

# NEW PRODUCT OVERVIEW 2019

FIRST-CLASS COMPONENTS FOR  
THE SANITARY INDUSTRY





# INDEX

## PRODUCT OVERVIEW

<b>COMPANY</b>	Sedal	<b>4</b>
<b>SN-25</b>	25 mm	<b>6</b>
<b>GC-25</b>	25 mm	<b>10</b>
<b>28 RANGE</b>	28mm	<b>14</b>
<b>TOP</b>	35mm	<b>18</b>
<b>ECOFLOW</b>	25, 35 & 40mm	<b>22</b>
<b>ENDURA</b>	35 mm	<b>26</b>
<b>TERMACLICK</b>	35 mm	<b>30</b>
<b>DRY FAUCETS</b>	35 mm	<b>34</b>
<b>UPPER SEALING</b>	35, 40 mm	<b>38</b>
<b>DIVERTER CARTRIDGES</b>	35, 40 mm	<b>42</b>
<b>REVOLVING CARTRIDGES</b>	25, 35, 40 mm	<b>46</b>
<b>THEDRA</b>	40 mm	<b>50</b>
<b>THERMOSTATICS</b>	27 & 34 mm	<b>54</b>
<b>HEADWORKS</b>	Brass, plastic & inox	<b>58</b>
<b>METERING VALVES</b>	Metering valves	<b>62</b>
<b>FLEXIBLE HOSES</b>	Faucets & sanitary water	<b>66</b>

# 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

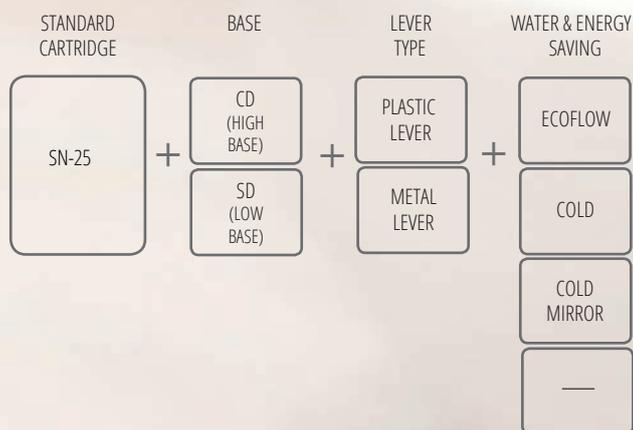




# SN-25 CARTRIDGES

*FOR SLIM  
FAUCETS*

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.



# SN-25

## CARTRIDGES

### 1 Improved performance

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

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

### 2 More endurance

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

- 2 x ASME / 2 x EN-817 life cycle
- Improved plastic material robustness
- +50% Increased torque resistance
- +30% Increased flexion resistance

### 3 Tough construction for small faucet designs

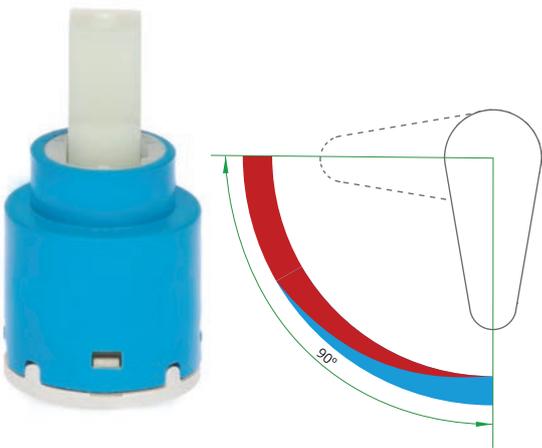
The small size of SN-25 makes it specially suitable for slim design faucets, allowing the manufacturer to innovate with its design without giving up the high-performance and robustness of the product.



### Cold opening for water saving

Sedal has developed a new version of SN-25 with cold start opening (with and without distributor), 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.



**NEW!**  
METAL  
LEVER  
AVAILABLE



### Metal lever

SN-25 is available with a metallic lever (with and without distributor) for higher resistance while keeping smooth operation and precision.

5

### Mirror version for kitchen applications

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





# GC-25 CARTRIDGE

*FOR SLIM FAUCETS*

GC-25 cartridges include Trialox Technology, a new revolutionary ceramic set that boosts the life expectancy of the cartridge while improving its performance and robustness. This upper sealed cartridge allows the manufacturer to work with different faucet configurations.



# GC-25

CARTRIDGE

1

## Trialox Technology

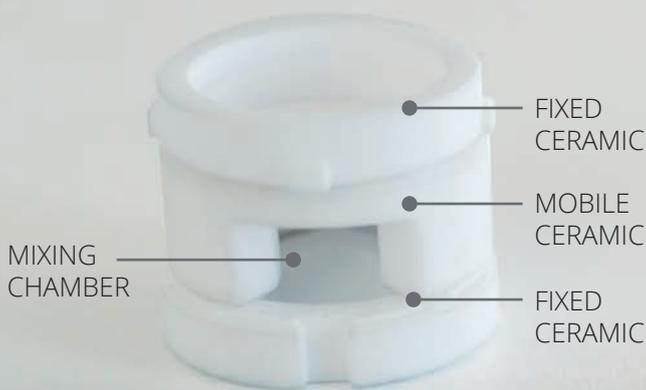
The new GC-25 Trialox features a new ceramic design that boosts its life expectancy while improving consistently the comfort of operation. Sedal's Trialox Technology is at the heart of this upper sealing 25mm cartridge to deliver a significant high flow for such a small footprint.



2

## 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.



3

## 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.



4

#### Robust design

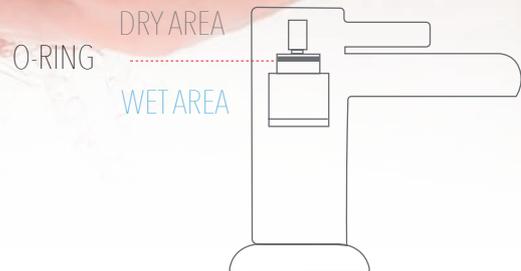
The GC-25 Trialox has been designed with robustness in mind. The body and internal components are made of high performance technical plastics while the lever is metallic to give an extra feeling of safety at the stroke ends.

5

#### Multiple design options

The small size of GC-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.

This cartridge has also an upper sealing that enables multiple design configurations



## TECHNICAL SPECIFICATIONS

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
Max. hot water	90 °C
Sensitivity	11-13° angle
Fidelity	<3°C

Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C
<b>Flow rate at free flow</b>	
0.5 bar	6.4 l/min
1 bar	9.2 l/m
3 bar	16.1 l/min
5 bar	20.9 l/m
<b>Operation Torque</b>	
Open-close	0,15±0,40 Nm
Turn left-right	0,15±0,40 Nm





# 28MM CARTRIDGES

## *NEW STANDARD RANGE*

Sedal has developed a new 28mm range of cartridges, allowing to keep the slim design of a 25mm cartridge but with the robustness of a 35mm.

# 28MM CARTRIDGES

## SN-28

### Slim design & higher flow rate

The SN-28 cartridge provides a slim design capability but not as thin as 25mm cartridges, resulting in an interesting intermediate performance in between 35mm and 25mm taps. The manufacturer can keep a slim design but can obtain a higher flow rate.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### KITCHENS

Suitable for use in kitchens.

28MM CARTRIDGES  
NEW  
STANDARD



### Soft movement

It features soft operational movement thanks to a clutched ceramic movement and high grade ceramics. Up to 40% softer lever operation than standard cartridges thanks to this operation design.

# TECHNICAL SPECIFICATIONS

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

Tested with proprietary fixtures at SEDAL lab. (1) Considering restrictor & faucet body type

Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C
Max. hot water*	90 °C
<b>Operation Torque</b>	
Open-close	0.15-0.30 Nm
Turn left-right	0.25-0.35 Nm
<b>Flow rate at 3 bar</b>	
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

# EX-28

## Compact design

Compact 28 mm cartridge allows the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges. With EX-28 you can find a 35mm performance in a 28mm body.

## 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

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
<b>Operation Torque</b>	
Open-close	0.15-0.25 Nm
<b>Flow rate at 3 bar</b>	
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

Tested with proprietary fixtures at SEDAL lab. (1) Considering restrictor & faucet body type





# TOP CARTRIDGES

## *BEST IN CLASS*

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.

# TOP CARTRIDGES

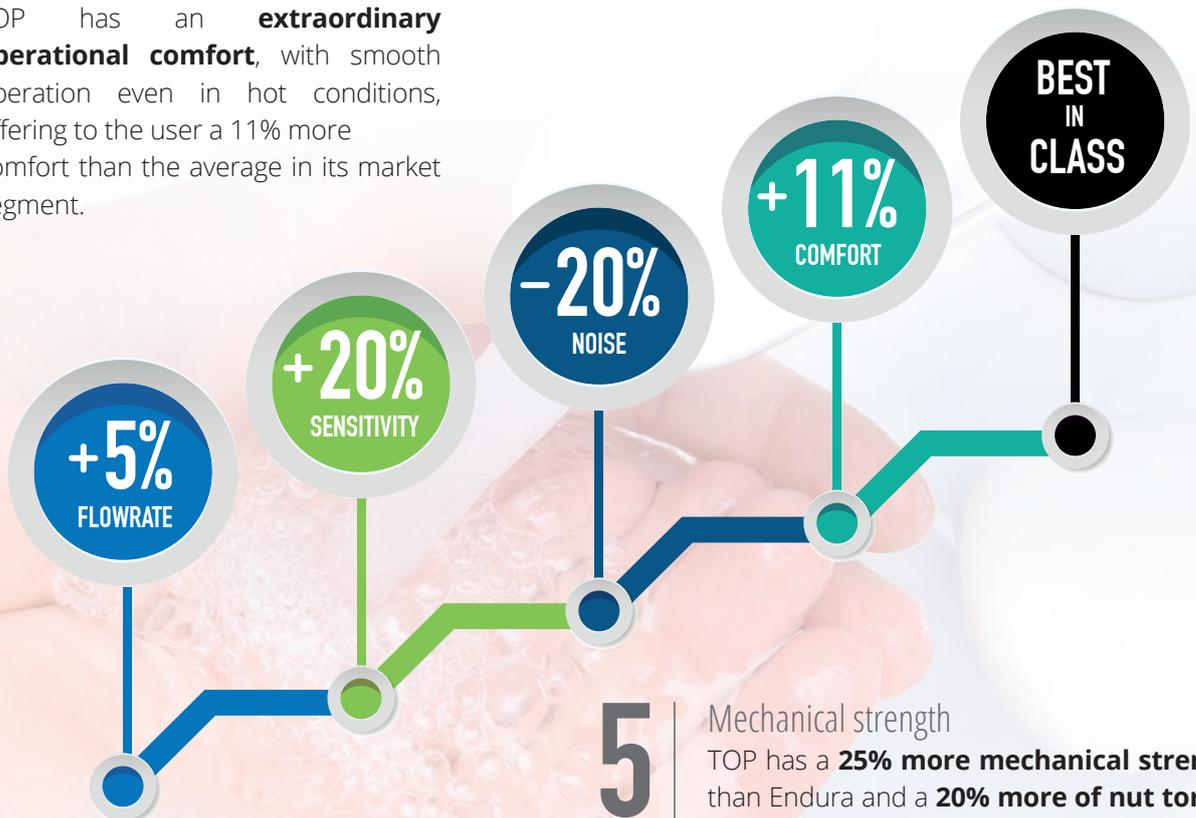


**1** Higher flow rate  
TOP has a 5% more flowrate than the average in its market segment. It also has **3.5% more flowrate** than its closest competitor and it is substantially better than the standard cartridges.

**2** The best 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.

**3** Lower noise level  
TOP produces only 16dB, **20% less noise** than the average in its market segment and also than its closest competitor.

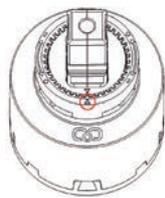
**4** Extraordinary comfort  
TOP has an **extraordinary operational comfort**, with smooth operation even in hot conditions, offering to the user a 11% more comfort than the average in its market segment.



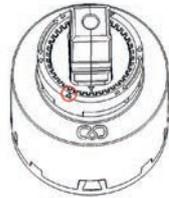
**5** Mechanical strength  
TOP has a **25% more mechanical strength** than Endura and a **20% more of nut torque loss**.

## Temperature limiter function

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°

## Flow limiter function

TRN optional 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.**

# TECHNICAL SPECIFICATIONS

Nut torque/Pitch M1,5	10-12 Nm
Opening angle	23°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>60 bar
Life cycle- x2 ASME	1,000,000 cycles
x2 EN 817	140,000 cycles
NF-077 U3	175,000 cycles
x2 GB-18145	140,000 cycles
Sensitivity	>13.5 mm
Fidelity	<2 °C
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<3 °C - <4 °C
Max. hot water	90 °C
<b>Flow rate at 3 bar</b>	
Free flow	29.3 l/min (C/D) · 29.5 l/min (S/D)
<b>Operation Torque</b>	
Open-close	0,15÷0,30 Nm
Turn left-right	0,15÷0,25 Nm
Noise level (A2-NF077)	16 ± 2 dB

C1, C2, C3  
NF ECAU  
COMPLIANT  
VERSIONS

-Hammer test NF-077.

-High temp. pressure test AS-NZS

Tested with proprietary fixtures at SEDAL lab. (1) Considering restrictor & faucet body type

ecoflow





# ECOFLOW CARTRIDGES

*FOR SINGLE  
LEVER FAUCETS*

The new ECOFLOW cartridge range has been specially designed for low flow applications. Thanks to a new patented technology, this cartridge helps saving water and provides maximum comfort to the user. This new system is available in 25mm, 35mm and 40mm cartridges.



# ECOFLOW

## CARTRIDGES



1

Optimised for WaterSense and Waterlabel  
Ecoflow Tech is optimised to comply with  
WaterSense and WaterLabel requirements.



2

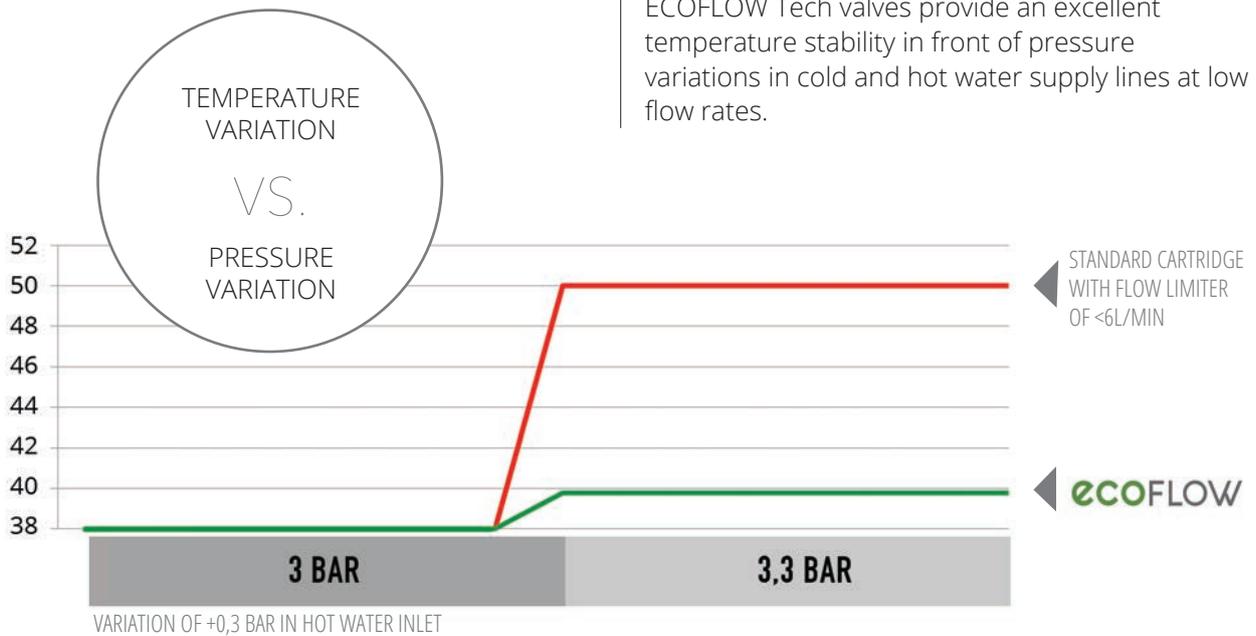
The usage of a restrictor is optional  
The flow rate reduction is carried out at the right  
place. With ECOFLOW the usage of a limiter or  
restrictor is optional.  
It is necessary the installation of filters in the  
hydraulic line.



# 3

## Reduces temperature fluctuation

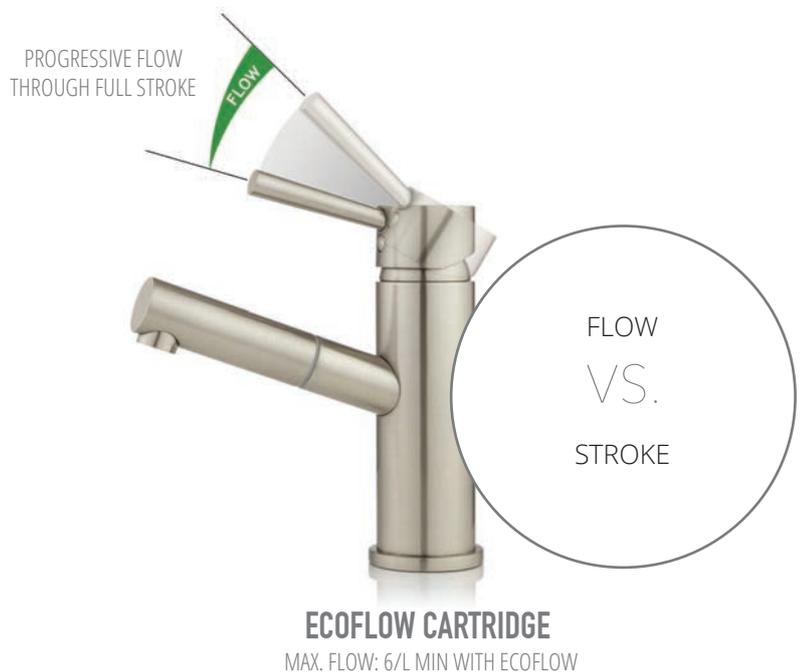
When using a flow limiter in the spout combined with standard cartridges, the user can experience strong changes in water temperature. The new ECOFLOW Tech valves provide an excellent temperature stability in front of pressure variations in cold and hot water supply lines at low flow rates.



# 4

## 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.



endura

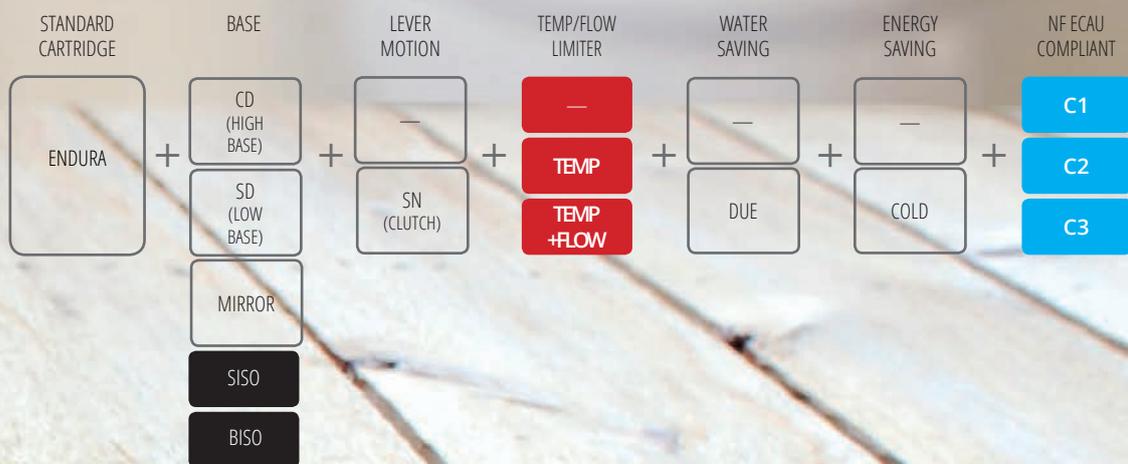
x2  
LIFE CYCLE



# ENDURA CARTRIDGES

*FOR 35MM  
FAUCETS*

The new ENDURA 35 cartridge shows an extraordinary endurance: 2x standard life cycling tests. A complete set of technologies that have been built into this new piece of engineering to go far beyond competition. Featuring a set of SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology in its heart, the ENDURA cartridge range will give the manufacturers all the features that the market is demanding... and more.



# ENDURA

## CARTRIDGES

HIGH  
PRECISION  
COMPONENTS



1

### New from scratch

We have developed a newly built ENDURA 35 valve. High precision components, along with excellent performing materials make the new ENDURA suitable for virtually any application.

2

### A bunch of technology

A complete set of high tech solutions:

- Glide Feel Technology for a perfectly smooth operation
- Ceramic Nano Shelter Technology to provide extra durability,
- Noise Cancelling Technology to lower the noise level
- AccuDue Technology to deliver high precision water saving value.

3

### SedalOX™ 96 RTP, keystone

The new ENDURA features SedalOX™ 96, a high performance ceramic set by Sedal Ceramics. This 96% Aluminum Oxide Ready To Press (RTP) powder performs above expectations thanks to Nano Shelter Technology™, which creates nanometer sized deposits for the grease on the disc surface for an extended life cycling. The result is more than double ASME and EN standard cycles in life tests.

4

### Mirror version for kitchen applications

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

**NEW!**  
MIRROR  
VERSION  
AVAILABLE





C1, C2, C3  
NF ECAU  
COMPLIANT  
VERSIONS

# 5

## Great range, greater possibilities

The new ENDURA 35 range provides the manufacturer with 18 different options to develop its products and more than 100 potential combinations.

Water and energy saving technologies, safety temperature regulation, maximum water flow limiter, as well as standard selections are available and fully compatible.

# 6

## New SISO, SIO, and BISO options

Sedal offers DRY FAUCET base configurations with threaded inserts.

- SISO (side in-side out)
- SIO (side in and out)
- BISO (bottom in-side out)

With this solutions, the ENDURA cartridge allows the manufacturer to completely avoid contact between faucet and water by plugging the inlet and outlet hoses directly into the cartridge.



KTW-WRAS-AS/NZS-  
NSF-ACS  
CERTIFIED







# TERMACLICK CARTRIDGES

*FOR 35MM  
FAUCETS*

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.

# TERMACLICK

## CARTRIDGES

HELPS  
SAVING  
ENERGY

1

### 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 delivery, avoiding the waste of energy beyond the comfort temperature.

2

### Safety click at 38°C\*

The user detects the click point and enjoys comfort temperature of water without risks at the safety temperature of 38°C\*. This feature allows safer usage for children.

3

### SedalOX Ceramic set

Termaclick incorporates SedalOX ceramics for a superior endurance.

4

### Glide feel technology

This technology ensures the user a unique smoothness of operation.



5

### Specially designed for kitchen applications

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



\* 63°C hot water/13°C cold water (EN 817)



Different versions available  
 Termaclick is a 35mm cartridge, comprising high and low base and mirror versions.

35mm  
 SIZE

**TERMACLICK C/D**



Cartridge with distributor

**TERMACLICK S/D**



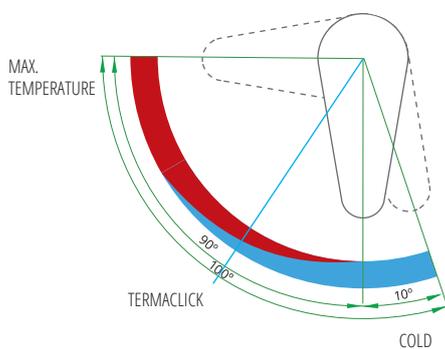
Cartridge without distributor

**TERMACLICK S/D MIRROR**

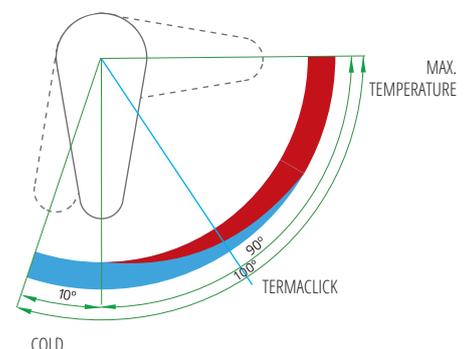


Cartridge without distributor. Specially designed for kitchen applications

LEFT TO HOT



RIGHT TO HOT







# DRY FAUCET CARTRIDGES

*FOR LEAD-FREE  
PRODUCTS*

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.

# DRY FAUCET CARTRIDGES



KTW-WRAS-AS/NZS-  
NSF-ACS  
CERTIFIED

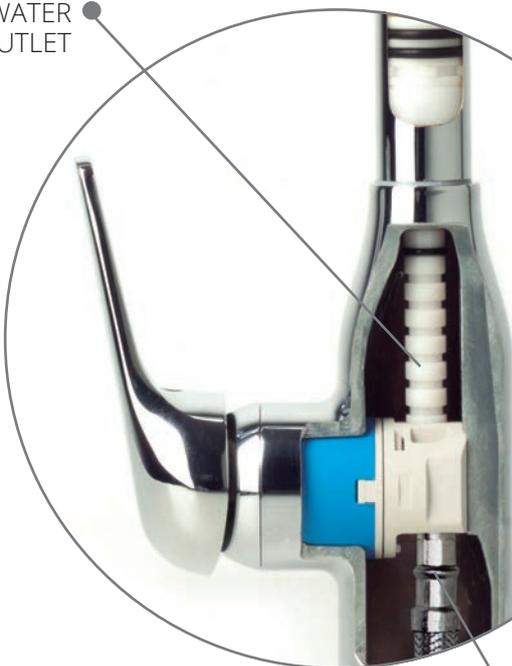
## SN-35 SISO ADVANTAGES

Optimal solution for lead-free policy products.  
No contact between water and metal.  
Specially designed for kitchen applications.  
Different configurations as it is part  
of Endura family, such as Standard,  
Cold or Ecoflow options.



SISO CARTRIDGE  
ALLOWS LIGHTER  
BODY DESIGN AND  
EASIER CASTING

GUIDED  
WATER  
OUTLET



WATER INLET  
HOSES PLUGGED  
DIRECTLY INTO THE  
CARTRIDGE



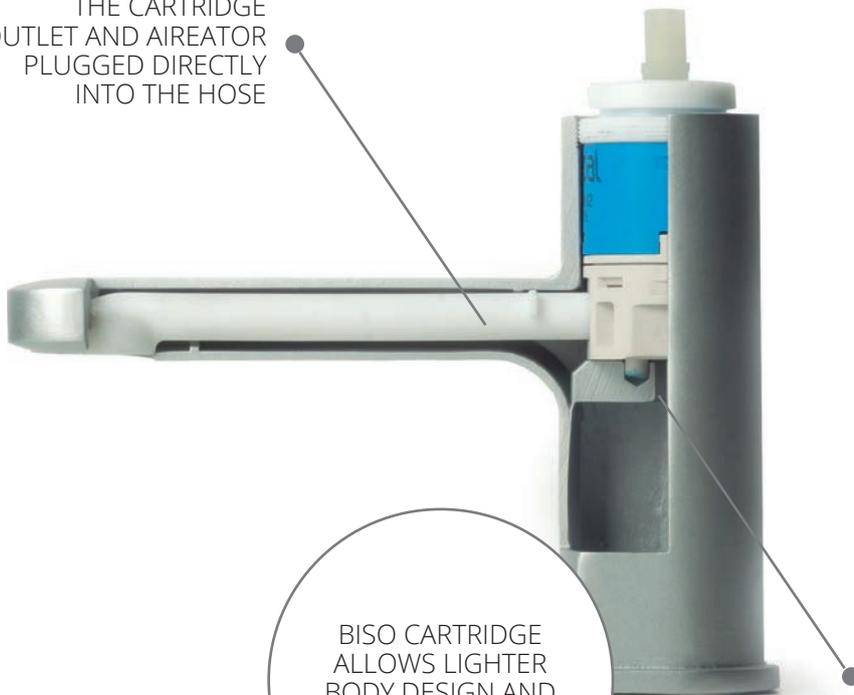
KTW-WRAS-AS/NZS-  
NSF-ACS  
CERTIFIED



## SN-35 BISO ADVANTAGES

Optimal solution for lead-free policy products.  
No contact between water and metal.  
Specially designed for basin applications.  
Different configurations as it is part of Endura family, such as STD, Cold or Ecoflow options.

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



BISO CARTRIDGE  
ALLOWS LIGHTER  
BODY DESIGN AND  
EASIER CASTING

WATER INLET  
HOSES PLUGGED  
DIRECTLY INTO THE  
CARTRIDGE





# UPPER SEALING CARTRIDGES

*FOR DIFFERENT  
FAUCET  
CONFIGURATIONS*

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.

# UPPER SEALING CARTRIDGES

## STANDARD

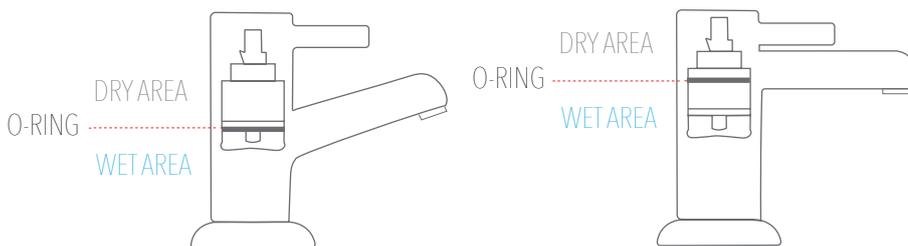
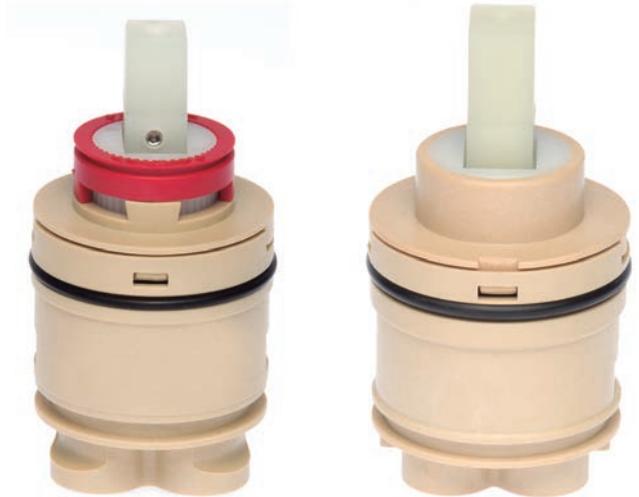
### Modern Faucet designs

This kind of cartridge allows modern faucet design options thanks to its multiple configurations.

### Eco features

35 mm and 40mm standard upper sealing 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.



### Different faucet configurations

35mm and 40mm standard upper sealing allows the manufacturer to work with different faucet configurations, including those in which the spout is located on the upper side.

**NEW!**

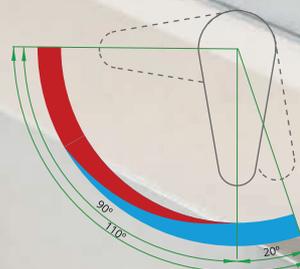
COLD  
VERSION  
AVAILABLE



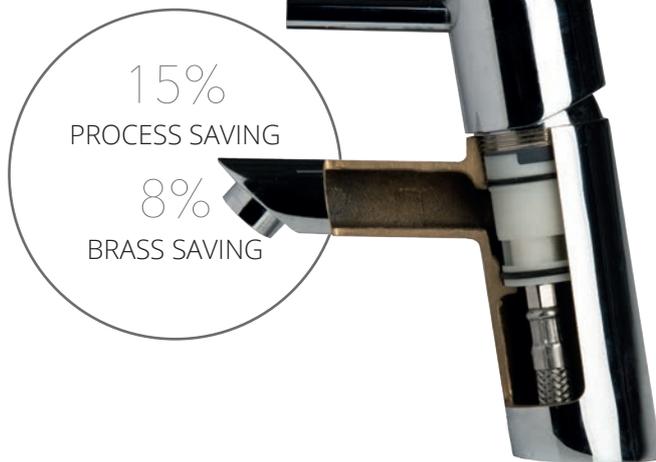
### COLD OPENING

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.



## DIRECT PLUG-IN



### Direct plug-in CC-35

Hoses are threaded directly into the cartridge with direct inlet connections

### Cost savings

Direct plug-in allows lighter faucet body and consequently the manufacturer has process and brass savings.



### Eco features

35 mm direct plug-in cartridges are available with temperature and flow limiters. There is also a due version for water saving.

### Versions

CC-35 is available in standard black version or basic white version.



## COMPACT

### Minimalism with high performance

Compact cartridges allow the manufacturer to create minimalist 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.





# DIVERTER CARTRIDGES

*35&40mm  
RANGE*

The diverter cartridge range from Sedal consists on high-end valves that provide smooth operation along with a defined feeling of safety and precision when changing the outlets of the shower, thanks to the metallic lever and a high precision ceramic set.

# DIVERTER

## CARTRIDGES

THE  
SMALLEST  
IN THE MARKET



### Diverter functionality: 2 outlets

GD-25 is a 2 way diverter that fits specially well in slim designer shower bodies, enabling to switch from rain shower to body jets in a simple turn.

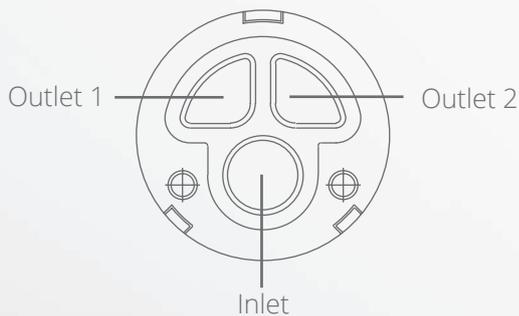
### GD-25

The GD25 diverter from Sedal is a high end 25mm valve that features a high precision ceramic set with nano shelter technology by Sedal.

The operation torque has been improved while keeping a small footprint. Works perfectly paired with our TM006 Thermostatic cartridge for showers.

### Slim body showers with high flow

The GD25 has a high flow rate, allowing to build slim body showers with 2 outlets providing a positive user experience while assuring environmental protection.



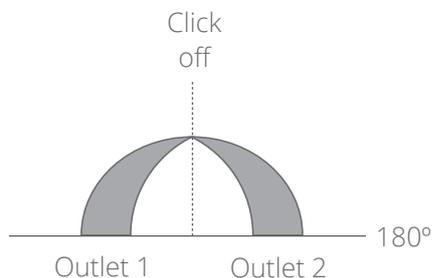
2  
OUTLETS  
DIVERTERS



### GD-35

The GD35 is a high end 2 outlet 35mm diverter that provides smooth operation and high precision stop in the close position thanks to the metallic lever and a high precision ceramic set.

Works perfectly paired with our TM001 Thermostatic cartridge for showers.

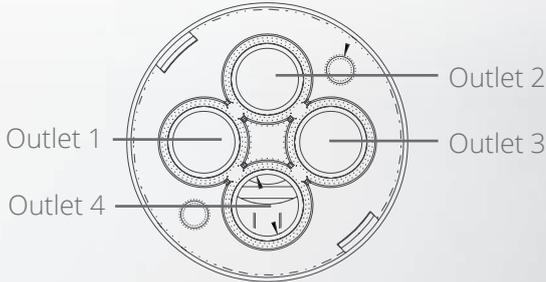


4  
OUTLETS  
DIVERTERS



GD-35 SD 4 & GD-40 SD 4

These diverter cartridges are specially designed for complete shower systems as they allow to have four different outlets. Mixed water enters through the side windows and exits through either outlet 1, 2, 3 or 4 independently.



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 while ensuring an optimal functionality throughout its lifespan.

3 Different shaft lengths available

The GD35 is available with three different shaft lengths to fullfill any manufacturer requirements.

Total Height (mm)
52.2 mm
80.5 mm
64.8 mm

Diverter with self- return

Classic diverters with manual or self-return specially designed for bath shower bodies, enabling water flow directly to the hand shower.



COMPACK  
MANUAL OR  
SELF-RETURN

COMPACK + R  
WITH CHECK VALVE  
MANUAL OR  
SELF- RETURN

SEDAL  
MANUAL OR  
SELF-RETURN

USA  
MANUAL OR  
SELF-RETURN



# REVOLVING CARTRIDGES

*25,35&40mm*  
*RANGE*

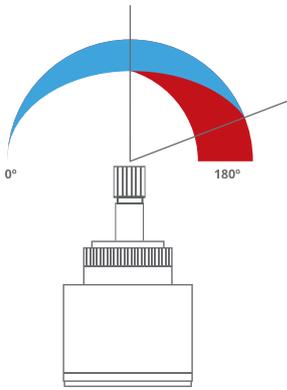
Revolving cartridges mix hot and cold water by rotating a metallic or plastic lever, delivering a fixed flow rate.



# REVOLVING CARTRIDGES

## Revolving progressive movement

Revolving cartridges have a rotation angle from cold to hot to provide control of the water flow to the initial mixing point. Then the hot and cold water start mixing progressively. This smooth movement provides comfort operation to the user.

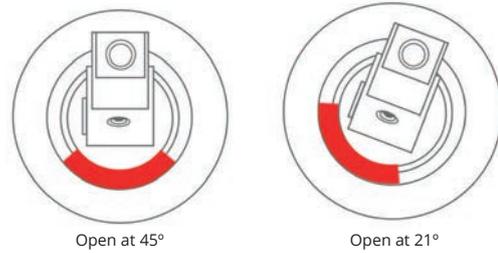


## 180° Rotation angle

All our revolving cartridges have a rotation angle of 180° from cold to hot for a more precise temperature control.

## Saving energy

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



TEMPERATURE LIMITER FUNCTION

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°



GI-25

These cartridges are specially conceived for slim and designer faucets, providing high performance while keeping a small footprint.



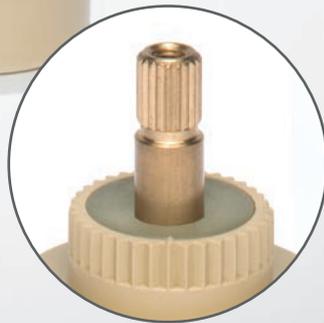
THE  
SMALLEST  
IN THE MARKET



GI-35 & GI-40

Sedal offers a wide range of revolving 35mm and 40 mm cartridges with different versions to help with any manufacturers needs:

- with and without distributor (high-low base)
- with plastic lever
- with metal lever
- energy saving



SC-35

In this revolving cartridge, the water is delivered through the center of the shaft for very specific designer applications..



WATER FLOWS  
THROUGH  
THE SHAFT



reddot award 2016  
winner

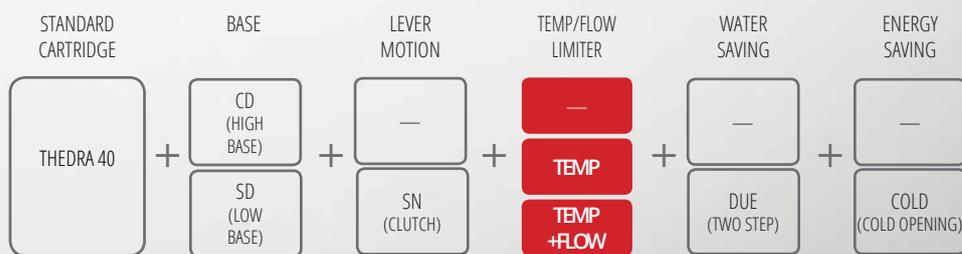
**TRHEDRA**



# THEDRA CARTRIDGES

*FOR 40MM  
FAUCETS*

The new Sedal's THEDRA cartridge range sets a new standard in ceramic single lever valves. Its unique clean and smart design confers the THEDRA cartridge an undeniable ability to withstand the most extreme working conditions. The new THEDRA is the first cartridge in history that has been awarded with an international design award.



# THEDRA

## CARTRIDGES

### 1 Out of solid rock

THEDRA is designed according to the roughest manufacturer's technical requests: compression, torque, handle load, burst and life cycles, granting smooth but firm user operation thanks to Glide Feel Technology.



WITHSTANDS  
THE  
TOUGHEST  
WORKING  
CONDITIONS

### 2 Challenge, Technology

Careful design, ceramic expertise, several smart technologies (Glide Feel Technology, Ceramic Nano Shelter Technology, Noise Cancelling Technology, AccuDue Technology), high performance materials and extraordinarily precise components are used to build the new THEDRA cartridges.

### 3 Long live the King

The new THEDRA cartridge performs and lives beyond average: 2 times ASME life cycles. Longer life will give the manufacturers and users the peace of mind they expect when buying a lifetime piece.

### 4 SedalOX™ 96 RTP, keystone

The new THEDRA features SedalOX™ 96, a high performance ceramic set by Sedal Ceramics. This ceramic has been formulated to perform above our competitors thanks to Nano Shelter Technology, which creates nanometer sized deposits for the grease on the disc surface for an extended life cycling. The result is more than double ASME cycles in life tests.



x2  
LIFE  
CYCLE

NOISE  
CANCELLING  
TECHNOLOGY



5

Enjoy the silence

The THEDRA cartridge range has NF Class I compliant cartridges, thanks to the perfect integration of the movable ceramic with the holder featuring Sedal's Noise Cancelling Technology, delivering as low as 16 dB noise level for bath, shower, basin and kitchen applications.



reddot award 2016  
winner



6

Unequal design, unequal results

THEDRA was granted with reddot award in 2016. Its unique design makes it unmistakably recognizable and fake safe. But not only that, its clever design also makes it do what it does: Perform above expectations.

7

Great range, greater possibilities

THEDRA valve range provides more than 20 different combinations for the manufacturers to develop their products. Water and energy saving technologies, safety temperature regulation, maximum water flow limiter, as well as standard selections are available and fully compatible.

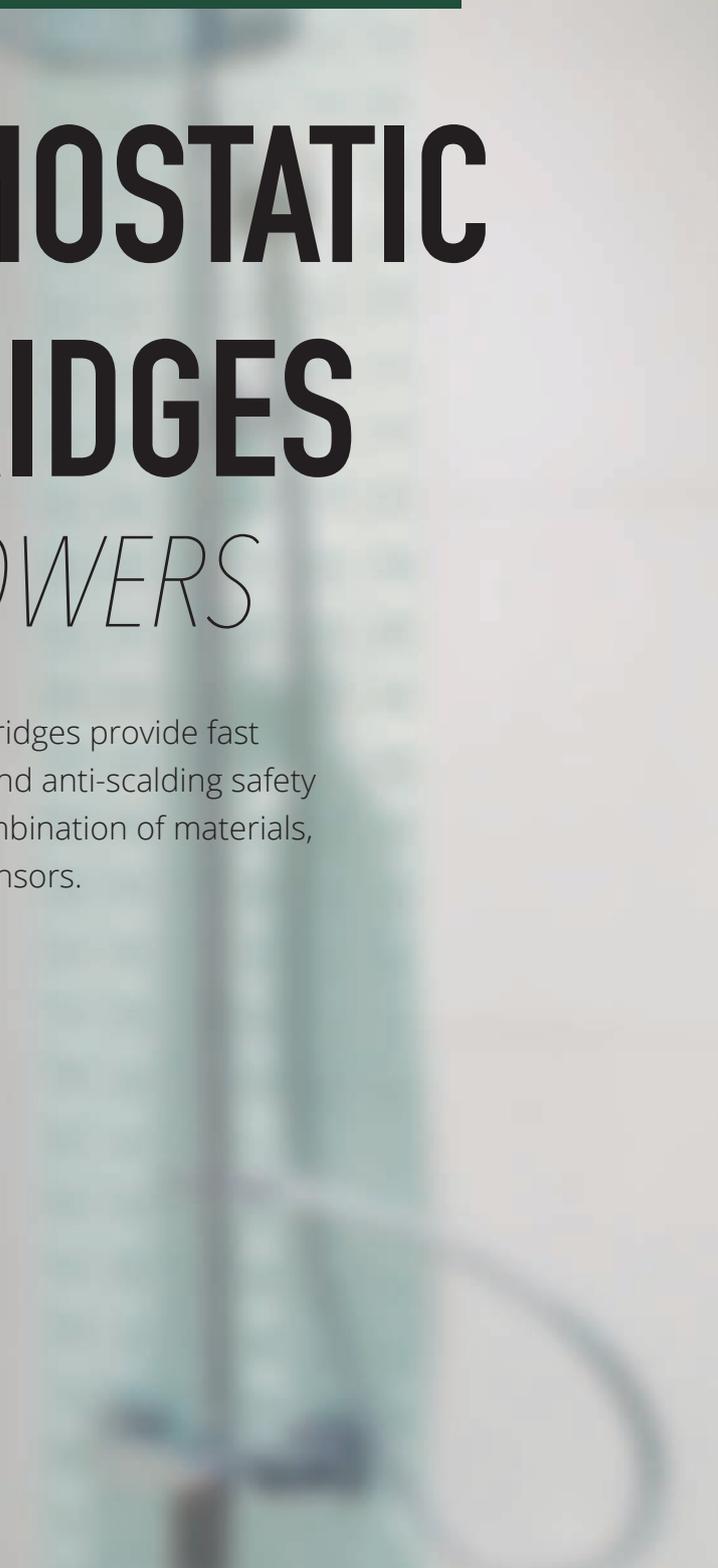




# THERMOSTATIC CARTRIDGES

*FOR SHOWERS*

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.



# THERMOSTATIC CARTRIDGES



## TM001 STANDARD

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.

✓ ITEMS: TM001, TM001-4MS

## TM001 BASIC

Basic thermostatic cartridge, combining entry-level product with high-reliability.

✓ ITEM: TM001 BASIC



## TM001 COMPACT

Its reduced length makes it perfect to fit wall-mounted installations, without giving up any of the standard high-performance features and certifications.

✓ ITEM: TM001 C

## TM001 HIGH PRESSURE

Thermostatic cartridge specially designed for burst pressure withstand minimum 35 bar. This cartridge is EN-1111 standard compliant.

✓ ITEMS: TM001 HP, TM001 HP NSF, TM001 HP 4MS





## TM006 STANDARD

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.

✓ ITEMS: TM006, TM006-4MS, TM006-NSF

## TM006 BASIC

Smaller basic thermostatic cartridge, combining entry-level product with high-reliability.

✓ ITEM: TM006 BASIC



## TM006 CLICK

Thermostatic cartridge with an axial click system, which allows high precision movement of the handle. This cartridge has been designed according to EN-1111 standards.

✓ ITEM: TM006 CLICK

DETAILS	TM001 STD	TM001 HP	TM001 C	TM001 BASIC	TM006 STD	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	22 l/min	22 l/min	22 l/min	21.5 l/min	18 l/min	18 l/min	17.5 l/min
Flow rate * (RhA) at 3bar	12.5 l/min	12.5 l/min	12.5 l/min	12.5 l/min	12.5 l/min	12.5 l/min	12 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 STD	TM006 CLICK	TM006 BASIC
EN-1111	•	•	•	•	•	•	•
ASSE 1016	-	•	•	-	•	•	-
GB QB/T2806	•	•	•	-	•	•	•
SANITARY CERTIFICATION	TM001 STD	TM001 HP	TM001 C	TM001 BASIC	TM006 STD	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.



A close-up, slightly blurred photograph of a modern, chrome-finished ceramic tap headwork. The tap handle is a sleek, curved design. The background is a soft, out-of-focus light grey, suggesting a bathroom or kitchen sink area. The overall aesthetic is clean and contemporary.

# CERAMIC HEADWORKS

## *FOR CONVENTIONAL TAPS*

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.

# CERAMIC HEADWORKS



## PLASTIC HW 90°

Ceramic headworks made from plastic body, with a rotation angle of 90° suitable for lead-free applications.

✓ KTW-ACS



## PLASTIC HW 180°

Ceramic headworks made from plastic body, with a rotation angle of 180° suitable for lead-free applications.

✓ KTW-ACS



## OEM HEADWORKS

We develop OEM headworks on demand according to client's requirements in any material. We also adjust to the external dimensions and features needed, such as 1/2", 3/4" or M18x1.5.



# BRASS HW 90°

Ceramic headworks made from brass body, with a rotation angle of 90°.

✓ ACS-KTW-WRAS



12 Nm  
RECOMMENDED  
INSTALLATION TORQUE  
FOR BRASS HW

# BRASS HW 180°

Ceramic headworks made from brass body, with a rotation angle of 180°.

✓ ACS-KTW-WRAS



# INOX HW 90°

Ceramic headworks made from stainless steel body, with a rotation angle of 90°.



# CONVENTIONAL HW

Conventional headworks made from brass body.

✓ ACS





# METERING VALVES

## *AUTOMATIC SHUT-OFF VALVES*

Metering valves are automatic shut-off valves for public venues ensuring water saving.

# METERING VALVES

## METERING VALVES

Metering valves are automatic shut-off valves for public venues ensuring water saving. All metering valves are available in M26 and M28 and have an auto-cleaning system to avoid lime scale.



METERING VALVES FOR SHOWERS

M26  
M28

METERING VALVES FOR BASINS

M26  
M28

METERING VALVES FOR URINALS

M26  
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



**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

SPECIFICATION	SHOWER	BASIN	URINAL
Max. working pressure	6 bar	6 bar	6 bar
Burst pressure	>25 bar	>25 bar	>25 bar
Lyfe cycle EN-816	210.000	210.000	210.000
<b>Flow rate at 3 bar</b>			
Free flow (DN13 hose)	17 l/min	17 l/min	17 l/min
C-Restrictor (DN13 hose)	14.5 l/min	14.5 l/min	14.5 l/min
Actuation time	20 <sup>+10</sup> / <sub>-5</sub> s	15 ± 5 s	7 ± 3 s

# ADJUSTABLE METERING VALVES

Metering valves with automatic shut-off. The user can limit the time of use of the self-closing valve thanks to an adjustable system.



M26  
M28

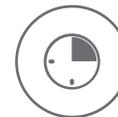
## Features



**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.

## RECOMMENDED APPLICATIONS



**SHOWERS**  
Recommended for public showers.



**WASHBASINS**  
Specially designed for public basins.



**URINALS**  
Recommended for public urinaries.



**PUBLIC VENUES**  
Suitable for airports, schools, libraries, etc.



**HOTELS**  
Recommended for hotels.

# TECHNICAL SPECIFICATIONS

SPECIFICATION	ADJUSTABLE
Max. working pressure	6 bar
Burst pressure	>25 bar
Lyfe cycle EN-816	210.000
<b>Flow rate at 3 bar</b>	
Free flow (DN13 hose)	17 l/min
C-Restrictor (DN13 hose)	14.5 l/min
Actuation time	30 ± 10 s



# FLEXIBLE HOSES

## *FOR FAUCETS & SANITARY*

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  
DN6/ DN8



STANDARD FLEXIBLE  
HOSES  
DN6/ DN8

CUSTOMIZABLE  
MATERIALS,  
LENGTHS AND  
FITTINGS

## Flexible hoses for faucets

Flexible hoses for sanitary faucet installations: taps, wash-basins, bidets.

Available as standard and under customer design and requirements of materials, length and fitting configuration.

## Materials

Stainless steel and nylon briding and PEX, SOFTPEX, EPDM tube options.

## Certifications

CSBAT, WRAS, AENOR, KIWA, and ACS.

### RECOMMENDED APPLICATIONS



#### WASHBASINS

Specially designed for washbasins.



#### BATH-SHOWER

Specially designed for bath showers.



#### KITCHEN

Suitable for use in kitchens.

# TECHNICAL SPECIFICATIONS

General	Flexible hoses for taps		Standard flexible hoses	
	DN6	DN8	DN6	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	
Ø Internal diameter	6mm	8mm	6mm	8mm
Ø External diameter	10mm	12mm	10mm	12mm
Max. temperature	90°C	90°C	90°C	90°C
Drinking H <sub>2</sub> O	Yes	Yes	Yes	Yes
Burst pressure	100 kg/cm <sup>2</sup>	100 kg/cm <sup>2</sup>	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>	25 kg/cm <sup>2</sup>	25 kg/cm <sup>2</sup>
Curvature radius	35mm	40mm	35mm	40mm
Nominal flow	20 l/min	25 l/min	20 l/min	25 l/min



STANDARD FLEXIBLE HOSES

DN13/ DN19/  
DN25

FLEXIBLE HOSES WITH ELBOW

DN8/ DN13/  
DN19/ DN25

### Flexible hoses for sanitary water

Flexible hoses for sanitary installations: 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.

### Certifications

Flexible hoses with elbow are CSBAT, WRAS, AENOR, KIWA, and ACS certified.

#### RECOMMENDED APPLICATIONS



#### WATER HEATERS

Designed for heaters, storage tanks, vessels.

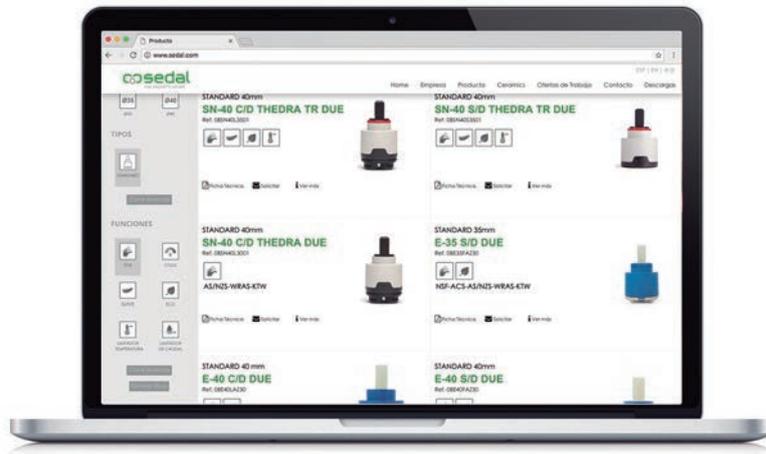


#### TOILETS

Specially designed for toilets.

# TECHNICAL SPECIFICATIONS

General	Standard flexible hoses			Flexible hoses with elbow			
	DN13	DN19	DN25	DN8	DN13	DN19	DN25
End fittings	Brass			Brass and brass elbow			
Nuts	1/2" - 3/4"	3/4" - 1"	3/4" - 1"	3/8" - 1/2"	1/2-3/4"	3/4"	1"
Sleeve	Stainless steel			Stainless steel AISI 304			
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			
Ø Internal diameter	13mm	19mm	25mm	8mm	13mm	19mm	25mm
Ø External diameter	19mm	27mm	33mm	12mm	19mm	27mm	33mm
Max. temperature	90°C	90°C	90°C	90°C	90°C	90°C	90°C
Drinking H <sub>2</sub> O	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Burst pressure	90 kg/cm <sup>2</sup>	90 kg/cm <sup>2</sup>	90 kg/cm <sup>2</sup>	100 kg/cm	80 kg/cm <sup>2</sup>	60 kg/cm	35 kg/cm <sup>2</sup>
Work pressure	15 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	10 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	50mm	70mm	100mm	40mm	45mm	40mm	40mm
Nominal flow	70 l/min	120 l/min	200 l/min	25 l/min	65 l/min	120 l/min	200 l/min



# www.sedal.com

Get access to the complete and latest product technical data by downloading from our Webpage the Product Technical Data Sheets.



The values 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.

**HEADQUARTERS**

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