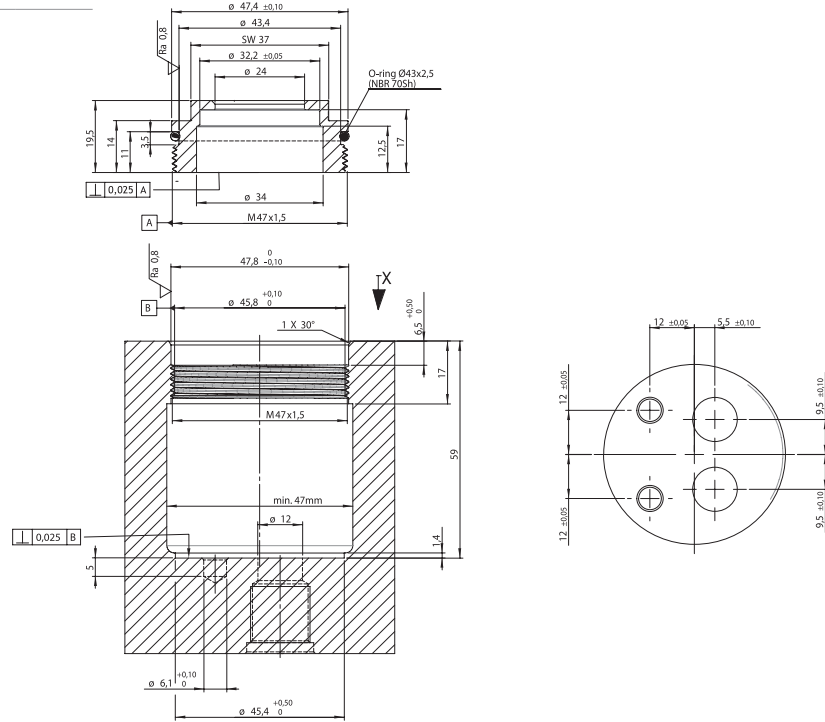


DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
40 mm	SN-40 S/D THEDRA	08SN40S0001	112	<p>The technical drawing consists of three parts: a front view, a top cross-section, and a side cross-section. The front view shows a circular cartridge with a diameter of 40 mm. It features two small holes with a diameter of <math>\phi 5,5 \pm 0,10</math> (x2) and a larger hole with a diameter of <math>\phi 7,5 \pm 0,10</math>. The distance between the two small holes is <math>10 \pm 0,10</math> (x2), and the distance from the center of the larger hole to the edge is <math>5 \pm 0,10</math> (x2). The maximum diameter of the cartridge is <math>\phi 8</math> (x2). The total height is <math>24 \pm 0,10</math>, and the distance from the top surface to the center of the larger hole is <math>14 \pm 0,10</math>. The side cross-section shows a maximum diameter of <math>\phi 9</math>. The top cross-section shows a diameter of <math>\phi 26</math> with a tolerance of <math>+0,70</math> and <math>0</math>. The distance from the top surface to the center of the larger hole is <math>0,3 \times 45^\circ</math>. The minimum distance from the top surface to the center of the larger hole is <math>\text{min. } \sim 405</math>. The distance from the top surface to the center of the larger hole is <math>\text{min. } \sim 405</math>. The distance from the top surface to the center of the larger hole is <math>\text{min. } 3,5</math> and <math>0,5 \times 45^\circ</math>. The distance from the top surface to the center of the larger hole is <math>0,05</math> A and <math>0,05</math> B.</p>
	SN-40 S/D THEDRA DUE	08SN40S3001	114	
	SN-40 S/D THEDRA COLD	08SN40S1501	116	
	SN-40 S/D THEDRA COLD DUE	08SN40S2002	118	
	EN-40 S/D	08EN40FAZ00	120	
	E-40 S/D DUE	08E40FAZ30	121	
	E-40 S/D COLD	08E40FAM10	122	
	E-40 S/D COLD DUE	08E40FAM20	123	
	EN-40 S/D COLD DUE	08EC40S3002	124	
	EN-40 S/D C3 MIRROR DUE	08EC40S2001	126	
	SN-40 S/D	08SN40FGO00	128	
	TRN-40 S/D	08RN40FVE00	129	
	DN-40 S/D BG BASIC	08DN40FBG01	130	
	SN-40 S/D ECOFLOW	08SN40S0004	132	
	GC-40 S/D THEDRA	08GC40S4501	134	
	GC-40 S/D THEDRA DUE	08GC40S0001	136	
	GI-40 S/D L10 TR	08GI40FBE64	140	
	GI-40 S/D Z20	08GI40FBE00	142	
	GI-40 S/D L10	08GI40FBE10	143	
	JY-40 S/D	08JY40FBE00	146	

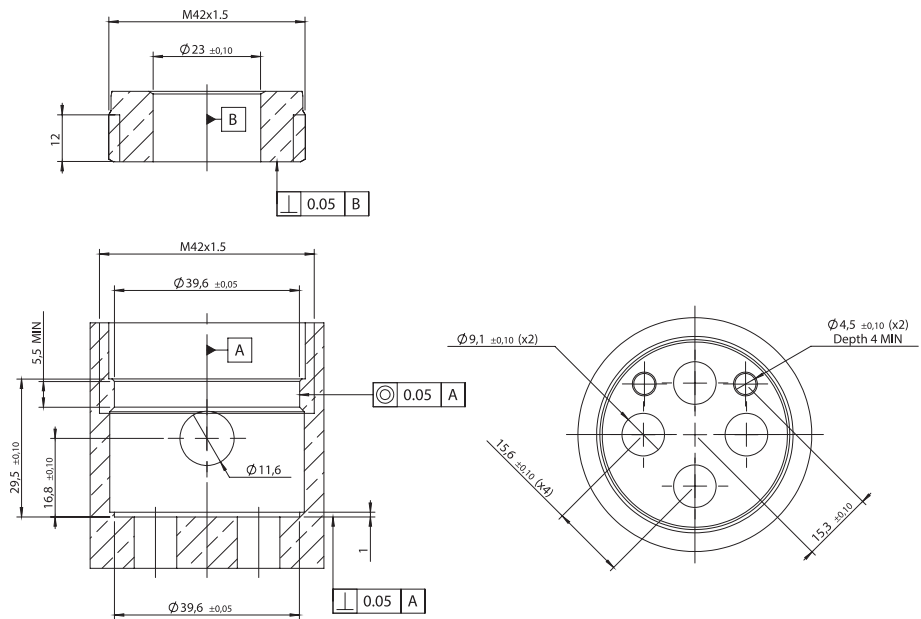
# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

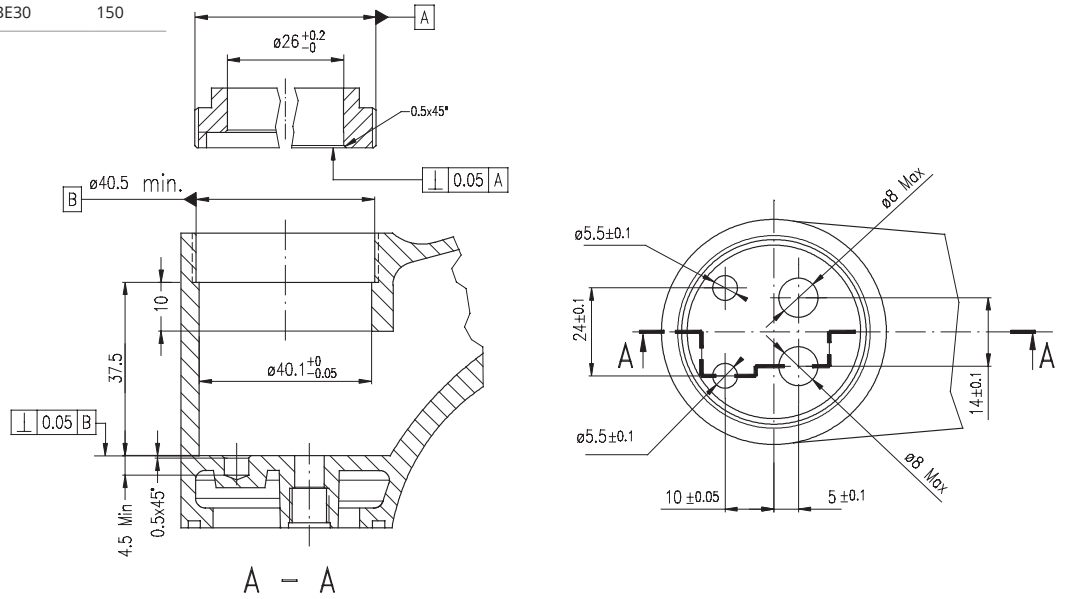
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
45 mm	GC-45 S/D	08GC45FBE00	138	



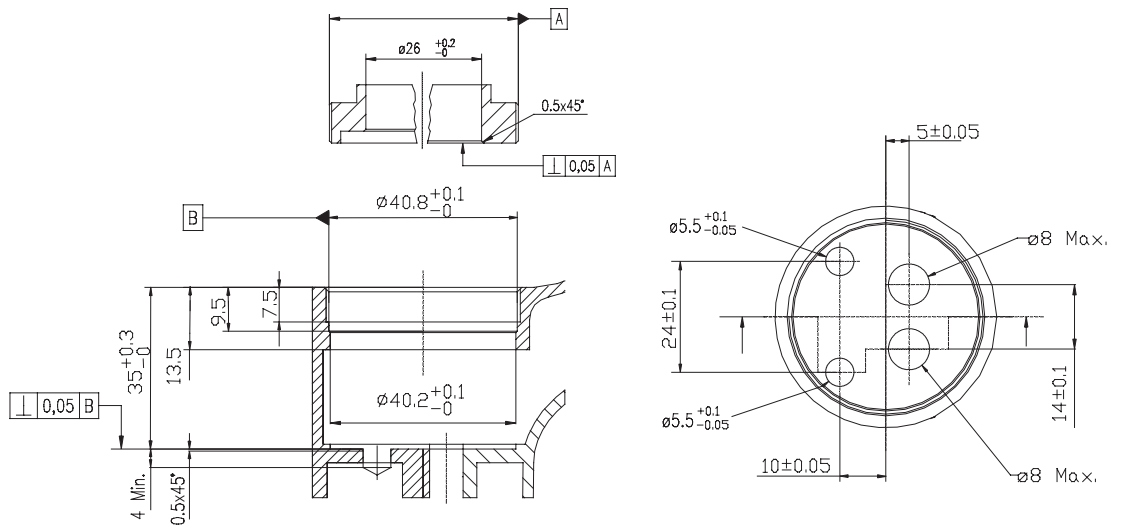
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
40 mm	GD-40 S/D 4	08GD40S0001	144	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
40 mm	G-40 C/D	08G40LBE00	150	
	G-40 C/D DUE	08G40LBE30	150	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
40 mm	EX-40	08EX40S0001	152	
	EX-40 DUE	08EX40S3001	152	





# THERMOSTATIC CARTRIDGES

SEDAL'S thermostatic cartridges provide fast response, high reliability and anti-scalding safety features thanks to the combination of materials, design and high quality sensors.



## COMPARISON TABLE

DETAILS*	TM001 STD	TM001 HP	TM001 C	TM001 BASIC	TM006	TM006 CLICK	TM006 BASIC
Flow rate * (Free flow) at 3 bar	23 l/min	23 l/min	26 l/min.	22 l/min	21 l/min	21 l/min	20 l/min
Flow rate * (RhC) at 3bar	20,5 l/min	20,5 l/min	21 l/min	20 l/min	-	-	-
Flow rate * (RhA) at 3bar	13,5 l/min	13,5 l/min	13,5 l/min	13,5 l/min	13 l/min	13 l/min	12,5 l/min
Burst pressure	25 bar.	35 bar.	35 bar.	25 bar.	35 bar.	35 bar.	25 bar.
Durability	100.000 cycles	100.000 cycles	100.000 cycles	50.000 cycles	100.000 cycles	100.000 cycles	50.000 cycles
STANDARD**	TM001 STD	TM001 HP	TM001 C	TM001 BASIC	TM006	TM006 CLICK	TM006 BASIC
EN-1111	●	●	●	●	●	●	●
ASSE 1016	-	●	●	-	●	●	-
GB QB/T2806	●	●	●	-	●	●	●
SANITARY CERTIFICATION**	TM001 STD	TM001 HP	TM001 C	TM001 BASIC	TM006	TM006 CLICK	TM006 BASIC
ACS	●	●	●	●	●	●	●
WRAS	●	●	●	-	●	●	-
KTW (4MS)	●	●	●	-	●	●	-
NSF	●	●	●	-	●	●	-

\* Tested at Sedal's lab with Sedal's standard faucet

\*\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

# THERMOSTATIC

## TM001

### DESCRIPTION

Standard thermostatic cartridges complying with EN-1111 specifications for shower and bath appliances.

With a life cycle of 50,000 cycles, it suits all the design and quality requirements of the market, providing high reliability and high response, with specific anti-scalding safety measures.

### ADVANTAGES

#### ● TEMPERATURE CONTROL

TM001 is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anti-scalding safety feature for the maximum comfort to the user.

#### ● ANTI-SCALDING FEATURE

This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shuts down the waterflow.

#### ● BURST PRESSURE

Withstands a burst pressure up to 25bar.

#### ● HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

#### ● LEAD FREE

Lead free and chloramine resistant options.

### FEATURES



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

#### ● DIFFERENT CERTIFIED VERSIONS

We have adapted our TM001 materials to create new versions according to 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

#### ● DOUBLE LIFE CYCLE

TM001 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

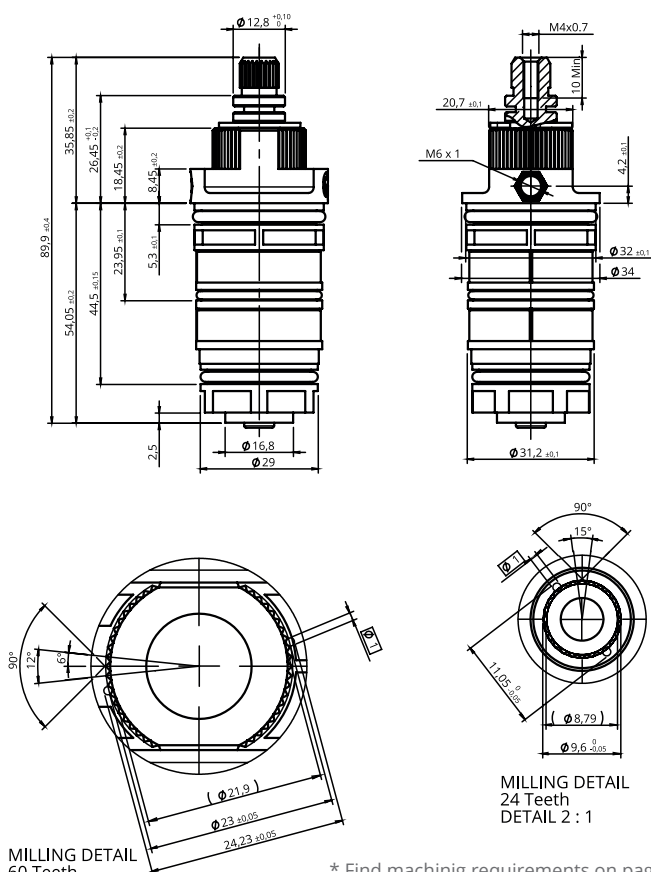
# TM001

REF.07TM00100 (STD)



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## DIMENSIONS



MILLING DETAIL  
60 Teeth  
DETAIL 2 : 1

MILLING DETAIL  
24 Teeth  
DETAIL 2 : 1

\* Find machining requirements on pages 174-175.

## RECOMMENDED APPLICATIONS



### BATH-SHOWERS

Specially designed for bath showers.

## CERTIFICATIONS\*



## TECHNICAL SPECIFICATIONS

General	TM001 / TM001 4MS
Standards *	EN-1111 GB QB/T2806
Burst pressure	>25 bar
2x Life cycle - EN-1111	100,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB
Operation torque	TM001 / TM001 4MS
Turn left-right	0.10 - 0.30 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting
Flow rate (free flow)	TM001 / TM001 4MS
at 0.1 bar	6 l/min
at 0.5 bar	10 l/min
at 3 bar	23 l/min
at 5 bar	29 l/min

\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# THERMOSTATIC

## TM001 HP

### DESCRIPTION

Thermostatic cartridge specially designed for burst pressure withstand minimum 35 bar. This cartridge is EN-1111 standard compliant.

### FEATURES



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

### ADVANTAGES

#### ● TEMPERATURE CONTROL

TM001 HP is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anti-scalding safety feature for the maximum comfort to the user.

#### ● ANTI-SCALDING FEATURE

This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

#### ● BURST PRESSURE

Withstands a burst pressure up to 35bar.

#### ● HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

#### ● LEAD FREE

Lead free and chloramine resistant options.

#### ● DIFFERENT CERTIFIED VERSIONS

We have adapted our TM001 materials to create new versions according to 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

#### ● HIGH PRESSURE VERSIONS

We have created a special TM001 cartridge for high-pressure applications.

#### ● DOUBLE LIFE CYCLE

TM001 HP has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.



# TM001 HP

REF.07TM0102 (STD)



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## RECOMMENDED APPLICATIONS

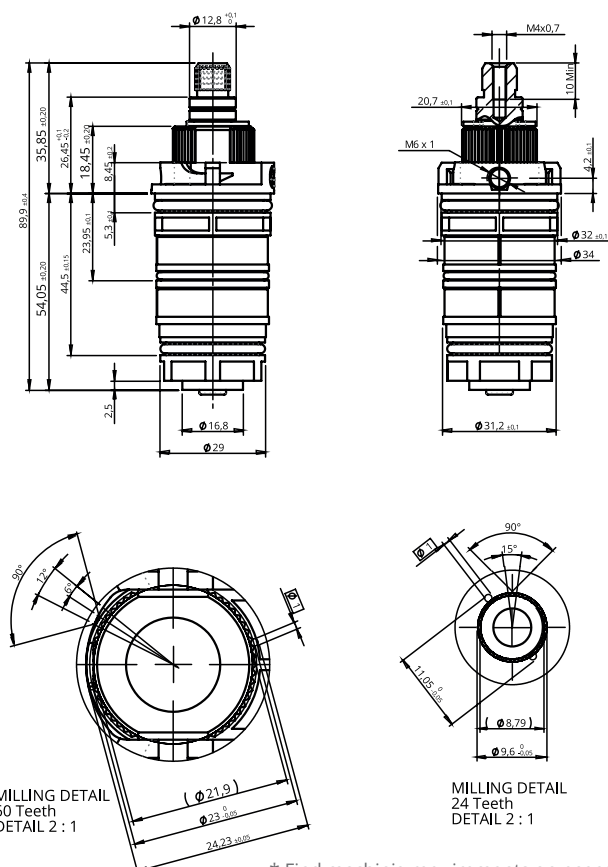


**BATH-SHOWERS**  
Specially designed for bath showers.

## CERTIFICATIONS\*



## DIMENSIONS



## TECHNICAL SPECIFICATIONS

General	TM001 HP/ NSF/ 4MS
Standards*	EN-1111 ASSE#1016 GB QB/T2806
Burst pressure	>35 bar
2x Life cycle - EN-1111	100,000 cycles
ASSE#1016	100,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB

Operation torque	TM001 HP/ NSF/ 4MS
Turn left-right	0.10 - 0.30 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 HP / NSF/ 4MS
at 0.1 bar	6 l/min
at 0.5 bar	10 l/min
at 3 bar	23 l/min
at 5 bar	29 l/min

\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

\* Find machining requirements on pages 174-175.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# THERMOSTATIC

## TM001 BASIC

### DESCRIPTION

---

Basic thermostatic cartridge, combining entry-level product with high-reliability.

### FEATURES

---



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

### ADVANTAGES

---

#### ● TEMPERATURE CONTROL

TM001 BASIC is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anti-scalding safety feature for the maximum comfort to the user.

#### ● ANTI-SCALDING FEATURE

This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

#### ● BURST PRESSURE

Withstands a burst pressure up to 25bar.

#### ● HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

#### ● LEAD FREE

Lead free and chloramine resistant options.

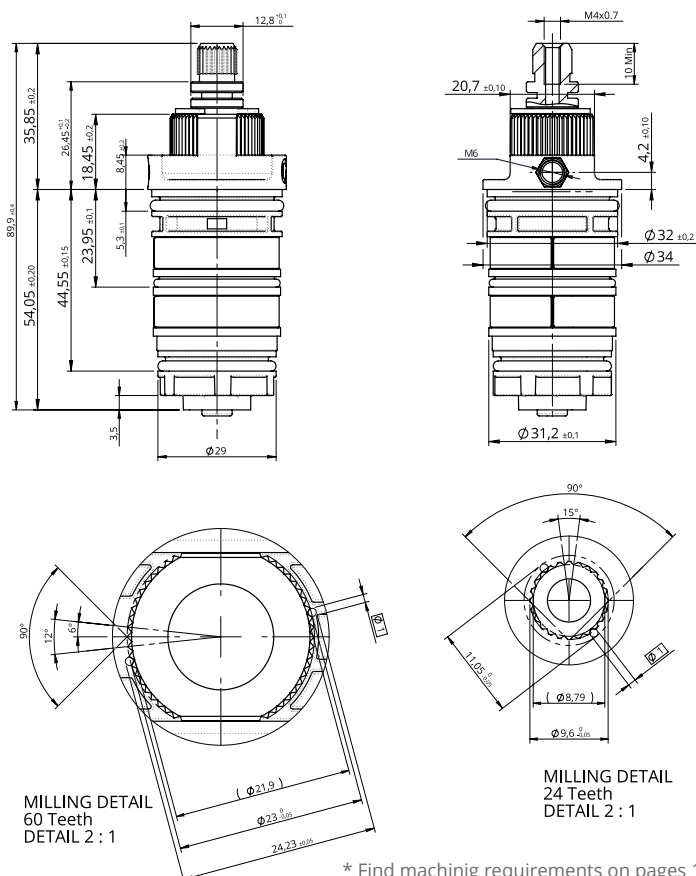


# TM001 BASIC

REF.07TM0119



## DIMENSIONS



\* Find machining requirements on pages 174-175.

## RECOMMENDED APPLICATIONS



### BATH-SHOWERS

Specially designed for bath showers.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	TM001 BASIC
Standards*	EN-1111 GB QB/T2806
Burst pressure	>25 bar
Life cycle - EN-1111	50,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB
Operation torque	TM001 BASIC
Turn left-right	0.10 - 0.30 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting
Flow rate (free flow)	TM001 BASIC
at 0.1 bar	6 l/min
at 0.5 bar	10 l/min
at 3 bar	22 l/min
at 5 bar	29 l/min

\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# THERMOSTATIC

## TM001 C

### DESCRIPTION

Its reduced length makes it perfect to fit wall-mounted installations, without giving up any of the standard high-performance features and certifications.

### FEATURES



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

### ADVANTAGES

#### ● TEMPERATURE CONTROL

TM001 C is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anti-scalding safety feature for the maximum comfort to the user.

#### ● ANTI-SCALDING FEATURE

This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shuts down the water flow.

#### ● BURST PRESSURE

Withstands a burst pressure up to 35bar.

#### ● HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

#### ● LEAD FREE

Lead free and chloramine resistant options.

#### ● DIFFERENT CERTIFIED VERSIONS

We have adapted our TM001 materials to create new versions according to 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

#### ● CONCEALED VERSION

TM001 C reduced length makes it easier to fit in concealed applications and the manufacturer has wider design options.

#### ● DOUBLE LIFE CYCLE

TM001 C has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

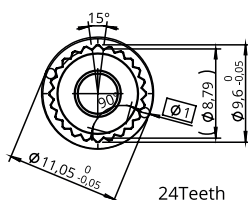
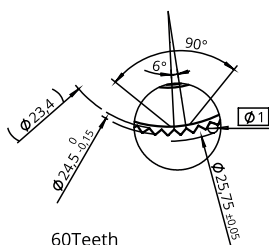
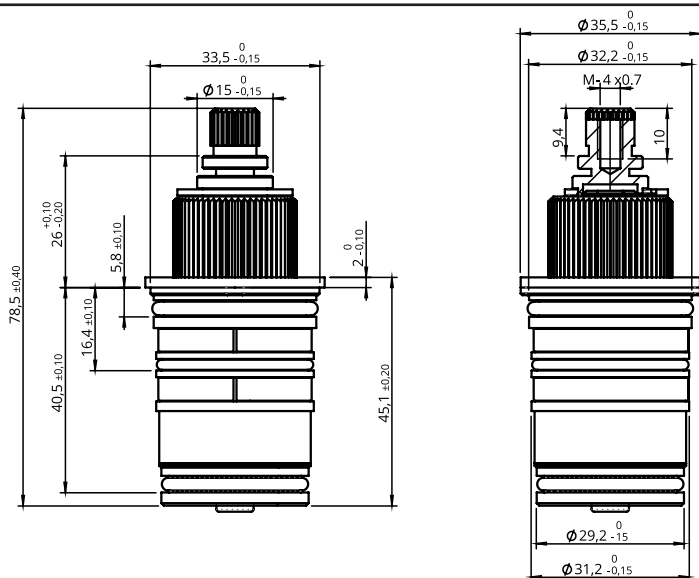
# TM001 C

REF.07TM0112 (STD)



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## DIMENSIONS



\* Find machining requirements on pages 174-175.

## RECOMMENDED APPLICATIONS



### BATH-SHOWERS

Specially designed for bath showers.

## CERTIFICATIONS\*



## TECHNICAL SPECIFICATIONS

General	TM001 C
Standards*	EN-1111 ASSE#1016 GB QB/T2806
Burst pressure	>35 bar
2x Life cycle - EN-1111 ASSE#1016	100,000 cycles 100,000 cycles
Max. hot water	90°C

Operation torque	TM001 C
Turn left-right	0.30 - 0.50 Nm
Sensitivity (36-40°C) (handle 20mm)	15 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 C
at 0.1 bar	4.5 l/min
at 0.5 bar	10 l/min
at 3 bar	26 l/min
at 5 bar	33 l/min

\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# THERMOSTATIC

## TM006

### DESCRIPTION

Standard thermostatic cartridges with smaller diameter for compact shower bodies, complying with EN-1111 specifications. With a life cycle of 50,000 cycles, it suits all the design and quality requirements of the market, providing high reliability and high response, with specific anti-scalding safety measures.

### ADVANTAGES

- *TEMPERATURE CONTROL*  
TM006 is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature.
- *ANTI-SCALDING FEATURE*  
This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.
- *BURST PRESSURE*  
Withstands a burst pressure up to 35bar.
- *HIGH STABILITY MATERIALS*  
High stability thermoplastic materials help reducing limescale.
- *LEAD FREE*  
Lead free and chloramine resistant options.
- *SLIM VERSION*  
TM006 reduced diameter makes it easier to fit in slim applications and the manufacturer has wider design options.

### FEATURES



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

- *DIFFERENT CERTIFIED VERSIONS*  
We have adapted our TM006 materials to create new versions according to 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.
- *DOUBLE LIFE CYCLE*  
TM006 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.



# THERMOSTATIC

## TM006 K

### DESCRIPTION

Thermostatic cartridge with an axial click system, which allows high precision movement of the handle.

This cartridge has been designed according to EN-1111 and NF-1111 standards.

### FEATURES



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

### ADVANTAGES

#### ● TEMPERATURE CONTROL

TM006 K is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anti-scalding safety feature for the maximum comfort to the user.

#### ● ANTI-SCALDING FEATURE

This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

#### ● BURST PRESSURE

Withstands a burst pressure up to 35bar.

#### ● HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

#### ● LEAD FREE

Lead free and chloramine resistant options.

#### ● DIFFERENT CERTIFIED VERSIONS

We have adapted our TM006 materials to create new versions according to 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

#### ● SLIM VERSION

TM006 K reduced diameter makes it easier to fit in slim applications and the manufacturer has wider design options.

#### ● CLICK VERSION

The TM006 K includes a click on the lever that indicates to the user the change of the set temperature.

#### ● DOUBLE LIFE CYCLE

TM006 K has 2x EN-111 cycles, allowing the cartridge and the system to have a longer life.

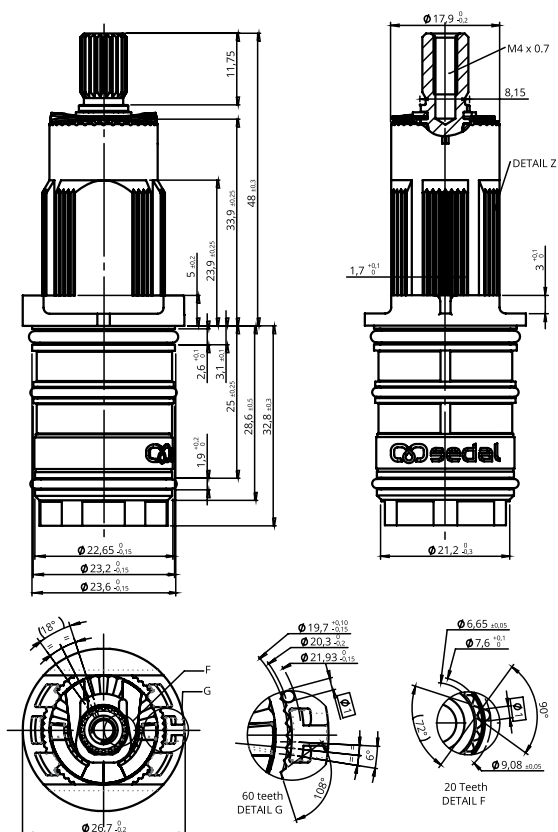
# TM006 K

REF.07TM0608 (STD)



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## DIMENSIONS



\* Find machining requirements on pages 174-175.

## RECOMMENDED APPLICATIONS



### BATH-SHOWERS

Specially designed for bath showers.

## CERTIFICATIONS\*



## TECHNICAL SPECIFICATIONS

General	TM006 K
Standards*	EN-1111 ASSE#1016 GB QB/T2806
Burst pressure	>35 bar
2x Life cycle - EN-1111	100,000 cycles
ASSE#1016	100,000 cycles
Max. hot water	90°C
Noise level	17,8 - 21,1 dB
Operation torque	TM006 K
Turn left-right	0.03 - 0.18 Nm
Sensitivity (36-40°C) (handle 20mm)	27-31 mm
Cold water supply failure test	Perfect cutting
Flow rate (free flow)	TM006 K
at 0.1 bar	3 l/min
at 0.5 bar	7.8 l/min
at 3 bar	21 l/min
at 5 bar	26.4 l/min

\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet



# THERMOSTATIC

## TM006 BASIC

### DESCRIPTION

---

Smaller basic thermostatic cartridge, combining entry-level product with high-reliability.

### FEATURES

---



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO

Cartridges identified with an ECO icon offer at least one environmental sustainability feature.



#### LEAD FREE

Suitable for low-lead applications.

### ADVANTAGES

---

#### ● TEMPERATURE CONTROL

TM006 BASIC is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anti-scalding safety feature for the maximum comfort to the user.

#### ● ANTI-SCALDING FEATURE

This thermostatic cartridge allows an anti-scalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

#### ● BURST PRESSURE

Withstands a burst pressure up to 25bar.

#### ● HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

#### ● LEAD FREE

Lead free and chloramine resistant options.

#### ● SLIM VERSION

TM006 BASIC reduced diameter makes it easier to fit in slim applications and the manufacturer has wider design options.

# TM006 BASIC

REF.07TM0607



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**RECOMMENDED APPLICATIONS**



**BATH-SHOWERS**  
Specially designed for bath showers.

**CERTIFICATIONS \***



**TECHNICAL SPECIFICATIONS**

General	TM006/ NSF/ 4MS
Standards*	EN-1111 GB QB/T2806
Burst pressure	>25 bar
Life cycle - EN-1111	50,000 cycles
Max. hot water	90°C
Noise level	17.8 - 21.1 dB

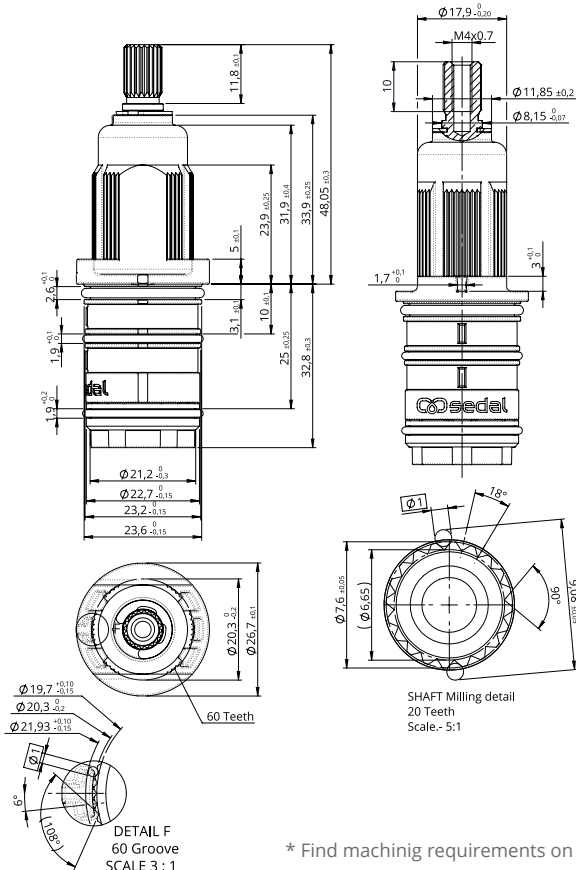
Operation torque	TM006/ NSF/ 4MS
Turn left-right	0.03 - 0.18 Nm
Sensitivity (36-40°C) (handle 20mm)	18-21 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM006 / TM001 4MS
at 0.1 bar	3 l/min
at 0.5 bar	7 l/min
at 3 bar	20 l/min
at 5 bar	26.4 l/min

\* Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

**DIMENSIONS**

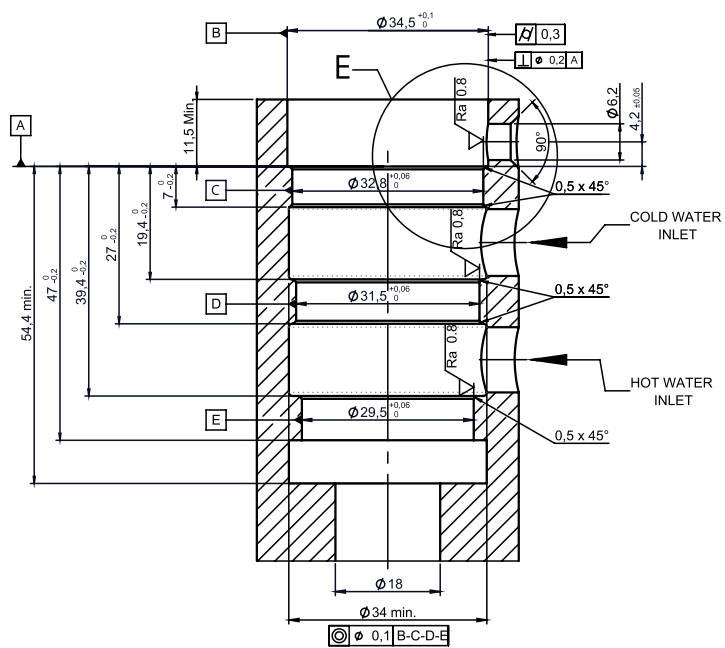
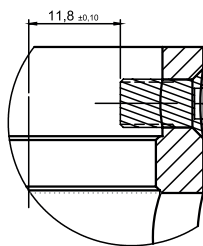


\* Find machining requirements on pages 174-175.

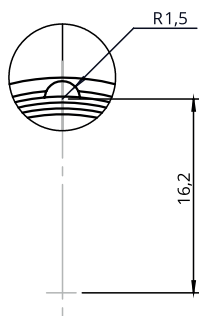
# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

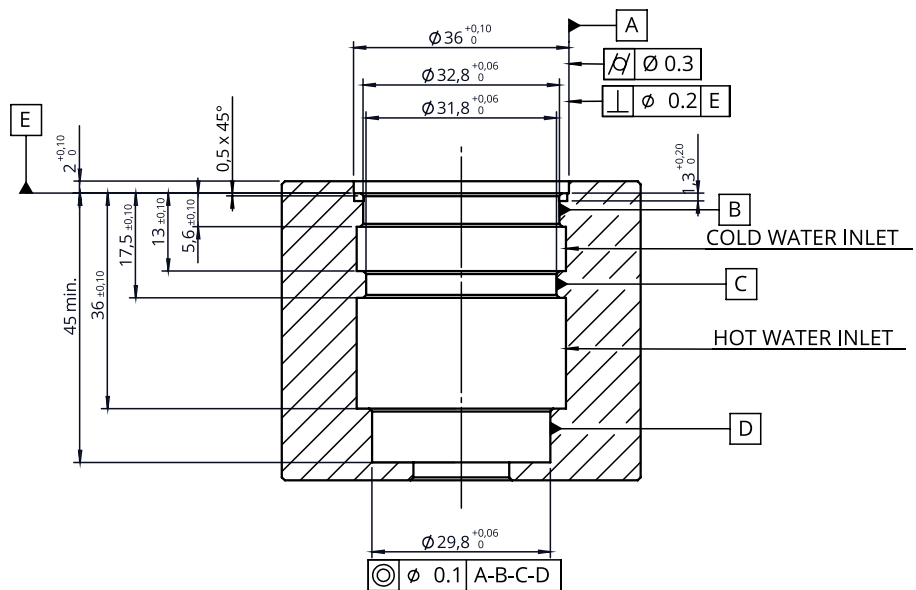
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
	TM001	07TM00100	160	
34 mm	TM001 HP	07TM0102	162	
	TM001 BASIC	07TM0119	164	



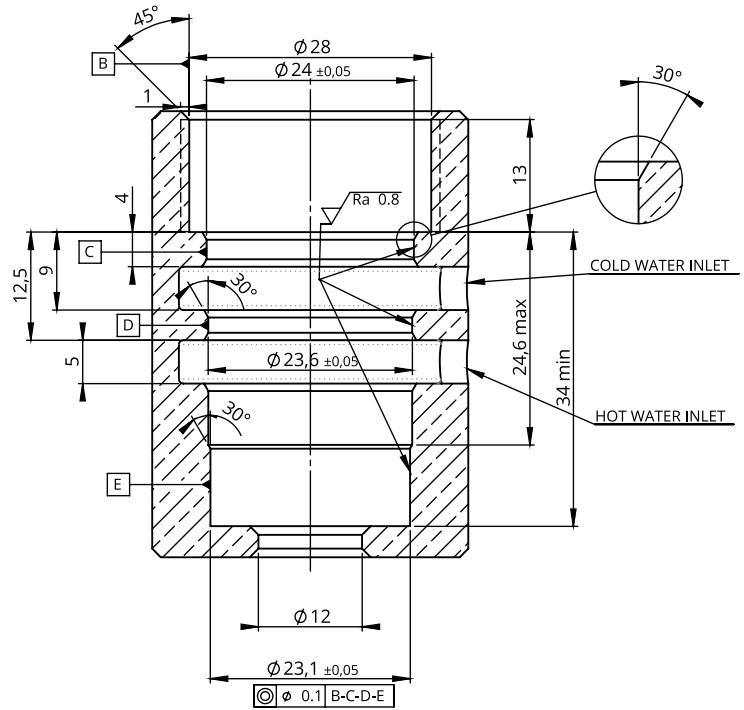
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
34 mm	TM001 C	07TM0112	166	



DETALLE H  
ESCALA 2 : 1



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
	TM006	07TM0101	168	
27 mm	TM006 K	07TM0606	170	
	TM006 BASIC	07TM0607	172	









# CERAMIC HEADWORKS

Complete range of ceramic headworks with plastic, brass or inox bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow. Plastic versions are suitable for low-lead applications.

# PLASTIC HEADWORKS

## 19MCP 90°

### DESCRIPTION

Complete range of ceramic headworks with plastic bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES



#### LEAD FREE

Suitable for low-lead applications.



#### ROTATION ANGLE

Headwork with 90° rotation angle.

### ADVANTAGES

- *LONG LIFE CYCLE*  
1.000.000 ASME cycles life test.
- *COMPLETE RANGE*  
Complete range of ceramic and conventional headworks.
- *BODY MATERIALS*  
High-resistant thermoplastics, brass and stainless steel bodies available.
- *LEAD FREE*  
Chloramine resistant lead free brass body and stem options. Plastic versions are suitable for low-lead applications.
- *VERSIONS*  
Right and left to close versions and different rotation angles (90° and 180°)
- *DIFFERENT LENGTH SHAFTS & GEOMETRIES*  
Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.
- *OEM CUSTOMIZATION*  
Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet their specific requirements and needs.



# 19MCP 90°

REF.19MCP90R01 (right-blue)  
REF.19MCP90L01 (left-red)



# 19MCP 90° LS

REF.19MCP90R18 (right-blue)  
REF.19MCP90L13 (left-red)



## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.



**BATH-SHOWERS**  
Specially designed for bath showers.

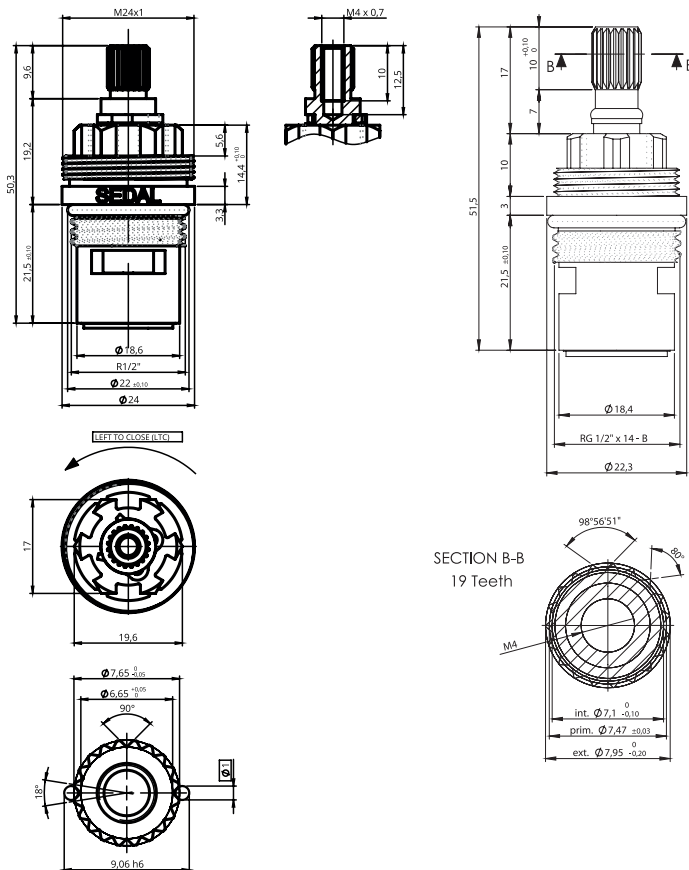


**KITCHENS**  
Suitable for use in kitchens.

## CERTIFICATIONS



## DIMENSIONS



Milling detail  
z=20 teeth  
Scale - 5:1

## TECHNICAL SPECIFICATIONS

General	19MCP 90°	19MCP 90° LS
Installation torque (recommended)	8-10 Nm	8-10 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Life cycle - EN 200 ASME A112	200,000 cycles	200,000 cycles
	500,000 cycles	500,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MCP 90°	19MCP 90° LS
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MCP 90°	19MCP 90° LS
at 0.1 bar	3.6 l/min	3.6 l/min
at 1 bar	12.7 l/min	12.7 l/min
at 3 bar	22.4 l/min	22.4 l/min
at 5 bar	29.1 l/min	29.1 l/min

\* Find machining requirements on page 190.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# PLASTIC HEADWORKS

## 19MCP 90°

LS2

REF. 19MCP90R20 (right-blue)

REF. 19MCP90L15 (left-red)



## 19MCP 90°

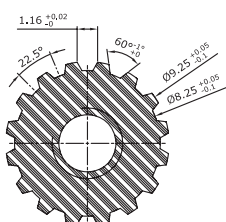
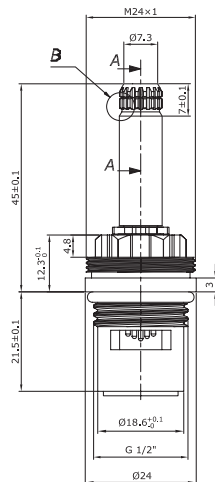
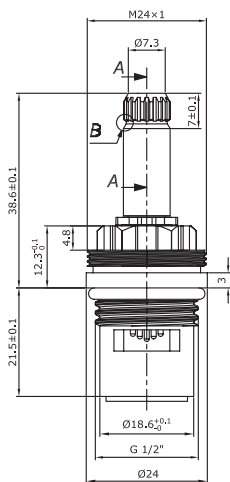
LS3

REF. 19MCP90R21 (right-blue)

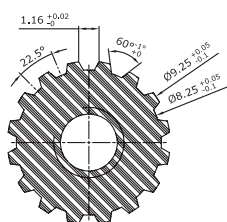
REF. 19MCP90L16 (left-red)



### DIMENSIONS



Z=16 Teeth



Z=16 Teeth

### DESCRIPTION

Complete range of ceramic headworks with plastic bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES



**LEAD FREE**  
Suitable for low-lead applications.



**ROTATION ANGLE**  
Headwork with 90° rotation angle.

### ADVANTAGES

Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	19MCP 90° LS2	19MCP 90° LS3
Installation torque (recommended)	8-10 Nm	8-10 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Life cycle - EN 200 ASME A112	200,000 cycles	200,000 cycles
ASME A112	500,000 cycles	500,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MCP 90° LS2	19MCP 90° LS3
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MCP 90° LS2	19MCP 90° LS3
at 0.1 bar	3.6 l/min	3.6 l/min
at 1 bar	12.7 l/min	12.7 l/min
at 3 bar	22.4 l/min	22.4 l/min
at 5 bar	29.1 l/min	29.1 l/min

\* Find machining requirements on page 190.

Only applies to officially listed products.

Tested at Sedal's lab with Sedal's standard faucet

## 19MCP 180°

REF. 19MCP18R01 (right-blue)  
REF. 19MCP18L01 (left-red)



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DATA SHEET

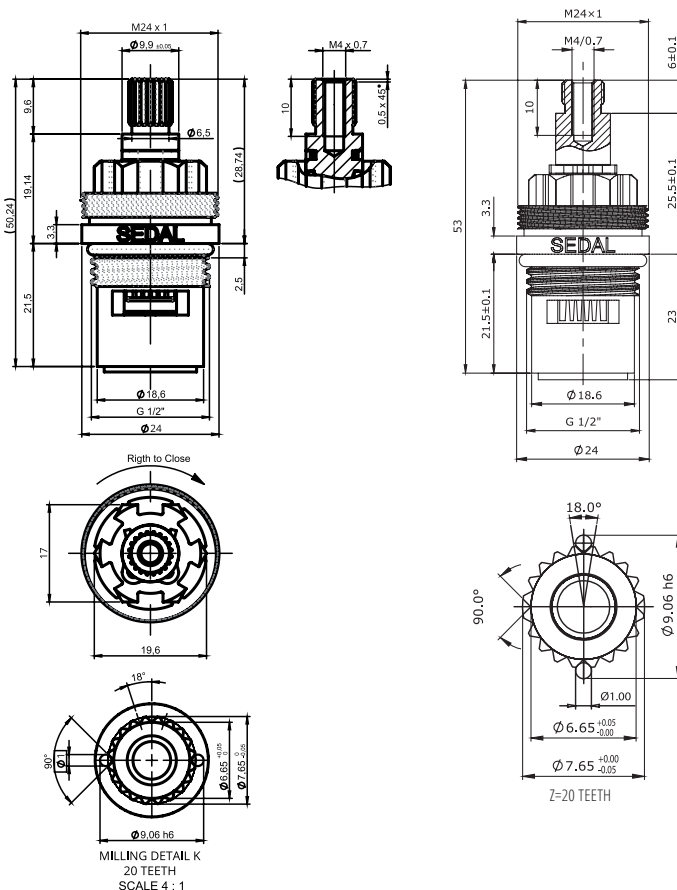
## 19MCP 180°

LS

REF. 19MCP18R09 (right-blue)  
REF. 19MCP18L04 (left-red)



### DIMENSIONS



### DESCRIPTION

Complete range of ceramic headworks with plastic bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES



#### LEAD FREE

Suitable for low-lead applications.



#### ROTATION ANGLE

Headwork with 180° rotation angle.

### ADVANTAGES

Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	19MCP 180°	19MCP 180° LS
Installation torque (recommended)	8-10 Nm	8-10 Nm
Rotation angle	180°	180°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Life cycle - EN 200 ASME A112	200,000 cycles	200,000 cycles
ASME A112	500,000 cycles	500,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MCP 180°	19MCP 180° LS
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MCP 180°	19MCP 180° LS
at 0.1 bar	3.8 l/min	3.8 l/min
at 1 bar	13.4 l/min	13.4 l/min
at 3 bar	23.3 l/min	23.3 l/min
at 5 bar	30.2 l/min	30.2 l/min

\* Find machining requirements on page 190.

Only applies to officially listed products.

Tested at Sedal's lab with Sedal's standard faucet

# BRASS HEADWORKS

## 19MC 90°

### DESCRIPTION

---

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES

---



**ROTATION ANGLE**  
Headwork with 90° rotation angle.

### ADVANTAGES

---

- **LONG LIFE CYCLE**  
1.000.000 ASME cycles life test.
- **COMPLETE RANGE**  
Complete range of ceramic and conventional headworks.
- **BODY MATERIALS**  
High-resistant thermoplastics, brass and stainless steel bodies available.
- **VERSIONS**  
Right and left to close versions and different rotation angles (90° and 180°)
- **DIFFERENT LENGTH SHAFTS**  
Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.
- **OEM CUSTOMIZATION**  
Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet their specific requirements and needs.

# 19MC 90°

REF.19MC01 (right-blue)  
REF.19MC04 (left-red)



# 19MC 90° 2S

REF.19MC09L19



## RECOMMENDED APPLICATIONS



### WASHBASINS

Specially designed for washbasins.



### BATH-SHOWERS

Specially designed for bath showers.



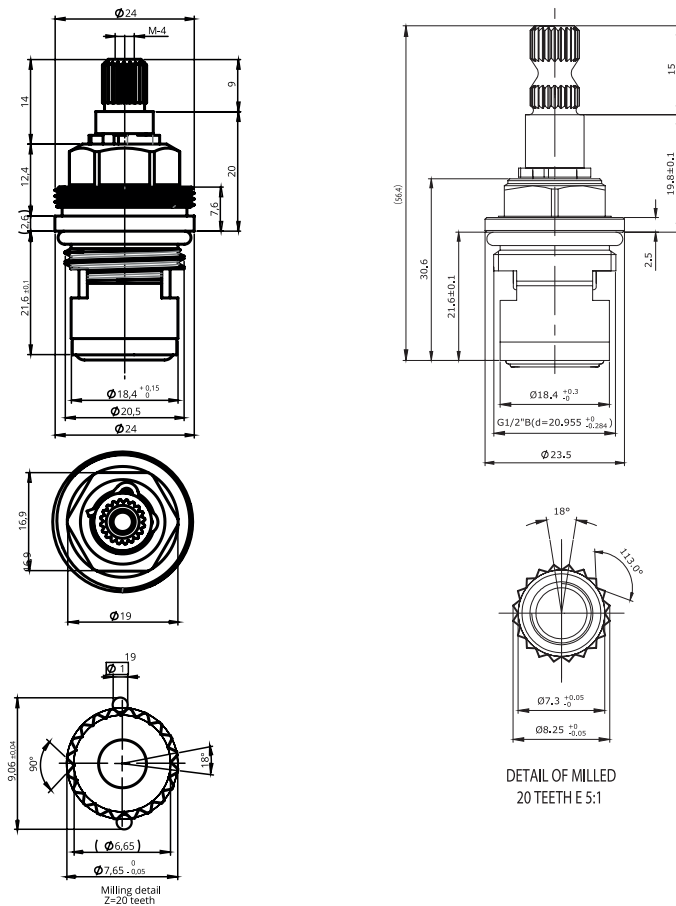
### KITCHENS

Suitable for use in kitchens.

## CERTIFICATIONS



## DIMENSIONS



## TECHNICAL SPECIFICATIONS

General	19MC 90°	19MC 90° 2S
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200 ASME A112	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MC 90°	19MC 90° 2S
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90°	19MC 90° 2S
at 0.1 bar	3.8 l/min	3.8 l/min
at 1 bar	13.5 l/min	13.5 l/min
at 3 bar	23.9 l/min	23.9 l/min
at 5 bar	30.8 l/min	30.8 l/min

\* Find machining requirements on page 190.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# BRASS HEADWORKS

## 19MC 90°

SQ

REF.19MC090L20

REF.19MC090R29



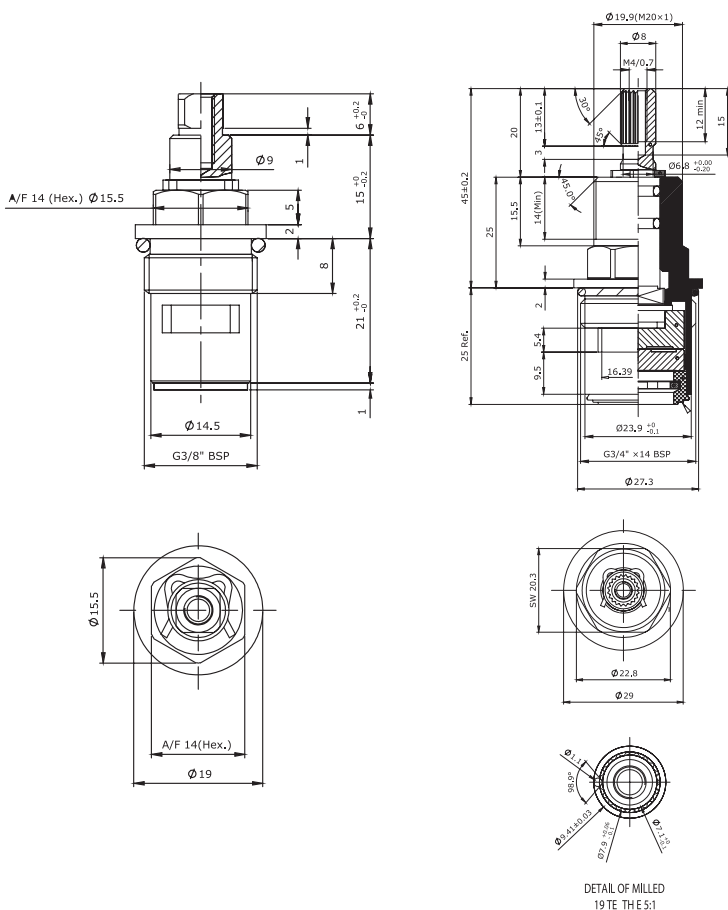
## 19MC 90°

3/4

REF.19MC090R31



### DIMENSIONS



### DESCRIPTION

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES



#### ROTATION ANGLE

Headwork with 90° rotation angle.

### ADVANTAGES

Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	19MC 90° SQ	19MC 90° 3/4
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - EN 200	25 bar	25 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MC 90° SQ	19MC 90° 3/4
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90° SQ	19MC 90° 3/4
at 0.1 bar	2.7 l/min	9.5 l/min
at 1 bar	10.9 l/min	19.7 l/min
at 3 bar	18.5 l/min	28.6 l/min
at 5 bar	25 l/min	35.5 l/min

\* Find machining requirements on page 190.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# 19MC 90°

C

REF.19MC090L21



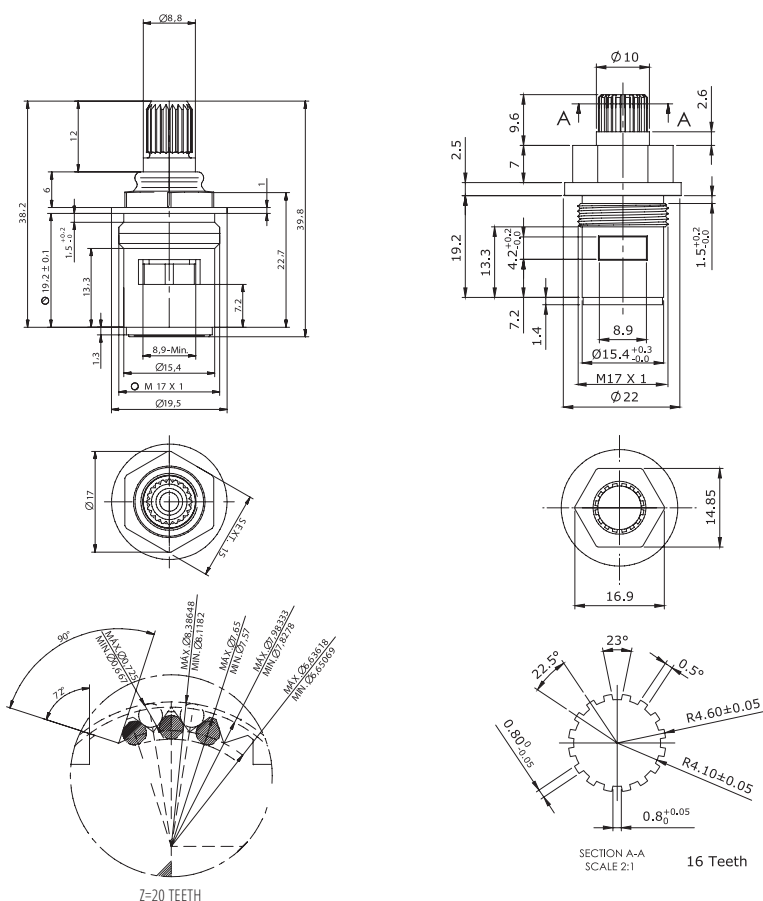
# 19MC 90°

WH

REF.19MC090R30



## DIMENSIONS



## DESCRIPTION

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

## FEATURES



**ROTATION ANGLE**  
Headwork with 90° rotation angle.

## ADVANTAGES

Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.

## RECOMMENDED APPLICATIONS



## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	19MC 90° C	19MC 90° WH
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - EN 200	25 bar	25 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MC 90° C	19MC 90° WH
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90° C	19MC 90° WH
at 0.1 bar	3 l/min	3 l/min
at 1 bar	11.8 l/min	11.8 l/min
at 3 bar	21.7 l/min	21.7 l/min
at 5 bar	28.1 l/min	28.1 l/min

\* Find machining requirements on page 190.

Only applies to officially listed products.

Tested at Sedal's lab with Sedal's standard faucet



# BRASS HEADWORKS

## 19MC 180°

REF. 19MC03 (Right-Blue)  
REF. 19MC05 (Left-Red)



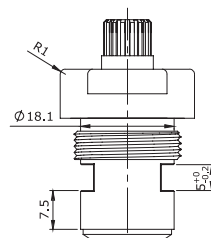
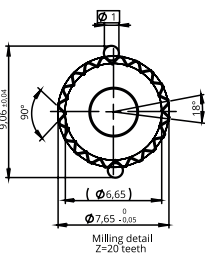
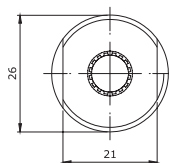
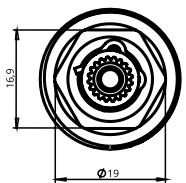
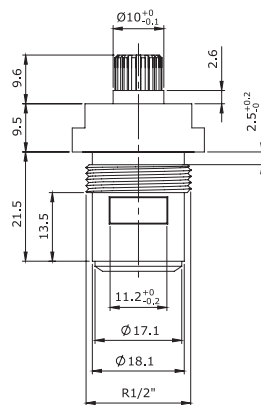
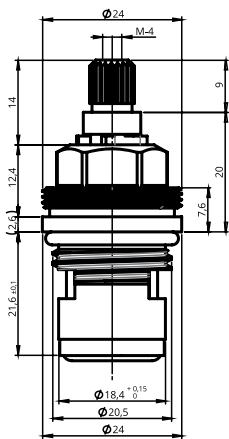
## 19MC 90°

*FH CHROMED*

REF.19MC090R32



### DIMENSIONS



### DESCRIPTION

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES



#### ROTATION ANGLE

Headwork with 180° rotation angle.



#### ROTATION ANGLE

Headwork with 90° rotation angle.

### ADVANTAGES

Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.

### RECOMMENDED APPLICATIONS



### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	19MC 180°	19MC 90° FH
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	180°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	25 bar
Burst pressure	>50 bar	-
Life cycle - EN 200 ASME A112	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C
<b>Operation Torque</b>	<b>19MC 180°</b>	<b>19MC 90° FH</b>
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm
<b>Flow rate (free flow)</b>	<b>19MC 180°</b>	<b>19MC 90° FH</b>
at 0.1 bar	3.8 l/min	3.8 l/min
at 1 bar	13.5 l/min	13.5 l/min
at 3 bar	23.9 l/min	23.9 l/min
at 5 bar	30.8 l/min	30.8 l/min

\* Find machining requirements on page 190.

Only applies to officially listed products.

Tested at Sedal's lab with Sedal's standard faucet

# 19MN

REF. 19MN01



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# 19MN

LS

REF. 19MN015



## DESCRIPTION

Complete range of conventional headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

## ADVANTAGES

Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.

## RECOMMENDED APPLICATIONS



## CERTIFICATIONS

ACS

## TECHNICAL SPECIFICATIONS

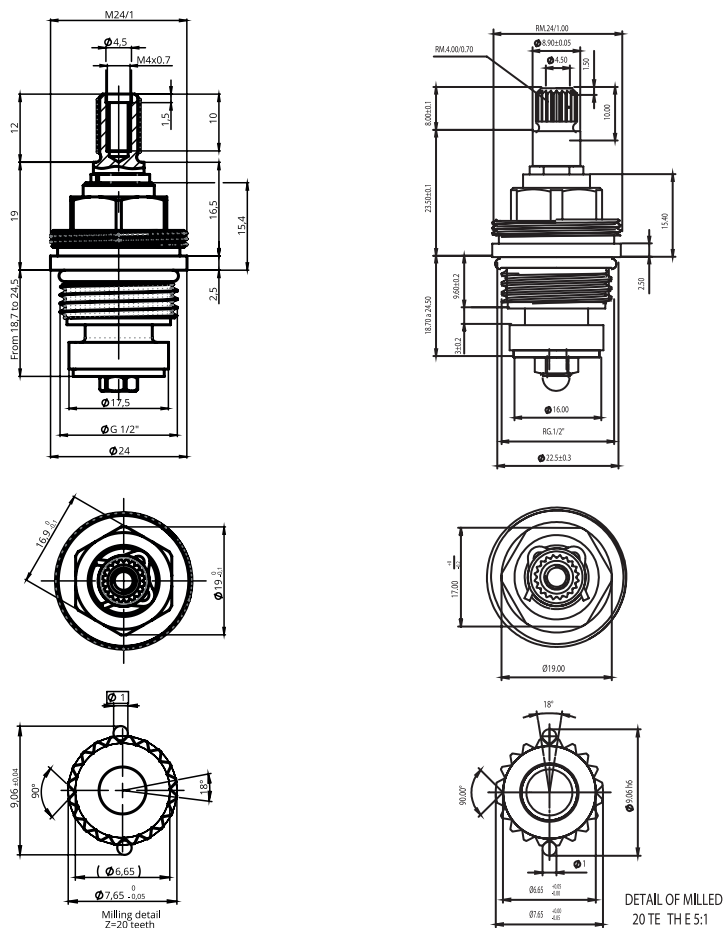
General	19MN	19MN LS
Installation torque (recommended)	10-12 Nm	10-12 Nm
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - EN 200	25 bar	25 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MN	19MN LS
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MN	19MN LS
at 0.1 bar	4.5 l/min	4.5 l/min
at 1 bar	16.3 l/min	16.3 l/min
at 3 bar	29 l/min	29 l/min
at 5 bar	35.5 l/min	35.5 l/min

\* Find machining requirements on page 190.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

## DIMENSIONS



# STAINLESS STEEL HEADWORKS

## 19MC 90°

### DESCRIPTION

---

Complete range of ceramic headworks with stainless steel bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow.

### FEATURES

---



**ROTATION ANGLE**  
Headwork with 90° rotation angle.

### ADVANTAGES

---

- *LONG LIFE CYCLE*  
500.000 ASME cycles life test.
- *COMPLETE RANGE*  
Complete range of ceramic and conventional headworks.
- *BODY MATERIALS*  
High-resistant thermoplastics, brass and stainless steel bodies available.
- *VERSIONS*  
Right and left to close versions and different rotation angles (90° and 180°)
- *DIFFERENT LENGTH SHAFTS*  
Sedal offers a wide range of length shafts that the client can customize depending on its needs. It is also possible to design other shaft geometries.
- *OEM CUSTOMIZATION*  
Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet their specific requirements and needs.

# 19MC 90°

IX

REF.19MC090R33



# 19MC 90°

IX LS

REF.19MC090R34



## RECOMMENDED APPLICATIONS



### WASHBASINS

Specially designed for washbasins.



### BATH-SHOWERS

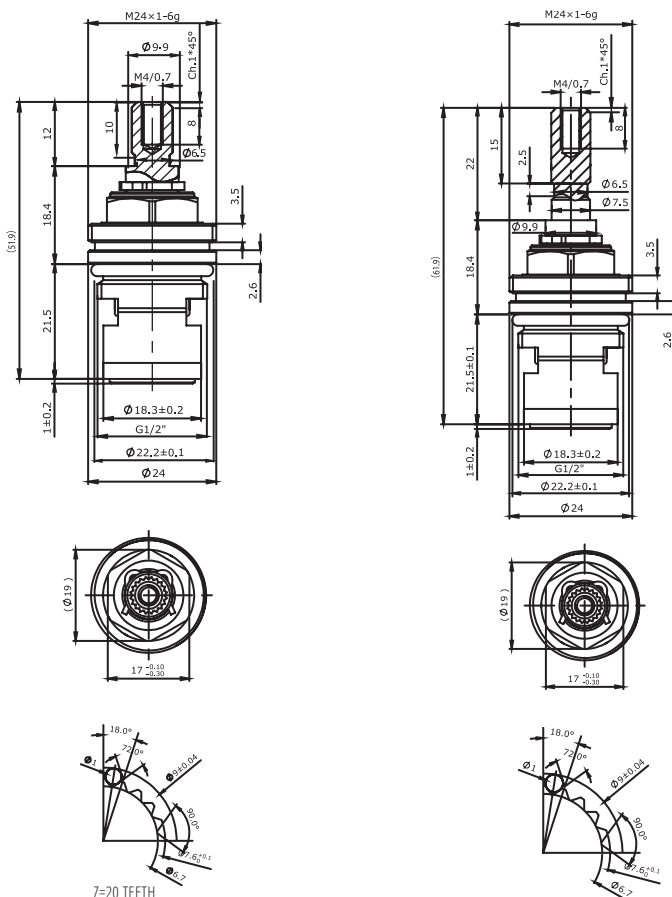
Specially designed for bath showers.



### KITCHENS

Suitable for use in kitchens.

## DIMENSIONS



## TECHNICAL SPECIFICATIONS

General	19MC 90° IX	19MC 90° IX LS
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200 ASME A112	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MC 90° IX	19MC 90° IX LS
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90° IX	19MC 90° IX LS
at 0.1 bar	3.8 l/min	3.8 l/min
at 1 bar	13.5 l/min	13.5 l/min
at 3 bar	23.9 l/min	23.9 l/min
at 5 bar	30.8 l/min	30.8 l/min

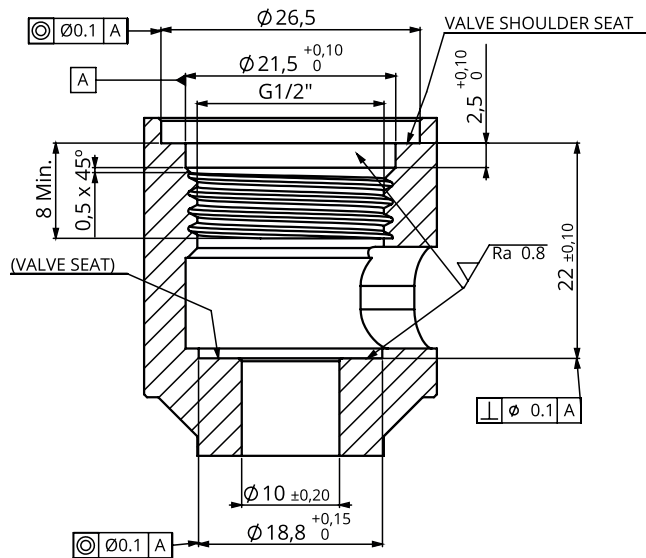
\* Find machining requirements on page 190.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

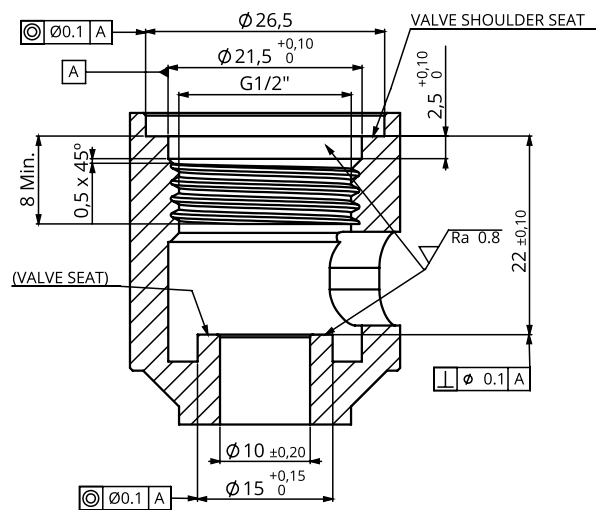
PRODUCT	REFERENCE	PAGE
19MCP 90°	19MCP90R01 (Right-Blue) 19MCP90L01 (Left-Red)	179
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19MCP 90° LS3	19MCP90R21 (Right-Blue) 19MCP90L16 (Left-Red)	180
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19MCP 180° LS	19MCP18R09 (Right-Blue) 19MCP18L04 (Left-Red)	181
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MACHINING TIP



PRODUCT	REFERENCE	PAGE
19MN	19MN01	187
19MN LS	19MN015	187

MACHINING TIP











# SHOWER DIVERTERS

Diverters with automatic return specially designed for bath showers because allows to have two different outlets while keeping slim designs.

# SHOWER DIVERTERS

## COMPACT

REF.09CKR00



DOWNLOAD DATA SHEET

## COMPACT

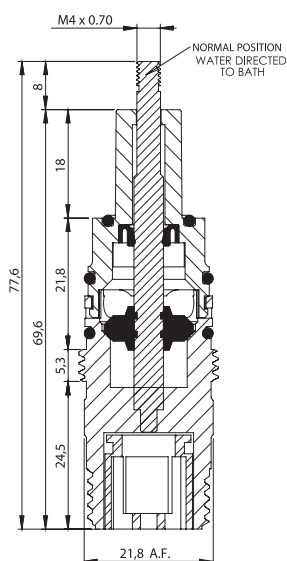
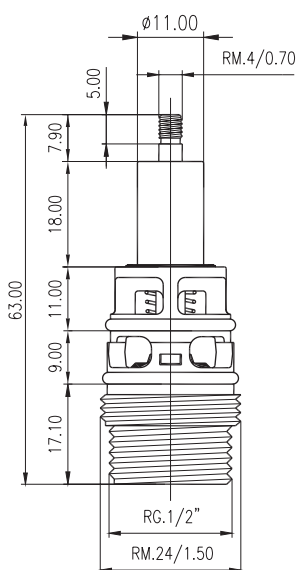
+R

REF.09CKR10



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### DIMENSIONS



### DESCRIPTION

These diverters with automatic return fit specially good in bath showers because allows to have two different outlets while keeping slim designs. Mixed water enters inlet 3 and exits either outlet 1 or 2.

### FEATURES

**2 OUT** OUTLETS  
Diverter cartridge with two outlets.

### RECOMMENDED APPLICATIONS



**SHOWERS DIVERTERS**  
Specially designed for showers with diverters.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	Compact	Compact +R
Operative	Manual and automatic	Manual and automatic
Torque	5-8 Nm	5-8 Nm
Pressure resistance	max. 12 bar	max. 12 bar
Working pressure	12 bar	12 bar
Max. temperature	90 °C	90 °C
Endurance test	>30,000 cycles	>30,000 cycles

\* Find machining requirements on page 196.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

## SEDAL

REF.09SGCR01



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DATA SHEET

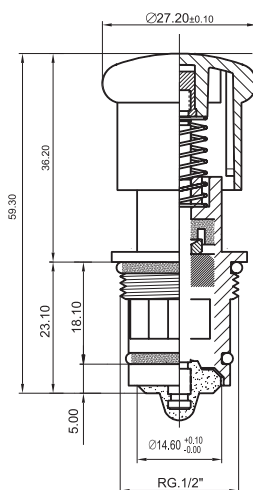
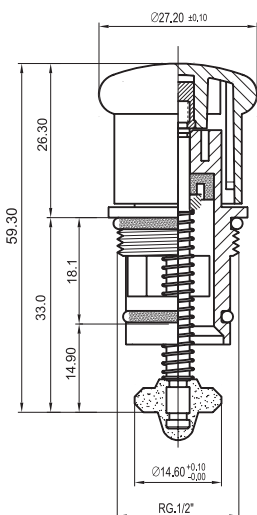
## USA

REF.09TUCR00



DOWNLOAD  
DATA SHEET

## DIMENSIONS



## DESCRIPTION

These diverters with automatic return fit specially good in bath showers because allows to have two different outlets while keeping slim designs. Mixed water enters inlet 3 and exits either outlet 1 or 2.

## FEATURES



### OUTLETS

Diverter cartridge with two outlets.

## RECOMMENDED APPLICATIONS



### SHOWERS DIVERTERS

Specially designed for showers with diverters.

## TECHNICAL SPECIFICATIONS

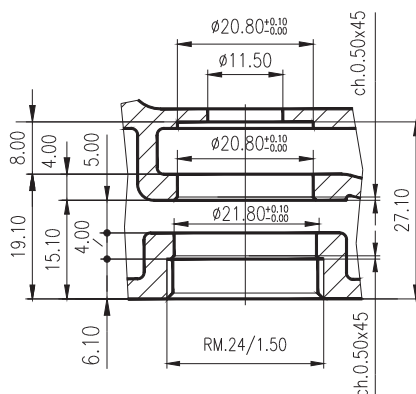
General	Sedal	USA
Operative	Manual and automatic	Manual and automatic
Torque	5-8 Nm	5-8 Nm
Pressure resistance	max. 12 bar	max. 12 bar
Working pressure	12 bar	12 bar
Max. temperature	90 °C	90 °C
Endurance test	>30,000 cycles	>30,000 cycles

\* Find machining requirements on page 196.  
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

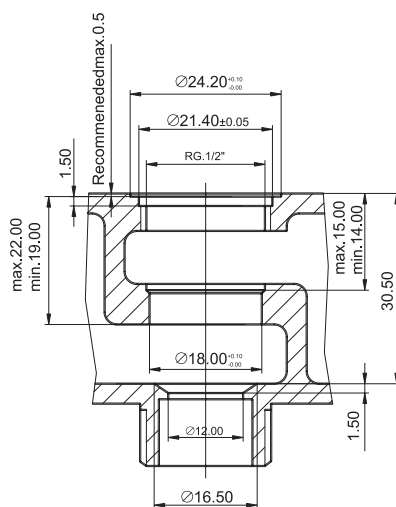
# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

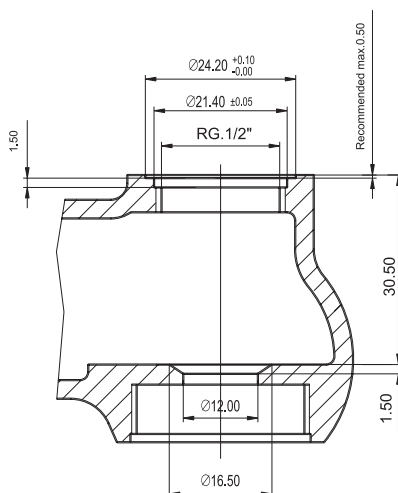
PRODUCT	REFERENCE	PAGE	MACHINING TIP
COMPACT	09CKCR00	194	
COMPACT +R	09CKCR10	194	



PRODUCT	REFERENCE	PAGE	MACHINING TIP
SEDAL	09SGCR01	195	



PRODUCT	REFERENCE	PAGE	MACHINING TIP
USA	09TUCR00	195	











# METERING VALVES

Metering valves are automatic shut-off valves for public venues ensuring water saving.



# METERING VALVES

## URINAL

REF. 19MTU0C05



DOWNLOAD DATA SHEET

## BASIN

REF. 19MTB0C05 (cold)  
REF. 19MTB0H05 (hot)



DOWNLOAD DATA SHEET

### OTHER VERSIONS

#### URINAL

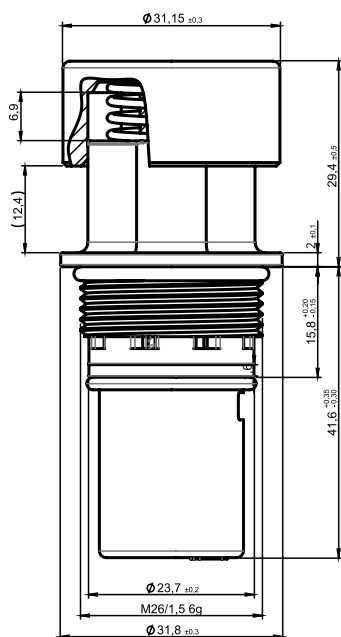
#### BASIN

M26

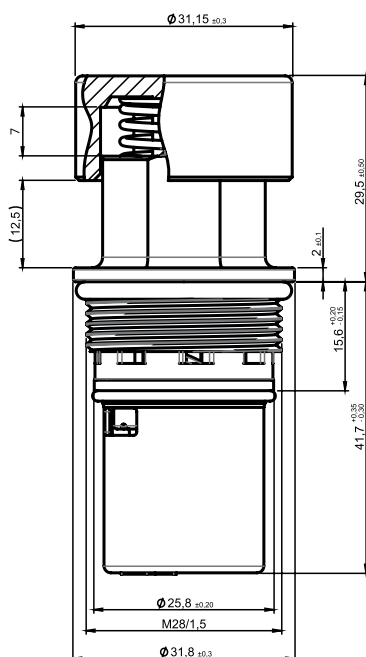
REF. 19MTU0C06

REF. 19MTB0C06 (cold)  
REF. 19MTB0H06 (hot)

### DIMENSIONS



M26



M28

### DESCRIPTION

Metering valves are automatic shut-off valves for public venues ensuring water saving. All metering valves are available in M26 and M28.

### FEATURES



**ECO**  
Environmental sustainability feature.



**AUTOMATIC SHUT-OFF**  
Shuts off automatically after a limited period of time.



**AUTO-CLEANING**  
Auto-cleaning system to avoid lime scale.

### RECOMMENDED APPLICATIONS



**URINALS**  
Recommended for public urinaries.



**WASHBASINS**  
Specially designed for public washbasins



**HOTELS**  
Recommended for hotels



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

### TECHNICAL SPECIFICATIONS

General	URINAL	BASIN
Max. working pressure	6 bar	6 bar
Burst pressure	>25 bar	>25 bar
Lyfe cycle EN-816	210.000	210.000
<b>Flow rate at 3 bar</b>		
Free flow (DN13 hose)	17 l/min	17 l/min
C-Restrictor (DN13 hose)	14.5 l/min	14.5 l/min
Actuation time	7 ± 3 s	15 ± 5 s

\* Find machining requirements on page 202.

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

## SHOWER

REF. 19MTS0C05



DOWNLOAD  
DATA SHEET

## ADJUSTABLE

REF. 19MTA0C05



DOWNLOAD  
DATA SHEET

## DESCRIPTION

Metering valves are automatic shut-off valves for public venues ensuring water saving. All metering valves are available in M26 and M28.

## FEATURES



**ECO**  
Environmental sustainability feature.



**ADJUSTABLE**  
The user can limit the time of use of metering valve,



**AUTOMATIC SHUT-OFF**  
Shuts off automatically after a limited period of time.

## OTHER VERSIONS

M26

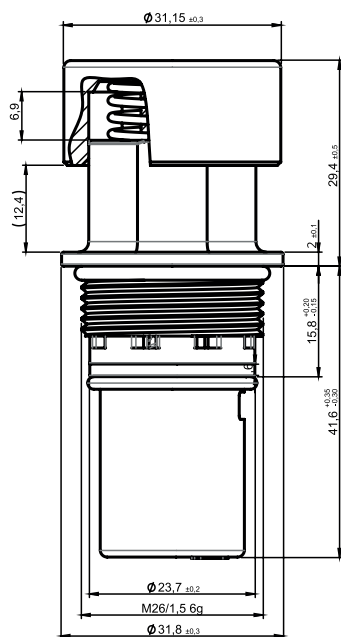
## SHOWER

REF.19MTS0C06

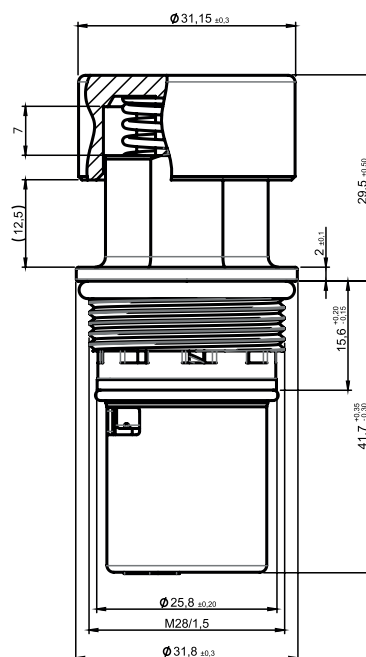
## ADJUSTABLE

REF. 19MTA0C06

## DIMENSIONS



M26



M28

## RECOMMENDED APPLICATIONS



**SHOWERS**  
Recommended for public showers.



**WASHBASINS**  
Specially designed for public basins.



**URINALS**  
Recommended for public urinals.



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.



**HOTELS**  
Recommended for hotels.

## TECHNICAL SPECIFICATIONS

General	SHOWER	ADJUSTABLE
Max. working pressure	6 bar	6 bar
Burst pressure	>25 bar	>25 bar
Life cycle EN-816	210.000	210.000
<b>Flow rate at 3 bar</b>		
Free flow (DN13 hose)	17 l/min	17 l/min
C-Restrictor (DN13 hose)	14.5 l/min	14.5 l/min
Actuation time	20 ±10	15 ± 5 s

\* Find machining requirements on page 202.

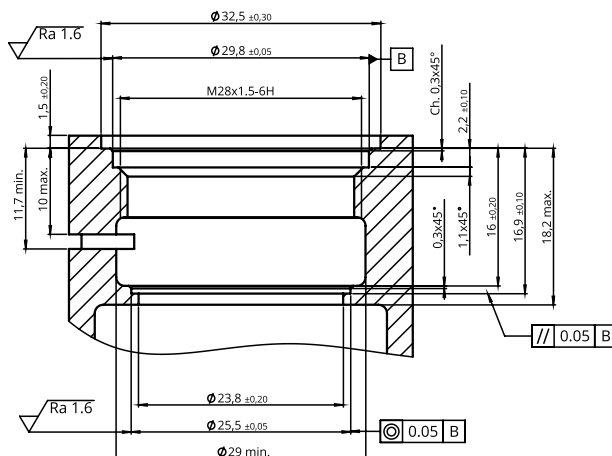
Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet

# MACHINING REQUIREMENTS

## CHART OF MACHINING REQUIREMENTS

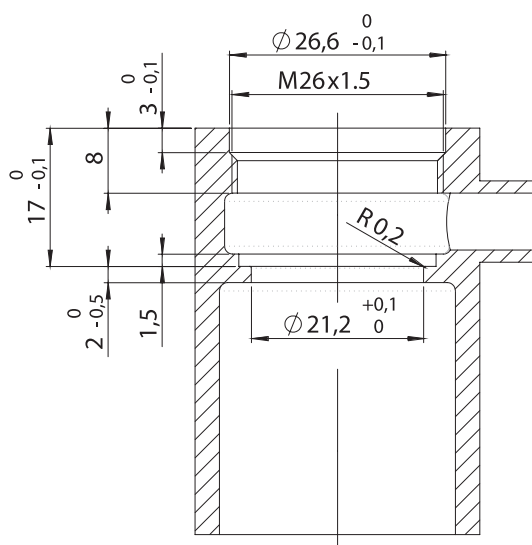
PRODUCT	REFERENCE	PAGE
URINAL	19MTU0C05	200
BASIN	19MTB0C05 (cold) 19MTB0H05 (hot)	200
SHOWER	19MTS0C05	201
ADJUSTABLE	19MTA0C05	201

### MACHINING TIP



PRODUCT	REFERENCE	PAGE
URINAL	19MTU0C06	200
BASIN	19MTB0C06 (cold) 19MTB0H06 (hot)	200
SHOWER	19MTS0C06	201
ADJUSTABLE	19MTA0C06	201

### MACHINING TIP









# FLEXIBLE HOSES

SEDAL's flexible hoses are manufactured according to the most demanding safety standards. 100% tested, flexible hoses are available in different combinations of materials and sizes.

# FLEXIBLE HOSES

## FLEXIBLE HOSES FOR TAPS



## STANDARD FLEXIBLE HOSES

DN8



### DESCRIPTION

Flexible hoses for sanitary installations: taps, wash-basins, bidets, water heaters, water vessels, water storage tanks, solar water heaters and air conditioning.

Available as standard and under customer design and requirements of materials, length and fitting configuration.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	Flexible hoses for taps	Standard flexible hoses DN8
End fittings	Brass	Brass CW614
Nuts	3/8" - 1/2"	3/8" - 1/2"
Nozzle	M-8/100 - M-10/100 18mm, 35mm, 50mm	-
Sleeve	Stainless steel	Stainless steel AISI 304
Hose	E.P.D.M. sanitary hose or PEX	E.P.D.M. sanitary hose or PEX
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stainless steel AISI 304 wire
∅ Internal diameter	6mm - 8mm	8mm
∅ External diameter	10mm - 12mm	12mm
Max. temperature	90°C	90°C
Drinking H <sub>2</sub> O	Yes	Yes
Burst pressure	100 kg/cm <sup>2</sup>	100 kg/cm <sup>2</sup>
Work pressure	25 kg/cm <sup>2</sup>	25 kg/cm <sup>2</sup>
Curvature radius	35mm - 40mm	40mm
Nominal flow	20 l/min - 25 l/min	25 l/min



## STANDARD FLEXIBLE HOSES

DN13



## STANDARD FLEXIBLE HOSES

DN19&DN25



### DESCRIPTION

Flexible hoses for sanitary installations: taps, wash-basins, bidets, water heaters, water vessels, water storage tanks, solar water heaters and air conditioning.

Available as standard and under customer design and requirements of materials, length and fitting configuration.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### TECHNICAL SPECIFICATIONS

General	Standard flexible hoses DN13	Standard flexible hoses DN19 & DN25
End fittings	Brass	Brass
Nuts	1/2" - 3/4"	3/4" - 1"
Sleeve	Stainless steel	Stainless steel
Hose	E.P.D.M. sanitary hose	E.P.D.M. sanitary hose
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stainless steel AISI 304 wire
∅ Internal diameter	13mm	19mm - 25mm
∅ External diameter	19mm	27mm - 33mm
Max. temperature	90°C	90°C
Drinking H <sub>2</sub> O	Yes	Yes
Burst pressure	90 kg/cm <sup>2</sup>	-
Work pressure	15 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>
Curvature radius	50mm	70mm - 100mm
Nominal flow	70 l/min	120 l/min - 200 l/min

# FLEXIBLE HOSES

## FLEXIBLE HOSES WITH BICONE DN8



## FLEXIBLE HOSES WITH ELBOW



### DESCRIPTION

Flexible hoses for sanitary installations: taps, wash-basins, bidets, water heaters, water vessels, water storage tanks, solar water heaters and air conditioning.

Available as standard and under customer design and requirements of materials, length and fitting configuration.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWERS

Specially designed for bath showers.



#### KITCHENS

Suitable for use in kitchens.

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	Flexible hoses with bicone DN8	Flexible hoses with elbow			
End fittings	Brass	Brass			
Elbow	-	Brass			
Bicone	Ø 10 Ø 12 Ø 14	-			
Sleeve	Stainless steel	Stainless steel			
Hose	E.P.D.M. sanitary hose	E.P.D.M. sanitary hose			
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stainless steel AISI 304 wire			
Nuts	3/8" - 1/2"	3/8" - 1/2"	1/2" - 3/4"	3/4"	1"
Ø Internal diameter	8mm	8mm	13mm	19mm	25mm
Ø External diameter	12mm	12mm	19mm	27mm	33mm
Max. temperature	90°C	90°C	90°C	90°C	90°C
Drinking H <sub>2</sub> O	Yes - No	Yes	Yes	Yes	Yes
Burst pressure	100 kg/cm <sup>2</sup>	100 kg/cm <sup>2</sup>	80 kg/cm <sup>2</sup>	60 kg/cm <sup>2</sup>	35 kg/cm <sup>2</sup>
Work pressure	25 kg/cm <sup>2</sup>	25 kg/cm <sup>2</sup>	20 kg/cm <sup>2</sup>	15 kg/cm <sup>2</sup>	15 kg/cm <sup>2</sup>
Curvature radius	40mm	40mm	45mm	40mm	40mm
Nominal flow	25 l/min	25 l/min	65 l/min	120 l/min	200 l/min

Only applies to officially listed products.  
Tested at Sedal's lab with Sedal's standard faucet









# ELECTRONICS RANGE

SEDAL'S electronic devices provide fast response, high reliability and anti-scalding safety features thanks to the combination of materials, design and high quality sensors.





# SUMMUM

SMART  
THERMOSTATIC  
SHOWER  
SYSTEMS

• summum •











# SUMMUM · SMART THERMOSTATIC SHOWER SYSTEMS

Summum is an smart system consisting on a CPU electronic thermostatic mixer with one outlet and a touchpad to control it. It has no cartridges or small electric motors, increasing the product features and enabling a longer product life.






SEDAL system is able to operate in different conditions, even with differential pressures, avoiding the need of stabilizers.

Summum offers the maximum precision in the reading and control of consumption parameters and the absence of friction ensures great durability in daily use.

## SUMMUM ONE

		PG			PG		
CPUS		CPU ISCU TH_S 10	214	+		iSQUARE S	226
		CPU ISCU TH_S 20	216			iTECH	228
		CPU ISCU TH_S 30	218			iPLUS	230

## SUMMUM

		PG			PG		
CPUS		CPU IV2 20	220	+		iTECH	228
		CPU IV2 30	222			iPLUS	230
		CPU IV2 40	224				



# CPU ISCU TH S 1 OUTLET

## THERMOSTATIC MIXER FOR SHOWERS

### DESCRIPTION

Summum One is a smart system for showers consisting on a CPU electronic thermostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH S is the thermostatic box with 1 outlet that controls the system.

### FEATURES & FUNCTIONS

	<p><b>OUTLET</b> Mixing box with one outlet.</p>		<p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>		<p><b>SHOWER SEQUENCES</b> Customize and run water sequences combining temperature, flow, time and outlets.</p>		<p><b>LEAKAGE DETECTION</b> Summum detects small leakages of the system.</p>
	<p><b>CONNECTIVITY</b> Optional model with WiFi-bluetooth to control functionalities with an app</p>		<p><b>PAUSE</b> Remembers water temperature and flow that the user was using before shampooing.</p>		<p><b>SHOWER SET-UP</b> Set up parameters such as temperature, flow and time of your device.</p>		<p><b>ANTI-SCALDING</b> Anti-scalding safety warning when using the shower.</p>
	<p><b>THERMOSTATIC</b> Thermostatic functions allow water delivery at the desired temperature.</p>		<p><b>SUPER-ECO MODE</b> The system offers an Eco mode function to save water and energy.</p>		<p><b>USER PROFILES</b> Store preferred settings of temperature, flow and outlets for 3 different users.</p>		<p><b>THERMAL DISINFECTION</b> Thermal disinfection in all shower outlets.</p>
	<p><b>FLOWSTATIC</b> Flowstatic functions allow water delivery of the desired water quantity.</p>		<p><b>SMART BATH FILL</b> Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.</p>		<p><b>NORMALLY CLOSED</b> In case of power outage, the system closes automatically.</p>		<p><b>AUTO-CLEANING</b> Water is flushed through all outlets to avoid lime scale.</p>
	<p><b>START-UP</b> System learns environmental conditions during installation.</p>		<p><b>CHILDREN SAFETY</b> Set up temperature, flow, outlets and time desired for your child daily shower.</p>		<p><b>CONSUMPTION STATISTICS</b> The user can see consumption of water and energy statistic via app.</p>		<p><b>AUTOMATIC SHUT-OFF</b> Shower shuts off automatically after a limited period of time.</p>

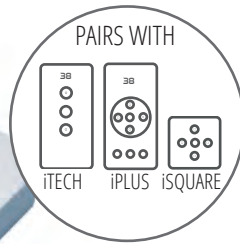
### ADVANTAGES

- **APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- **CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework. Cloud for OEM and cloud for final user.
- **OEM CUSTOMIZATION**
  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- **INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- **DETECTS SYSTEM & INSTALLATION WARNINGS**  
Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

# CPU ISCU TH S

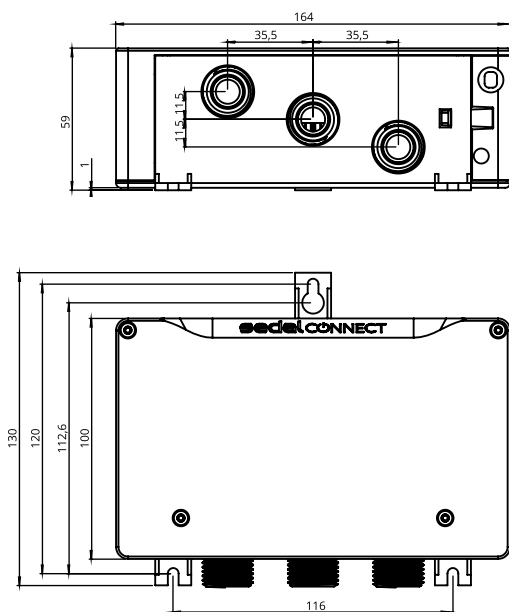
## THERMOSTATIC MIXER

REF. 27EV000015  
REF. 27EV000016 (WIFI)



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### DIMENSIONS



### RECOMMENDED APPLICATIONS



**SHOWERS**  
Recommended for eco-showers



**SHOWERS COLUMN**  
Specially designed for shower columns



**HOTELS**  
Recommended for hotels



**HOME**  
Suitable for simple showers at home



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

### CERTIFICATIONS



\* Ready for UL and NSF.

### TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<15W / Stand by <1W *1
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP53
Hydraulic connections	1/2" & 3/8" M-GAS, John Guest
Weight	0.4 Kg

Temperature	
Recommended Input hot water range	Min. 48°C - Max.65°C
Recommended Input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *2
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar

Flow rate (3 bar free flow with diverter DN13)	
Cold/ Hot water	Min. 2 l/min - Max. 13 l/min
Mix flow rate	Min. 2 l/min - Max. 24 l/min

\*1 without deviator (NC solenoid)

\*2 up to full hot temperature on OEM demand

# CPU ISCU TH S 2 OUTLETS

## THERMOSTATIC MIXER FOR SHOWERS

### DESCRIPTION

Summum One is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH S 2O is the thermostatic box with 2 outlets that controls the system.

### FEATURES & FUNCTIONS

	<p><b>OUTLET</b> Mixing box with one outlet and one additional outlet thanks to an external valve.</p>		<p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>		<p><b>SHOWER SEQUENCES</b> Customize and run water sequences combining temperature, flow, time and outlets.</p>		<p><b>LEAKAGE DETECTION</b> Summum detects small leakages of the system.</p>
	<p><b>CONNECTIVITY</b> Optional model with WIFI-bluetooth to control functionalities with an app</p>		<p><b>PAUSE</b> Remembers water temperature and flow that the user was using before shampooing.</p>		<p><b>SHOWER SET-UP</b> Set up parameters such as temperature, flow and time of your device.</p>		<p><b>ANTI-SCALDING</b> Anti-scalding safety warning when using the shower.</p>
	<p><b>THERMOSTATIC</b> Thermostatic functions allow water delivery at the desired temperature.</p>		<p><b>SUPER-ECO MODE</b> The system offers an Eco mode function to save water and energy.</p>		<p><b>USER PROFILES</b> Store preferred settings of temperature, flow and outlets for 3 different users.</p>		<p><b>THERMAL DISINFECTION</b> Thermal disinfection in all shower outlets.</p>
	<p><b>FLOWSTATIC</b> Flowstatic functions allow water delivery of the desired water quantity.</p>		<p><b>SMART BATH FILL</b> Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.</p>		<p><b>NORMALLY CLOSED</b> In case of power outage, the system closes automatically.</p>		<p><b>AUTO-CLEANING</b> Water is flushed through all outlets to avoid lime scale.</p>
	<p><b>START-UP</b> System learns environmental conditions during installation.</p>		<p><b>CHILDREN SAFETY</b> Set up temperature, flow, outlets and time desired for your child daily shower.</p>		<p><b>CONSUMPTION STATISTICS</b> The user can see consumption of water and energy statistic via app.</p>		<p><b>AUTOMATIC SHUT-OFF</b> Shower shuts off automatically after a limited period of time.</p>

### ADVANTAGES

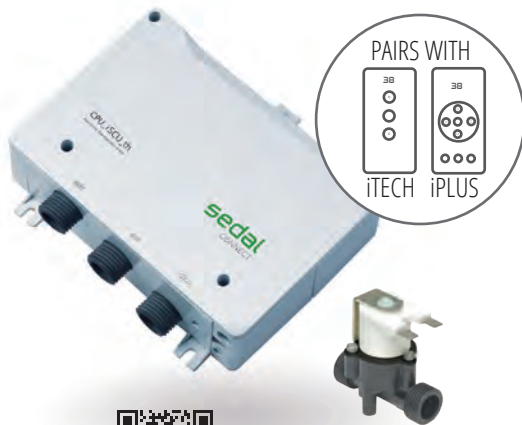
- **APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- **CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework. Cloud for OEM and cloud for final user.
- **OEM CUSTOMIZATION**
  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- **INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- **DETECTS SYSTEM & INSTALLATION WARNINGS**  
Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

# CPU ISCU TH S 20

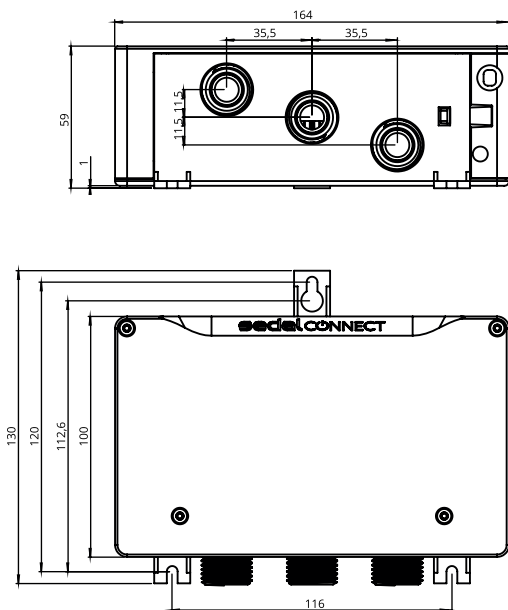
## THERMOSTATIC MIXER

REF. 27EV000022

REF. 27EV000024 (WIFI)



### DIMENSIONS



### RECOMMENDED APPLICATIONS



**SHOWERS**  
Recommended for eco-showers



**SHOWERS COLUMN**  
Specially designed for shower columns



**HOTELS**  
Recommended for hotels



**HOME**  
Suitable for showers at home



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

### CERTIFICATIONS



\* Ready for UL and NSF.

### TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<15W / Stand by <1W *1
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP53
Hydraulic connections	1/2" & 3/8" M-GAS, John Guest
Weight	0.4 Kg

Temperature	
Recommended Input hot water range	Min. 48°C - Max.65°C
Recommended Input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *2
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply (Durability) Burst	4.5 bar / >35 bar

Flow rate (3 bar free flow with diverter DN13)	
Cold/ Hot water	Min. 2 l/min - Max. 13 l/min
Mix flow rate	Min. 2 l/min - Max. 22 l/min

\*1 without deviator (NC solenoid)

\*2 up to full hot temperature on OEM demand

# CPU ISCU TH S 3 OUTLETS

## THERMOSTATIC MIXER FOR SHOWERS

### DESCRIPTION

Summum One is a smart system for showers consisting of a CPU electronic thermostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH S 30 is the thermostatic box with 3 outlets that controls the system.

### FEATURES & FUNCTIONS

	<p><b>OUTLET</b> Mixing box with one outlet and two additional outlets thanks to external valves.</p>		<p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>		<p><b>SHOWER SEQUENCES</b> Customize and run water sequences combining temperature, flow, time and outlets.</p>		<p><b>LEAKAGE DETECTION</b> Summum detects small leakages of the system.</p>
	<p><b>CONNECTIVITY</b> Optional model with WiFi-bluetooth to control functionalities with an app</p>		<p><b>PAUSE</b> Remembers water temperature and flow that the user was using before shampooing.</p>		<p><b>SHOWER SET-UP</b> Set up parameters such as temperature, flow and time of your device.</p>		<p><b>ANTI-SCALDING</b> Anti-scalding safety warning when using the shower.</p>
	<p><b>THERMOSTATIC</b> Thermostatic functions allow water delivery at the desired temperature.</p>		<p><b>SUPER-ECO MODE</b> The system offers an Eco mode function to save water and energy.</p>		<p><b>USER PROFILES</b> Store preferred settings of temperature, flow and outlets for 3 different users.</p>		<p><b>THERMAL DISINFECTION</b> Thermal disinfection in all shower outlets.</p>
	<p><b>FLOWSTATIC</b> Flowstatic functions allow water delivery of the desired water quantity.</p>		<p><b>SMART BATH FILL</b> Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.</p>		<p><b>NORMALLY CLOSED</b> In case of power outage, the system closes automatically.</p>		<p><b>AUTO-CLEANING</b> Water is flushed through all outlets to avoid lime scale.</p>
	<p><b>START-UP</b> System learns environmental conditions during installation.</p>		<p><b>CHILDREN SAFETY</b> Set up temperature, flow, outlets and time desired for your child daily shower.</p>		<p><b>CONSUMPTION STATISTICS</b> The user can see consumption of water and energy statistic via app.</p>		<p><b>AUTOMATIC SHUT-OFF</b> Shower shuts off automatically after a limited period of time.</p>

### ADVANTAGES

- APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework. Cloud for OEM and cloud for final user.
- OEM CUSTOMIZATION**

  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- DETECTS SYSTEM & INSTALLATION WARNINGS**  
Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

# CPU ISCU TH S 30

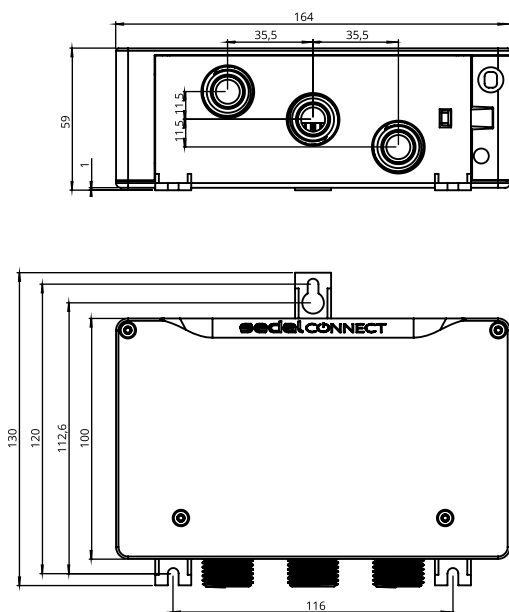
THERMOSTATIC MIXER

REF. 27EV000023

REF. 27EV000025 (WIFI)



## DIMENSIONS



## RECOMMENDED APPLICATIONS



**SHOWERS**  
Recommended for eco-showers



**SHOWERS COLUMN**  
Specially designed for shower columns



**HOTELS**  
Recommended for hotels



**HOME**  
Suitable for showers at home



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



\* Ready for UL and NSF.

## TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<15W / Stand by <1W *1
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP53
Hydraulic connections	1/2" & 3/8" M-GAS, John Guest
Weight	0.4 Kg

Temperature	
Recommended Input hot water range	Min. 48°C - Max.65°C
Recommended Input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *2
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply (Durability) Burst	4.5 bar / >35 bar

Flow rate (3 bar free flow with diverter DN13)	
Cold/ Hot water	Min. 2 l/min - Max. 13 l/min
Mix flow rate	Min. 2 l/min - Max. 22 l/min

\*1 without deviator (NC solenoid)

\*2 up to full hot temperature on OEM demand



# CPU IV2 2 OUTLETS

## THERMOSTATIC MIXER FOR SHOWERS

### DESCRIPTION

Summum is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU IV2 TH 2O is the thermostatic box with 2 outlets that controls the system.

### FEATURES & FUNCTIONS

	<p><b>OUTLET</b> Mixing box with two outlets.</p>		<p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>		<p><b>SHOWER SEQUENCES</b> Customize and run water sequences combining temperature, flow, time and outlets.</p>		<p><b>LEAKAGE DETECTION</b> Summum detects small leakages of the system.</p>
	<p><b>CONNECTIVITY</b> Optional model with WIFI-bluetooth to control functionalities with an app</p>		<p><b>PAUSE</b> Remembers water temperature and flow that the user was using before shampooing.</p>		<p><b>SHOWER SET-UP</b> Set up parameters such as temperature, flow and time of your device.</p>		<p><b>ANTI-SCALDING</b> Anti-scalding safety warning when using the shower.</p>
	<p><b>THERMOSTATIC</b> Thermostatic functions allow water delivery at the desired temperature.</p>		<p><b>ECO MODE</b> The system offers an Eco mode function to save water and energy.</p>		<p><b>USER PROFILES</b> Store preferred settings of temperature, flow and outlets for 3 different users.</p>		<p><b>THERMAL DISINFECTION</b> Thermal disinfection in all shower outlets.</p>
	<p><b>FLOWSTATIC</b> Flowstatic functions allow water delivery of the desired water quantity.</p>		<p><b>SMART BATH FILL</b> Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.</p>		<p><b>NORMALLY CLOSED</b> In case of power outage, the system closes automatically.</p>		<p><b>AUTO-CLEANING</b> Water is flushed through all outlets to avoid lime scale.</p>
	<p><b>START-UP</b> System learns environmental conditions during installation.</p>		<p><b>CHILDREN SAFETY</b> Set up temperature, flow, outlets and time desired for your child daily shower.</p>		<p><b>CONSUMPTION STATISTICS</b> The user can see consumption of water and energy statistic via app.</p>		<p><b>AUTOMATIC SHUT-OFF</b> Shower shuts off automatically after a limited period of time.</p>

### ADVANTAGES

- **APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- **CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework
- **OEM CUSTOMIZATION**
  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- **INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- **PRESSURE BALANCING BEHAVIOUR**  
It incorporates an intelligent auto-calibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.
- **DETECTS SYSTEM & INSTALLATION WARNINGS**  
Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

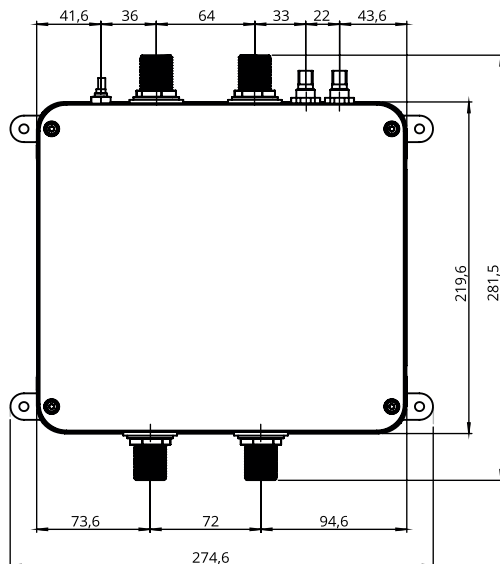
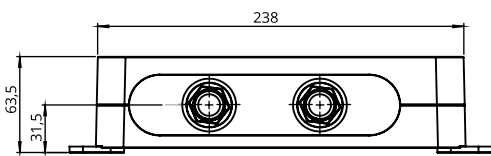
# CPU IV2 20

## THERMOSTATIC MIXER

REF. 27EV000006



### DIMENSIONS



### RECOMMENDED APPLICATIONS



**SHOWERS**  
Specially designed for showers



**HOME**  
Suitable for showers at home



**HOTELS**  
Recommended for hotels



**SPA**  
Suitable for spas and dressing rooms



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

### CERTIFICATIONS



\* Ready for KTW, NSF and UL.

### TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<36W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP54
Hydraulic connections	1/2" M-GAS
Weight	1.5-2 Kg

Temperature	
Recommended input hot water range	Min.48°C - Max.65°C
Recommended input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow)	
Cold/ Hot water	Min. 6 l/min - Max. 16.2 l/min
Maximum differential supply	Min. 6 l/min - Max. 22.1 l/min

\*1 up to full hot temperature on OEM demand

# CPU IV2 3 OUTLETS

## THERMOSTATIC MIXER FOR SHOWERS

### DESCRIPTION

Summum is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU IV2 TH 3O is the thermostatic box with 3 outlets that controls the system.

### FEATURES & FUNCTIONS



#### OUTLET

Mixing box with three outlets.



#### WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



#### SHOWER SEQUENCES

Customize and run water sequences combining temperature, flow, time and outlets.



#### LEAKAGE DETECTION

Summum detects small leakages of the system.



#### CONNECTIVITY

Optional model with WiFi-bluetooth to control functionalities with an app



#### PAUSE

Remembers water temperature and flow that the user was using before shampooing.



#### SHOWER SET-UP

Set up parameters such as temperature, flow and time of your device.



#### ANTI-SCALDING

Anti-scalding safety warning when using the shower.



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### ECO MODE

The system offers an Eco mode function to save water and energy.



#### USER PROFILES

Store preferred settings of temperature, flow and outlets for 3 different users.



#### THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



#### FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



#### SMART BATH FILL

Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.



#### NORMALLY CLOSED

In case of power outage, the system closes automatically.



#### AUTO-CLEANING

Water is flushed through all outlets to avoid lime scale.



#### START-UP

System learns environmental conditions during installation.



#### CHILDREN SAFETY

Set up temperature, flow, outlets and time desired for your child daily shower.



#### CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



#### AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

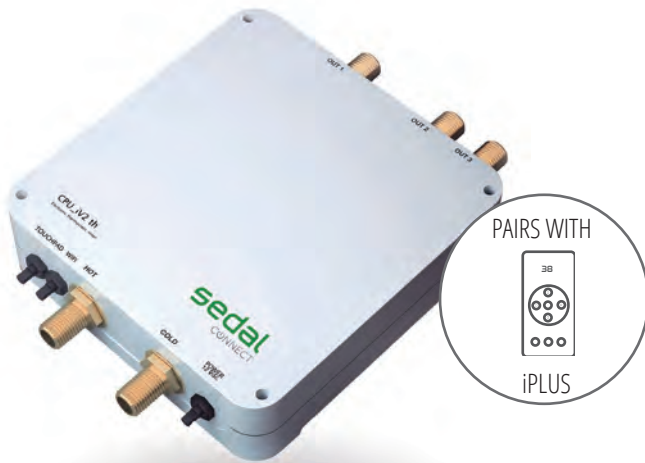
### ADVANTAGES

- **APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- **CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework
- **OEM CUSTOMIZATION**
  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- **INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- **PRESSURE BALANCING BEHAVIOUR**  
It incorporates an intelligent auto-callibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.
- **DETECTS SYSTEM & INSTALLATION WARNINGS**  
Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

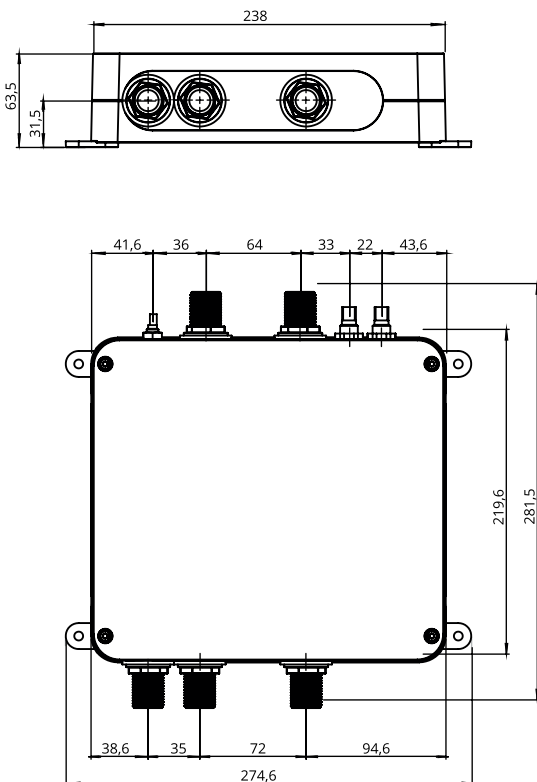
# CPU IV2 30

## THERMOSTATIC MIXER

REF. 27EV000007



### DIMENSIONS



### RECOMMENDED APPLICATIONS



**SHOWERS**  
Specially designed for showers



**HOME**  
Suitable for showers at home



**HOTELS**  
Recommended for hotels



**SPA**  
Suitable for spas and dressing rooms



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

### CERTIFICATIONS



\* Ready for KTW, NSF and UL.

### TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<36W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP54
Hydraulic connections	1/2" M-GAS
Weight	1.5-2 Kg

Temperature	
Recommended input hot water range	Min.48°C - Max.65°C
Recommended input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow)	
Cold/ Hot water	Min. 6 l/min - Max. 16.2 l/min
Maximum differential supply	Min. 6 l/min - Max. 22.1 l/min

\*1 up to full hot temperature on OEM demand

# CPU IV2 4 OUTLETS

## THERMOSTATIC MIXER FOR SHOWERS

### DESCRIPTION

Summum is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU IV2 TH 4O is the thermostatic box with 4 outlets that controls the system.

### FEATURES & FUNCTIONS

	<p><b>OUTLET</b> Mixing box with four outlets</p>		<p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>		<p><b>SHOWER SEQUENCES</b> Customize and run water sequences combining temperature, flow, time and outlets.</p>		<p><b>LEAKAGE DETECTION</b> Summum detects small leakages of the system.</p>
	<p><b>CONNECTIVITY</b> Optional model with WIFI-bluetooth to control functionalities with an app</p>		<p><b>PAUSE</b> Remembers water temperature and flow that the user was using before shampooing.</p>		<p><b>SHOWER SET-UP</b> Set up parameters such as temperature, flow and time of your device.</p>		<p><b>ANTI-SCALDING</b> Anti-scalding safety warning when using the shower.</p>
	<p><b>THERMOSTATIC</b> Thermostatic functions allow water delivery at the desired temperature.</p>		<p><b>ECO MODE</b> The system offers an Eco mode function to save water and energy.</p>		<p><b>USER PROFILES</b> Store preferred settings of temperature, flow and outlets for 3 different users.</p>		<p><b>THERMAL DISINFECTION</b> Thermal disinfection in all shower outlets.</p>
	<p><b>FLOWSTATIC</b> Flowstatic functions allow water delivery of the desired water quantity.</p>		<p><b>SMART BATH FILL</b> Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.</p>		<p><b>NORMALLY CLOSED</b> In case of power outage, the system closes automatically.</p>		<p><b>AUTO-CLEANING</b> Water is flushed through all outlets to avoid lime scale.</p>
	<p><b>START-UP</b> System learns environmental conditions during installation.</p>		<p><b>CHILDREN SAFETY</b> Set up temperature, flow, outlets and time desired for your child daily shower.</p>		<p><b>CONSUMPTION STATISTICS</b> The user can see consumption of water and energy statistic via app.</p>		<p><b>AUTOMATIC SHUT-OFF</b> Shower shuts off automatically after a limited period of time.</p>

### ADVANTAGES

- APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework
- OEM CUSTOMIZATION**

  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- PRESSURE BALANCING BEHAVIOUR**  
It incorporates an intelligent auto-callibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.
- DETECTS SYSTEM & INSTALLATION WARNINGS**  
Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

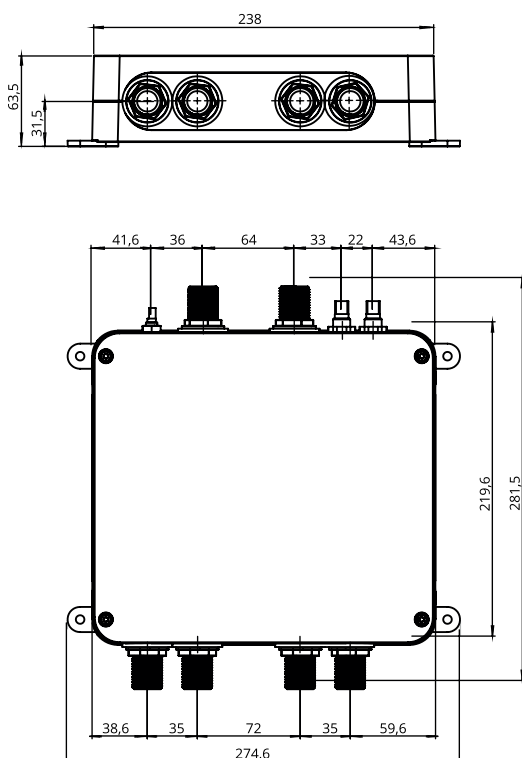
# CPU IV2 40

## THERMOSTATIC MIXER

REF. 27EV000008



### DIMENSIONS



### RECOMMENDED APPLICATIONS



#### SHOWERS

Specially designed for showers



#### HOME

Suitable for showers at home



#### HOTELS

Recommended for hotels



#### SPA

Suitable for spas and dressing rooms



#### PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

### CERTIFICATIONS



\* Ready for KTW, NSF and UL.

### TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<36W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP54
Hydraulic connections	1/2" M-GAS
Weight	1.5-2 Kg

Temperature	
Recommended input hot water range	Min.48°C - Max.65°C
Recommended input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow)	
Cold/ Hot water	Min. 6 l/min - Max. 16.2 l/min
Maximum differential supply	Min. 6 l/min - Max. 22.1 l/min

\*1 up to full hot temperature on OEM demand



# iSQUARE S

## INTERFACE FOR SHOWERS

### DESCRIPTION

iSquare is a minimalist touchpad with water temperature and flow rate control thanks to simple or continued touches.

### FEATURES & FUNCTIONS



#### OUTLET

Touchpad prepared to work with one outlet.



#### TEMPERATURE CONTROL

The user can control the water temperature.



#### PAUSE

Remembers water temperature and flow that the user was using before.



#### THERMAL DISINFECTION

Flowstatic functions allow water delivery of the desired water quantity.



#### START-UP

System learns environmental conditions during installation.



#### FLOW CONTROL

The user can control the water flow.



#### MEMORY SETTING

Special lighting when setting the memory.

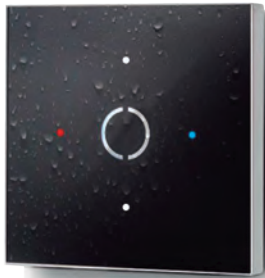
### ADVANTAGES

- **WATERPROOF TOUCH TECHNOLOGIES**  
Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water. The manufacturer can select one touchpad and combine with its preferred thermostatic mixer.
- **DESIGN AND ADAPTABILITY**
  - Functional configurations
  - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)
- **RELIABLE AND PRECISE**
  - Suppression of interferences
  - Precise and intuitive touch commutation
- **CUSTOMIZABLE PANELS**  
Customizable panels to reach customer needs according requirements.
- **ROBUST AND DURABLE**
  - Resistance in harsh environments
  - Water-resistance devices
  - Usage-protected graphs

# ISQUARE S

INTERFACE

REF. 27EI000029



DOWNLOAD DATA SHEET

Polycarbonate colors  
Trim finishes



## RECOMMENDED APPLICATIONS



**SHOWERS**  
Specially designed for showers



**HOME**  
Suitable for simple showers at home



**HOTELS**  
Recommended for hotels



**SPA**  
Suitable for spas and dressing rooms



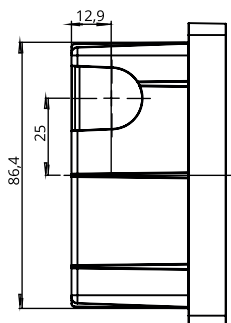
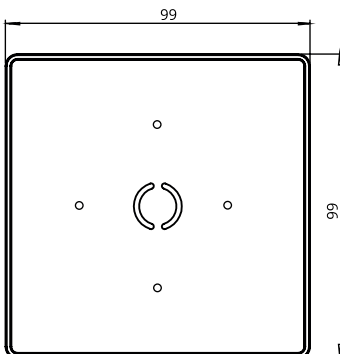
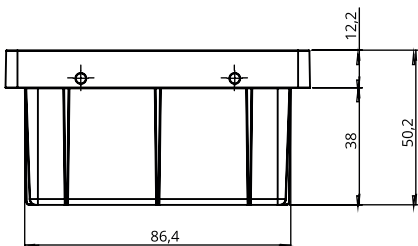
**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



\* Ready for UL.

## DIMENSIONS



## TECHNICAL SPECIFICATIONS

### Control

Temperature

Flow rate

### Functions

Pause

Warm-up

Start-up program

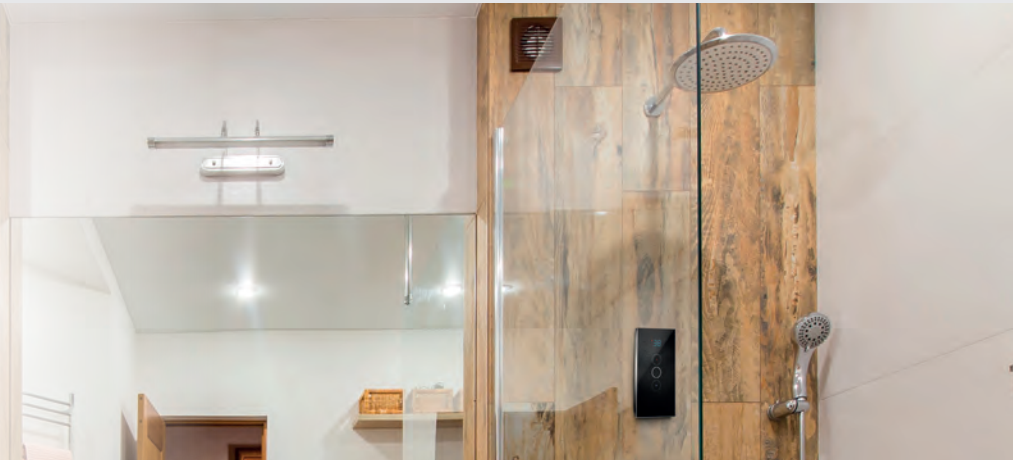
Thermal disinfection

# ITECH




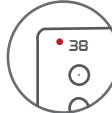




## INTERFACE FOR SHOWERS

### DESCRIPTION

Rectangular touchpad with anti-scratch and water-proof surface. Easy intuitive interface to select temperature at fixed flow. Different water outlets can be activated with a single button.



### FEATURES & FUNCTIONS

	<p><b>OUTLET</b> Touchpad can change between 2 outlets.</p>		<p><b>TEMPERATURE CONTROL</b> The user can control the water temperature.</p>		<p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>		<p><b>WARNING</b> Anti-scalding safety warning when using the shower.</p>
	<p><b>START-UP</b> System learns environmental conditions during installation.</p>		<p><b>PAUSE</b> Remembers water temperature and flow that the user was using before.</p>		<p><b>MEMORY SETTING</b> Special lighting when setting the memory.</p>		<p><b>ALARMS</b> iTech touchpad displays warnings and alarms.</p>

### ADVANTAGES

- **WATERPROOF TOUCH TECHNOLOGIES**  
Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water. The manufacturer can select one touchpad and combine with its preferred thermostatic mixer.
- **DESIGN AND ADAPTABILITY**
  - Functional configurations
  - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)
- **RELIABLE AND PRECISE**
  - Suppression of interferences
  - Precise and intuitive touch commutation
- **CUSTOMIZABLE PANELS**  
Customizable panels to reach customer needs according requirements.
- **ROBUST AND DURABLE**
  - Resistance in harsh environments
  - Water-resistance devices
  - Usage-protected graphs

**ITECH**  
INTERFACE  
REF. 27E1000004

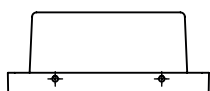
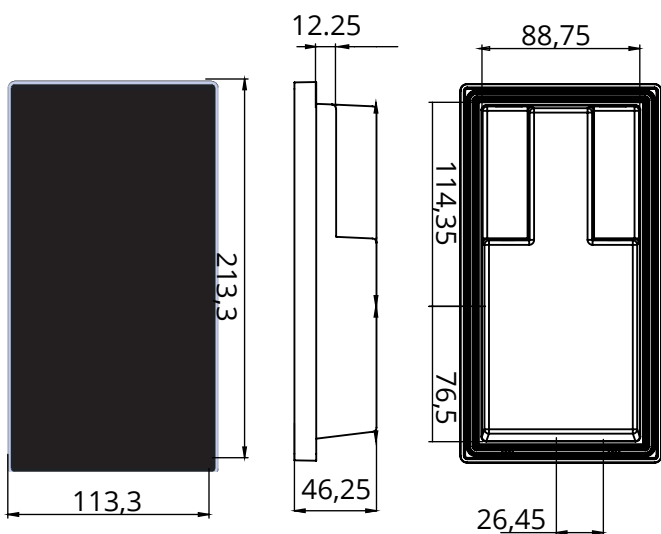


DOWNLOAD  
DATA SHEET

Polycarbonate colors  
Trim finishes



**DIMENSIONS**



**RECOMMENDED APPLICATIONS**



**SHOWERS**  
Specially designed for showers



**HOME**  
Suitable for showers at home



**HOTELS**  
Recommended for hotels



**SPA**  
Suitable for spas and dressing rooms



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

**CERTIFICATIONS**



\* Ready for UL.

**TECHNICAL SPECIFICATIONS**

**Control**

Flow rate  
1 to 2 outlets  
User memory (initial user)

**Functions**

Pause  
Reset  
Warm-up  
Start-up program

**Maintenance alarms and error diagnosis**

Cold and hot water leakage  
Cold and hot water failure  
Insufficient hot water temperature  
Cold water temperature high  
Temperature malfunction  
Communication error













# IPLUS

## INTERFACE FOR SHOWERS

### DESCRIPTION

Rectangular touchpad with anti-scratch and water-proof surface. It includes a complete interface with water and temperature control along with multiple outlet selection.

### FEATURES & FUNCTIONS

 <p><b>OUTLET</b> Touchpad can change between 3 outlets.</p>	 <p><b>PAUSE</b> Remembers water temperature and flow that the user was using before.</p>	 <p><b>USER PROFILES</b> Store preferred settings of temperature, flow and outlets for 3 different users.</p>	 <p><b>ALARMS</b> iPlus touchpad displays warnings and alarms.</p>
 <p><b>TEMPERATURE CONTROL</b> The user can control the water temperature.</p>	 <p><b>WARM-UP</b> Preheats the shower by flushing out water until the desired pre-set temperature is reached.</p>	 <p><b>MEMORY SETTING</b> Special lighting when setting the memory.</p>	 <p><b>THERMAL DISINFECTION</b> Thermal disinfection in all shower outlets.</p>
 <p><b>FLOW CONTROL</b> The user can control the water flow.</p>	 <p><b>START-UP</b> System learns environmental conditions during installation.</p>	 <p><b>WARNING</b> Anti-scalding safety warning when using the shower.</p>	 <p><b>AUTO-CLEANING</b> Water is flushed through all outlets to avoid lime scale.</p>

### ADVANTAGES

- **WATERPROOF TOUCH TECHNOLOGIES**  
Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water. The manufacturer can select one touchpad and combine with its preferred thermostatic mixer.
- **DESIGN AND ADAPTABILITY**
  - Functional configurations
  - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)
- **RELIABLE AND PRECISE**
  - Suppression of interferences
  - Precise and intuitive touch commutation
- **CUSTOMIZABLE PANELS**  
Customizable panels to reach customer needs according requirements.
- **ROBUST AND DURABLE**
  - Resistance in harsh environments
  - Water-resistance devices
  - Usage-protected graphs

# IPLUS

INTERFACE

REF. 27E1000005

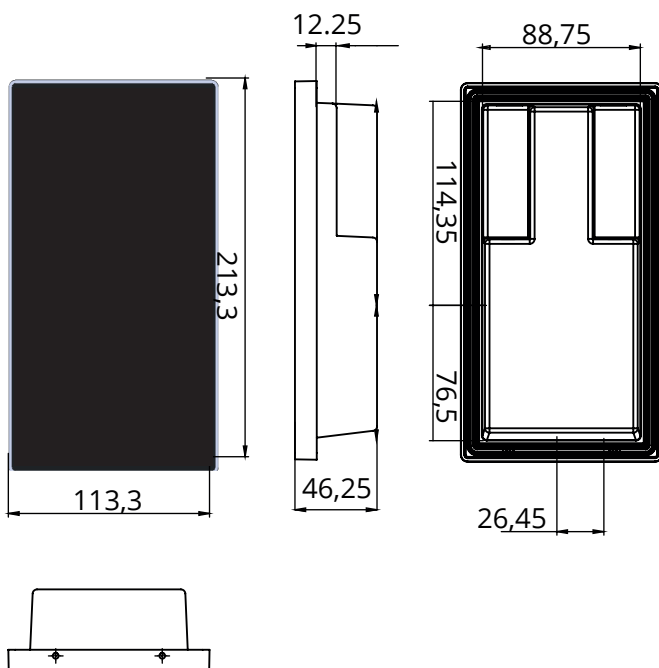


DOWNLOAD DATA SHEET

Polycarbonate colors  
Trim finishes



## DIMENSIONS



## RECOMMENDED APPLICATIONS



**SHOWERS**  
Specially designed for showers



**HOME**  
Suitable for showers at home



**HOTELS**  
Recommended for hotels



**SPA**  
Suitable for spas and dressing rooms



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



\* Ready for UL.

## TECHNICAL SPECIFICATIONS

### Control

Temperature  
Flow rate  
1 to 3 outlets  
User memory (initial user + 3 users)

### Functions

Pause  
Touchpad blocking function  
Reset  
Warm-up  
Start-up program

### Maintenance programs

Cleaning of impurities  
Cleaning against legionella

### Maintenance alarms and error diagnosis

Cold and hot water leakage  
Cold and hot water failure  
Insufficient hot water temperature  
Cold water temperature high  
Temperature malfunction  
Communication error



# DIGITAP

*DIGITAL  
FAUCET  
SYSTEMS*

**digitap**



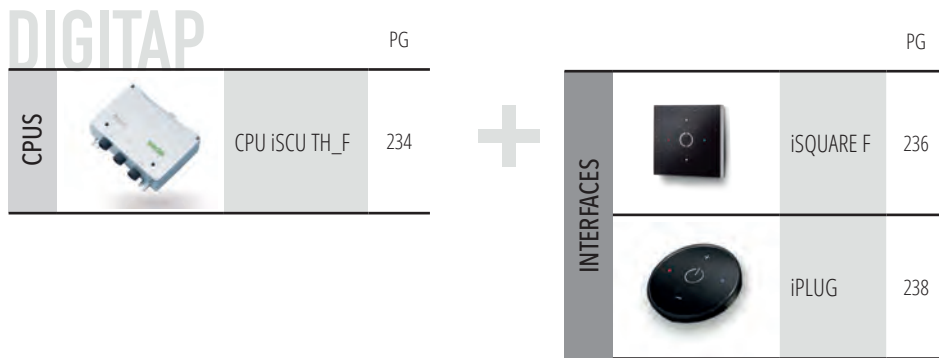


# DIGITAP · DIGITAL FAUCET SYSTEMS

DIGITAP consists of a iSCU\_TH\_F valve combined with one of our touchpads: iSQUARE, PLUG or iHANDLE. These systems are specially designed to make it easier for the manufacturer to adopt new technologies into its products.

Digitap has no mechanical parts, small electric motors or other similar pieces that need to be recalibrated or replaced, lengthening the product life.

Digitap range includes wall-mounted and counter-top touchpads, retrofit interfaces and customized solutions to fulfill manufacturers requirements.



# CPU ISCU TH F

## THERMOSTATIC MIXER FOR FAUCETS

### DESCRIPTION

Digitap is an smart system for faucets consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH F is the thermostatic box that controls the system.

### FEATURES & FUNCTIONS



#### CONNECTIVITY

Optional model with WiFi-bluetooth to control functionalities with an app



#### SMART AUTO DISPENSING FUNCTION

Tooth brush function or automatic water fill.



#### FAUCET SET-UP

Set up parameters such as temperature, flow and time of your device.



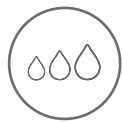
#### LEAKAGE DETECTION

Summum detects small leakages of the system.



#### THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



#### FLOW RATE QUICK-ACCESS

Mixed water memory at high flow and low flow with a button.



#### NORMALLY CLOSED

In case of power outage, the system closes automatically.



#### THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



#### FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



#### PAUSE

Remembers water temperature and flow that the user was using before shampooing.



#### CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



#### AUTO-CLEANING

Water is flushed through all outlets to avoid lime scale.



#### START-UP

System learns environmental conditions during installation.



#### SUPER-ECO MODE

The system offers an Eco mode function to save water and energy.



#### ANTI-SCALDING

Anti-scalding safety warning when using the faucet.



#### AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

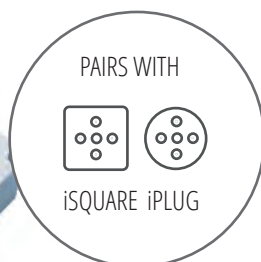
### ADVANTAGES

- **APP SPECIAL FUNCTIONS ACTIVATION**  
The app allows set and run the functionalities of the system.
- **CLOUD SERVICE**  
The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework
- **OEM CUSTOMIZATION**
  - Pre-defined settings available under customer requirements
  - Tailor made APP layout according to OEM specifications.
- **INTELLIGENT MIXING VALVES**  
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.
- **PRESSURE BALANCING BEHAVIOUR**  
It incorporates an intelligent auto-calibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.
- **DETECTS SYSTEM & INSTALLATION WARNINGS**  
Digitap provides error detection and maintenance alarms, which remain stored in memory for report generation.

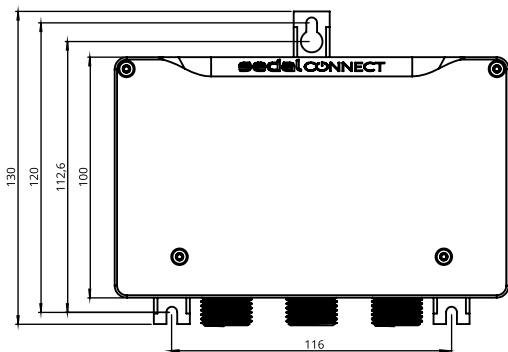
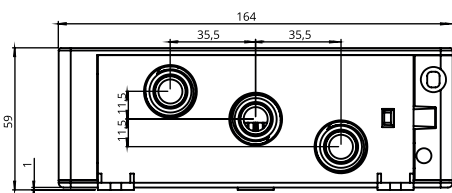
# CPU ISCU TH F

## THERMOSTATIC MIXER

REF. 27EV000018  
REF. 27EV000019 (WIFI)



### DIMENSIONS



### RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins



**HOME**  
Suitable for faucets at home



**HOTELS**  
Recommended for hotels



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

### CERTIFICATIONS



\* Ready for UL, and NSF.

### TECHNICAL SPECIFICATIONS

General	
Technology	Patented
Maximum load	<15W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP53
Hydraulic connections	1/2" & 3/8" M-GAS, John Guest
Weight	0.4 Kg

Temperature	
Recommended input hot water range	Min. 48°C - Max.65°C
Recommended input cold water range	Min.5°C - Max.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow)	
Cold/ Hot water	Min. 2 l/min - Max. 12 l/min
Mix flow rate	Min. 2 l/min - Max. 22 l/min

\*1 Up to 80°C less than 20 min.

# ISQUARE

## INTERFACE FOR FAUCETS

### DESCRIPTION

Digitap iSquare is a minimalist touchpad with water temperature and flow rate control thanks to simple or continued touches.



### FEATURES & FUNCTIONS



#### TEMPERATURE CONTROL

The user can control the water temperature.



#### START-UP

System learns environmental conditions during installation.



#### SMART AUTO DISPENSING FUNCTION

Automatic water fill of a glass.



#### MEMORY SETTING

Special lighting when setting the memory.



#### FLOW CONTROL

The user can control the water flow.



#### PAUSE

Remembers water temperature and flow that the user was using before.



#### FLOW RATE QUICK-ACCESS

Mixed water memory at high flow and low flow with a button.



#### THERMAL DISINFECTION

Flowstatic functions allow water delivery of the desired water quantity.

### ADVANTAGES

- **WATERPROOF TOUCH TECHNOLOGIES**  
Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water. The manufacturer can select one interface and customize some of their features.
- **DESIGN AND ADAPTABILITY**
  - Functional configurations
  - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)
- **RELIABLE AND PRECISE**
  - Suppression of interferences
  - Precise and intuitive touch commutation
- **CUSTOMIZABLE PANELS**  
Customizable panels to reach customer needs according requirements.
- **ROBUST AND DURABLE**
  - Resistance in harsh environments
  - Water-resistance devices
  - Usage-protected graphs

# ISQUARE F

INTERFACE

REF. 27EI000025



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DATA SHEET

Polycarbonate colors  
Trim finishes



## RECOMMENDED APPLICATIONS



### WASHBASINS

Specially designed for washbasins



### HOME

Suitable for faucets at home



### HOTELS

Reccomended for hotels



### PUBLIC VENUES

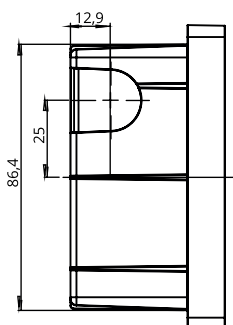
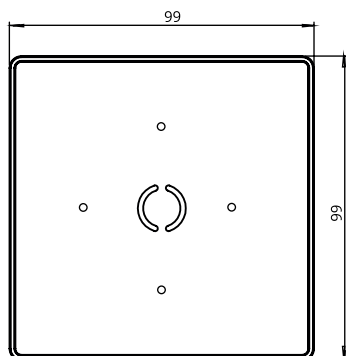
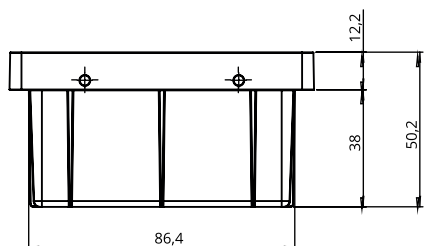
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



\* Ready for UL.

## DIMENSIONS



## TECHNICAL SPECIFICATIONS

### Control

Temperature

Flow rate

### Functions

Pause

Start-up program

Thermal disinfection

Smart glass fill

Flow rate quick access



# DIGITAP INTERFACE

## IPLUG

### DESCRIPTION

Digitap iPlug is a minimalist interface with water temperature and flow rate control thanks to simple or continued touches.



### FEATURES & FUNCTIONS



#### TEMPERATURE CONTROL

The user can control the water temperature.



#### START-UP

System learns environmental conditions during installation.



#### SMART AUTO DISPENSING FUNCTION

Automatic water fill of a glass.



#### MEMORY SETTING

Special lighting when setting the memory.



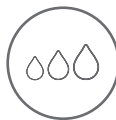
#### FLOW CONTROL

The user can control the water flow.



#### PAUSE

Remembers water temperature and flow that the user was using before.



#### FLOW RATE QUICK-ACCESS

Mixed water memory at high flow and low flow with a button.



#### THERMAL DISINFECTION

Flowstatic functions allow water delivery of the desired water quantity.

### ADVANTAGES

- **WATERPROOF TOUCH TECHNOLOGIES**  
Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water. The manufacturer can select one interface and customize some of their features..
- **DESIGN AND ADAPTABILITY**
  - Functional configurations
  - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)
- **RELIABLE AND PRECISE**
  - Suppression of interferences
  - Precise and intuitive commutation
- **CUSTOMIZABLE PANELS**  
Customizable panels to reach customer needs according requirements.
- **ROBUST AND DURABLE**
  - Resistance in harsh environments
  - Water-resistance devices
  - Usage-protected graphs

# DIGITAP iPLUG

REF. 27E1000026



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DATA SHEET

Polycarbonate colors  
Trim finishes



## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins



**HOME**  
Suitable for faucets at home



**HOTELS**  
Recommened for hotels



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

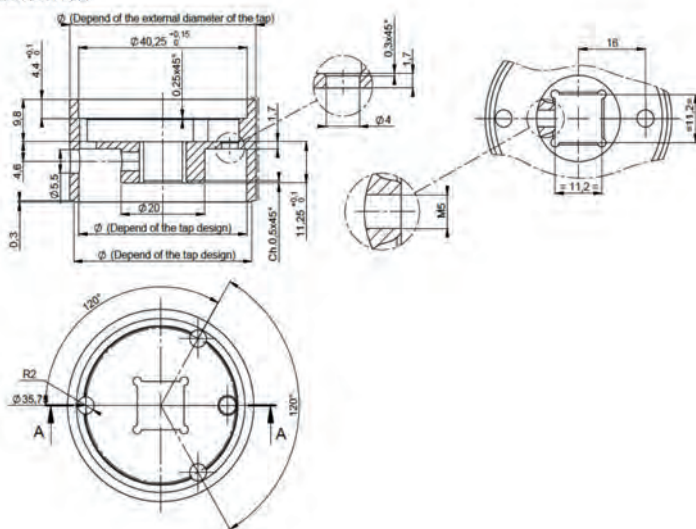
## CERTIFICATIONS



\* Ready for UL.

## DIMENSIONS

SECTION A-A



## TECHNICAL SPECIFICATIONS

### Control

Temperature  
Flow rate

### Functions

Pause  
Start-up program  
Thermal disinfection  
Smart glass fill  
Flow rate quick access



# HYDRON

*ELECTRONIC  
COMMERCIAL  
WATER SYSTEMS*

HYDRON








# HYDRON · ELECTRONIC COMMERCIAL WATER SYSTEMS

Hydron is a range of electronic systems including infrared and capacitive technology for commercial and hospitality applications.

Touchless operation with infrared sensors or activate a touch sensitive faucet with a slight touch of an arm help reduce germs and bacteria contamination.

Built-in filters to avoid impurities that could affect water flow and performance. Valves are protected by an IP65 casing to resist thorough facility cleaning.

Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.

HYDRON		PG	
CONTROL BOX		SENSE	242
		DUAL SENSE	244
		iRED	246
		iRED+	248
		iRED-PRO	250



		PG	
INFRARED SENSORS		S1	252
		S2	252
		S3	252
		S4	252
		S5	252
		S6	252
		S7	252
		S8	252
		S9	252

# HYDRON SENSE

## DESCRIPTION

---

Electronic system for faucets including sensor technology.

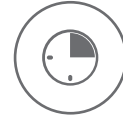
## FEATURES

---



### ECO MODE

The system saves water thanks to its automatic shut-off.



### AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



### CAPACITIVE

A simple touch anywhere on the body faucet activates the flow of water.

## ADVANTAGES

---

- *SIMPLE TOUCH*  
A simple touch anywhere on the body faucet activates the flow of water, allowing the user to have higher freedom of movements.
- *EASY MAINTENANCE*  
Built-in filter to avoid impurities which could affect the proper water flow.
- *SELF-ADJUSTING*  
Self-adjusting to its installation environment.

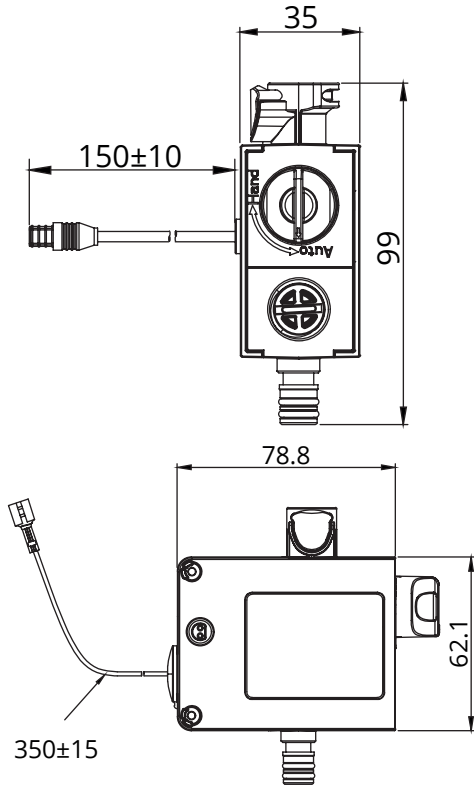
# HYDRON SENSE

REF. 27ES000007



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## DIMENSIONS



## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.



**HOME**  
Suitable for faucets at home



**HOTELS**  
Recommened for hotels



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	
Voltage supply	DC 6V
Working pressure	1 -7 bar
Pressure resistance closed (1 min.)	35 bar
Life test	500,000 cycle
Max. hot water	55°C
Flow rate (RhA)	8 l/min
Sensor activation time	<1 s
Protection against intrusion (control box)	IP 65
Power consumption (stand by)	<0.5 mW
Power consumption (flushing)	<3W
Water saving function	Auto off adjustable (factory setting 1 min)
Thread	Quick fitting
Battery type (not included)	4 X AA 1.5V



# HYDRON

## DUAL SENSE

### DESCRIPTION

Electronic system for kitchen faucets including sensor technology. The faucet will open and close with a simple touch and the user will be able to set desired temperature and flow thanks to the handle.

### ADVANTAGES

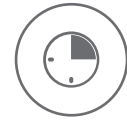


### FEATURES



#### ECO MODE

The system saves water thanks to its automatic shut-off.



#### AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



#### CAPACITIVE

A simple touch anywhere on the body faucet activates the flow of water.

- *TOUCH EXPERIENCE*  
With a simple touch on the spout or the body you will open and close the faucet and dispense water. Single lever equipped with a second sensor which ensures mechanical cartridge priority.
- *COMBINATION OF TECHNOLOGIES*  
Digital technology combined with a mechanical cartridge to allow push and pull movements. In addition, like SENSE model, it adapts itself to the installation environment and has two built-in filters.
- *EASY TO USE*  
New features without any learning curve.
- *MANUAL OPENING BUTTON*  
In case of electric power supply failure, the user can open manually the faucet by pushing the button on the box.
- *EMERGENCY SHUT-OFF*  
In case of electric power supply failure the device will auto shut-off all valves.

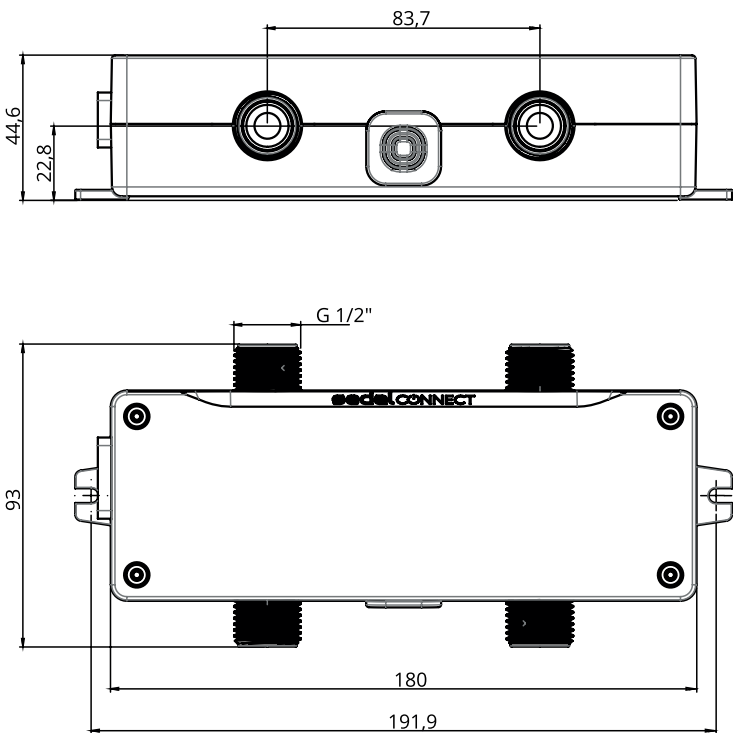
# HYDRON

## DUAL SENSE

REF. 27EV000026



### DIMENSIONS



### RECOMMENDED APPLICATIONS

<p><b>KITCHENS</b> Specially designed for kitchens</p>	<p><b>HOME</b> Suitable for faucets at home</p>
<p><b>HOTELS</b> Recommened for hotels</p>	<p><b>PUBLIC VENUES</b> Suitable for airports, schools, libraries, etc.</p>

### CERTIFICATIONS



### TECHNICAL SPECIFICATIONS

General	
Voltage supply	DC 6V
Working pressure	1 -7 bar
Pressure resistance closed (1 min.)	35 bar
Life test	500,000 cycle
Max. hot water	55°C
Flow rate (RhA)	8 l/min
Sensor activation time	<1 s
Power consumption (stand by)	<0.5 mW
Power consumption (flushing)	<10W
Water saving function	Auto off adjustable (factory setting 30 min)
Thread	Quick fitting
Battery type (not included)	4 X AA 1.5V

# HYDRON

## IRED

### DESCRIPTION

---

Electronic system for faucets including sensor technology.

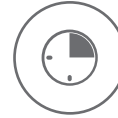
### FEATURES

---



#### ECO MODE

The system saves water thanks to its automatic shut-off.



#### AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



#### INFRA-RED

System activates thanks to an infra-red sensor.

### ADVANTAGES

---

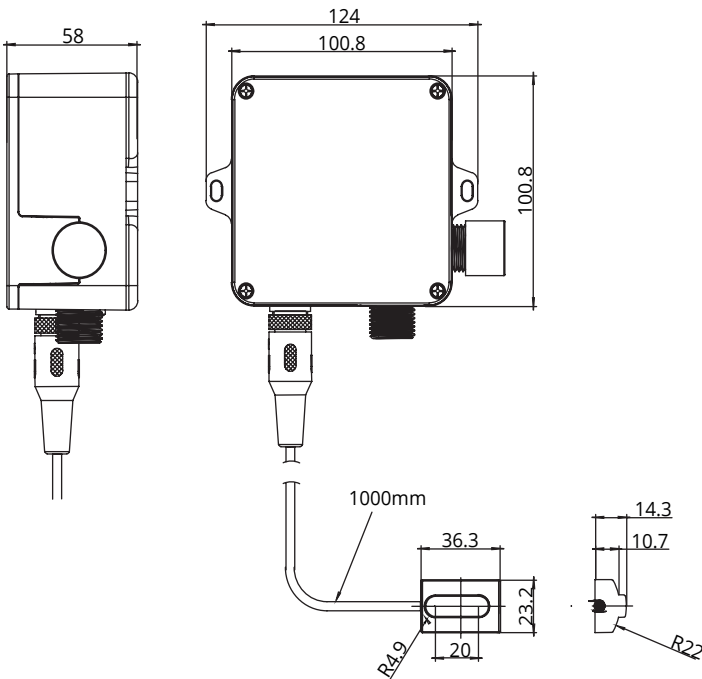
- *WATER SAVING*  
Infra-red sensor activation with automatic shut-off time which can be customized.
- *CLEAN&HYGIENIC*  
Faucet activation is done by entering the hand into the sensor zone.
- *RELIABILITY*  
Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.
- *EASY MAINTENANCE*  
Built-in filter to avoid impurities which could affect the proper water flow.
- *VERSIONS*  
All models are available with battery and/ or power supply.

# HYDRON *iRED*

REF. 27ES000001 (DC)  
REF. 27ES000002 (AC)  
REF. 27ES000003 (AC+DC)



## DIMENSIONS



## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.



**HOME**  
Suitable for faucets at home



**HOTELS**  
Recommened for hotels



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	
Voltage supply	DC-6V and/or AC: 230V (50Hz) / 110-120 (60Hz)
Working pressure	1-7 bar
Pressure resistance closed (1 min.)	35
Life test	500,000 cycles
Max. hot water	75°C
Flow rate (RhA)	10.8 l/min
Sensor activation time	<1s
Protection against intrusion (control box)	IP 65
Protection against intrusion (sensor)	IP 67
Sensor detection distance	<35 cm
Power consumption (stand by)	AC <4W DC <0.2mW
Power consumption (flushing)	AC <5W DC <3W
Water saving function	Auto off adjustable up to 1 min.
Thread	G1/2-14
Battery type (not included)	4xAA 1.5V
Sensor detection angle	15° (conical)

# HYDRON

## IRED +

### DESCRIPTION

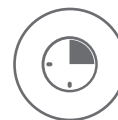
Electronic system for faucets including sensor technology.

### FEATURES



#### ECO MODE

The system saves water thanks to its automatic shut-off.



#### AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



#### INFRA-RED

System activates thanks to an infra-red sensor.



#### SELF-ADJUSTING

Self-adjusting feature to set the distance between the infra-red sensor and the user.

### ADVANTAGES

- *WATER SAVING*  
Infra-red sensor activation with automatic shut-off time which can be customized.
- *CLEAN & HYGIENIC*  
Faucet activation is done by entering the hand into the sensor zone.
- *RELIABILITY*  
Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.
- *EASY MAINTENANCE*  
Built-in filter to avoid impurities which could affect the proper water flow.
- *VERSIONS*  
All models are available with battery and/ or power supply.
- *SELF-ADJUSTING*  
HYDRON i-RED+ system also includes self-adjusting feature to set the distance between the infra-red sensor and the user.

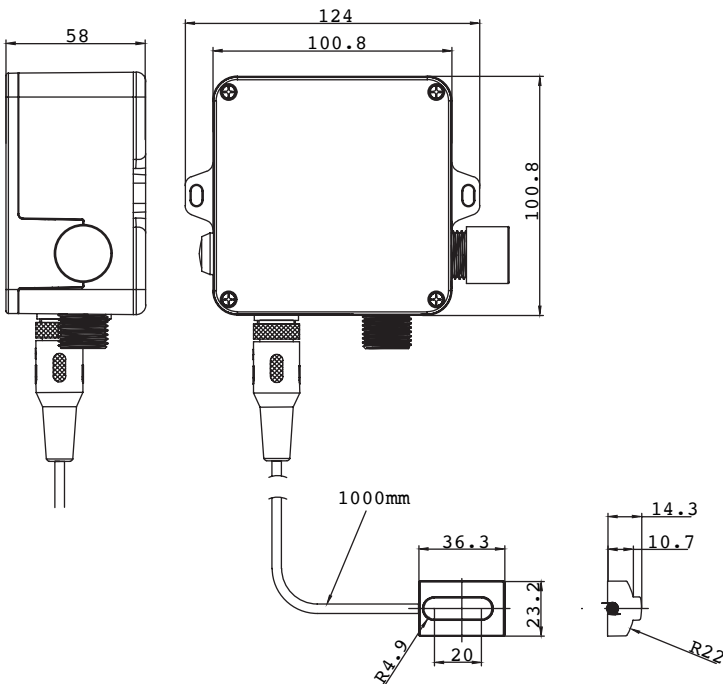
# HYDRON iRED+

REF. 27ES000004 (DC)  
REF. 27ES000005 (AC)  
REF. 27ES000006 (AC+DC)



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DATA SHEET

## DIMENSIONS



## RECOMMENDED APPLICATIONS



**WASHBASINS**  
Specially designed for washbasins.



**HOME**  
Suitable for faucets at home



**HOTELS**  
Recommended for hotels



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	
Voltage supply	DC-6V and/or AC: 230V (50Hz) / 110-120 (60Hz)
Working pressure	1-7 bar
Pressure resistance closed (1 min.)	35
Life test	500,000 cycles
Max. hot water	75°C
Flow rate (RhA)	10.8 l/min
Sensor activation time	<1s
Protection against intrusion (control box)	IP 65
Protection against intrusion (sensor)	IP 67
Sensor detection distance	Adjustable <35 cm
Power consumption (stand by)	AC <4W DC <0.2mW
Power consumption (flushing)	AC <5W DC <3W
Water saving function	Auto off adjustable up to 1 min.
Thread	G1/2-14
Battery type (not included)	4xAA 1.5V
Sensor detection angle	15° (conical)



# HYDRON

## iRED · PRO

### DESCRIPTION

Electronic system for faucets including sensor technology.

### FEATURES



#### ECO MODE

The system saves water thanks to its automatic shut-off.



#### AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



#### INFRA-RED

System activates thanks to an infra-red sensor.



#### AUTO-CLEANING

System activates every 72h to avoid water contamination

### ADVANTAGES

- *WATER SAVING*  
Infra-red sensor activation with automatic shut-off time which can be customized.
- *CLEAN&HYGIENIC*  
Faucet activation is done by entering the hand into the sensor zone.
- *RELIABILITY*  
Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.
- *VERSIONS*  
All models are available with battery and/ or power supply
- *EASY MAINTENANCE*  
Built-in filter to avoid impurities which could affect the proper water flow.
- *AUTO-CLEANING SYSTEM*  
HYDRON iRED·PRO has an auto-cleaning system that activates every 72h to avoid water contamination.
- *ON-OFF BUTTON*  
It also includes a switch-off button to make maintenance works easier.

# HYDRON iRED-PRO

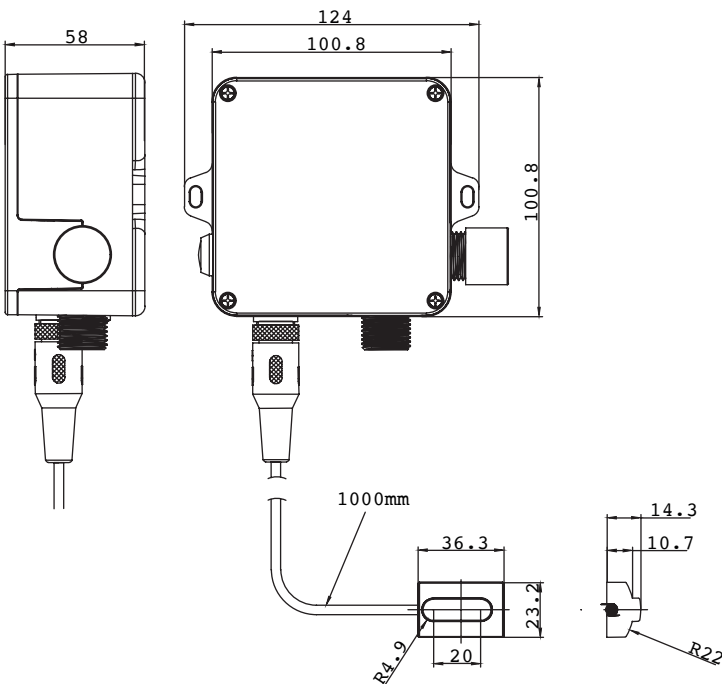
REF. 27ES000023 (DC)

REF. 27ES000024 (AC)

REF. 27ES000025 (AC+DC)



## DIMENSIONS



## RECOMMENDED APPLICATIONS



### WASHBASINS

Specially designed for washbasins.



### HOME

Suitable for simple showers at home



### HOTELS

Recommened for hotels



### PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

## CERTIFICATIONS



## TECHNICAL SPECIFICATIONS

General	
Voltage supply	DC-6V and/or AC: 230V (50Hz) / 110-120 (60Hz)
Working pressure	1-7 bar
Pressure resistance closed (1 min.)	35
Life test	500,000 cycles
Max. hot water	75°C
Flow rate (RhA)	10.8 l/min
Sensor activation time	<1s
Protection against intrusion (control box)	IP 65
Protection against intrusion (sensor)	IP 67
Sensor detection distance	Adjustable <35 cm
Power consumption (stand by)	AC <4W DC <0.2mW
Power consumption (flushing)	AC <5W DC <3W
Water saving function	Auto off adjustable up to 1 min.
Thread	G1/2-14
Battery type (not included)	4xAA 1.5V
Sensor detection angle	15° (conical)
Switch off function	Waterproof button
Self cleaning function	Time adjustable (factory setting as 72h)

# HYDRON

## INFRARED SENSORS

### HYDRON

*SENSORS for iRED*

#### Wide range

Hydron iRED systems have different options of sensors depending on the detection range, size and position needed, all of them with less than 1 second detection time.

#### On demand

Other shapes, sizes and cable lengths available.



MODEL	DETECTION RANGE	WINDOW SIZE	PAIRS WITH		
			iRED	iRED+	iRED · PRO
S1	14-48 cm	2.98 x 0.98 cm	✓	OEM	✓
S2	12-38 cm	2.98 x 0.98 cm	✓	OEM	✓
S3	2-37 cm	Ø 1.94 cm	OEM	OEM	OEM
S4	10-35 cm	2.98 x 0.98 cm	OEM	✓	OEM
S5	12-47 cm	2.18 x 0.98 cm	OEM	OEM	OEM
S6	12-60 cm	2.18 x 0.98 cm	OEM	OEM	OEM
S7	12-52 cm	Ø 2.56 cm	OEM	OEM	OEM
S8	10-40 cm	Ø 2.26 cm	OEM	OEM	OEM
S9	5-40 cm	3.7 x 0.74 cm	OEM	OEM	OEM



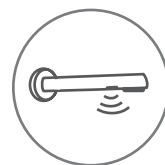
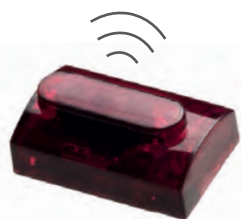
S1  
Infrared sensor for straight body faucet.



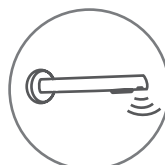
S2  
Infrared sensor for curved body faucet.



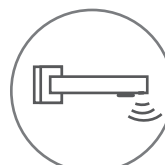
S3  
Infrared sensor for wide base faucets.



S4  
Infrared sensor for spout faucets, located before the outlet.



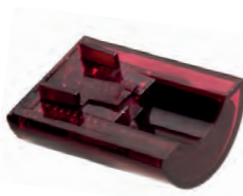
S5  
Infrared sensor for spout faucets, located after the outlet.



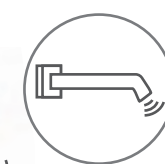
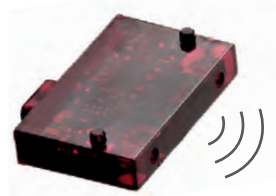
S6  
Infrared sensor for square spout faucets, located after the outlet.



S7  
Round Infrared sensor to be placed on the outlet in the spout of the faucet.



S8  
Semi-circular Infrared sensor to be placed on the outlet in the spout of the faucet.



S9  
Squared Infrared sensor to be placed on the outlet in the spout of a squared faucet.

## **HEADQUARTERS**

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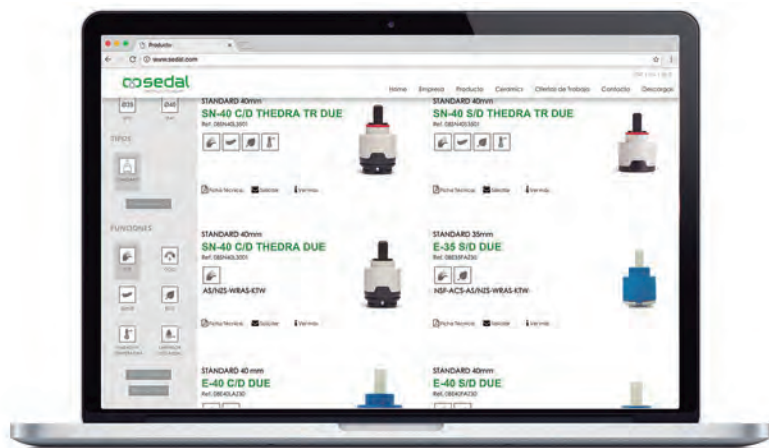
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Get access to the complete and latest product technical data by downloading from our Webpage the Product Technical Data Sheets.

The values that appear in the catalogue have been tested in our laboratory using master faucets. The values may change depending on conditions of installation. Sedal reserves the right to change the catalogue without notice.



