

# Sedal

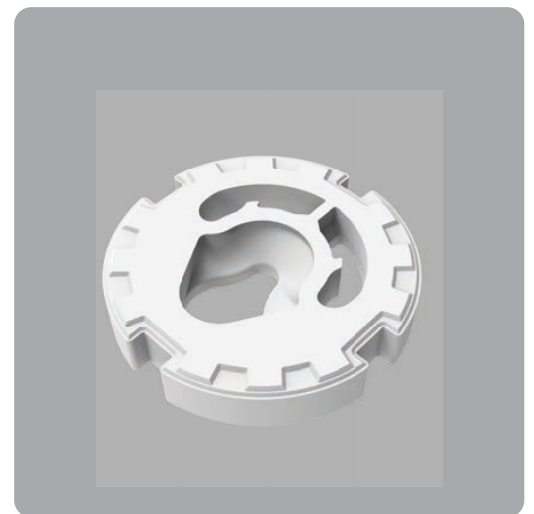
# Innovating Every Day

**SEDAL Group** is a leading global manufacturer of components for the faucet and sanitary industry. Founded in 1984, we have continuously grown and expanded our activities, offering a wide range of products and solutions that meet the most demanding customer requirements.

Headquartered in Spain, SEDAL operates in over 45 countries worldwide providing us with extensive 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.

Since Sedal integrates a new company in the group, we develop and manufacture products that mix two elements: water and electronics. Under Sedal Digital Systems we combine the strengths of both companies in order to launch the best OEM electronic systems. Now we also have in the catalogue thermostatic shower systems, digital faucets and electronic commercial water systems.

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

**Sedal**

**Sedal**  
DIGITAL SYSTEMS

**Sedal**  
TECH CERAMICS



# Offering you the best



Expertise backed by  
more than 50 engineers



Global  
multinational company



Best materials  
and technologies

With over 40 years of experience in the industry, we have built a 360° catalog that covers a wide range of mechanical and digital solutions, offering some of the best products in the market. Our expertise is backed by a dedicated team of more than 50 engineers in our Barcelona center of excellence, continuously developing OEM projects to meet every need.

We manufacture our products using the highest-quality materials, from advanced ceramics to durable casings, ensuring long-lasting performance. Our proprietary SedalOX technology enhances the durability of our ceramic cartridges, extending their lifespan.

Committed to efficiency, we implement lean manufacturing with fully automated assembly, testing, and packaging processes. With offices in Spain and China, we streamline global logistics, shipping from both locations and simplifying post-customs operations to support our clients worldwide.

## Find what you need



We have updated our website to ensure you can easily find everything you need from any of your devices.

From a search tool with all our references to projects, Electronic Water Valve comparisons, and more... you can easily browse our entire catalog online.

Visit [sedal.com](https://sedal.com) and see it for yourself!

## Stay connected with Sedal!

Sedal's blog covers everything you need to know—from detailed insights on our products and company updates to expert advice on optimizing your product range.

Dive into the latest trends, explore our innovations, and get practical tips to help your business stay ahead. Visit our blog and stay up-to-date with everything Sedal!



# secdal

The  
faucet's heart

# Index

## 25 mm

Best in class cartidge with the smallest design.



Top

EN-25  
EX-25

Low and safety flow with no restrictor



Ecoflow

SN-25

Smallest Upper sealing



Upper Sealing

GC-25



Sepcials

JY-25  
GI-25

## 26 - 27 mm

## 28 mm



SN

EN-25  
EX-25



Upper Sealing

From the TOP family,  
Due, Cold, and Mirror versions

EX-28 TOP

Upper Sealing



EX-26

# Ceramic mixing cartridges for single lever faucets

35 mm

Best in class cartridge with  
all versions available



Top

EN-35



Endura

With SedalOX Nano shleters,  
providing a 2x life cycles tests

EN-35  
SN-35

Standard



EN-35  
SN-35  
TRN-35

Basic



EN-35

Ecoflow

Low and safety flow  
with no restrictor



SN-25

Upper Sealing

Upper sealed cartridge,  
allowing the work of differet  
faucet configurations



G-35  
CC-35  
EX-35



Dry Faucet

For lead free policy products

BISO-35  
SISO-35  
SIO-35

Specials

Revolving, Joystick



GI-35  
JY-35

Termaclick



SN-35

# Index

40 - 45 mm

## Ceramic mixing cartridges for single lever faucets

### Thedra

Special design that gives High Flow & with robust materials



SN-40

### High Flow

High Flow in 40 mm cartridge with the benefits of a Thedra, and 45 mm cartridge



GC-40  
GC-45

### Standard

E-40  
EN-40  
SN-40  
TRN-40



Low and safety flow with no restrictor

### Ecoflow



SN-40

### Upper Sealing

Upper sealed cartridge, allowing the work of different faucet configurations



G-40  
EX-40

### Basic



BG-40

### Specials

GI-40  
JY-40  
PB-40





# Thermostatics



**TM001**

Fast response & high reliability,  
with safety features

Standard  
Low & high Pressure  
Basic  
Compact  
Brass  
CORE

Fast response, high reliability,  
with safety features & and  
with a thinner design



**TM006**

Standard  
Basic  
Click  
CORE

# Shower diverter

## Headworks



**Metal**

Conventional  
High Flow  
1/2"  
3/4"  
3/8"  
Brass  
Stainless Steel



**Plastic**

180°  
90°  
1/2"



**Automatic return**


COM-PACK  
Sedal  
+R  
USA



**Mutliway**

GD-25  
GD-35  
GD-35 4  
BRASS  
GD-40

## Metering Valves



**Self-closing valves**

Urinal  
Basin  
Shower  
Adjustavle

## Interfaces

### Sensors

Collection of 14 sensors along with OEM projects with different shapes & specifications on demand.

IR and TOF sensors

- S1 H1
- S2 H1
- S3 H1
- S5 H1
- S6 H1
- S7 H1
- S8 H1
- S9 H1
- S3 H2
- S13 H2
- S14 H2



### Digital Rotatives

Round handle with clicks, flow and temperature control and color-led feedback among other features

iRound



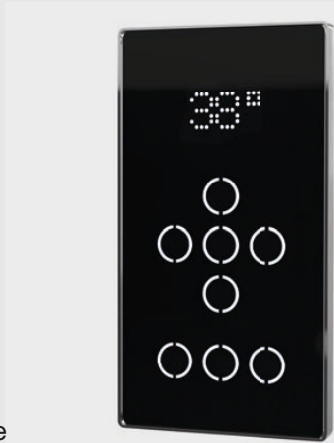
### Digital Cartridges iTOP & Handles



Fully digital cartridge for faucets and showers , with X-lever motion and clicks that allow extra features

- iTOP25
- iTOP35
- iTOP35 Clicks
- iTOP35 Handle

### Capacitive Display



- iPlus1
- iPlus2
- iPlus3
- iSquare
- MOZAIC

Electronic Water Valves

A white rectangular electronic water valve with two black cables extending from the front. The top of the unit has the 'Sedal' logo and 'DIGITAL SYSTEMS' text. There are two black knobs on the front panel.

M

M1

A white rectangular electronic water valve with multiple brass fittings on the top and front. The top of the unit has the 'Sedal' logo and 'DIGITAL SYSTEMS' text.

T

Thermostatic Electronic Water Valve with internal & external diverter, available for shower and kitchen faucets.

T1  
T2

Sensor controllers for different applications and mechanizations.

A white rectangular electronic sensor controller with a red button on the front and two circular ports. The top of the unit has the 'Sedal' logo and 'DIGITAL SYSTEMS' text.

H

H1  
H2  
H3

# 25-28 mm

The slimmest designs available from Sedal. We work to offer you a wide range of possibilities that not only help manufacturers with design and low-cost materials, but also allow them to incorporate many features and functionalities, such as EcoFlow, SNEN (soft & hard movement), upper or lower sealing, and plastic or metal levers.

Choose among four sizes or ask us for your preferences.

*EX-25 TOP with metal lever & 2 sealing options*



## Cartridges for single lever faucets

49 products  
4 sizes



## 25mm

### EN-25 TOP



	Code	Page
EN-25 CD	08EN25L0001	16 - 17
EN-25 SD	08EN25S0001	16 - 17
EN-25 Due CD	08EN25L3001	16 - 17
EN-25 Due SD	08EN25S3001	16 - 17
EN-25 Cold CD	08EN25L1501	16 - 17
EN-25 Cold SD	08EN25S1501	16 - 17
EN-25 Cold Due CD	08EN25L2001	16 - 17
EN-25 Cold Due SD	08EN25S2001	16 - 17
EN-25 Cold Mirror CD	08EN25L1502	16 - 17
EN-25 Cold Mirror SD	08EN25S1502	16 - 17
EN-25 Cold Mirror Due CD	08EN25L2002	16 - 17
EN-25 Cold Mirror Due SD	08EN25S2002	16 - 17

### Upper Sealing – TOP



	Code	Page
EX25 TOP 12,5° / 12,5°	08EX25L0001	18 - 19
EX25 TOP 12,5° / 12,5°	08EX25L0004	18 - 19
EX25 TOP 0° / 23°	08EX25L0002	18 - 19
EX25 TOP 0° / 23°	08EX25L0003	18 - 19

### SN-25



	Code	Page
SN-25 CD	08SN25LGO00	20 - 21
SN-25 SD	08SN25FGO00	20 - 21
SN-25 Cold CD	08SN25L1503	20 - 21
SN-25 Cold SD	08SN25S1503	20 - 21
SN-25 Cold Mirror CD	08SN25L1504	20 - 21
SN-25 Cold MirrorSD	08SN25S1504	20 - 21
SN-25 High Sensitive CD	08SN25L0016	20 - 21
SN-25 High Sensitive SD	08SN25S0016	20 - 21

### Ecoflow



	Code	Page
EcoFlow SN-25 CD	08SN25L0001	22 - 23
EcoFlow SN-25 SD	08SN25S0002	22 - 23

### Upper Sealing – Regular



	Code	Page
GC-25	08GC25S0009	24 - 25
GC-25 CLOSED SD	08GC25S0012	24 - 25
GC-25 DLC Coated Ceramics SD	08GC25S0011	24 - 25
GC-25 Closed DLC coated Ceramics SD	08GC25S0013	24 - 25
GC-25 Split SD	08GC25S0017	24 - 25

## Special



	Code	Page
Revolving GI-25 SD	08GI25S0002	24 - 25



	Code	Page
Joystick JY-25 SD	08JY25S0002	28 - 29

## Complements



	Code	Page
Waterway Body & Nut	020167	30 - 31

## 26mm

### Upper Sealing – Regular



	Code	Page
EX-26 Standard	08EX26L0001	34 - 35
EX-26 Short	08EX26L0003	34 - 35
EX-26 Short Cold	08EX26L1501	34 - 35

## 27mm

### Upper Sealing – TOP



	Code	Page
EX-27 Standard	08EX27L0002	38 - 39
EX-27 Due	08EX27L3002	38 - 39
EX-27 Cold	08EX27L1502	38 - 39
EX-27 Cold Due	08EX27L2002	38 - 39

## 28mm

### Upper Sealing – TOP



	Code	Page
EX-28 TOP C1 TRN	08EX28L0501	42 - 43
EX-28 TOP Due C2 TRN	08EX28L3501	42 - 43
EX-28 TOP Cold Ch3 TRN	08EX28L2501	42 - 43
EX-28 TOP Cold Due C3 TRN	08EX28L5001	42 - 43
EX-28 TOP Cold Mirror TRN	08EX28L2502	42 - 43
EX-28 TOP Cold Mirror Due TRN	08EX28L5002	42 - 43
EcoFlow	08EX28L0503	42 - 43
EcoFlow Cold	08EX28L2504	42 - 43

### Upper Sealing – Regular



	Code	Page
EX-28 Compat	08EX28L0002	44 - 45

### SN-28



	Code	Page
SN-28 S/D	08SN28S0002	46 - 47

Single lever faucets

25 mm

Cartridge

# Sedal

*SN-35 EcoFlow with Metal Lever*



# EN-25 TOP

TOP DUE | COLD | MIRROR

## Versions

	C/D	S/D
TOP Due C2	08EN25L3001	08EN25S3001
TOP Cold Ch3	08EN25L1501	08EN25S1501
TOP Cold due C3	08EN25L2001	08EN25S2001
TOP Cold Mirror	08EN25L1502	08EN25S1502
TOP Cold Mirror Due	08EN25L2002	08EN25S2002



EN-25 TOP C/D



EN-25 TOP S/D

## Description

The smallest size in our TOP cartridge range, featuring a slim design with both high and low base options. Engineered for the highest level of performance in kitchen and basin faucet applications, and compatible with metal levers for enhanced durability and precision.

## Features



Due



Mirror



Cold

## Technical Specifications

General	C/D & S/D
Nut torque pitch M1.5	7-8Nm
Opening angle	22,5°
Rotation angle	100 <sup>a</sup> (93° energy saving)
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
EN817 – NF ECAU	175,000 cycles
ASME 112.18.1 M	1.000.000 cycles
Sensitivity Basin (l)	>12°
Fidelity (l)	<5°C
Constancy 63°C & 50°C (6 l/m & 3 l/m) (l)	<4°C - <6°C
Max. hot water recommended	90 °C

Flow Rate (@ 3 Bar)	C/D & S/D
DN8 (free flow)	14,8 l/min
DN8 (RhA)	10,8 l/min

Operating torque (@ 3 Bar)	C/D	S/D
Open - close	0,2 Nm	0,4 Nm
at 1 bar	0,15 Nm	0,3 Nm
at 3 bar	0,2 Nm	0,35 Nm



## Advantages

### Strong Materials

Constructed with strong and long-lasting materials, these cartridges are designed to provide the best user experience.

### Cold and Mirror Technology

In some versions, the lever of this 25 mm cartridge is set to the cold position by default (centered), saving on household energy consumption related to plumbing products.



### Smooth operation

These cartridges offer up to 3 times smoother operation than most standard mechanical cartridges, providing a even feel when operated. Enjoy smooth performance even under very hot water conditions.

### Lower Noise level

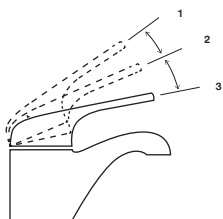
The TOP family produces less than 20 dB of noise, which is 20% quieter than both the market average and its closest competitor in its segment

### High Flow

The TOP family offers a 5% higher flow rate than the market average in this segment. Additionally, it outperforms its closest competitor by delivering a 3.5% greater flow rate.

### Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



1. MAX = 23° = 100%
2. CLICK = 13° = 60%
3. OFF = 0° = 0%

### Plus in sensitivity

The TOP family has 13% more sensitivity than its closest competitor and offers 20% more sensitivity than the average cartridge in the market.

## Recommended Applications



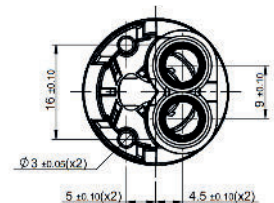
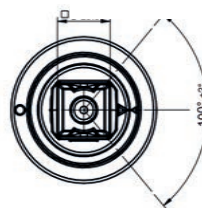
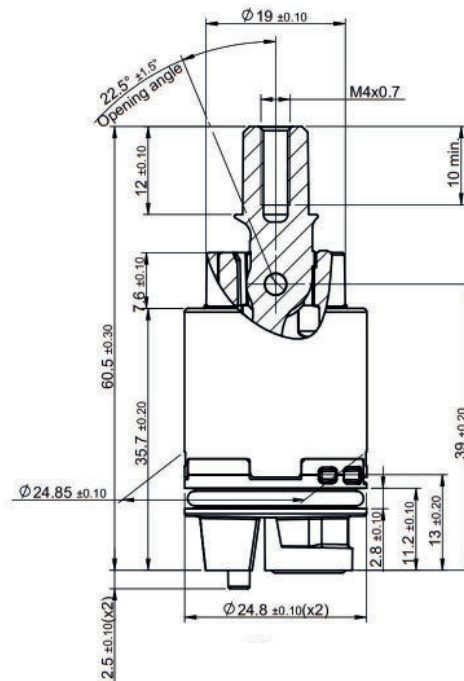
Bathroom Faucet



Kitchen Faucet

## Dimensions

Find machining requirements on page 48 - 51



## Certifications

ACS

WRAS

KTW

NSF

\*Ready for NF

# Upper Sealing – TOP EX25

12,5° - 12,5° | 0° - 23°

## Versions

Opening Angle	4 mm pins	5 mm pins
12,5° / 12,5°	08EX25L0001	08EX25L0004
0° / 23°	08EX25L0002	08EX25L0003






EX-25 TOP C/D

## Description

The EX25 TOP is a high-performance 25mm upper sealing cartridge with free outlets. It offers a wide range of options, including two opening angle ranges and two pin patterns, ensuring maximum compatibility. With its small diameter, the EX25 TOP allows manufacturers to design faucets with a smaller footprint, enabling brass-saving products while maintaining premium performance and meeting industry standards.

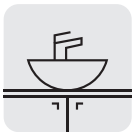
## Features

-  Eco
-  Metal lever
-  Upper sealing

## Technical Specifications

General		Operation torque (@ 3 bar)	
Nut torque pitch M1.5	7-8Nm	Turn left-right	0.15 - 0.35 Nm
Opening angle	23° / 25° (12.5° / 12.5°)	Open-close	0.15 - 0.35 Nm
Rotation angle	100°	Flow rate basin faucet (@ 3 bar)	
Working pressure (recommended)	1 - 5 bar	Free Flow Mix	12,3 l/min
Burst pressure	>50 bar	RhA flow Mix	9,5 l/min
Life cycle - EN 817 ASME A112.18.1	175,000 cycles	Acoustic (NF077) RhA @3 bar	Group I
Sensitivity (r=52mm)	>12° angle		
Fidelity	<5°C		
Constancy 63°C & 50°C (6 l/m & 3 l/m) (1)	<4°C - <6°C		
Max. hot water recommended	90 °C		

# Recomended Applications

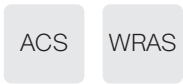


Bathroom Faucet



Kitchen Faucet

# Certifications



# Advantages

## Metal Lever

Our metallic levers are designed to provide superior durability and longevity, even in demanding applications. Constructed from high-quality materials, these levers offer a robust feel and ensure precise control of water flow and temperature. Their strength and resistance to wear make them ideal for faucets that require frequent use, delivering a reliable and smooth operation over time. The sleek metallic finish also adds a modern, premium look to any faucet design.

## Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

## Strong Materials

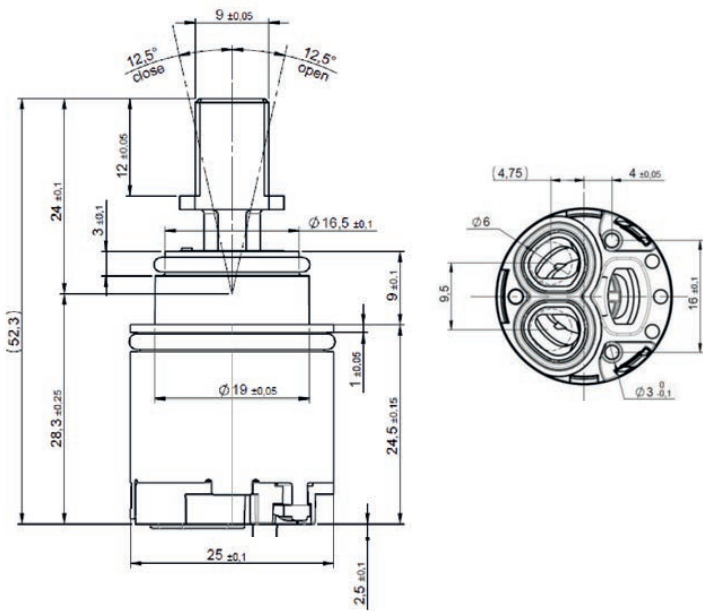
The TOP range cartridges incorporate the latest technologies to ensure smooth operation, even in the most demanding applications. Built with strong, durable materials, these cartridges are designed to provide a long-lasting and reliable user experience.

## Smooth operation

These cartridges offer up to 3 times smoother operation than most standard mechanical cartridges, providing a even feel when operated. Enjoy smooth performance even under very hot water conditions.

# Dimensions

Find machining requirements on page 48 - 51



## Noise performance

TOP cartridges operate at less than 20dB, which is 20% quieter than the average in its market segment and even its closest competitor. This reduced noise level ensures a quieter user experience, making it ideal for applications where sound reduction is important.

## Flexible Fixation

The different fixation methods, including 4 mm and 5 mm pins, allow manufacturers to choose the best option for each faucet design. These pins provide secure and stable cartridge installation, ensuring precise alignment and reliable operation. The flexibility of these fixation options ensures compatibility with a wide range of faucet models, delivering a high-quality user experience.

## Two Opening Angles

The EX25 cartridge offers two distinct opening angles: 0°-23° and 12.5°-12.5°, giving manufacturers the flexibility to choose the most suitable option based on lever design requirements. This feature ensures compatibility with different faucet styles, making installation easier and reducing the need for additional adjustments.

## Sleek and High Performance

The EX25 cartridge's compact design enables manufacturers to create sleek, minimalistic faucets without compromising on high-performance features. Despite its small size, the EX25 delivers reliable operation, maintaining the premium performance expected in modern faucet systems.

SN-25

COLD | MIIRROR | HIGH SENSITIVITY

Versions

	CD	SD
Standard	08SN25LG000	08SN25FG000
Cold	08SN25L1503	08SN25S1503
Cold Mirror	08SN25L1504	08SN25S1504
High Sensitivity	08SN25L0016	08SN25S0016
Metal Lever	08SN25LXXX	08SN25SXXX



SN-25 C/D



SN-25 S/D

Description

The SN-25 cartridges from Sedal are engineered to exceed industry standards. Featuring a robust lever, smooth operation, and a higher flow rate than previous versions, these cartridges offer enhanced performance and reliability for your faucet designs.

Features



Metal lever  
\*Only some special versions available



Mirror



Soft

Technical Specifications

General	C/D & S/D
Nut torque pitch M1.25	7-8Nm
Opening angle	22.5°
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=45mm)	>12mm
Fidelity	<5°C
Constancy 63°C & 50°C (6 l/m & 3 l/m) (l)	<4°C - <6°C
Max. hot water recommended	90 °C

Operation Torque	C/D & S/D	
Open-close	0.20-0.40 Nm	
Turn left-right	0.15-0.35 Nm	
Flow Rate (free flow)	C/D (basin)	S/D (basin)
at 0.2 bar	5 l/min	4.8 l/min
at 1 bar	10.5 l/min	10 l/min
at 3 bar	17.2 l/min	16.9 l/min
at 5 bar	23.5 l/min	21 l/min
Flow Rate (free flow)	C/D (bath)	S/D (bath)
at 0.2 bar	5.6 l/min	3.2 l/min
at 1 bar	12.1 l/min	11.1 l/min
at 3 bar	20.8 l/min	19.1 l/min
at 5 bar	26.5 l/min	24.2 l/min



## Advantages

### SN technology

In the closed position, the ceramic discs do not move, ensuring smoother operation and extending durability by up to 20% compared to EN designs.

### Improved Performance

Understanding that smaller cartridges often face challenges in tough conditions, Sedal has developed a new valve that greatly improves technical specifications compared to market standards.

Our advancements include:

+10% increase in flow rate than the nearest competitor.  
Enhance operational comfort

### Tough Construction for small Faucet Design

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

### High Sensitivity

The high sensitivity SN25 improves the sensitivity test result by more than 20%, enabling the cartridge to be used with shorter handles while keeping an excellent temperature control.

### Metal Lever

Our metallic levers are designed to provide superior durability and longevity, even in demanding applications. Constructed from high-quality materials, these levers offer a robust feel and ensure precise control of water flow and temperature. Their strength and resistance to wear make them ideal for faucets that require frequent use, delivering a reliable and smooth operation over time. The sleek metallic finish also adds a modern, premium look to any faucet design.

### Cold and Mirror Technology

In some versions, the lever of this 25 mm cartridge is set to the cold position by default (centered), saving on household energy consumption related to plumbing products.



## Recommended Applications



Bathroom Faucet



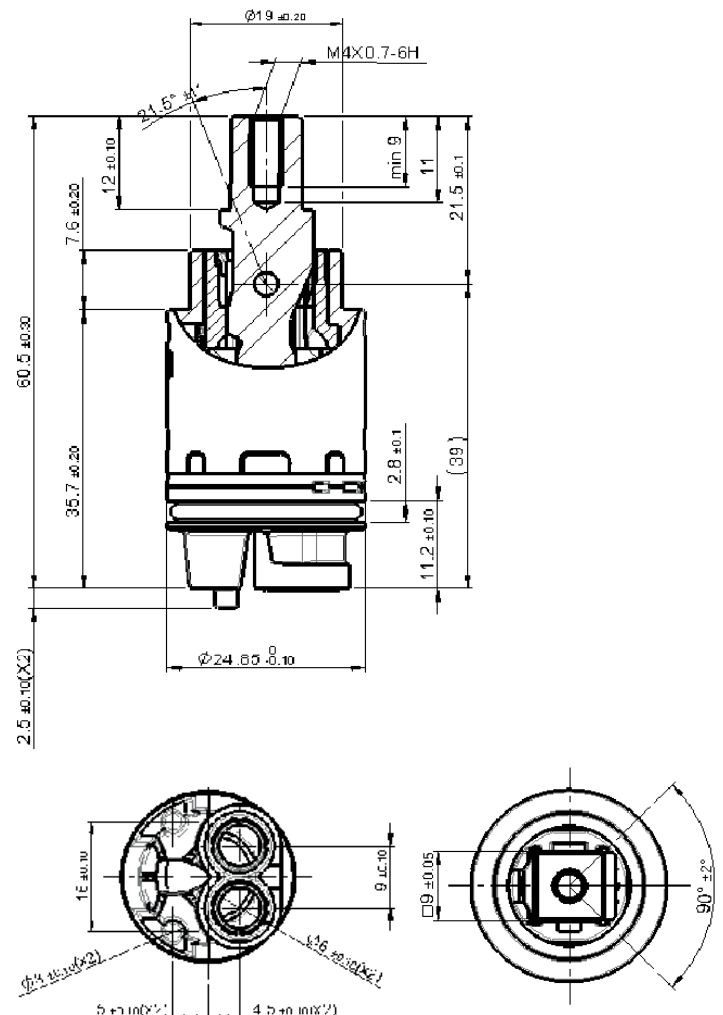
Kitchen Faucet



Shower Faucet

## Dimensions

Find machining requirements on page 48 - 51



## Certifications

AS/  
NZS

WRAS

KTW

NSF

ACS

\*Ready for NF

# ECOFLOW

## Standard



Ecoflow SN-25 C/D  
08SN25L0001







Ecoflow SN-25 S/D  
08SN25S0002

### Description

The Ecoflow cartridges are engineered to meet the latest standards and market trends where low-flow performance is essential. Instead of relying on traditional restrictors, the Ecoflow cartridge, combined with an aerator, achieves the required flow rates while eliminating the drawbacks of many current solutions.

This Ecoflow SN-25 mm is specifically designed to deliver a precise flow of 5.5 liters at 3 bar with a Z class aerator. It also features a clutch for smooth operation and a high maximum torque resistance, ensuring durability in demanding environments.

### Features

-  Eco
-  Soft
-  Restrictor in the cartridge
-  Water Sense

### Technical Specifications

General		C/D & S/D
Nut torque pitch M1.5		7-8Nm
Opening angle		22.5°
Rotation angle		90°
Working pressure (recommended)		1 - 5 bar
Burst pressure		>35 bar
Life cycle - EN 817		70,000 cycles
ASME A112.18.1 M		500,000 cycles
Sensitivity		>12mm
Fidelity		<5°C
Constant 63°C & 50°C (6 l/m & 3 l/m) (1)		<4°C - <6°C
Max. hot water recommended		90 °C

Operation Torque		C/D & S/D
Open-close		0.20-0.40 Nm
Turn left-right		0.15-0.35 Nm
Flow Rate (free flow)		C/D & S/D
at 0.2 bar		1.5 l/min
at 1 bar		3.7 l/min
at 3 bar		6.1 l/min
at 5 bar		7.3 l/min

# Advantages

**SN technology**

In the closed position, the ceramic discs do not move, ensuring smoother operation and extending durability by up to 20% compared to EN designs.

**Full stroke Flow Regulation**

ECOFLOW cartridges offer a more gradual and precise flow regulation throughout the entire stroke, providing enhanced control and efficiency compared to traditional solutions.

13-15° Stroke no flow variation

8-10° Stroke max flow reached

**Standard Cartridge**  
Max. Flow: 6 l/min with limiter

Progressive flow through full stroke

**EcoFlow Cartridge**  
Max. Flow: 6 l/min with EcoFlow

**Reduce Temperature fluctuation**

When using a flow limiter in the spout with standard cartridges, users can experience significant changes in water temperature. The new ECOFLOW Technological valves ensure excellent temperature stability, even with pressure variations in cold and hot water supply lines at low flow rates.

Standard Cartridge with flow limiter

eco FLOW

**Optional Restrictor Usage**

EcoFlow ensures the flow rate reduction occurs directly at the ceramic of the cartridge, the optimal point for precise control. This makes the use of a limiter or restrictor optional, depending on the application.

**Merge it with any cartridge**

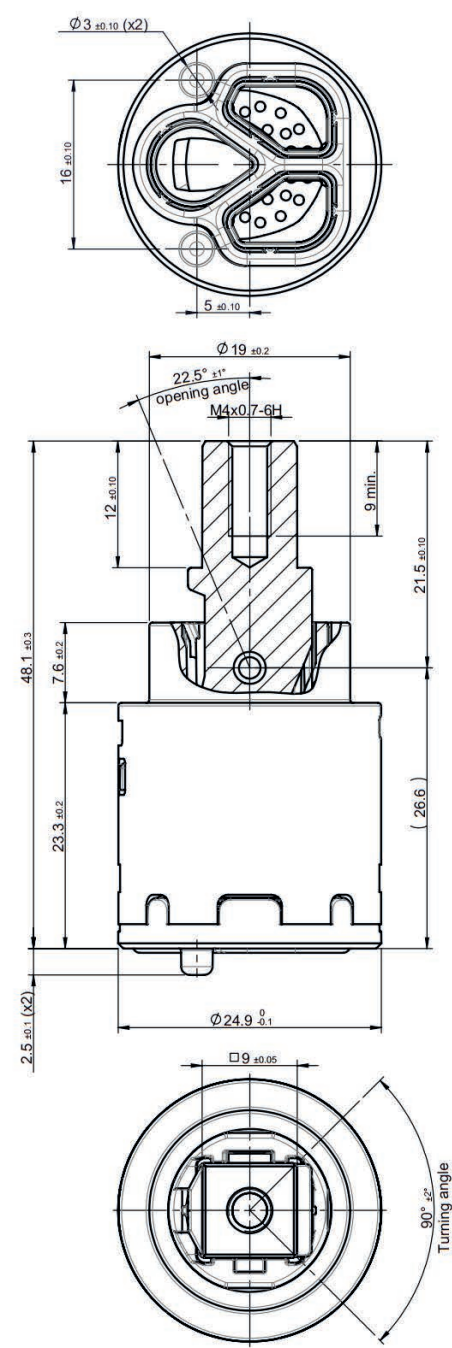
EcoFlow technology is built into the ceramics of the cartridge, allowing us to adapt almost any model into an EcoFlow version. This flexibility enables water-saving features across various faucet designs, ensuring efficient use without compromising performance or user experience.

# Recomended Applications

**Bathroom Faucet**

## Dimensions

Find machining requirements on page 48 - 51



## Certifications

AS/NZS

WRAS

KTW

NSF

ACS

WATER SENSE

\*Ready for NF

# Upper Sealing – Regular GC25

CLOSED | DLC COATED CERAMICS | METAL LEVER SPLIT

## Versions

	SD
Standard	08GC25S0009
Closed	08GC25S0012
DLC Coated Ceramics	08GC25S0011
Closed DLC Coated Ceramics	08GC25S0013
Metal Lever Split	08GC25S0017



GC-25 S/D

## Description

Upper sealed cartridges from Sedal provide manufacturers with the versatility to design a wide range of faucet configurations, setups where the spout is located on the upper side. These cartridges feature a strong metal lever, offering enhanced durability and extended lifespan, perfect for high-demand applications. Their innovative design also boosts productivity, making them a reliable solution for modern faucet systems.

## Features



Metal lever



DLC coating



Trialox Technology



Upper sealing

## Technical Specifications

General		Operation Torque	
Nut torque pitch M1.5	7-8Nm	Open-close	0.15 - 0.30 Nm
Opening angle	23°	Turn left-right	0.15 - 0.30 Nm
Rotation angle	90°		
Flow Rate (free flow)			
Working pressure (recommended)	1 - 5 bar	at 0.5 bar	6.2 l/min
Burst pressure	>35 bar	at 1 bar	9.2 l/min
Life cycle - EN 817	70,000 cycles	at 3 bar	16.1 l/min
ASME A112.18.1 M	500,000 cycles	at 5 bar	20.9 l/min
Sensitivity (r=52mm)	>11°-13°mm		
Fidelity	<5°C		
Constant 63°C & 50°C (6 l/m & 3 l/m) (l)	<4°C - <6°C		
Max. hot water recommended	90°C		

# Advantages

**Upper Sealing Cartridges**

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

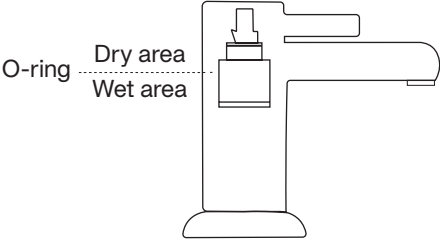
**Sedal's Trialox Technology**

The new GC-25 Trialox cartridge, powered by Sedal's Trialox Technology, boosts life expectancy and ensures smooth operation. This 25mm upper sealing cartridge delivers a high flow rate in a compact size.

Its innovative design features a mobile ceramic disc between two fixed ones, allowing water to flow through the lower ceramic into the mixing chamber. The upper fixed ceramic provides smooth operation and leak protection, enhancing both durability and user experience.

**Supports Multiple Faucet Configurations**

Enables manufacturers to design various faucet configurations, including those with the spout positioned on the upper side.



**High Flow and Compliance with EN817 or ASME Standards**

The GC-25 Trialox delivers high flow while ensuring full compliance with EN817 or ASME cycling standards, maintaining consistent torque and comfort throughout its operation.


**DLC Coated Ceramics – Optional**

A Diamond Coated ceramic set is available as an option, offering improvement in operation torque, life expectancy, and a reduction in chatter effect under extremely high temperatures.

**Metal Lever**

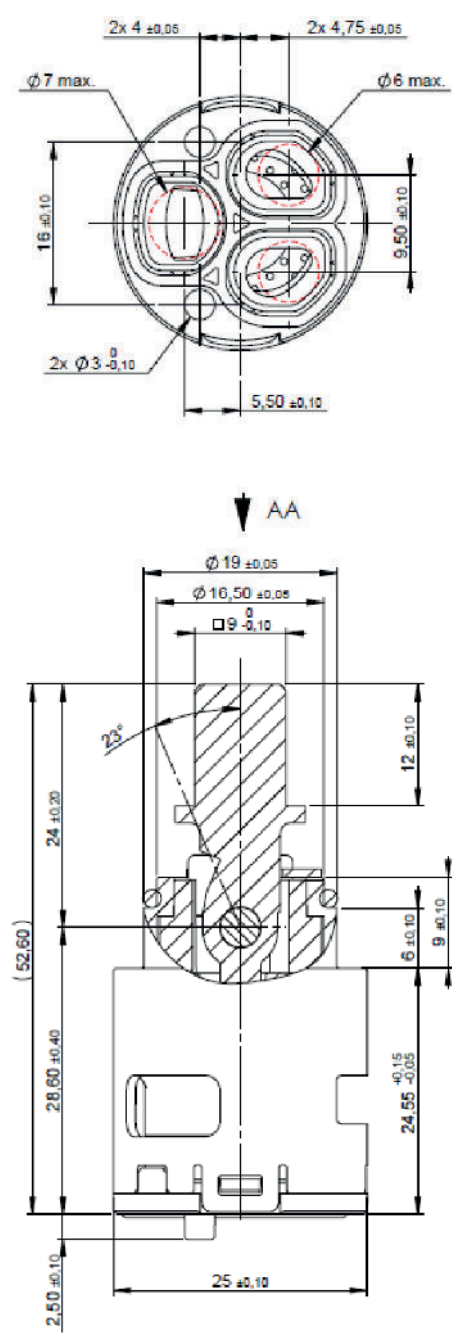
Our metallic levers are designed to provide superior durability and longevity, even in demanding applications. Constructed from high-quality materials, these levers offer a robust feel and ensure precise control of water flow and temperature. Their strength and resistance to wear make them ideal for faucets that require frequent use, delivering a reliable and smooth operation over time. The sleek metallic finish also adds a modern, premium look to any faucet design.

# Recommended Applications

**Bathroom Faucet**

# Dimensions

Find machining requirements on page 48 - 51



# Certifications

AS/  
NZS

WRAS

KTW

NSF

ACS

\*Ready for NF

# SPECIAL - Revolving

Standard



GI-25 S/D  
08GI25S0002

## Description

The GI25 revolving cartridge is engineered to first regulate water flow, with temperature control coming into play at the end of the lever's rotation. This design ensures that the water flow is optimized before temperature adjustments are made, offering a structured and controlled faucet operation.

## Features



Metal Lever



Revolving



Cold



Eco

## Technical Specifications

General		Operation Torque	
Nut torque pitch M1.5	7-8Nm	Turn left-right	0.15 - 0.35 Nm
Rotation angle	180°		
Working pressure (recommended)	1 - 5 bar	Flow Rate (free flow)	
Burst pressure	25-30 bar	at 0.5 bar	3.9 l/min
Life cycle - EN 200	200,000 cycles	at 1 bar	5.6 l/min
ASME 112.18.1 M	500,000 cycles	at 3 bar	9.6 l/min
Max. hot water	90°C	at 5 bar	12.4 l/min







# SPECIAL - Joystick

Standard



JY-25 S/D  
08JY25S0002

## Description

Popular in many countries, joystick cartridges offer a natural and intuitive movement, particularly with vertical levers. Sedal's JY25 is a compact joystick cartridge, specifically developed for slim faucet bodies and cascade tap designs. Its design ensures precise control and smooth operation, making it ideal for modern, minimalist faucet configurations.

## Features



Metal lever



Joystick movement

## Technical Specifications

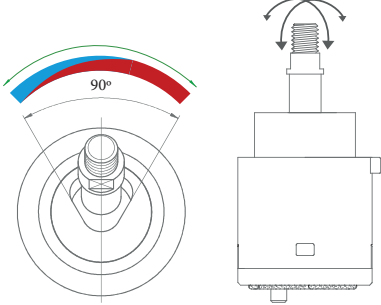
General	
Nut torque pitch M1.5	7-8Nm
Opening angle	23°
Rotation angle	80°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817	70,000 cycles
Max. hot water	90°C

Operation Torque	
Turn left-right	0.15 - 0.30 Nm
Flow Rate (free flow)	
at 0.5 bar	6.0 l/min
at 1 bar	8.5 l/min
at 3 bar	14.4 l/min
at 5 bar	18.5 l/min

# Advantages

### Joystick Cartridges

Joystick cartridges offer a distinct functionality compared to standard cartridges. With the lever in the upright closed position, water flow is activated by pulling the lever towards you, giving designers more creative freedom in faucet designs. This design also offers a sleek, modern appearance, resembling a game joystick, which can add an innovative touch to contemporary faucet systems.



### Smallest Joystick in the market

Sedal's 25 mm Joystick is the smallest joystick cartridge in the industry, allowing the manufacturers who trust us, the possibility to create a slimmer faucet with a joystick-type lever.


### Higher Flow Rate

Thanks to new materials and ceramics we have improved the flowrate compared with old versions of the same cartridge.

### Metal Lever

Our metallic levers are designed to provide superior durability and longevity, even in demanding applications. Constructed from high-quality materials, these levers offer a robust feel and ensure precise control of water flow and temperature. Their strength and wear resistance make them ideal for faucets that require frequent use, delivering a reliable and smooth operation over time.

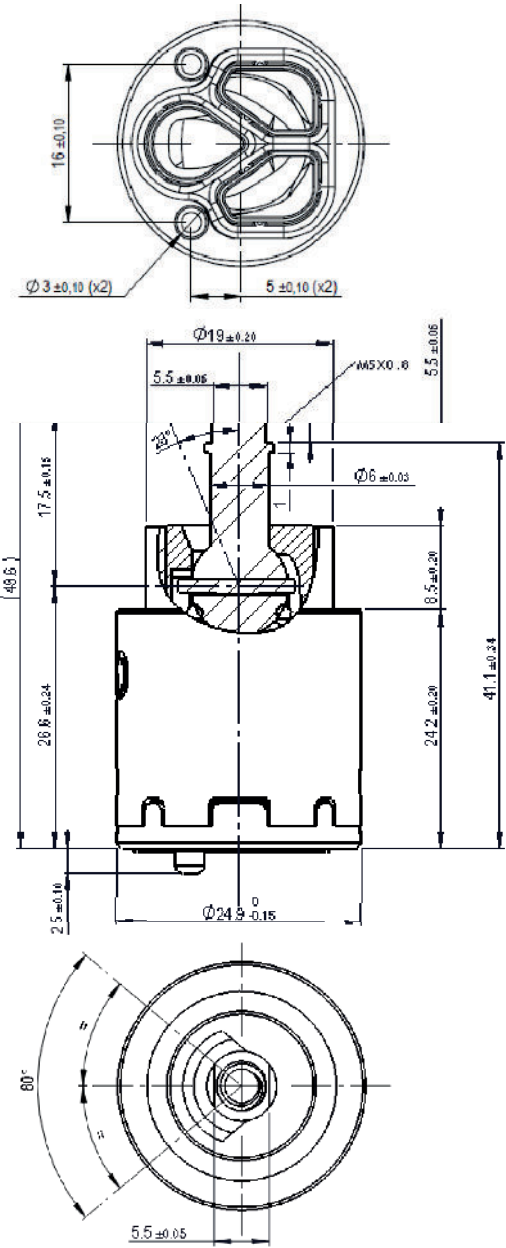
# Recomended Applications



### Bathroom Faucet

# Dimensions

Find machining requirements on page 48 - 51



# Certifications

AS/  
NZS

KTW

NSF

ACS

\*Ready for NF

# COMPLEMENT – Fitting Kit

Waterway

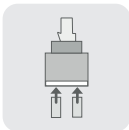


Body and Nut  
020167

## Description

Our technical 25 mm kit consists of a base and retaining nut combined into a single SKU, streamlining your faucet project by reducing the need for extensive machining and critical dimensions. Designed for compatibility, this kit works seamlessly with almost any 25 mm cartridge. The materials used in this kit have been carefully selected to meet the most demanding standards worldwide, ensuring durability and reliability in your faucet designs.

## Features



Direct Plug-in



Easy Machining

## Technical Specifications

General	
Nut torque (SEDAL SN25 family recommend)	5-6Nm
Working pressure (recommended)	1-5 bar
Flexible connection threaded torque	Max 8Nm

# Advantages

**Full Assembly**

The full assembly includes a base, cartridge, and retaining nut, offering a ready-to-install solution for simplifying faucet projects. This streamlined kit reduces the need for multiple components and complex machining, making installation faster and more efficient.

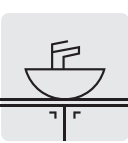
**Machining Simplified**


This assembly simplifies body machining to the bare minimum, while maintaining full functionality and ensuring high precision operation. It allows manufacturers to streamline production without compromising on performance.

**Direct plug-in**

Water inlet hoses are plugged directly into the cartridges, preventing water from coming into contact with the faucet base. This design protects the faucet from exposure to lead and other potentially harmful metals, allowing manufacturers to use a wider range of materials for the base without compromising safety or compliance.

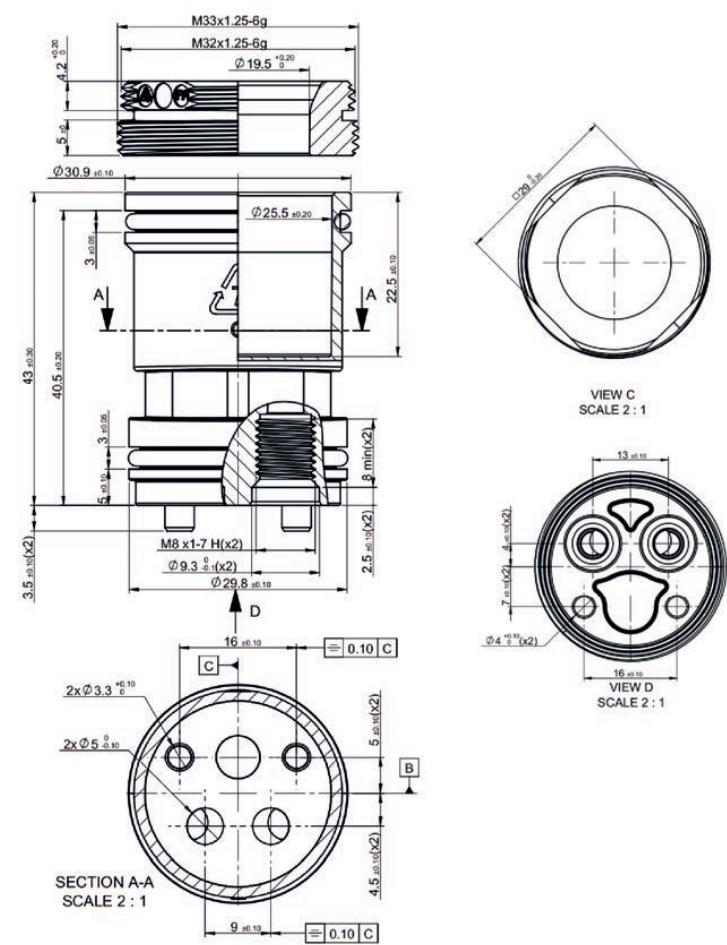
# Recomended Applications

 Bathroom Faucet

 Kitchen Faucet

# Dimensions

Find machining requirements on page 48 - 51



# Certifications

WRAS

KTW

NSF

ACS

\*Ready for NF

Single lever faucets

26 mm

Cartridge

# Sedal

*Ex-26 Short Cold*



# Upper Sealing – Regular and Short EX26

Standard | Short

## Versions

	SD
Standard	08EX26L0001
Short	08EX26L0003
Short Cold	08EX26L1501



EX 26 C/D

## Description

This small diameter upper sealing cartridge is designed to create slim faucets with a high sealing position, perfect for modern designs. Made with high-degree thermoplastics, it fulfills major standards and is built to last. Additionally, the bottom part of the cover is crafted from a single piece, ensuring watertight integrity and preventing any water from entering, offering durability and reliability in every application.

## Features



Upper sealing



Soft

## Technical Specifications

General	
Nut torque (pitch 1,5mm)	7-8Nm
Opening angle	21°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life test 2 x EN 817 / GB18145	140,000 cycles
Sensitivity NF-077	>10 mm
Fidelity NF-077	<5°C
Constant 63°C & 50°C (6 l/mini - 3l/min)	<4°C - <6°C
Max. hot water	90°C

Operation Torque (@ 3 bar)	
Open-close	0.20 - 0.40 Nm
Turn at close	0.10 - 0.40 Nm
Turn at open	0.10 - 0.40 Nm

Flow rate basin faucet (@ 3 bar)	
Free flow (Mix)	16.0 l/min



## Advantages

## Sleek and High Performance

The EX26 cartridge's compact design enables manufacturers to create sleek, minimalistic faucets without compromising on high-performance features. Despite its small size, the EX26 delivers reliable operation, maintaining the premium performance expected in modern faucet systems.

## Strong Materials

Constructed with strong and long-lasting materials, these cartridges are designed to provide the best user experience.

## Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

## Recommended Applications



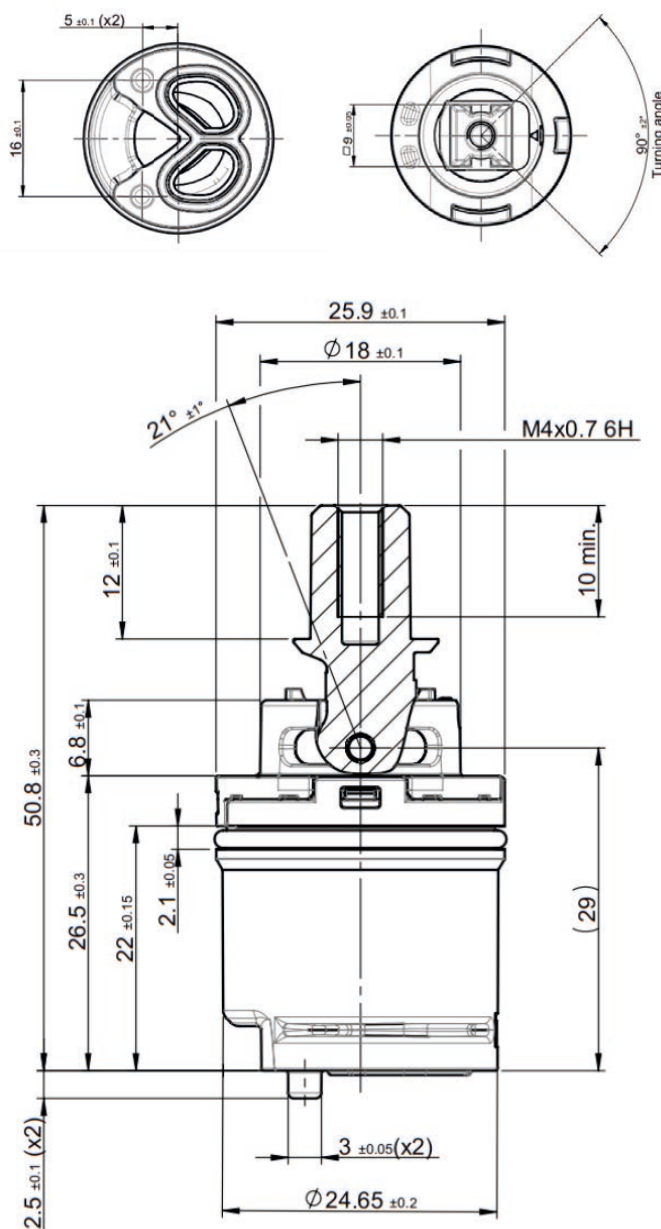
## Bathroom Faucet



## Kitchen Faucet

# Dimensions

Find machining requirements on page 48 - 51



## Certifications



Single lever faucets

27 mm

Cartridge

# Sedal

EX-27 TOP



# Upper Sealing – TOP EX27

TOP DUE C2 | COLD Ch3 | MIRROR

## Versions

	C/D
TOP C1	08EX27L0002
TOP Due C2	08EX27L3002
TOP Cold Ch3	08EX27L1502
TOP Cold Due C3	08EX27L2002




EX 27 C/D

## Description


The EX-27 cartridge offers a unique slim design, positioned between the 35mm and 25mm faucet options, allowing manufacturers to maintain sleek aesthetics without sacrificing performance. Thanks to high-grade ceramics, it delivers exceptionally smooth operational movement while meeting the stringent NF-007 standard.

In addition to its slim profile, the EX-27 provides a higher flow rate, offering greater flexibility in faucet configurations. With its upper sealing design, manufacturers can work with a variety of faucet setups, ensuring both design versatility and reliable performance.


## Features




Upper sealing




High flowrate



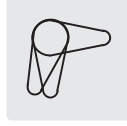
Cold



Due



Soft



Mirror

## Technical Specifications

General		Operation Torque (@ 3 bar)	
Nut torque (pitch 1,5mm)	7-8Nm	Open-close	0.20 - 0.40 Nm
Opening angle	22°	Turn at close	0.15 - 0.30 Nm
Rotation angle	100°	Turn at open	0.15 - 0.30 Nm
Working pressure (recommended)	1 - 5 bar	Flow rate DN8 faucet (@ 3 bar)	
Burst pressure	>50 bar	Free flow (Mix)	12.5 l/min
Life test 2 x EN 817 / GB18145	140,000 cycles		
Sensitivity NF-077	>10 mm		
Fidelity NF-077	<5°C		
Constant 63°C & 50°C (6 l/mini - 3l/min)	<4°C - <6°C		
Max. hot water	90°C		

# Advantages

**Upper Sealing Cartridges**

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

**Supports Multiple Faucet Configuration**

Enables manufacturers to design various faucet configurations, including those with the spout positioned on the upper side.

**Strong Materials**

The TOP range cartridges incorporate the latest technologies to ensure smooth operation, even in the most demanding applications. Built with strong, durable materials, these cartridges are designed to provide a long-lasting and reliable user experience.

**Smooth operation**

These cartridges offer up to 3 times smoother operation than most standard mechanical cartridges, providing a even feel when operated. Enjoy smooth performance even under very hot water conditions.

**Sleek and High Performance**

The EX7 cartridge's compact design enables manufacturers to create sleek, minimalistic faucets without compromising on high-performance features. Despite its small size, the EX25 delivers reliable operation, maintaining the premium performance expected in modern faucet systems.

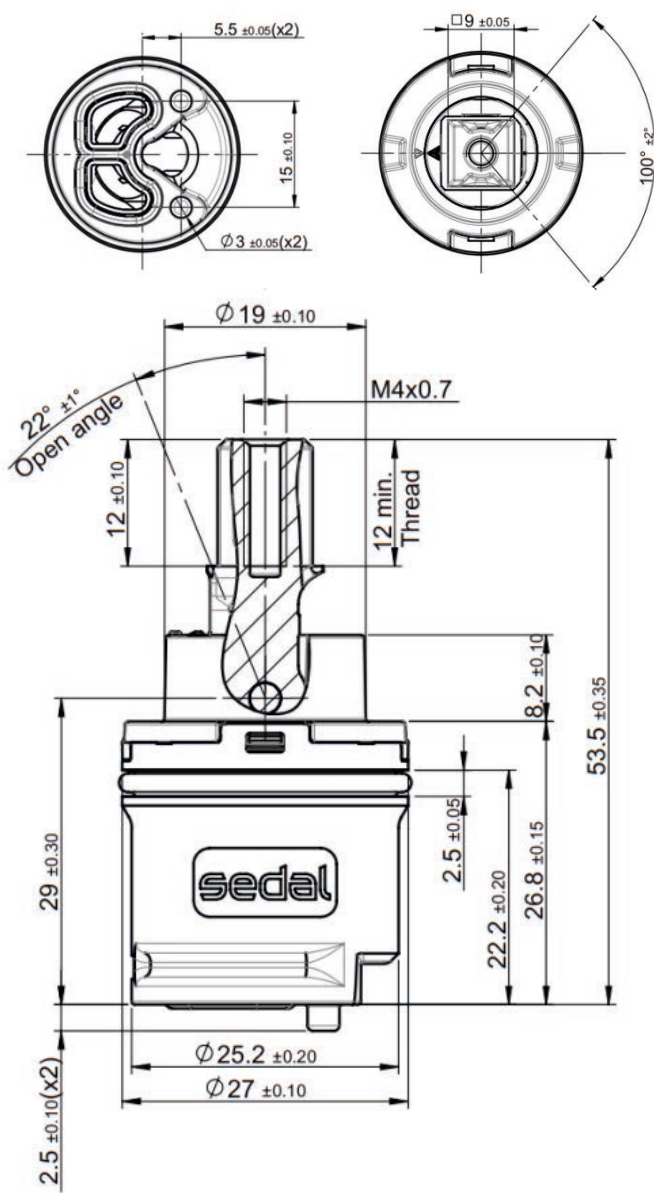
# Recomended Applications

**Bathroom Faucet**

**Kitchen Faucet**

# Dimensions

Find machining requirements on page 48 - 51



# Certifications

WRAS

KTW

NSF

ACS

AS/NZS

\*Ready for NF

Single lever faucets

28 mm

Cartridge

# Sedal

*EX-28 Upper Sealing*





# Upper Sealing – TOP EX28

DUE | COLD | MIRROR | COLD DUE | COLD MIRROR | COLD MIRROR DUE

## Versions

	SD
TOP C1	08EX28L0501
TOP Due C2	08EX28L3501
TOP Cold Ch3	08EX28L2501
TOP Cold Due C3	08EX28L5001
TOP Cold Mirror	08EX28L2502
TOP Cold Mirror Due	08EX28L5002
EcoFlow	08EX28L0503
EcoFlow Cold	08EX28L2504



EX 28 C/D

## Description

The TOP EX-28 cartridge provides smooth operational movement thanks to high-grade ceramics and is specially designed to meet the NF-007 standard. Its upper sealing design offers manufacturers greater flexibility in faucet configurations, particularly where the spout is positioned on the upper side. Built with strong materials, the EX-28 ensures reliable performance and long-lasting durability, making it ideal for modern faucet systems.

## Features



Upper sealing



Due



Cold



Strong Materials



Soft



Mirror

## Technical Specifications

General	
Nut torque M1,5	7-8Nm
Opening angle	22°
Rotation angle	93°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 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	>12° angle
Fidelity	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water	90°C

Operation Torque	
Open-close	0.15 - 0.30 Nm
Turn left-right	0.15 - 0.30 Nm

Flow rate (free flow DN8)	
at 3 bar	13.9 l/min

# Advantages

**Upper Sealing Cartridges**  
Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

**Strong Materials**  
The TOP range cartridges incorporate the latest technologies to ensure smooth operation, even in the most demanding applications. Built with strong, durable materials, these cartridges are designed to provide a long-lasting and reliable user experience.

**Smooth operation**  
These cartridges offer up to 3 times smoother operation than most standard mechanical cartridges, providing a even feel when operated. Enjoy smooth performance even under very hot water conditions.

**Noise performance**  
TOP cartridges operate at less than 20dB, which is 20% quieter than the average in its market segment and even its closest competitor. This reduced noise level ensures a quieter user experience, making it ideal for applications where sound reduction is important

**Cold and Mirror Technology**  
In some versions, the lever of this 25 mm cartridge is set to the cold position by default (centered), saving on household energy consumption related to plumbing products.



**Due technology**  
Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.

**Temperature Limiter Function (TR)**  
This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 8 selectable stops (every 11.25°), providing effective anti-scalding protection

# Recomended Applications



Bathroom Faucet



Kitchen Faucet



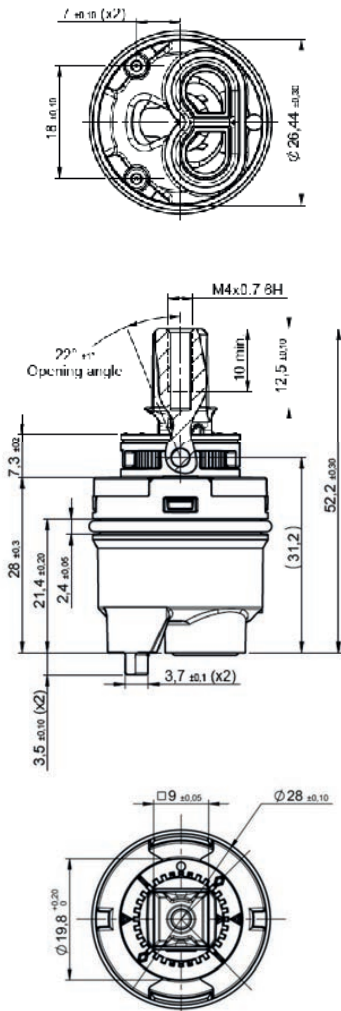
Concealed Bathroom



Concealed Kitchen

# Dimensions

Find machining requirements on page 48 - 51



# Certifications

- WRAS
- KTW
- NSF\*
- ACS
- NF\*

\*Ready for NF

# Upper Sealing - EX28 C/D

Standard






EX 28 C/D  
08EX28L0002

## Description

The EX28 cartridge is designed for washbasins, showers, and kitchen faucets, offering a compact size that allows manufacturers to create sleek, minimalistic faucet designs. Despite its smaller footprint, the EX28 delivers strength and performance comparable to larger 35mm cartridges, making it a versatile and powerful solution for modern faucet systems.

## Features

-  Soft
-  Upper sealing
-  High Flowrate

## Technical Specifications

General		Operation Torque	
Nut torque M1,5	7-8Nm	Open-close	0.2-0.4 Nm
Opening angle	22°	Turn left-right	0.15-0.4 Nm
Rotation angle	100°		
Working pressure (recommended)	1 - 5 bar		
Burst pressure	>35 bar		
Life test	2 x EN 817 2 x ASME 112.18.1 M 2 x GB18145	140,000 cycles 1,000,000 cycles 140,000 cycles	
Sensitivity (R=45mm)	>10 mm		
Fidelity	<5°C		
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C		
Max. hot water	90°C		
		Flow rate (free flow)	
		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

## Advantages

## Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

## Smooth operation

These cartridges offer up to 3 times smoother operation than most standard mechanical cartridges, providing a even feel when operated. Enjoy smooth performance even under very hot water conditions.

## Supports Multiple Faucet Configurations

Enables manufacturers to design various faucet configurations, including those with the spout positioned on the upper side.

## Sleek and High Performance

The EX28 cartridge's compact design enables manufacturers to create sleek, minimalistic faucets without compromising on high-performance features. Despite its small size, the EX28 delivers reliable operation, maintaining the premium performance expected in modern faucet systems.

## Recommended Applications



## Bathroom Faucet



## Kitchen Faucet



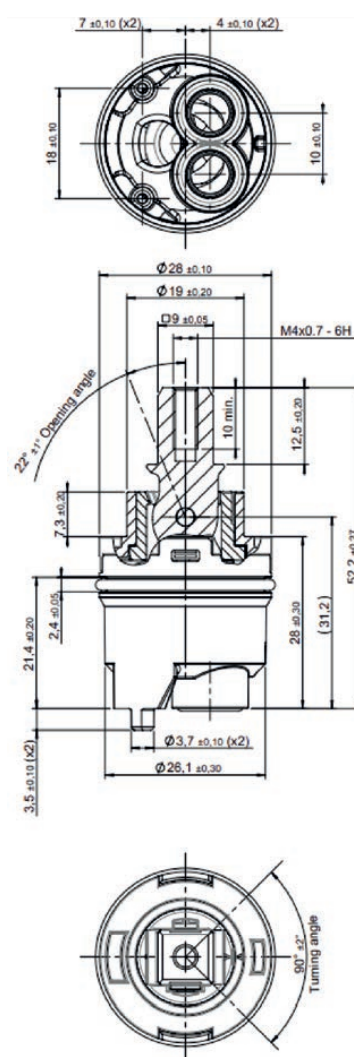
## Concealed Bathroom



## Concealed Kitchen

## Dimensions

Find machining requirements on page 48 - 51



## Certifications

WRAS

K T W

NSF\*

ACS

 $NF^*$ 

\*Ready for NF

# SN-28

Standard



SN-28 S/D

## Description

The SN28 cartridge offers a balanced design between 35mm and 25mm options, providing a slim profile without being as thin as 25mm cartridges. It features remarkably smooth operational movement, thanks to a clutched ceramic system and high-grade ceramics. This design ensures up to 40% softer lever operation compared to standard cartridges, enhancing user comfort.

Ideal for both kitchen and bathroom basin faucets, the SN28 cartridge combines versatility with premium performance, making it a great choice for modern faucet designs.

## Features

Soft

## Technical Specifications

General	
Nut torque M1,5	7-8 Nm
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 - 3l/min)	<4°C - <6°C
Max. hot water	90°C

Operation Torque	
Open-close	0.15-0.30 Nm
Turn left-right	0.15-0.35 Nm

Flow rate (free flow)	
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

# Advantages


**Sleek and High Performance**

The SN28 cartridge's compact design enables manufacturers to create sleek, minimalistic faucets without compromising on high-performance features. Despite its small size, the SN28 delivers reliable operation, maintaining the premium performance expected in modern faucet systems.


**Smooth operation**

These cartridges offer up to 3 times smoother operation than most standard mechanical cartridges, providing a even feel when operated. Enjoy smooth performance even under very hot water conditions.


# Recomended Applications




Bathroom Faucet




Kitchen Faucet




Shower



Concealed Bathroom



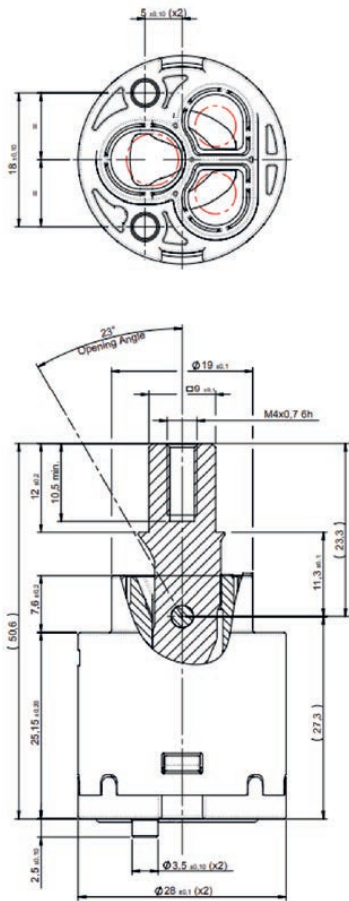
Concealed Kitchen



Concealed shower

# Dimensions

Find machining requirements on page 48 - 51



# Certifications

WRAS

KTW

NSF\*

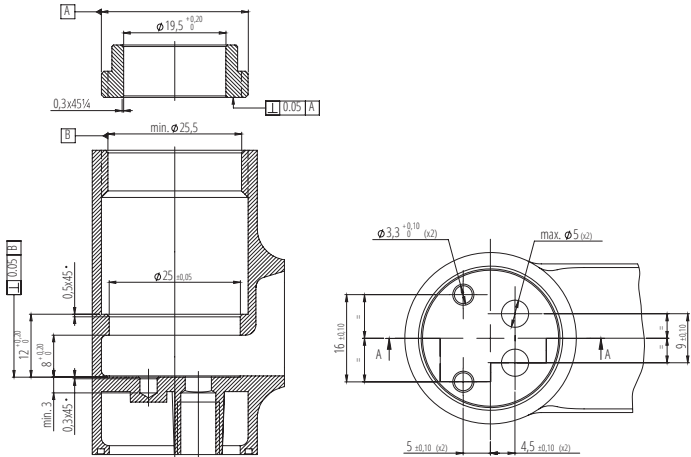
ACS

\*Ready for NF

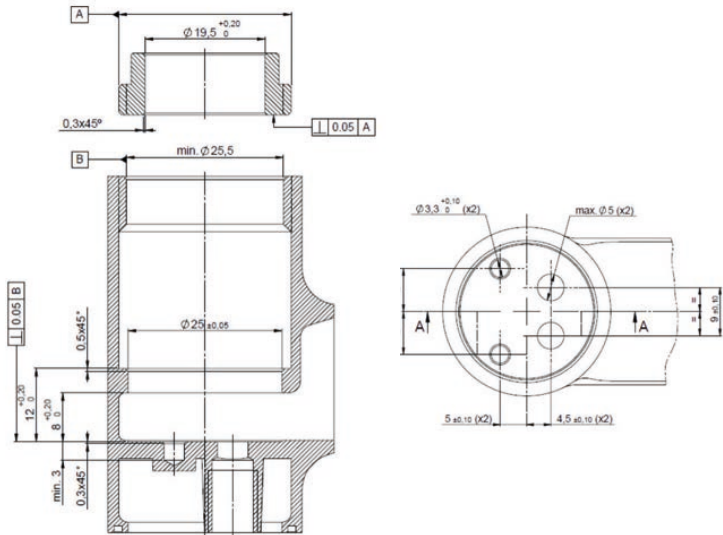
# Mechanical Requirements

## 25 mm

Diameter	Cartridge	Reference	Pg	Machining tip
25 mm	EN-25 TOP C/D	08EN25L0001	16 - 17	
	EN-25 TOP C/D Due	08EN25L3001	16 - 17	
	EN-25 TOP C/D Cold	08EN25L1501	16 - 17	
	EN-25 TOP C/D Cold Due	08EN25L2001	16 - 17	
	EN-25 TOP C/D Cold Mirror	08EN25L1502	16 - 17	
	EN-25 TOP C/D Cold Mirror Due	08EN25L2002	16 - 17	
	SN-25 C/D	08SN25LGO00	20 - 21	
	SN-25 C/D Cold	08SN25L1503	20 - 21	
	SN-25 C/D Cold Mirror	08SN25L1504	20 - 21	
	SN-25 C/D EcoFlow	08SN25L0001	22 - 23	

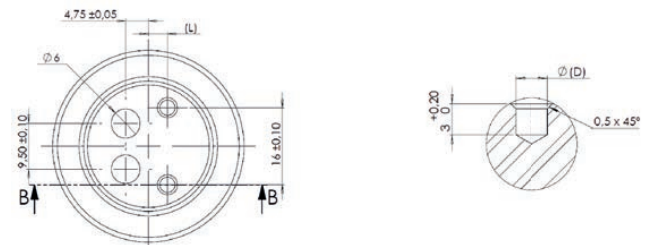


Diameter	Cartridge	Reference	Pg	Machining tip
25 mm	EN-25 TOP S/D	08EN25S0001	16 - 17	
	EN-25 TOP S/D Due	08EN25S3001	16 - 17	
	EN-25 TOP S/D Cold	08EN25S1501	16 - 17	
	EN-25 TOP S/D Cold Due	08EN25S2001	16 - 17	
	EN-25 TOP S/D Cold Mirror	08EN25S1502	16 - 17	
	EN-25 TOP S/D Cold Mirror Due	08EN25S2002	16 - 17	
	SN-25 S/D	08SN25FGO00	20 - 21	
	SN-25 S/D Cold	08SN25S1503	20 - 21	
	SN-25 S/D Cold Mirror	08SN25S1504	20 - 21	
	SN-25 S/D EcoFlow	08SN25S0002	20 - 21	
	GI-25 S/D	08GI25S0002	20 - 21	
	JY-25 S/D	08JY25S0002	20 - 21	

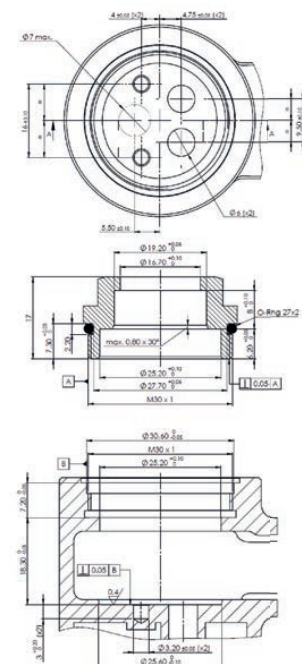




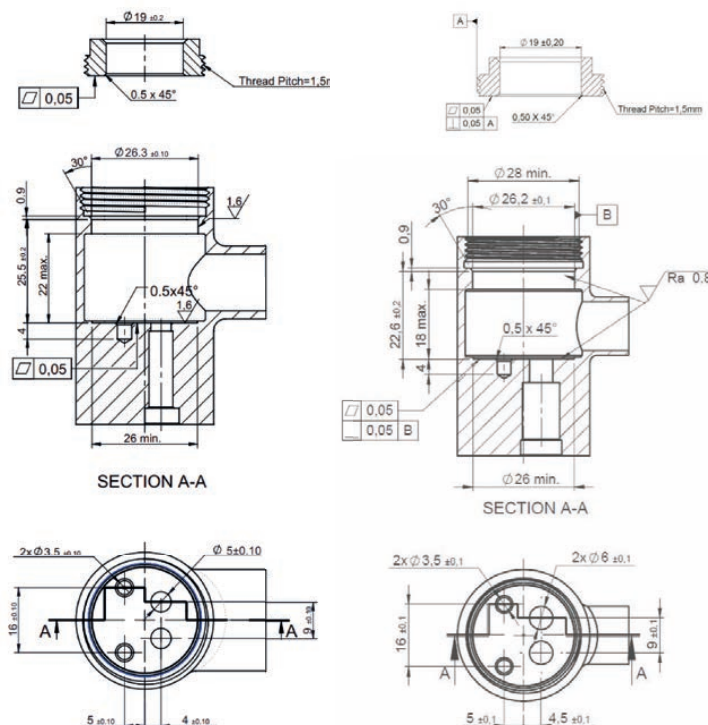
Diameter	Cartridge	Reference	Pg	Machining tip
25 mm	EX25 TOP C/D 12,5° - 12,5° (4 mm)	08EX25L0001	18 - 19	
	EX25 TOP C/D 0° - 23° (4 mm)	08EX25L0002	18 - 19	
	EX25 TOP C/D 0° - 23° (5 mm)	08EX25L0003	18 - 19	
	EX25 TOP C/D 12,5° - 12,5° (5 mm)	08EX25L0004	18 - 19	
	EX25 TOP C/D 12,5° - 12,5° - Round	08EX25L0005	18 - 19	
	EX25 TOP C/D 0° - 23° (4 mm) Neck Sealing	08EX25L0006	18 - 19	
	EX25 TOP C/D 12,5° - 12,5° (4 mm) Neck Sealing	08EX25L0008	18 - 19	
	EX25 TOP C/D 0° - 23° (5 mm) Neck Sealing	08EX25L0009	18 - 19	
	EX25 TOP C/D 12,5° - 12,5° (5 mm) Neck Sealing	08EX25L0010	18 - 19	
	EX25 TOP C/D 12,5° - 12,5° (4 mm) Body Sealing	08EX25L0011	18 - 19	
	EX25 TOP C/D 0° - 23° (4 mm) Body Sealing	08EX25L0012	18 - 19	
	EX25 TOP C/D 0° - 23° (5 mm) Body Sealing	08EX25L0013	18 - 19	
	EX25 TOP C/D 12,5° - 12,5° (5 mm) Body Sealing	08EX25L0014	18 - 19	



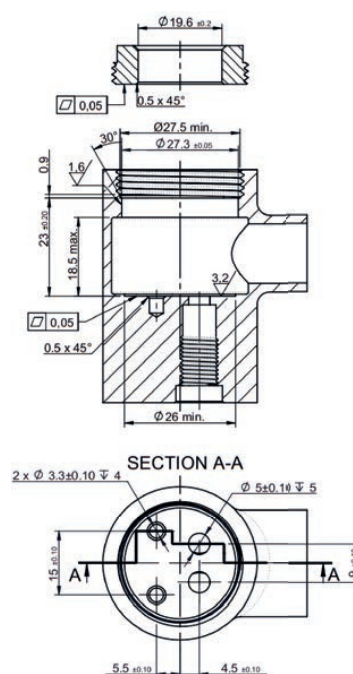
Diameter	Cartridge	Reference	Pg	Machining tip
25 mm	GC-25 S/D	08GC25S0009	24 - 25	
	Closed SD	08GC25S0012	24 - 25	
	DLC Coated Ceramics SD	08GC25S0011	24 - 25	
	Closed DLC coated Ceramics SD	08GC25S0013	24 - 25	
	Split SD	08GC25S0017	24 - 25	

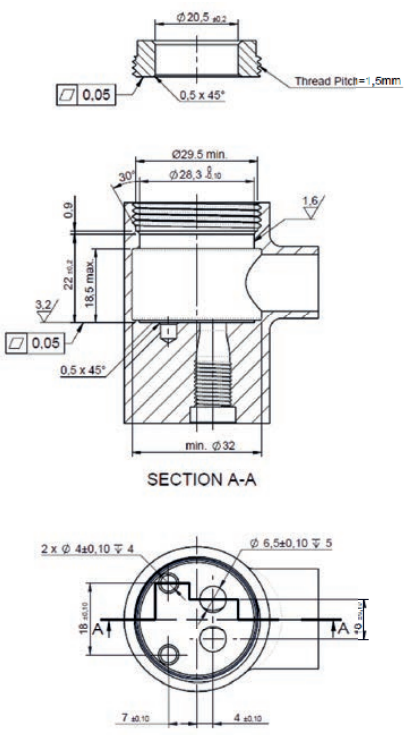


Diameter	Cartridge	Reference	Pg	Machining tip
26 mm	EX-26	08EX26L0001	34 - 35	
	EX-26 Short	08EX26L0003	34 - 35	
	EX-26 Short Cold	08EX26L1501	34 - 35	

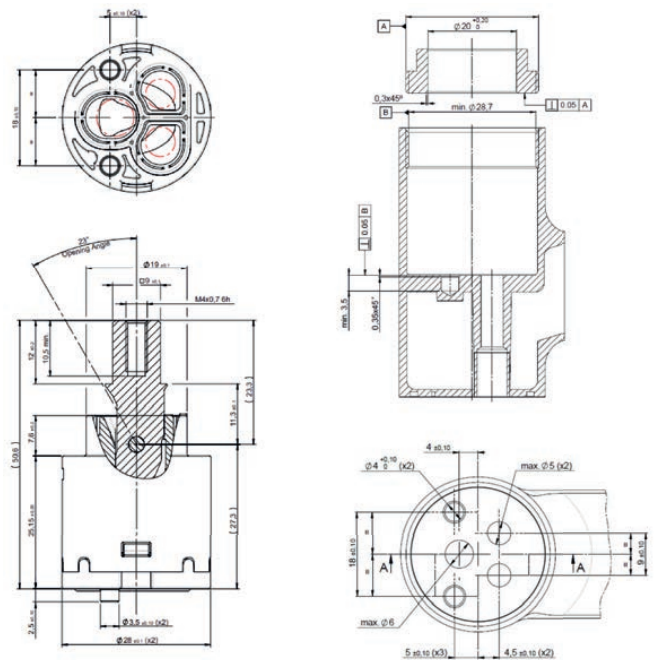


Diameter	Cartridge	Reference	Pg	Machining tip
27 mm	EX-27 TOP	08EX26S0001	38 - 39	
	EX-27 TOP Due	08EX26L3002	38 - 39	
	EX-27 TOP Cold	08EX26L1502	38 - 39	
	EX-27 TOP Cold Due	08EX26L2002	38 - 39	



Diameter	Cartridge	Reference	Pg	Machining tip
28 mm	EX-28 TOP C/D TRN	08EX28L0501	42 - 43	
	EX-28 TOP Due C/D TRN	08EX28L3501	42 - 43	
	EX-28 TOP Cold C/D TRN	08EX28L2501	42 - 43	
	EX-28 TOP Cold Due C/D TRN	08EX28L5001	42 - 43	
	EX-28 TOP Cold Mirror C/D TRN	08EX28L2502	42 - 43	
	EX-28 TOP Cold Mirror Due C/D TRN	08EX28L5002	42 - 43	
	EX-28 TOP EcoFlow	08EX28L0503	42 - 43	
	EX-28 TOP EcoFlow Cold	08EX28L2504	42 - 43	
	EX-28 Upper Sealing Compact	08EX28L0002	44 - 45	

Diameter	Cartridge	Reference	Pg	Machining tip
28 mm	SN-28	08SN28S0002	46 - 47	



# 35 mm

The widest and most efficient diameter range, featuring the best cartridges in-house — and probably on the market.

You can choose from a variety of applications, including standard faucets and showers, concealed systems, and eco-friendly options. The most popular materials are plastic and metal levers. Functionality includes eco-friendly options, safety features, SN & EN cartridges, upper and lower sealing, and much more.

*Termaclick Cartridge*



## Cartridges for single lever faucets

126 products  
4 Categories

EN-35 TOP



	Code	Page
TOP TRC/D		
TOP TRN C/D	08EN35L0023	56 - 57
TOP TRN C/D	08EN35L4505	56 - 57
TOP Due TR C/D	08EN35L3504	56 - 57
TOP High Flow TR C/D	08EN35L0512	56 - 57
TOP Cold TR Ch3 C/D	08EN35L2502	56 - 57
TOP Cold TRN Ch3 C/D	08EN35L4003	56 - 57
TOP Cold Due TR C3 C/D	08EN35L5002	56 - 57
TOP Cold Mirror TR C/D	08EN35L2503	56 - 57
TOP Cold Mirror TRN C/D	08EN35L4506	56 - 57
TOP Cold Mirror TR Due	08EN35L5003	56 - 57
TOP TR S/D	08EN35S0023	56 - 57
TOP TRN S/D	08EN35S4505	56 - 57
TOP Dur TR S/D	08EN35S3506	56 - 57
TOP High Flow TR S/D	08EN35S0512	56 - 57
TOP Nieder Druck S/D	08EN35S0506	56 - 57
TOP Cold TR Ch3 S/D	08EN35S2502	56 - 57
TOP Cold TRN Ch3 S/D	08EN35S4003	56 - 57
TOP Cold Due TR C3 S/D	08EN35S5002	56 - 57
TOP Cold Mirror TR S/D	08EN35S2503	56 - 57
TOP Cold Mirror TRN S/D	08EN35S4506	56 - 57
TOP Cold Mirror Due TR S/D	08EN35S5003	56 - 57
EN35 EcoFlow S/D	08EN35S0514	56 - 57

Upper Sealing (Compact) - TOP



	Code	Page
TOP C1	08EX35L0004	62 - 63
TOP TR C1	08EX35L0504	62 - 63
TOP TRN C1	08EX35L4505	62 - 63
TOP Due TR C2	08EX35L3502	62 - 63
TOP Cold	08EX35L1503	62 - 63
TOP Cold TR	08EX35L2503	62 - 63
TOP Cold TRN	08EX35L4003	62 - 63
TOP Cold Due TR	08EX35L5003	62 - 63
TOP 35,4 mm		
TOP C1	08EX35L0003	62 - 63
TOP TR C1	08EX35L0502	62 - 63
TOP TRN C1	08EX35L4504	62 - 63
TOP Due TR C2	08EX35L3501	62 - 63
TOP Cold	08EX35L1502	62 - 63
TOP Cold TR	08EX35L2502	62 - 63
TOP Cold TRN	08EX35L4002	62 - 63
TOP Cold Due TR	08EX35L5002	62 - 63

Upper Sealing (Classic) - TOP



	Code	Page
TOP TR	08G35L0502	58 - 59
TOP TR Due	08G35L3501	58 - 59
TOP Cold TR Ch3	08G35L2501	58 - 59
TOP Cold Due TR C3	08G35L5002	58 - 59
Direct Plug-In		
TOP TR C1	08CC35L0501	60 - 61
TOP TR Due C2	08CC35L3502	60 - 61
TOP TR Cold TR Ch3	08CC35L2501	60 - 61
TOP Cold Due TR C3	08CC35L5002	60 - 61

## SN-35 Endura



	Code	Page
Standard C/D	08SN35L0013	64 - 65
TR C/D	08SN35L5401	64 - 65
TRN C/D	08SN35L4501	64 - 65
Due C/D	08SN35L3001	64 - 65
Due TR C/D	08SN35L5701	64 - 65
Due TRN C/D	On demand	64 - 65
Cold C/D	08SN35L1502	64 - 65
Cold TR C/D	08SN35L2501	64 - 65
Cold 93° R.A. C/D	08SN35L1504	64 - 65
Cold Due C/D	08SN35L0004	64 - 65
Cold Due TR C/D	08SN35L5001	64 - 65
Cold Due TRN C/D	08SN35L5501	64 - 65
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TR S/D	08EN35S5401	64 - 65
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Cold MIRROR S/D	08EN35S1505	64 - 65
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Cold Due TR S/D	08EN35S5001	64 - 65
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Cold Mirror Due S/D	08EN35S2002	64 - 65

## EN-35 Endura



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Standard C/D	08EN35L0004	66 - 67
TR C/D	08EN35L5401	66 - 67
TRN C/D	08EN35L4501	66 - 67
DUE C/D	08EN35L3001	66 - 67
Due TR C/D	08EN35L5701	66 - 67
Due TRN C/D	On Demand	66 - 67
Cold C/D	08EN35L1503	66 - 67
Cold TR C/D	08EN35L2501	66 - 67
Cold TRN C/D	08EN35L4001	66 - 67
Cold Mirror C/D	08EN35L1505	66 - 67
Cold Due C/D	08EN35L0005	66 - 67
Cold Due TR C/D	08EN35L5001	66 - 67
Cold Due TRN C/D	08EN35L5501	66 - 67
Cold Mirror Due C/D	08EN35L2002	66 - 67

## EN-35 Endura



	Code	Page
Standard S/D	08EN35S0004	66 - 67
TR S/D	08EN35S5401	66 - 67
TRN S/D	08EN35S4501	66 - 67
DUE S/D	08EN35S3001	66 - 67
Due TR S/D	08EN35S5701	66 - 67
Due TRN S/D	On Demand	66 - 67
Cold S/D	08EN35S1503	66 - 67
Cold TR S/D	08EN35S2501	66 - 67
Cold TRN S/D	08EN35S4001	66 - 67
Cold Mirror S/D	08EN35S1505	66 - 67
Cold Due S/D	08EN35S0005	66 - 67
Cold Due TR S/D	08EN35S5001	66 - 67
Cold Due TRN S/D	08EN35S5501	66 - 67
Cold Mirror Due S/D	08EN35S2002	66 - 67

## SN-35 Standard



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Standard C/D	08SN35FGO00	68 - 69
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## EN-35 Standard



	Code	Page
Standard C/D	08E35LAZ30	70 - 71
Standard S/D	08E35FAZ30	70 - 71
Due C/D	08EN35L0003	70 - 71
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## EN-35 Super Basic



	Code	Page
Standard C/D	08SN35L0014	72 - 73
Standard S/D	08SN35L0014	72 - 73

## EN-35 Basic



	Code	Page
Standard C/D	08EN35S0011	74 - 75
Standard S/D	08EN35L0011	74 - 75
Cold	08EN35S1508	76 - 77
Cold Due	08EN35S2003	76 - 77
Cold Mirror	08EN35S1509	76 - 77
Cold Mirror Due	08EN35S2004	76 - 77



SN-35 Ecoflow



	Code	Page
Standard C/D	08SN35L0008	78 - 79
Standard S/D	08SN35S0009	78 - 79

Dry Faucet - BISO SN-35



	Code	Page
BISO 2:	08SN35B008	86 - 87
BISO 3:	08SN35B007	86 - 87

Upper Sealing - Regular



	Code	Page
Cold	08G35L1501	80 - 81
DueTRN	08G35L0002	80 - 81

Dry Faucet - SISO EN-35



	Code	Page
SISO 2:	08EN35A0002	88 - 89
SISO 3:	08EN35A0001	88 - 89
SISO Standard	08EN35A0003	88 - 89
SISO Cold Mirror	08EN35A1503	88 - 89

Upper Sealing - Regular Direct plug in



	Code	Page
Standard	08CC35L0003	82 - 83
TR	08CC35L0001	82 - 83
TRN	08CC35L4501	82 - 83

Dry Faucet - SIO EN-35



	Code	Page
Basic W/ Pins	08EN35C0004	90 - 91
Basic W/ O-Ring	08EN35C0002	90 - 91
Standard W/ Pins	08EN35C0003	90 - 91
Standard W/ O-Ring	08EN35C0001	90 - 91
Mirror	08EN35C1501	90 - 91

Upper Sealing - Basic Direct plug in



	Code	Page
Standard	08CC35L0019	82 - 83
TR	08CC35L0002	82 - 83
TRN	08CC35L4502	82 - 83
Due TR	08CC35L5701	82 - 83

Specials - Revolving



	Code	Page
C/D / TR Cold	08GI35LBE64	92 - 93
C/D / L9	08GI35LBE09	92 - 93
C/D / Z20	08GI35LBE01	92 - 93
S/D / TR Cold	08GI35FBE64	92 - 93
S/D / L9	08GI35FBE09	92 - 93
S/D / Z20	08GI35FBE01	92 - 93

Specials - Joystick



	Code	Page
Standard	08JY35LBE00	94 - 95

Termaclick



	Code	Page
Standard C/D	08SN35L2003	84 - 84
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Mirror	08SN35L2004	84 - 84
Mirror 93°	08SN35L2006	84 - 84
Standrd S/D	08SN35S2003	84 - 84
93°	08SN35S2005	84 - 84
Mirror	08SN35S2004	84 - 84
Mirror 93°	08SN35S2006	84 - 84



# EN-35 TOP

COLD | COLD DUE | COLD MIRROR | NIEDERDRUCK | TR | TRN

## Versions

	CD	SD
TOP TRN	08EN35L4505	08EN35S4505
TOP DUE TR	08EN35L3504	08EN35S3504
TOP HIGH FLOW TR	08EN35L0507	08EN35S0512
TOP NIEDER DRUCK	-	08EN35S0506
TOP COLD TR Ch3	08EN35L2502	08EN35S2502
TOP COLD TRN Ch3	08EN35L4003	08EN35S4003
TOP COLD DUE TR C3	08EN35L5002	08EN35S5002
TOP COLD MIRROR TR	08EN35L2503	08EN35L2503
TOP COLD MIRROR TRN	08EN35L4506	08EN35S4506
TOP COLD MIRROR TR DUE	08EN35L5003	08EN35S5003



EN-35 TOP TR C/D  
08EN35L0023



EN-35 TOP TR S/D  
08EN35S0023

## Description

The EN-35 TOP is a 35mm cartridge designed to outperform competitors in all areas, providing manufacturers with a perfectly balanced, high-performance solution. With exceptional endurance—lasting up to 3 times longer than standard life cycle tests—this cartridge ensures reliability and durability. Additionally, the EN-35 TOP is available with TRN technology, offering significant water and energy savings, making it an eco-friendly choice for modern faucet designs.

## Features



Soft



Cold



Due



High Flowrate



Temperature  
Limiter



Nieder druck



Mirror

## Technical Specifications

General		
Nut torque M1,5		10-12Nm
Opening angle		23°
Rotation angle		100°
Working pressure (recommended)		1 - 5 bar
Burst pressure		>50 bar
Life cycle- x3 ASME	1,500,000 cycles	
x3 EN 817	210,000 cycles	
NF-077 U3	175,000 cycles	
x3 GB-18145	210,000 cycles	
Sensitivity		>12°
Fidelity		<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)		<4°C - <6°C
Max. hot water		90°C

Operation Torque		
Open-close		0.2-0.4 Nm
Turn left-right		0.2-0.4 Nm
Flow rate (free flow)		
at 0.2 bar		<20 dB (A)
Flow rate (free flow)		
	C/D	S/D
at 1 bar	18.8 l/min	18.3 l/min
at 3 bar	33.6 l/min	32.9 l/min
at 5 bar	42.8	42.4 l/min

# Advantages

**High Flowrate**

The TOP family offers a 5% higher flow rate than the market average in this segment. Additionally, it outperforms its closest competitor by delivering a 3.5% greater flow rate.

**Noise performance**

TOP cartridges operate at less than 20dB, which is 20% quieter than the average in its market segment and even its closest competitor. This reduced noise level ensures a quieter user experience, making it ideal for applications where sound reduction is important.

**Cold and Mirror Technology**

In some versions, the lever of this 35 mm cartridge is set to the cold position by default, saving on household energy consumption related to plumbing products.

**Due technology**

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.

**Temperature and Flow limiter**

Temperature Limiter Function (TR)

This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 5 selectable stops (every 9°), providing effective anti-scalding protection.

1st tur
2nd turn
3rd turn

Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

**Niederdruck system**

The Niederdruck system is widely used in Germany, featuring a small heater installed below the sink. This system operates with a single cold-water inlet and requires a unique cartridge configuration to ensure optimal performance. Ideal for setups where traditional hot water connections are unavailable, Niederdruck offers an efficient and space-saving solution for heating water

# Recomended Applications

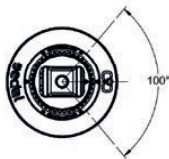
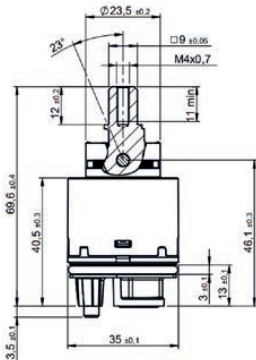
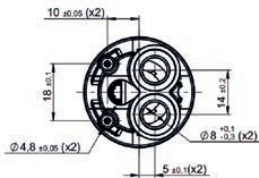
Bathroom Faucet

Kitchen Faucet

Shower

Bath

# Dimensions



Find machining requirements on page 86

# Certifications

WRAS

KTW

ACS

AS /NZS

# Upper sealing (Classic) – TOP

TR | DUE | Ch3 | C3

## Versions

	CD
TOP TR	08G35L0502
TOP TR DUE	08G35L3501
TOP COLD TR Ch3	08G35L2501
TOP COLD DUE TR C3	08G35L5002






Upper Sealing TOP TR  
08G35L0502

## 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. G-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.

## Features

-  Due
-  Flow Limiter
-  Temperature Limiter

## Technical Specifications

General	G-35 TOP	G-35 TOP COLD
Nut torque M1,5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	100°	93°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle- x3 ASME	1,500,000 cycles	1,500,000 cycles
x3 EN 817	210,000 cycles	210,000 cycles
NF-077 U3	175,000 cycles	175,000 cycles
x3 GB-18145	210,000 cycles	210,000 cycles
Sensitivity (r=45mm)	>12° angle	>12° angle
Fidelity	<5°C	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water	90°C	90°C

Operation Torque		
Open-close		0.2 - 0.4 Nm
Left-right		0.2 - 0.4 Nm

Flow rate (free flow)	G-35 TOP	G-35 TOP COLD
Free flow	27.7 l/min	27.7 l/min
A-Restrictor - Shower	12.7 l/min	12.7 l/min

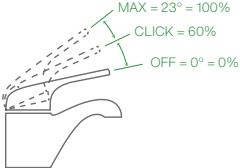
# Advantages

### Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

### Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.




### Cold Start Technology

The lever is set to the cold position by default, helping to reduce household energy consumption by up to 10%. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.

### Temperature and Flow limiter

Temperature Limiter Function (TR)

This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 5 selectable stops (every 9°), providing effective anti-scalding protection.



Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

# Recomended Applications



Bathroom Faucet



Kitchen Faucet



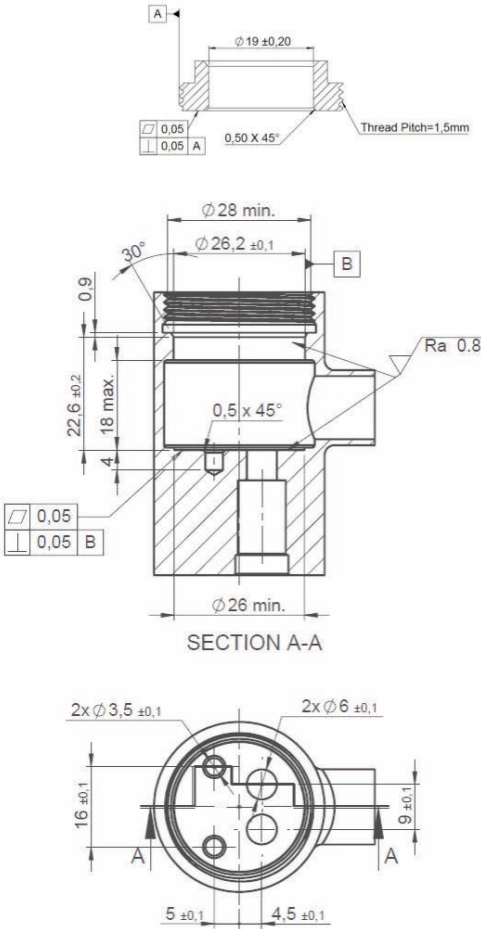
Shower



Bath

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

KTW

ACS

AS /NZS

# Upper sealing (Direct plug-in) TOP

TR | Due | Ch3 | C3

## Versions

TOP TR C1	08CC35L0501
TOP TR DUE C2	08CC35L3502
TOP TR COLD TR Ch3	08CC35L2501
TOP COLD DUE TR C3	08CC35L5002



Upper sealing Direct Plug In TOP C/D  
08CC35L0501

## Description

The CC-35 TOP is a 35mm upper-sealed cartridge that offers manufacturers enhanced flexibility in faucet design, including configurations where the spout is positioned on the upper side. This cartridge not only supports a variety of faucet setups but also boosts productivity thanks to its innovative design. Created to be best-in-class, the CC-35 TOP surpasses competitors by providing a perfectly balanced cartridge with extraordinary endurance, ensuring long-lasting performance.

## Features



Due



Upper sealing



Temperature  
Limiter



Direct Plug-in

## Technical Specifications

General	CC-35 TOP	CC-35 TOP COLD
Nut torque M1,5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	100°	93°
Working pressure (recommended)	1-5 bar	1-5 bar
Burst pressure	>50 bar	>50 bar
Life cycle- x3 ASME	1,500,000 cycles	1,500,000 cycles
x3 EN 817	210,000 cycles	210,000 cycles
NF-077 U3	175,000 cycles	175,000 cycles
x3 GB-18145	210,000 cycles	210,000 cycles
Sensitivity (r=45mm)	>12° angle	>12° angle
Fidelity	<5°C	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water	90 °C	90°C

Operation Torque		
Open-close		0.2÷0.4 Nm
Left-right		0.2÷0.4 Nm
Flow rate (free flow)		
Free flow	CC-35 TOP	CC-35 TOP COLD
	27.7 l/min	27.7 l/min
A-Restrictor - Shower	12.6 l/min	12.6 l/min

# Advantages

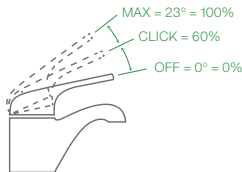
## Direct plug-in

Water inlet hoses are plugged directly into the cartridges, preventing water from coming into contact with the faucet base. This design protects the faucet from exposure to lead and other potentially harmful metals, allowing manufacturers to use a wider range of materials for the base without compromising safety or compliance.



## Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



## Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

## Temperature and Flow limiter

Temperature Limiter Function (TR)

This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 5 selectable stops (every 9°), providing effective anti-scalding protection.



Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

# Recomended Applications



Bathroom Faucet



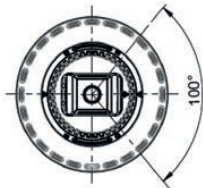
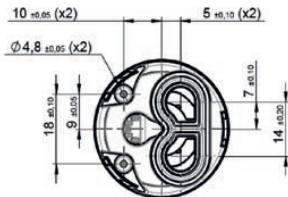
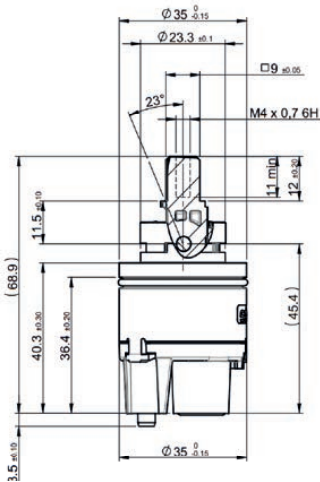
Kitchen Faucet



Shower

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

- WRAS
- KTW
- NSF
- ACS
- AS /NZS
- NF\*

\*Ready for



# Upper sealing (Compact) TOP 35 / 35,4

TOP | TR | TRN | DUE | COLD | C1 | C2

## Versions

	35 mm	35,4 mm
TOP C1	08EX35L0004	08EX35L0003
TOP TR C1	08EX35L0504	08EX35L0502
TOP TRN C1	08EX35L4505	08EX35L4504
TOP DUE TR C2	08EX35L3502	08EX35L3501
TOP COLD	08EX35L1503	08EX35L1502
TOP COLD TR	08EX35L2503	08EX35L2502
TOP COLD TRN	08EX35L4003	08EX35L4002
TOP COLD DUE TR	08EX35L5003	08EX35L5002



Upper sealing  
Compact TOP C/D (35mm)  
08EX35L0504



Upper sealing  
Compact TOP C/D (35,4mm)  
08EX35L0502

## Description

To allow any manufacturer the possibility to use the TOP family in all their faucets, we have updated this range with an upper Sealing Compact cartridge version, allowing the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges. Of course, it will still count with all different technologies and advantages of a top EX family

## Features



Due



Upper sealing



Temperature  
Limiter



Flow Limiter

## Technical Specifications

General	EX-35 TR TOP	EX-35 Cold TOP
Nut torque pitch M1,5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	100°	93°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle- x3 ASME	1,500,000 cycles	1,500,000 cycles
x3 EN 817	210,000 cycles	175,000 cycles
NF-077 U3	175,000 cycles	175,000 cycles
x3 GB-18145	210,000 cycles	210,000 cycles
Sensitivity (r=45mm)	>12°	>12°
Fidelity	<5°C	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water	90°C	90°C

Operation Torque	Ex-35 TR TOP	Ex-35 Cold TOP
Open-close	0.2-0.4 Nm	0.2-0.4 Nm
Left-right	0.2-0.4 Nm	0.2-0.4 Nm
Noise level	Ex-35 TR TOP	Ex-35 ColdTOP
Noise level	<20 dB(A)	<20 dB(A)
Flow rate (free flow) at 3 bar	Ex-35 TR TOP	Ex-35 Cold TOP
	27,3 l/min	27,3 l/min

# Advantages

### Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.

### Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

### Temperature and Flow limiter

Temperature Limiter Function (TR)

This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 5 selectable stops (every 9°), providing effective anti-scalding protection.

1st tur                      2nd turn                      3rd turn

Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

### Recomended Applications

Bathroom Faucet
 Kitchen Faucet
 Shower
 Bath
 Conceaed Bathroom Faucet
 Conceaed Kitchen Faucet
 Conceaed shower
 Concelaed Bath

### Dimensions

Find machining requirements on page 92 - 95

### Certifications

WRAS

KTW

NSF

ACS

AS /NZS

NF

\*Ready for



# SN-35 Endura

TRN | Due | Cold | Mirror | 93° R.A

## Versions

	C/D	S/D
TR	08SN35L5401	08EN35S5401
TRN	08SN35L4501	08EN35S4501
DUE	08SN35L3001	08SN35S3001
DUE TR	08SN35L5701	08SN35S5701
DUE TRN	On Demand	On Demand
COLD	08SN35L1502	08SN35S1502
COLD TR	08SN35L2501	08SN35S2501
COLD TRN	08SN35L4001	08SN35S4001
COLD 93° R.A.	08SN35L1504	08SN35S1504
COLD DUE	08SN35L0004	08SN35S0004
COLD DUE TR	08SN35L5001	08SN35S5001
COLD DUE TRN	08SN35L5501	08SN35S5505



SN-35 CD  
08SN35L0013



SN-35 SD  
08SN35S0013

## Description

The ENDURA 35mm cartridge offers double the endurance of standard life cycle tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology, ensuring enhanced durability and smooth operation. With various advanced technologies for both the cartridge body and ceramics, the ENDURA 35 provides exceptional performance in water and energy efficiency.

Designed to exceed ASME and EN standards, the ENDURA 35 range offers manufacturers 18 options and over 100 possible combinations, making it a versatile choice for diverse faucet designs.

## Technical Specifications

General	SN-35 Endura
Nut torque pitch M1,5	10-12Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle-	
EN 817 NF U3	175,000 cycles
(x2)ASME 112.18.1 M	1,000,000 cycles
(x2)GB18145	140,000 cycles
Sensitivity (r=45mm)	>12°
Fidelity	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water	90°C

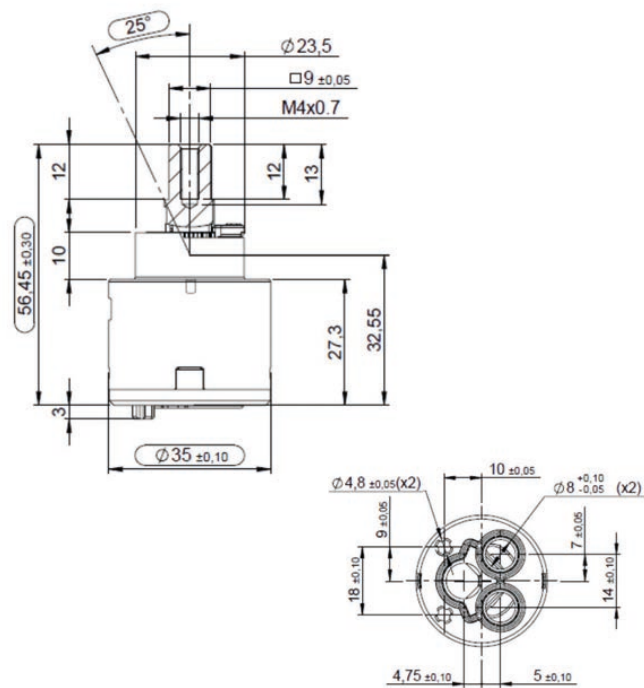
## Features

- Due
- Flow Limiter
- Temperature Limiter
- Soft
- Cold
- Eco

Operation Torque (3 bar)	
Open-close	0.20-0.35 Nm
Left-right	0.15-0.30 Nm
Noise level	
Noise level C-Restrictor	20 +/- 2 dB
Flow rate 3 bar	
free flow	27,5 l/min
C-Restrictor	20,5 l/min

# Dimensions

Find machining requirements on page 92 - 95



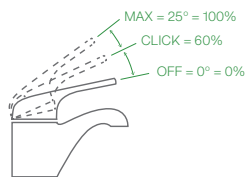
# Advantages

## SN technology

In the closed position, the ceramic discs do not move, ensuring smoother operation and extending durability by up to 20% compared to EN designs.

## Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



## Smooth operation

Offer up to 3x smoother operation than standard mechanical cartridges, providing a feel similar to a 35mm cartridge. Built with strong materials, they ensure smooth performance even in very hot water conditions.

## Noise performance

SN-35 cartridges operate at less than 20dB, which is 20% quieter than the average in its market segment and even its closest competitor. This reduced noise level ensures a quieter user experience, making it ideal for applications where sound reduction is important.

# Recomended Applications



Bathroom Faucet



Kitchen Faucet

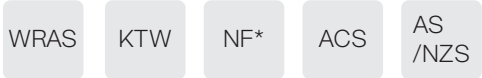


Shower



Bath

# Certifications

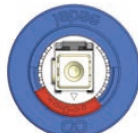


\*Ready for NF

## Temperature and Flow limiter

Temperature Limiter Function (TR)

This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 3 selectable stops (every 9°), providing effective anti-scalding protection.



1st tur



2nd turn



3rd turn

Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

## Cold Start Technology

The lever is set to the cold position by default, helping to reduce household energy consumption by up to 10%. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.

## Improved Performance

Understanding that smaller cartridges often face challenges in tough conditions, Sedal has developed a new valve that greatly improves technical specifications compared to market standards.

Our advancements include:  
+10% increase in flow rate than the nearest competitor.  
Enhance operational comfort

# EN-35 Endura

TR | TRN | DUE | COLD | COLD 93° R.A

## Versions

	C/D	S/D
TR	08EN35L5401	08EN35S5401
TRN	08EN35L4501	08EN35S4501
DUE	08EN35L3001	08EN35S3001
DUE TR	08EN35L5701	08EN35S5701
DUE TRN	On Demand	On Demand
COLD	08EN35L1503	08EN35S1503
COLD TR	08EN35L2501	08EN35S2501
COLD TRN	08EN35L4001	08EN35S4001
COLD MIRROR	08EN35L1505	08EN35S1505
COLD DUE	08EN35L0005	08EN35S0005
COLD DUE TR	08EN35L5001	08EN35S5001
COLD DUE TRN	08EN35L5501	08EN35S5501
COLD MIRROR DUE	08EN35L2002	08EN35S2002



EN-35 Endura C/D  
08EN35L0004



EN-35 Endura S/D  
08EN35S0004

## Description

The ENDURA 35mm cartridge offers double the endurance of standard life cycle tests, thanks to SedalOX® ceramics reinforced with our exclusive Nano Shelter Technology, ensuring enhanced durability and smooth operation. With various advanced technologies for both the cartridge body and ceramics, the ENDURA 35 provides exceptional performance in water and energy efficiency.

Designed to exceed ASME and EN standards, the ENDURA 35 range offers manufacturers 18 options and over 100 possible combinations, making it a versatile choice for diverse faucet designs.

## Features

- Due
- Flow Limiter
- Temperature Limiter
- Cold
- Eco

## Technical Specifications

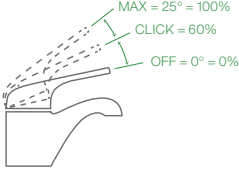
General	C/D & S/D
Nut torque pitch M1,5	10-12Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle- EN 817	
NF U3	175,000 cycles
x2 ASME	1.000.000 cycles
x2 GB18145	140,000 cycles
Sensitivity (r=45mm)	>12 mm
Fidelity	<2°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water	90°C

Operation Torque		C/D & S/D
Open-close		0.20-0,40Nm
Left-right		0.20-0.40 Nm
Noise level		C/D & S/D
Noise level		20 ± 2 dB
Flow rate (free flow)	C/D	S/D
Free flow	27.70 l/min	26.10 l/min
C-Pressure	20.80 l/min	20.20 l/min
Noise level (C-Restrictor)	22/25 l/min	24.5 +/- 2dB

# Advantages

### Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



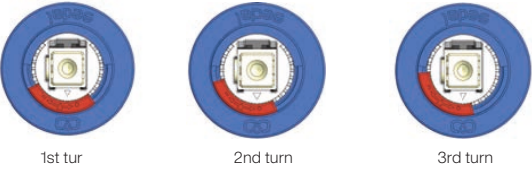
### Smooth operation

Offer up to 3x smoother operation than standard mechanical cartridges, providing a feel similar to a 35mm cartridge. Built with strong materials, they ensure smooth performance even in very hot water conditions.

### Temperature and Flow limiter

Temperature Limiter Function (TR)

This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 3 selectable stops (every 9°), providing effective anti-scalding protection.



Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

### Cold Start Technology

The lever is set to the cold position by default, helping to reduce household energy consumption by up to 10%. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.

### Noise performance

SN-35 cartridges operate at less than 20dB, which is 20% quieter than the average in its market segment and even its closest competitor. This reduced noise level ensures a quieter user experience, making it ideal for applications where sound reduction is important.

# Recomended Applications



Bathroom Faucet



Kitchen Faucet



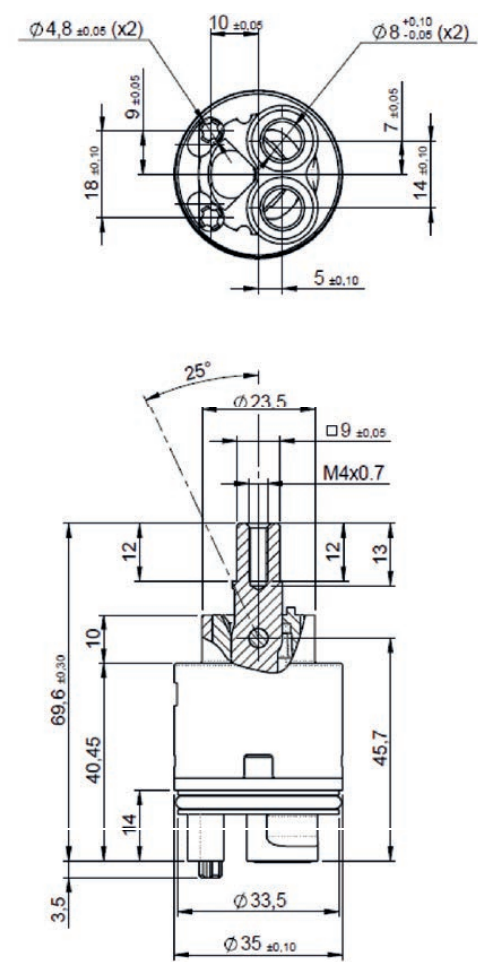
Shower



Bath

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

KTW

NSF

ACS

AS /NZS

# SN-35 – Standard

TRN

## Versions

	C/D	S/D
TRN	08SN35LG000	08SN35FG000



SN-35 Standard C/D





SN-35 Standard S/D

## Description

Sedal’s classic SN cartridge has stood the test of time, delivering consistent performance over the years. With ongoing improvements, this cartridge now features TRN technology, allowing significant water and energy savings. The integrated clutch ensures smooth operation, making it a reliable choice for modern faucet designs. Additionally, it meets key industry certifications, reflecting Sedal’s commitment to quality and compliance with the highest standards.

## Features

-  Eco
-  TRN

## Technical Specifications

General	
Prescribed tightening torque	10-12Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>35 bar
Life cycle- EN 817	143,000 cycles
Sensitivity	11°+14° angle
Fidelity	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water	90°C
Max. hot water	90°C

Operation Torque	
Open-close	0.20-0.40 Nm
Left-right	0.20-0.40 Nm
Flow rate 3 bar	
Free flow	23,40 l/min
C-Restrictor	18,30 l/min

# Advantages

Smooth operation

Offer up to 3x smoother operation than standard mechanical cartridges, providing a feel similar to a 35mm cartridge. Built with strong materials, they ensure smooth performance even in very hot water conditions.

Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

SN technology

In the closed position, the ceramic discs do not move, ensuring smoother operation and extending durability by up to 20% compared to EN designs.

# Recomended Applications



Bathroom Faucet



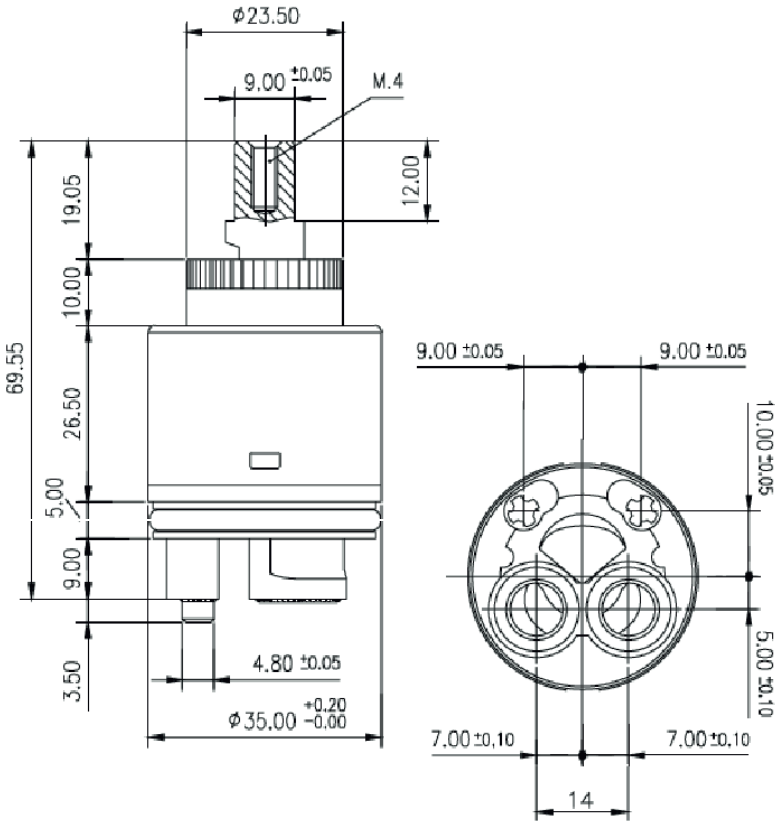
Shower



Bath

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

KTW

ACS

AS /NZS

NSF

\*Ready for NF

# EN-35 – Standard

Standard | DUE

## Versions

	C/D	S/D
Standard	08EN35L0003	08EN35S0003
Due	08EN35LAZ30	08EN35FAZ30
Reverse	-	08EN35S0032



EN-35 Standard C/D  
08EN35L0003



EN-35 Standard S/D  
08EN35S0003

## Description

Sedal’s classic standard cartridge has demonstrated reliable performance throughout the years. As one of our oldest models, we have continuously perfected its design to meet modern demands. Featuring Due technology for water saving, this cartridge operates without a clutch and delivers consistent results. It also complies with the most important industry certifications, ensuring it meets the highest standards for quality and safety.

## Features



Eco



Due

## Technical Specifications

General	
Prescribed tightening torque	10-12Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	28 + 35 bar
Life cycle- EN 817 ASME 112.18.1 M	70.000 cycles 500.000 cycles
Sensitivity (r=45mm) NF-077	>10°
Fidelity NF-077	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water*	90°C

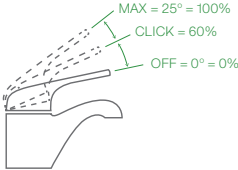
Operation Torque	
Open-close	0.19+0.25 Nm
Left-right	0.22+0.33 Nm
Flow rate 3 bar	
Free flow	23,1 l/min
C-Restrictor	18 l/min



# Advantages

### Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



### Strong Materials

Build with strong materials and improved with each actualization.

# Recomended Applications



Bathroom Faucet



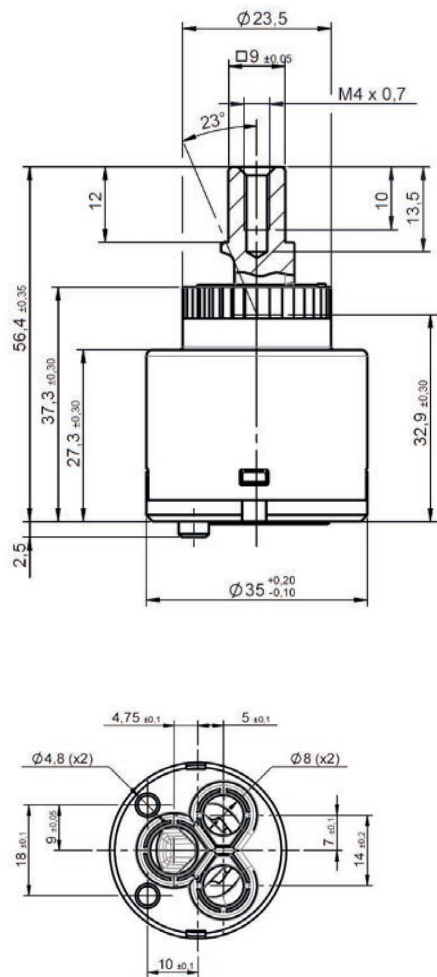
Shower



Bath

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

KTW

ACS

AS /NZS

NSF

NF

\*Ready for NF



# EN-35 – Basic High Performance

## Standard HP

### Versions

	C/D	S/D
Standard	08EN35L0014	08EN35S0014



EN-35 Basic HP C/D  
08EN35L0014



EN-35 Basic HP S/D  
08EN35S0014

### Description

Sedal’s Basic standard cartridge has demonstrated reliable performance throughout the years. This new version High Performance has a higher flow rate as well better sensitivity, that allows to increase the range of applications.

### Features



Eco

### Technical Specifications

General		
Prescribed tightening torque	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	
ASME 112.18.1 M	500.000 cycles	
Sensitivity (r=45mm) NF-077	>12°	
Fidelity NF-077	<5°C	
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C	
Max. hot water	90°C	

Operation Torque	
Open-close	0.20 - 0.35 Nm
Left-right	0.20 - 0,35 Nm
Noise level C/D & S/D	
Noise level	< 20 dB
Flow rate 3 bar	
Free flow	27,1 l/min
B-Restrictor	17,1 l/min

# Advantages

### Improved Performance

Understanding that smaller cartridges often face challenges in tough conditions, Sedal has developed a new valve that greatly improves technical specifications compared to market standards.

Our advancements include:

- +20% increase in flow rate than the previous version.

### Strong Materials

Build with strong materials and improved with each actualization.


### Smooth operation

Smooth operation guaranteed at continuous high temperatures


### High Sensitivity

The high performance Basic cartridge improves the sensitivity test result by more than 20%, enabling the cartridge to be used with shorter handles while keeping an excellent temperature control.


# Recomended Applications




Bathroom Faucet



Shower



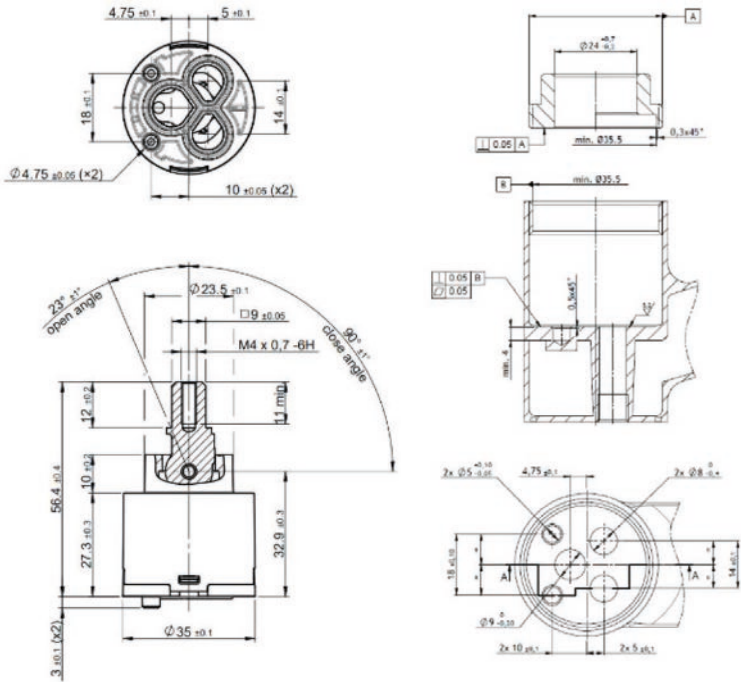
Bath



Kitchen

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

Available under demand

# EN-35 – Basic

## Standard

### Versions

	C/D	S/D
Standard	08EN35L0011	08EN35S0011



EN-35 Basic C/D  
08EN35L0011



EN-35 Basic S/D  
08EN35S0011

### Description

This 35mm basic cartridge from Sedal is available with or without a distributor, making it adaptable for various faucet applications. Specially designed for washbasins, bath-showers, and kitchen faucets, it is certified by ACS among others, ensuring it meets stringent industry standards for quality and safety.

### Features



Eco

### Technical Specifications

General		Operation Torque	
Prescribed tightening torque	10-12Nm	Open-close	0.20-0.35 Nm
Opening angle	25°	Left-right	0.20-0.35 Nm
Rotation angle	93°	Flow rate 3 bar	
Working pressure (recommended)	1-5 bar	Free flow	23,1 l/min
Burst pressure	>50 bar	C-Restrictor	11.1 l/min
Life cycle- EN 817	70.000 cycles		
ASME 112.18.1 M	500.000 cycles		
Sensitivity (Handle r=45mm)	12° angle		
Max. hot water	90°C		

# Recomended Applications



Bathroom Faucet



Shower



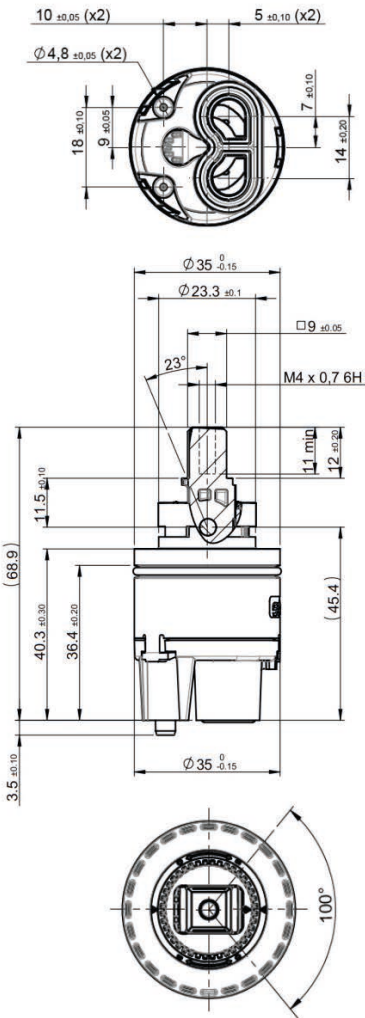
Bath



Kitchen

# Dimensions

Find machining requirements on page 92 - 95



# Certifications



\*Ready for NF

# EN-35 – Basic

COLD | DUE | MIRROR

## Versions

	S/D
COLD	08EN35S1508
COLD DUE	08EN35S2003
COLD MIRROR	08EN35S1509
COLD MIRROR DUE	08EN35S2004



EN-35 Basic S/D  
08EN35S1508

## Description

This 35mm basic cartridge from Sedal is available without a distributor. Specially designed for washbasins, bath-showers, and kitchen faucets, it is certified by ACS among others, ensuring it meets stringent industry standards for quality and safety.

## Features

 Eco

 Cold

 Due

## Technical Specifications

General		Operation Torque	
Prescribed tightening torque	10-12Nm	Open-close	0.20-0.35 Nm
Opening angle	25°	Left-right	0.20-0.35 Nm
Rotation angle	93°	Flow rate 3 bar	
Working pressure (recommended)	1-5 bar	Free flow	21,3 l/min
Burst pressure	>50 bar	C-Restrictor	11.1 l/min
Life cycle- EN 817	70.000 cycles		
ASME 112.18.1 M	500.000 cycles		
Sensitivity (Handle r=45mm)	12° angle		
Max. hot water	90°C		

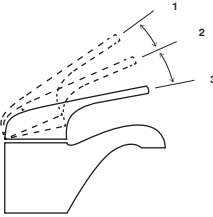
# Advantages

Cold and Mirror Technology

In some versions, the lever of this 35 mm cartridge is set to the cold position by default, saving up on household energy consumption related to plumbing products.

Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



1. MAX = 25° = 100%  
2. CLICK = 13° = 60%  
3. OFF = 0° = 0%


Cold Start Technology


The lever is set to the cold position by default, helping to reduce household energy consumption. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.


Mirror Version


The mirror version has been specifically designed for kitchen faucets, addressing the common issue of the handle touching the wall. This innovative design ensures smooth operation in tight spaces, providing a practical solution for modern kitchens.

# Recomended Applications


Bathroom Faucet

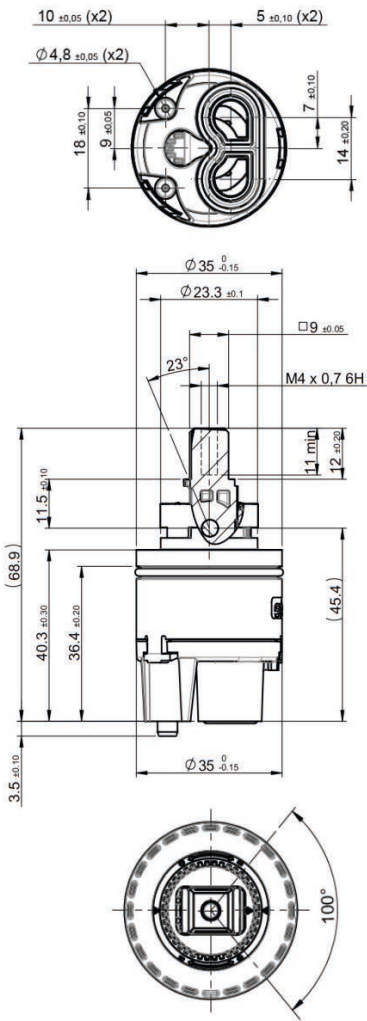

Shower


Bath


Kitchen

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

ACS

NSF

\*Ready for NF

# SN-35 – Ecoflow

C/D | S/D



SN-35 – Ecoflow C/D  
08SN35L0008






SN-35 – Ecoflow S/D  
08SN35S0009

## Description

This 35mm basic cartridge from Sedal is available with or without a distributor, making it adaptable for various faucet applications. Specially designed for washbasins, bath-showers, and kitchen faucets, it is certified by ACS among others, ensuring it meets stringent industry standards for quality and safety.

## Features

-  Restrictor
-  Eco
-  Soft

## Technical Specifications

General	
Prescribed tightening torque	10-12Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>35 bar
Life cycle- EN817	70,000 cycles
ASME 112.18.1	500,000 cycles
Sensitivity (r=45mm)	12° angle
Fidelity	<5°C
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water	90°C

Operation Torque	
Open-close	0.20-0.40 Nm
Left-right	0.20-0.40 Nm
Flow rate 3 bar	
Free flow	9 l/min
Z-Restrictor	6.61 l/min

# Advantages

**SN technology**

In the closed position, the ceramic discs do not move, ensuring smoother operation and extending durability by up to 20% compared to EN designs.

**Full stroke Flow Regulation**

ECOFLOW cartridges offer a more gradual and precise flow regulation throughout the entire stroke, providing enhanced control and efficiency compared to traditional solutions.

13-15° Stroke no flow variation

8-10° Stroke max flow reached

**Standard Cartridge**  
Max. Flow: 6 l/min with limiter

Progressive flow through full stroke

**EcoFlow Cartridge**  
Max. Flow: 6 l/min with EcoFlow

**Reduce Temperature fluctuation**

When using a flow limiter in the spout with standard cartridges, users can experience significant changes in water temperature. The new ECOFLOW Technological valves ensure excellent temperature stability, even with pressure variations in cold and hot water supply lines at low flow rates.

Standard Cartridge with flow limiter

ECOFLOW

**Optional Restrictor Usage**

ECOFLOW ensures the flow rate reduction occurs directly at the ceramic of the cartridge, the optimal point for precise control. This makes the use of a limiter or restrictor optional, depending on the application.

**Merge it with any cartridge**

EcoFlow technology is built into the ceramics of the cartridge, allowing us to adapt almost any model into an EcoFlow version. This flexibility enables water-saving features across various faucet designs, ensuring efficient use without compromising performance or user experience.

# Recomended Applications

Bathroom Faucet

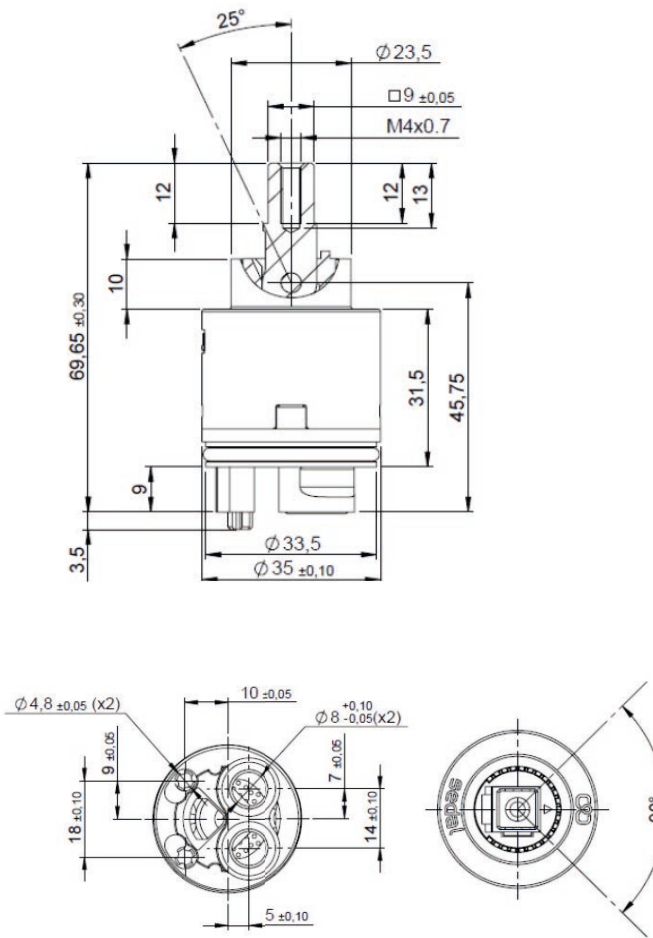
Shower

Bath

Kitchen

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

ACS

NSF

KTW

AS/ NZS

\*Ready for NF



# Upper Sealing - Regular

DUE TRN | COLD

## Versions

	C/D
DUE TRN	08G35L0002
COLD	08G35L1501



G-35 C/D Upper Sealing  
08G35L0002

## Description

Upper sealed cartridges give manufacturers the versatility to create a range of faucet configurations, including designs with the spout positioned on the upper side. These cartridges not only support diverse design options but also enhance efficiency and productivity, thanks to their innovative and practical design.

## Features



Eco



Flow Limiter



Temperature Limiter

## Technical Specifications

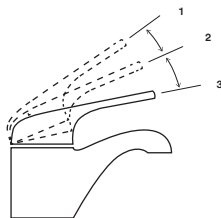
General	
Prescribed tightening torque	10-12Nm
Opening angle	23°
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life cycle- NF077 U3(EN817)	70,000 cycles
Sensitivity	>10°
Fidelity	< 5°
Max. hot water	90°C

Operation Torque	
Open-close	0.20-0.40 Nm
Flow rate 3 bar	
Free flow	22.50 l/min
C-Restrictor	18.20 l/min

# Advantages

## Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



- 1. MAX = 23° = 100%
- 2. CLICK = 13° = 60%
- 3. OFF = 0° = 0%

## Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

## Strong Materials

Build with strong materials and improved with each actualization.

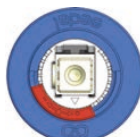
## Temperature and Flow limiter

Temperature Limiter Function (TR)

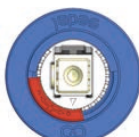
This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 6 selectable stops (every 8°), providing effective anti-scalding protection.



1st tur



2nd turn



3rd turn

Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

# Recomended Applications



Bathroom Faucet



Shower



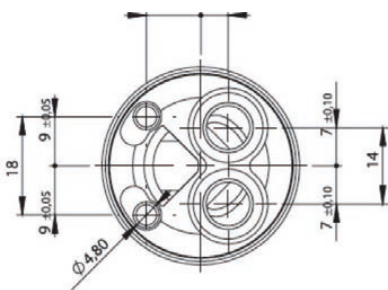
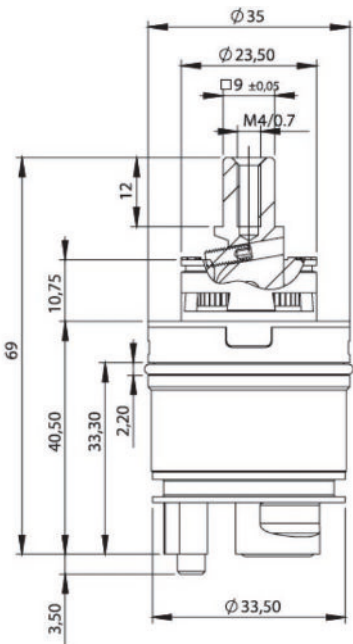
Bath



Kitchen

# Dimensions

Find machining requirements on page 92 - 95



# Certifications



\*Ready for NF

# Upper Sealing – Direct plug in

TR | TRN | DUE

## Versions

	Regular	Basic
TR	08CC35L0001	08CC35L0001
TR	08CC35L0001	08CC35L0001
TRN	08CC35L4501	08CC35L4502
DUE TR	-	08CC35L5701



CC-35 C/D Regular  
08CC35L0003

## Description

Upper sealed cartridges give manufacturers the versatility to create a range of faucet configurations, including designs with the spout positioned on the upper side. These cartridges not only support diverse design options but also enhance efficiency and productivity, thanks to their innovative and practical design.

## Features



Eco



Flow Limiter



Temperature Limiter

## Technical Specifications

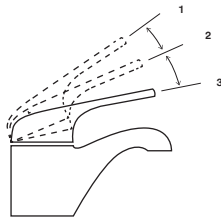
General	
Prescribed tightening torque	10-12Nm
Opening angle	235°
Rotation angle	96°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life cycle- NF077 U3(EN817)	70,000 cycles
Sensitivity	>10°
Fidelity	< 5°
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C
Max. hot water	90°C

Operation Torque	
Open-close	0.30-0.50 Nm
Flow rate 3 bar	
Free flow	22.4 l/min
C-Restrictor	11.8 l/min

# Advantages

## Due technology

Due technology provides a subtle resistance at around 50% flow, making it easier to control water usage. This feature allows for significant water savings without compromising functionality.



- 1. MAX = 23.5° = 100 %
- 2. CLICK = 13° = 60 %
- 3. OFF = 0° = 0 %

## Upper Sealing Cartridges

Upper sealed cartridges provide manufacturers with enhanced flexibility in faucet configurations, especially for designs where the spout is positioned on the upper side. These cartridges are designed for a wide range of applications, offering precise water flow control and compatibility with various faucet styles. Their top-sealed design makes them an efficient and adaptable solution for modern faucet systems.

## Strong Materials

Build with strong materials and improved with each actualization.

## Temperature and Flow limiter

Temperature Limiter Function (TR)

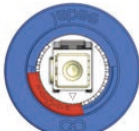
This TOP cartridge offers an optional TR ring, which allows limiting the maximum temperature in 6 selectable stops (every 8°), providing effective anti-scalding protection.



1st tur



2nd turn



3rd turn

Temperature & Flow Limiter Function (TRN)

TRN technology not only limits the temperature but also helps save water by incorporating a flow limiter. The flow can be adjusted using a screw located in the cartridge lever, allowing for easy control and reduction of water flow.

# Recomended Applications



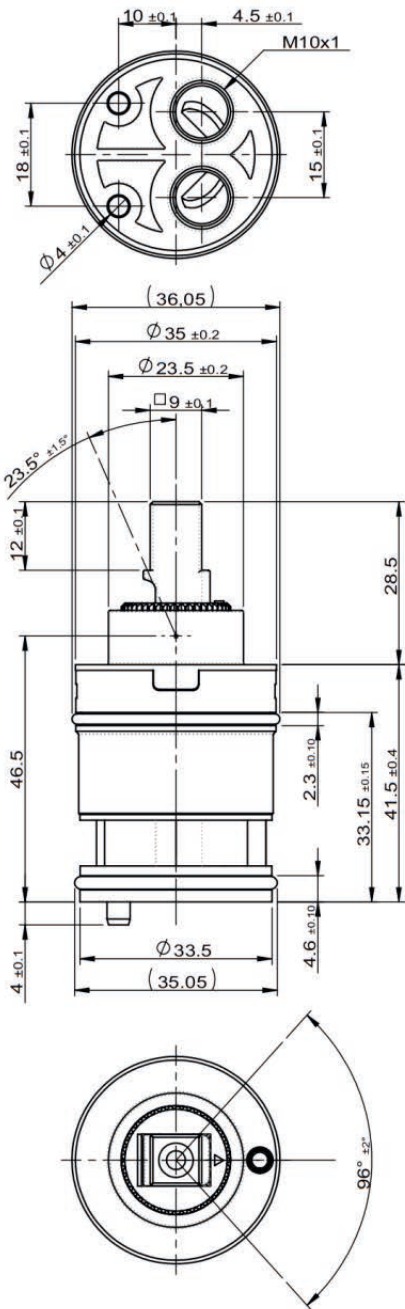
Bathroom Faucet



Kitchen faucet

## Dimensions

Find machining requirements on page 92 - 95



## Certifications



\*Ready for NF

# Termaclick

93° | MIRROR

## Versions

	C/D	S/D
90-3°	08SN35L2005	08SN35S2005
Mirror	08SN35L2004	08SN35S2004
Mirror 90-3°	08SN35L2006	08SN35S2006



SN-35 C/D TK  
08CC35L2003



SN-35 S/D TK  
08CC35S2003

## Description

The Termaclick cartridge features a mid-stroke click at the comfort temperature point, helping reduce energy waste while providing smooth operation. This valve also includes a cold start function and is available in 35mm and a mirrored version for kitchen applications.

## Features



Eco



Termaclick technology



Cold

## Technical Specifications

General	
Nut torque/Pitch M1.5	10-12Nm
Opening angle	25°
Rotation angle	90°-3°
Working pressure (recommended)	1-5 bar
Burst pressure	>35 bar
Life test (x2 EN-817)	140,000 cycles
Sensitivity	>10mm
Fidelity	< 5°C
Max. hot water	90°C

Operation Torque	
Turn left-right (close)	0.15 - 0.35 Nm
Turn left-right (open)	0.10 - 0.25 Nm
CLICK in close (total torque)	0.15 - 0.30 Nm
CLICK in open (total torque)	0.50 - 0.70 Nm
Flow rate 3 bar	
Free flow (mix)	21.4 l/min
A-Restrictor (mix)	11.8 l/min

# Advantages

Strong Materials

Build with strong materials and improved with each actualization.

Cold Start Technology

The lever is set to the cold position by default, helping to reduce household energy consumption by up to 10%. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.

Termacllick technology

Sedal's Termacllick cartridge range is designed to provide a no-burn safety feature that allows users to enjoy maximum hot water without risk, especially for children. The system ensures a comfort temperature of 38 °C with a noticeable click that stops rotation at the optimal point, thanks to a two-brass roller system and metallic band for precise temperature control.

LEFT TO HOT

110° VERSION

93° VERSION

Smooth operation

These cartridges offer a unique soft operation feel thanks to the SN technology

SN technology

In the closed position, the ceramic discs do not move, ensuring smoother operation and extending durability by up to 20% compared to EN designs.

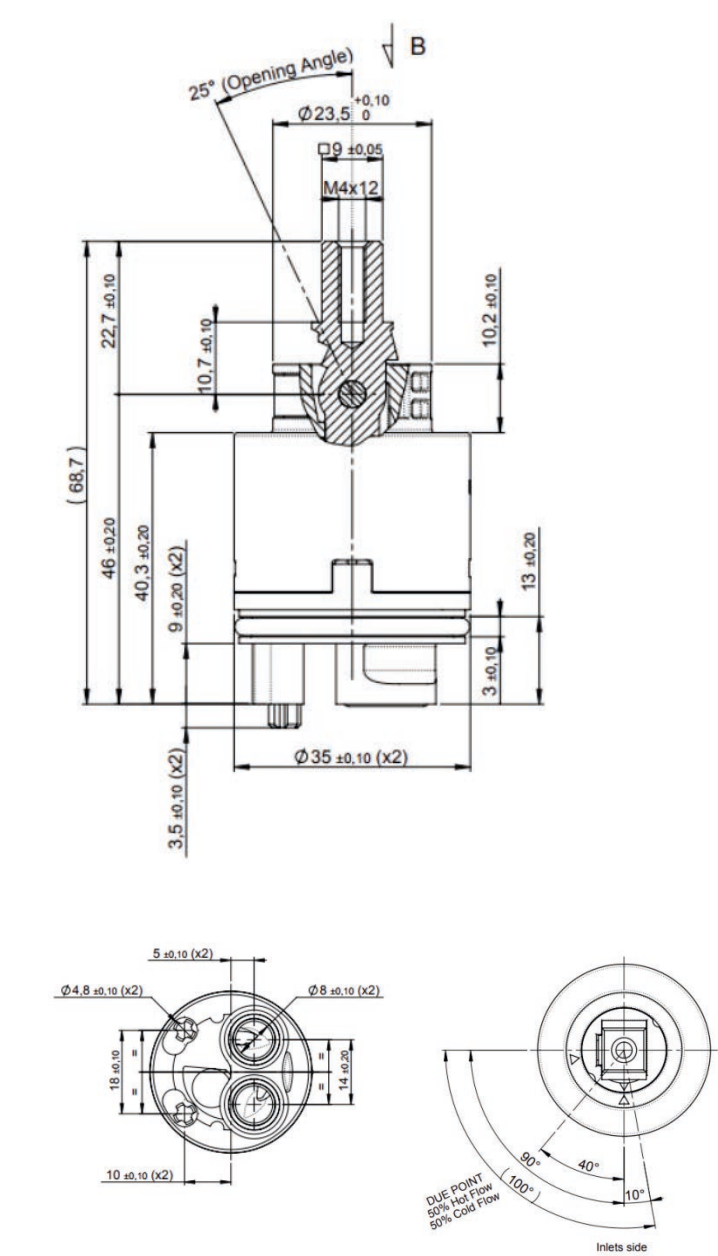
# Recomended Applications

Bathroom Faucet

Kitchen faucet

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

ACS

NSF

KTW

AS/NZS

\*Ready for NF

# Dry Faucet BISO SN-35


BISO 2 | BISO 3




## Description

Sedal’s BISO cartridge is integral to our Dry Faucet Range, ensuring water doesn’t touch the metal faucet body, making it ideal for lead-free compliance. With two inlets at the bottom and an outlet on one side, the BISO cartridge allows manufacturers to use various materials for faucet bodies, reducing brass usage while maintaining performance. Perfect for standard bath faucets with top-positioned levers, it ensures smooth water flow and design flexibility.


## Features




Eco



Cold



Low Lead



Dry Faucet

## Technical Specifications

General		Operation Torque	
Nut torque pitch M1,5	10-12Nm	Open-close	0.20-0.40 Nm
Opening angle	25°	Left-right	0.20-0.40 Nm
Rotation angle	90°	Flow rate (free flow)	
Working pressure (recommended)	1 - 5 bar	at 0.2 bar	5,3 l/min
Burst pressure	>50 bar	at 1 bar	12 l/min
Life cycle- EN 817 nf u3	175,000 cycles	at 3 bar	20,8 l/min
x2 ASME	1,000,000 cycles	at 5 bar	26,5 l/min
x2 GB18145	140,000 cycles		
Sensitivity	>10°		
Constant 63°C & 50°C (6 l/min - 3l/min)	<4°C - <6°C		
Max. hot water	90°C		



# Advantages

## Lighter body materials

The BISO cartridge allows faucet bodies to be made from a wide range of materials since water never touches the faucet itself. This flexibility results in lighter faucet designs, making casting, installation, and transportation much easier for manufacturers, without sacrificing quality or performance.

## Optional Lead free water

With the BISO cartridge, we can suit the faucet so water never touches the its body, allowing manufacturers to safely use a wide range of materials, including those that may contain lead. This ensures compliance with safety regulations while maintaining flexibility in design and material selection.

Spout core linking the cartridge outlet and  
aireator plugged directly into the hose.



Water inlet hoses Plugged  
directly into the cartridge.

## Metallic ports

ensuring best sealing options

## Different options available

Since this cartridge is part of the Endura family, there are different configurations available, such as Cold, Ecoflow or standard versions.

## Cold Start Technology

The lever is set to the cold position by default, helping to reduce household energy consumption by up to 10%. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.

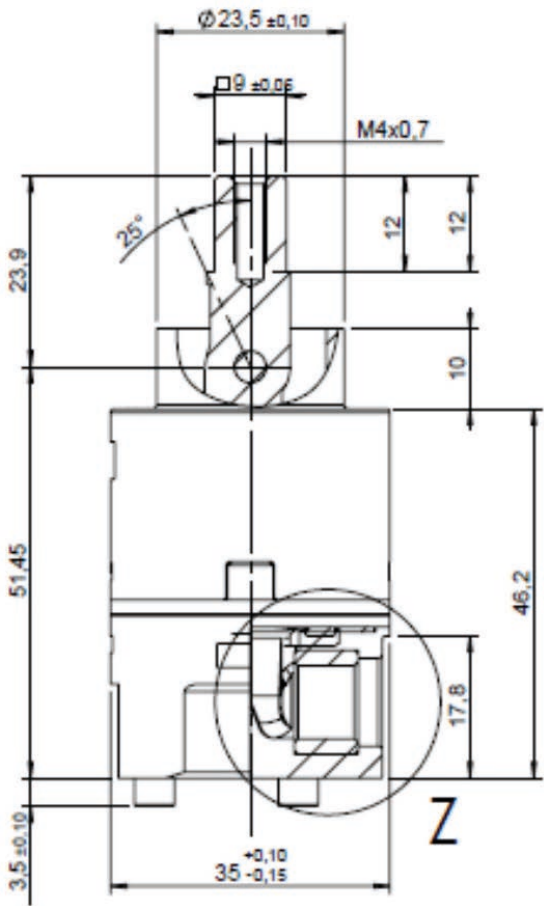
# Recomended Applications



Washbasins faucet

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS	ACS	NSF	KTW	AS/ NZS
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# Dry Faucet SISO EN-35

SISO 2 | SISO 3 | Standard | Cold Mirror

## Versions





SISO 2	08EN35A0002
SISO 3	08EN35A0001



## Description

Sedal’s SISO cartridge is integral to our Dry Faucet Range, ensuring water doesn’t touch the metal faucet body, making it ideal for lead-free compliance. With two inlets at one side and an outlet on the other side, the SISO cartridge allows manufacturers to use various materials for faucet bodies, reducing brass usage while maintaining performance. Perfect for standard kitchen faucets with side-positioned levers, it ensures smooth water flow and design flexibility.

## Features

	Eco		Cold
	Low Lead		Dry Faucet

## Technical Specifications

General		Operation Torque	
Prescribed tightening torque	10-12Nm	open - close	0.15-0.4 Nm
Opening angle	23°	Turn	0.15-0.4 Nm
Rotation angle	90°		
Working pressure (recommended)	1-5 bar		
Burst pressure	>50 bar		
Life test EN-817 ASME 112.18.1 M	70,000 cycles 500,000 cycles		
Sensitivity DN6	>10°	Flow rate 3 bar	
Fidelity	< 5°C	Free flow (mix)	13.8 l/min
Max. hot water	60-65°C	RhB	12 l/min

# Advantages

## Lighter body materials

The SISO cartridge allows faucet bodies to be made from a wide range of materials since water never touches the faucet itself. This flexibility results in lighter faucet designs, making casting, installation, and transportation much easier for manufacturers, without sacrificing quality or performance.

## Optional Lead free water

With the SISO cartridge, we can suit the faucet so water never touches the its body, allowing manufacturers to safely use a wide range of materials, including those that may contain lead. This ensures compliance with safety regulations while maintaining flexibility in design and material selection.



## Metallic ports

ensuring best sealing options

## Different options available

Since this cartridge is part of the Endura family, there are different configurations available, such as Cold, Ecoflow or standard versions.

## Cold Start Technology

The lever is set to the cold position by default, helping to reduce household energy consumption by up to 10%. This feature ensures that hot water is only used when necessary, promoting more efficient energy use in plumbing systems.

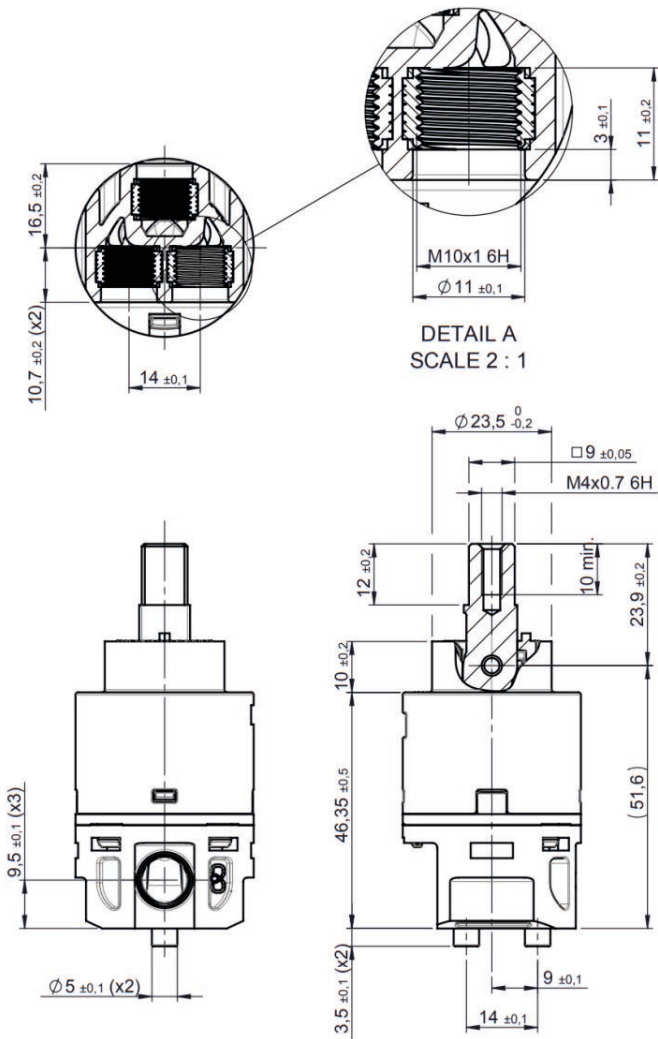
# Recomended Applications



Kitchen faucet

# Dimensions

Find machining requirements on page 86



# Certifications



# Dry Faucet - SIO

## Standard

## Versions

BASIC W/PINS	08EN35C0004
BASIC W/O-RING	08EN35C0002
STANDARD W/PIINS	08EN35C0003
STANDARD W/O-RING	08EN35C0001



BASIC - PINS  
08EN35C0004

## Description

The Dry Faucet range is an ideal solution for lead-free compliance, ensuring no contact between water and the metal faucet body. This design not only supports safer water systems but also reduces costs by enabling the use of various materials for faucet bodies and spouts, while minimizing brass usage. with both the inlets and the outlet at the same side, is specially design for kitchen faucets.

## Features



Eco



Low Lead



Cold



Soft

## Technical Specifications

General	
Prescribed tightening torque	10-12Nm
Opening angle	23°
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life test EN-817 ASME 112.18.1 M	70,000 cycles 500,000 cycles
Sensitivity EN817 (r=45mm)	>10mm
Fidelity	< 5°C
Constant 63°C & 50°C (6 l/min-3 l/min)	<4 - < 6°C
Max. hot water	90°C
Max. hot water	90°C

Operation Torque	
Open - close	0.15-0.4 Nm
Turn left-right	0.15-0.4 Nm
Flow rate 3 bar	
Free flow	13.6 l/min
B-Restrictor	12,0 l/min

## Advantages

### Strong Materials

Constructed with strong and long-lasting materials, these cartridges are designed to provide the best user experience.

### Smooth operation

These cartridges offer a unique soft operation feel thanks to the SN technology.

### Lead Free policy

This is an optimal solution for lead free projects, since there is the possibility of no contact between the water and the faucet body.

### Application flexibility

You can either use it as a full Dry Faucet and add flexible hoses (connected outlet), or you can only connect both inlets but not the outlet, making it free flow.

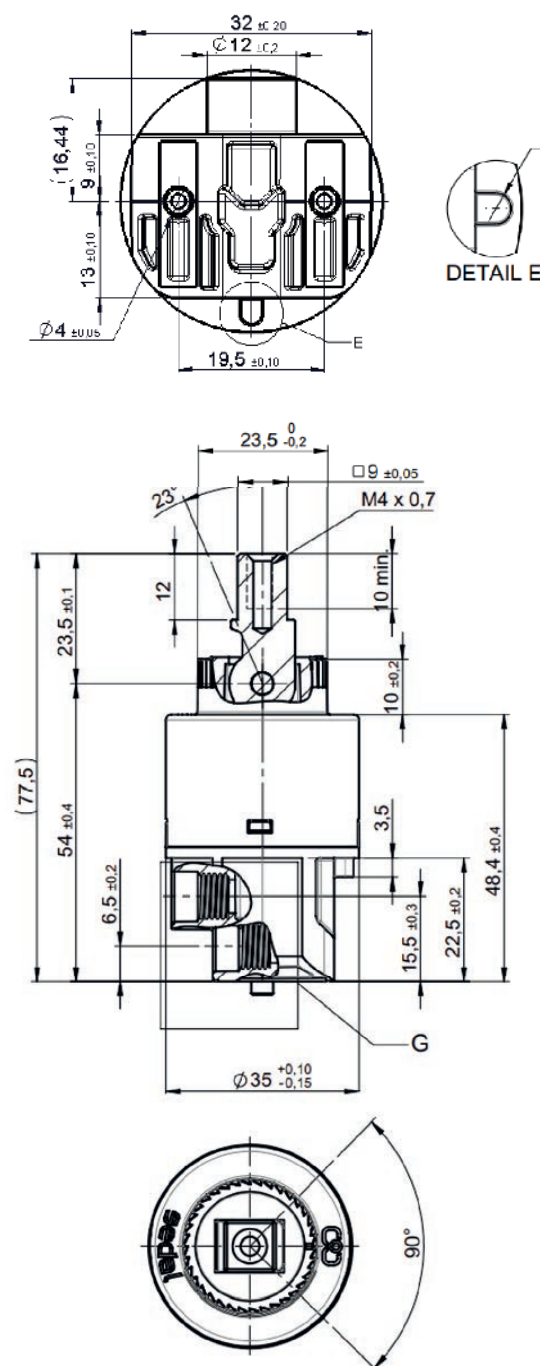
## Recommended Applications



Kitchen faucet

## Dimensions

Find machining requirements on page 92 - 95



## Certifications

WRAS

ACS

NSF

KTW

AS/  
NZS

# SPECIAL - Revolving

L9 | Z20

## Versions

	CD	SD
L9	08GI35LBE09	08GI35FBE09
Z20	08GI35LBE01	08GI35FBE01
TR Cold	08GI35LBE64	08GI35FBE64



L9  
08EN35LBE09

## Description

The 35mm GI25 revolving cartridge is designed for efficient water control, featuring a turning lever that first regulates water flow, followed by temperature adjustment at the end of the lever's rotation. This structured approach ensures optimized flow before temperature control, providing precise and smooth operation. Popular in some countries like the US for its intuitive movement, especially with vertical levers, this cartridge suits slim faucet bodies and cascade tap designs, making it ideal for modern and minimalist configurations.

## Features



Eco



Cold



Temperature  
Limiter



Metal Lever



Revolving

## Technical Specifications

General		Operation Torque	
Nut torque pitch M1,5	10-12Nm	Turn left-right	0.1-0.3 Nm
Rotation angle	180°		
Working pressure (recommended)	1 - 5 bar		
Burst pressure	>35 bar		
Life cycle- EN 200	200,000 cycles	Flow rate (free flow)	C/D S/D
ASME 118.12.1 M	500,000 cycles	at 0.5 bar	9.9 l/min 8.6 l/min
Max. hot water*	90°C	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

# 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.

Temperature limiter function

45° TURN

21° TURN

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°

Cold Technology

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

0°

180°

Household energy consumption related to cartridges in %

WITHOUT COLD


WITH COLD

18%

8%

-45%

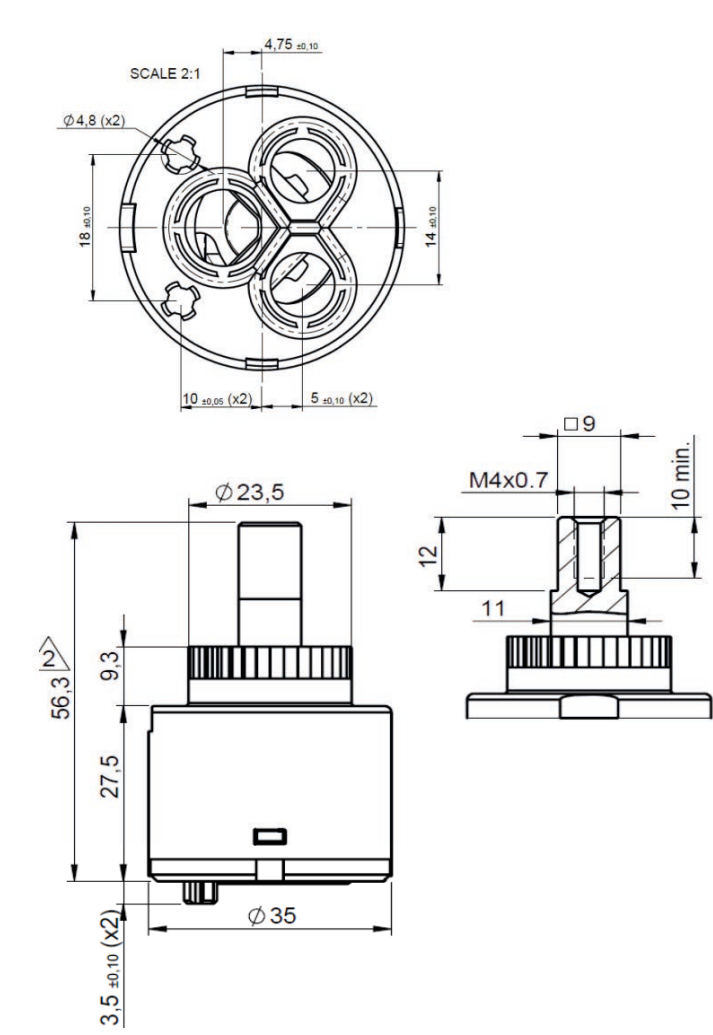
# Recomended Applications



Kitchen faucet

# Dimensions

Find machining requirements on page 92 - 95



# Certifications

WRAS

ACS

NSF

KTW

AS/NZS



# Joystick

Standard



JY-35 C/D  
08JY35L001

## 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 movement



Metal Lever

## Technical Specifications

General	
Prescribed tightening torque	10-12Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>25 bar
Life cycle- EN 817	70,000 cycles
Max. hot water	90°C

Operation Torque	
Turn left-right	0.20-0.40 Nm
Flow rate 3bar	
Free flow	24.6 l/min
C-Restrictor	19.20 l/min

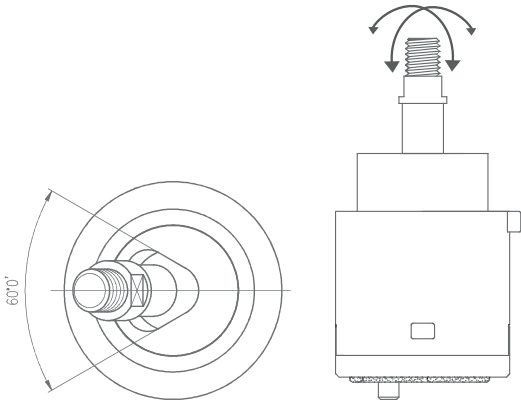
# Advantages

## 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 Flowrate

JY-35 has higher flow rates than previous versions.

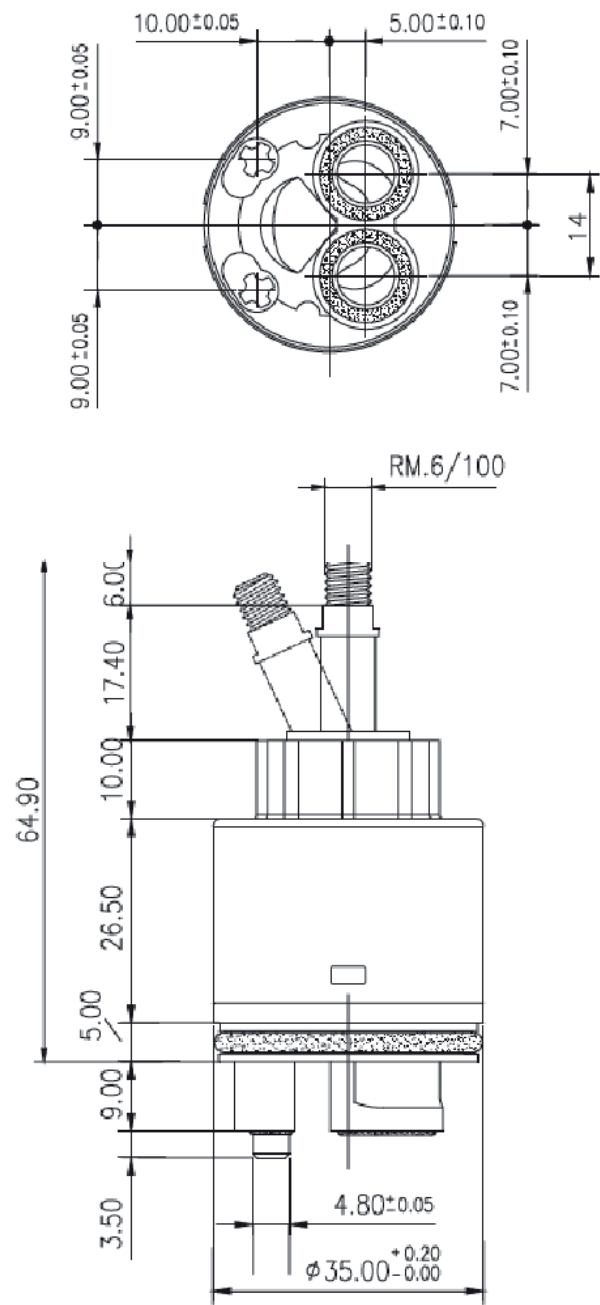
# Recomended Applications



Washbasins faucet

# Dimensions

Find machining requirements on page 92 - 95



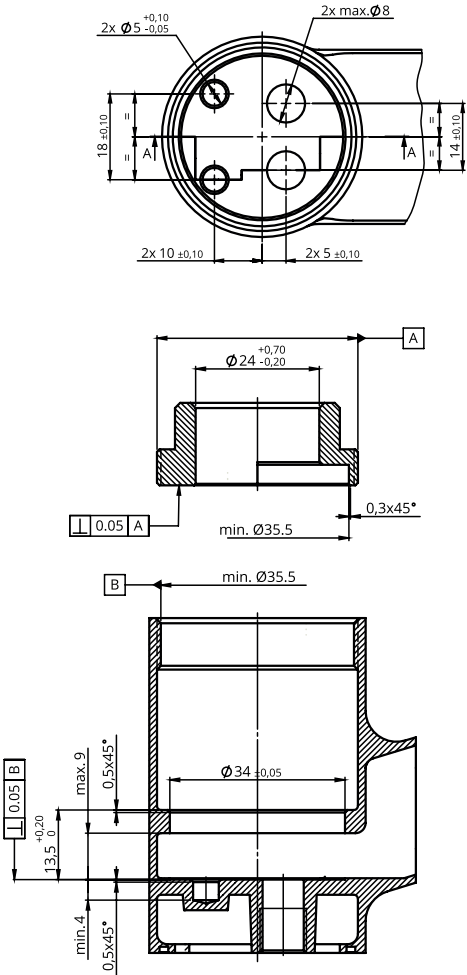
# Certifications



# Mechanical Requirements

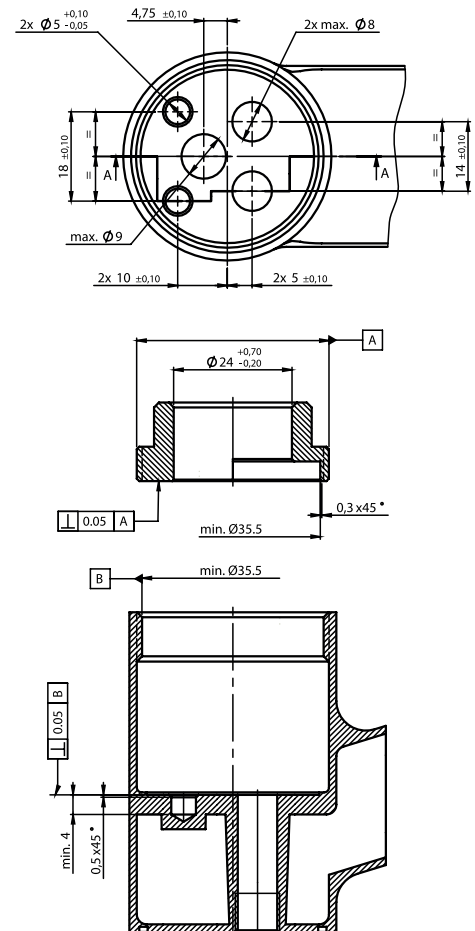
35mm

Diameter	Cartridge	Reference	Pg.	Machining tip
35 mm	EN-35 C/D TOP TR C1	08EN35L0023	56 - 57	
	EN-35 C/D TOP DUE TR C2	08EN35L3504	56 - 57	
	EN-35 C/D TOP TR HIGH FLOW	08EN35L0507	56 - 57	
	EN-35 C/D TOP COLD TR Ch3	08EN35L2502	56 - 57	
	EN-35 C/D TOP COLD DUE TR C3	08EN35L5002	56 - 57	
	EN-35 C/D TOP COLD MIRROR TR	08EN35L2503	56 - 57	
	EN-35 C/D TOP COLD MIRROR DUE TR	08EN35L5003	56 - 57	
	SN-35 C/D ENDURA	08SN35L0013	64 - 65	
	SN-35 C/D ENDURA DUE	08SN35L3001	64 - 65	
	SN-35 C/D ENDURA COLD	08SN35L1502	64 - 65	
	SN-35 C/D ENDURA COLD DUE	08SN35L0004	64 - 65	
	EN-35 C/D ENDURA	08EN35L0004	66 - 67	
	EN-35 C/D ENDURA DUE	08EN35L3001	66 - 67	
	EN-35 C/D ENDURA COLD	08EN35L1503	66 - 67	
	EN-35 S/D ENDURA COLD MIRROR	08EN35L1505	66 - 67	
	EN-35 C/D ENDURA COLD DUE	08EN35L0005	66 - 67	
	EN-35 C/D ENDURA COLD MIRROR DUE	08EN35L2002	66 - 67	
	EN-35 C/D	08EN35L0003	70 - 71	
	EN-35 C/D DUE	08E35LAZ30	70 - 71	
	SN-35 C/D	08SN35LGO00	68 - 69	
	EN-35 C/D BG BASIC	08EN35L0011	72 - 73	
	SN-35 C/D ECOFLOW	08SN35L0008	74 - 75	
	SN-35 C/D TERMACLICK	08SN35L2003	80 - 81	
	SN-35 C/D TERMACLICK MIRROR	08SN35L2004	80 - 81	
	GI-35 C/D	08GI35LBE64	88 - 89	
	GI-35 C/D L9	08GI35LBE09	88 - 89	
	GI-35 C/D Z20	08GI35LBE01	88 - 89	
	JY-35 C/D	08JY35L001	90 - 91	



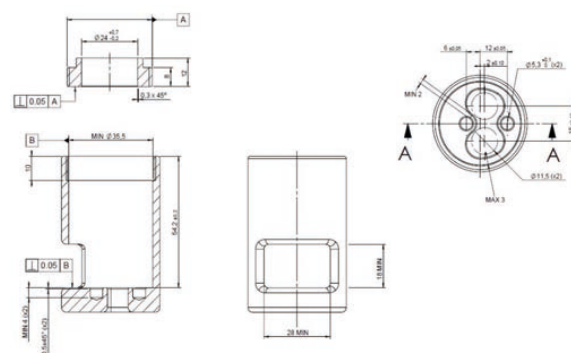
\*35,4mm cartridges are assembled in other machining prescription.

Diameter	Cartridge	Reference	Pg.	Machining tip
35 mm	EN-35 S/D TOP C1	08EN35S0023	56 - 57	
	EN-35 S/D TOP DUE C2	08EN35S3504	56 - 57	
	EN-35 S/D TOP HIGH FLOW	08EN35S0507	56 - 57	
	EN-35 S/D TOP NIEDERDRUCK	08EN35S0506	56 - 57	
	EN-35 S/D TOP COLD	08EN35S4003	56 - 57	
	EN-35 S/D TOP COLD DUE C3	08EN35S5002	56 - 57	
	EN-35 S/D TOP COLD MIRROR	08EN35S2503	56 - 57	
	EN-35 S/D TOP COLD MIRROR DUE	08EN35S5003	56 - 57	
	SN-35 S/D ENDURA	08SN35S0013	64 - 65	
	SN-35 S/D ENDURA DUE	08SN35S3001	64 - 65	
	SN-35 S/D ENDURA COLD	08SN35S1502	64 - 65	
	SN-35 S/D ENDURA COLD DUE	08SN35S0004	64 - 65	
	EN-35 S/D ENDURA	08EN35S0004	64 - 65	
	EN-35 S/D ENDURA DUE	08EN35S3001	64 - 65	
	EN-35 S/D ENDURA COLD	08EN35S1503	64 - 65	
	EN-35 S/D ENDURA COLD MIRROR	08EN35S1505	64 - 65	
	EN-35 S/D ENDURA COLD DUE	08EN35S0005	64 - 65	
	EN-35 S/D ENDURA COLD MIRROR DUE	08EN35S2002	64 - 65	
	EN-35 S/D	08EN35S0003	70 - 71	
	EN-35 S/D DUE	08E35FAZ30	70 - 71	
	SN-35 S/D	08SN35FG000	68 - 69	
	TRN-35 S/D	08RN35FVE01	68 - 69	
	EN-35 S/D BG BASIC	08EN35S0011	72 - 73	
	SN-35 S/D ECOFLOW	08SN35S0009	74 - 75	
	SN-35 S/D TERMACLICK	08SN35S2003	80 - 81	
	SN-35 S/D TERMACLICK MIRROR	08SN35S2004	80 - 81	
	GI-35 S/D	08GI35FBE64	88 - 89	
	GI-35 S/D L9	08GI35FBE09	88 - 89	
	GI-35 S/D Z20	08GI35FBE01	88 - 89	

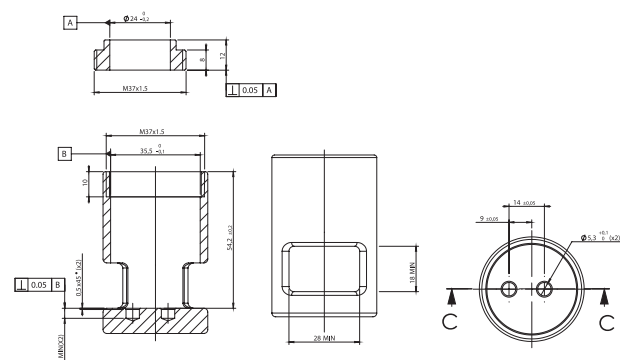


## Ceramic mixing cartridges for single lever faucets

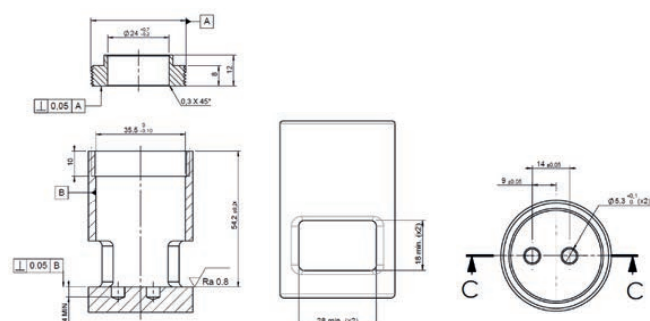
Diameter	Cartridge	Reference	Pg. Machining tip
35 mm	SN-35 BISO 3	08SN35B0001	88 - 83
	SN-35 BISO 2	08SN35B0002	88 - 83



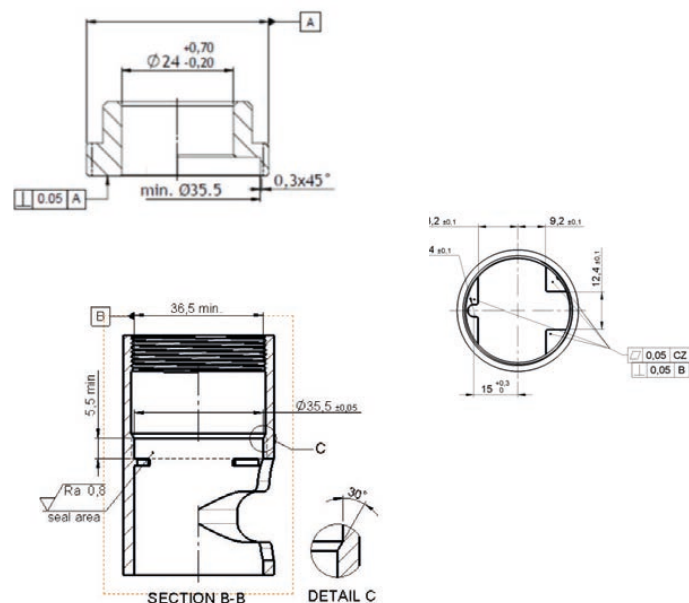
Diameter	Cartridge	Reference	Pg. Machining tip
35 mm	SN-35 SISO 3	08SN35A0001	84 - 85
	SN-35 SISO 2	08SN35A0002	84 - 85



Diameter	Cartridge	Reference	Pg. Machining tip
35 MM	SN-35 SISO STD	08EN35A0003	84 - 85
	SN-35 SISO COLD MIRROR	08EN35A1503	84 - 85

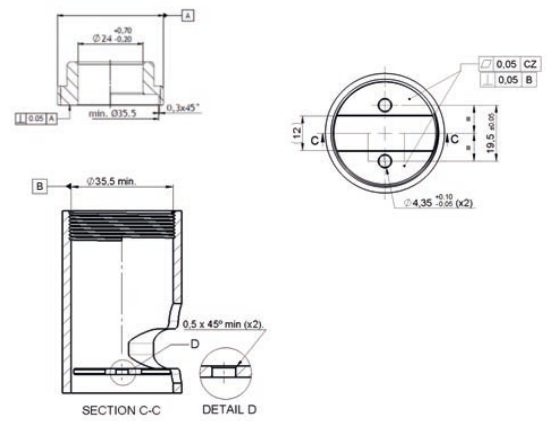


Diameter	Cartridge	Reference	Pg. Machining tip
35 mm	SIO	08EN35C0001	86 - 87
	SIO	08EN35C0002	86 - 87



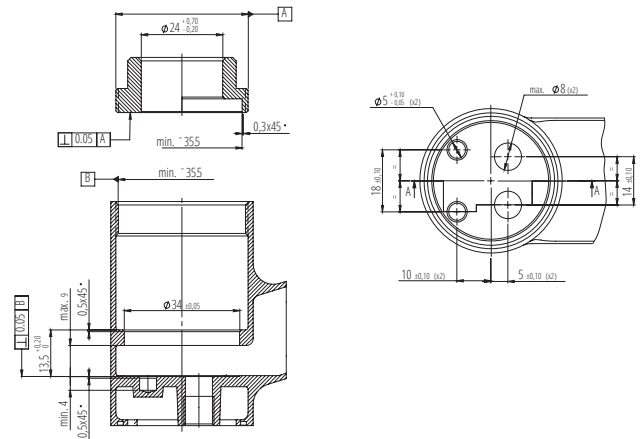
Diameter	Cartridge	Reference	Pg. Machining tip
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35 mm	SIO	08EN35C0003	86 - 87
	SIO	08EN35C0004	86 - 87



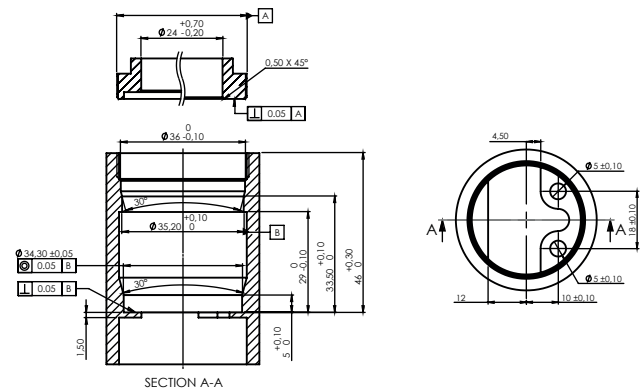
Diameter	Cartridge	Reference	Pg. Machining tip
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35 mm	G-35 C/D TOP C1	08G35L0502	58 - 59
	G-35 C/D TOP COLD Ch3	08G35L2501	58 - 59
	G-35 C/D	08RG35L4602	58 - 59
	G-35 C/D DUE	08G35L0002	58 - 59
	G-35 C/D COLD	08G35L1501	58 - 59



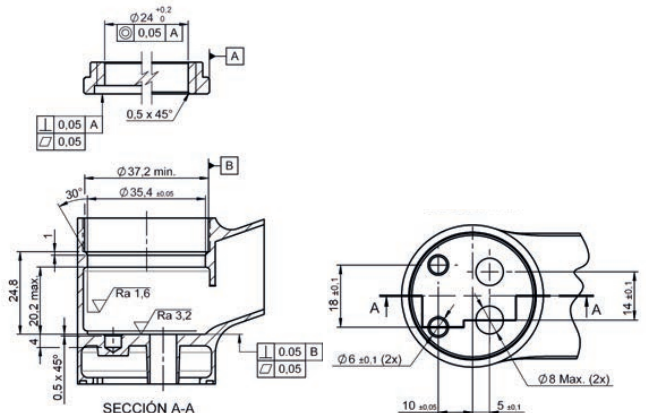
Diameter	Cartridge	Reference	Pg. Machining tip
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35 mm	CC-35 C/D TOP C1	08CC35L0501	60 - 61
	CC-35 C/D TOP COLD Ch3	08CC35L2501	60 - 61
	CC-35	08CC35L0003	60 - 61
	CC-35 BASIC	08CC35L0016	60 - 61
	CC-35 DUE	08CC35L4502	60 - 61



Diameter	Cartridge	Reference	Pg. Machining tip
----------	-----------	-----------	-------------------

35 mm	EX-35 TOP C1	08EX35L0504	62 - 63
	EX-35 TOP DUE C2	08EX35L3502	62 - 63
	EX-35 TOP COLD Ch3	08EX35L2503	62 - 63
	EX-35 TOP COLD DUE C3	08EX35L5003	62 - 63
	EX-35 TRN	08EX35S0001	62 - 63
	EX-35 TRN DUE	08EX35S3501	62 - 63



# 40 mm

The widest and most efficient diameter range, featuring the best cartridges in-house — and probably on the market.

You can choose from a variety of applications, including standard faucets and showers, concealed systems, and eco-friendly options. The most popular materials are plastic and metal levers. Functionality includes eco-friendly options, safety features, SN & EN cartridges, upper and lower sealing, and much more.

*Pressure Balance technology*



## Cartridges for single lever faucets

60 products  
12 Categories



# 40 mm

## SN-40 Thedra



	Code	Page
Standard C/D	08SN40L0507	102 - 103
TR C/D	08SN40L0501	102 - 103
TRN C/D	08SN40L4501	102 - 103
Niederdruck C/D	-	102 - 103
Due C/D	08SN40L3001	102 - 103
Due TR C/D	08SN40L3501	102 - 103
Due TRN C/D	On demand	102 - 103
Cold TR C/D	08SN40L2501	104 - 105
Cold TRN C/D	08SN40L4001	104 - 105
Cold Dur TR C/D	08SN40L5001	104 - 105
Cold Due TRN C/D	08SN40L5501	104 - 105
EcoFlow C/D	08SN40L0003	106 - 107
High Flow C/D	08GN40L0001	108 - 109
High Flow TR C/D	08GC40L0501	108 - 109
High Flow TRN C/D	08GC40L4501	108 - 109
Standard S/D	08SN40S0507	102 - 103
TR S/D	08SN40S0501	102 - 103
TRN S/D	08SN40S4501	102 - 103
Niederdruck S/D	08SN40S0007	102 - 103
Due S/D	08SN40S3001	102 - 103
Due TR S/D	08SN40S3501	102 - 103
Due TRN S/D	On demand	102 - 103
Cold TR S/D	08SN40S2501	104 - 105
Cold TRN S/D	08SN40S4001	104 - 105
Cold Dur TR S/D	08SN40S5001	104 - 105
Cold Due TRN S/D	08SN40S5501	104 - 105
EcoFlow S/D	08SN40S0003	106 - 107
High Flow S/D	08GC40S0001	108 - 109
High Flow TR S/D	08GC40S0501	108 - 109
High Flow TRN S/D	08G40S4501	108 - 109

## E-40



	Code	Page
DUE	08E40FAZ30	110

## EN-40



	Code	Page
Stanadrd C1 C/D	08EN40L1002	111
Due C2 C/D	08EN40S1002	111
Stanadrd C1 S/D	08EN40L3005	111
Due C2 S/D	08EN40S3005	111

## EC-40



	Code	Page
Standard C1 C/D	08EC40L1002	112 - 113
Cold Due C3 C/D	08EC40L3005	112 - 113
Cold Mirror Due Ch3 C/D	08EC40L2001	112 - 113
Standard C1 S/D	08EC40S1002	112 - 113
Cold Due C3 S/D	08EC40S3005	112 - 113
Cold Mirror Due Ch3 S/D	08EC40S2001	112 - 113

## TRN 40



	Code	Page
TRN C/D	08RN40LVE00	114
TRN S/D	08RN40FVE00	114

## SN-40



	Code	Page
Standard C/D	08SN40LAZ00	115
Standard S/D	08SN40FAZ00	115

## HIGH FLOW



	Code	Page
GC-45	08GC45FBE00	116

## Basic



	Code	Page
Standard C/D	08DN40LBG01	117
Standard S/D	08DN40FBG01	117

## REVOLVING



	Code	Page
Standard C/D	08GI40LBE64	118 - 119
Z20 Metal Lever C/D	08GI40LBE00	118 - 119
L10 plastic lever C/D	08GI40LBE10	118 - 119
Standard S/D	08GI40FBE64	118 - 119
Z20 Metal Lever S/D	08GI40FBE00	118 - 119
L10 plastic lever S/D	08GI40FBE10	118 - 119

## PRESSURE BALANCE



	Code	Page
PB-40	08PB40L0001	120 - 121
PB-40 TRN	08PB40L4602	120 - 121

## UPPER SEALING



	Code	Page
G-40 C/D	08G40LBE00	122 - 123
G-40 S/D	08G40LBE30	122 - 123

## COMPACT



	Code	Page
EX-40	08EX40S0001	124 - 124
EX-40 DUE	08EX40S3001	124 - 125

# SN-40 Thedra

TR | TRN | Niederdruck | DUE

## Versions

	CD	SD
THEDRA TR	08SN40L0501	08SN40S0501
THEDRA TRN	08SN40L4501	08SN40S4501
THEDRA Niederdruck(1)	-	08SN40S0007
THEDRA DUE	08SN40L3001	08SN40S3001
THEDRA DUE TR	08SN40L3501	08SN40S3501
THEDRA DUE TRN	On demand	On demand



SN-40 C/D  
08SN40L0507



SN-40 S/D  
08SN40S0501

## 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.

## Features



Temperature  
Limiter



Flow Limiter



Eco



Soft

## Technical Specifications

General	
Nut torque pitch mm	10-12 Nm
Openin angle	25°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	<50 bar
Life cycle- EN 817 NF	175,000 cycles
(2x) ASME 112.82.1 M	1.00.000 cycles
GB18145	140,000 cycles
Max. hot water	90°C

Operation Torque	
Turn left-right	0.20-0.40 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	13 l/min	11.8 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

# Recomended Applications



Washbasin faucet



Kitchen faucet



Bath - Shower

# Certifications

WRAS

ACS

NSF

KTW

AS/  
NZS

# 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 solutions, high performance materials and extraordinarily precise components are used to build the new THEDRA cartridges.

## Great range. Greater 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

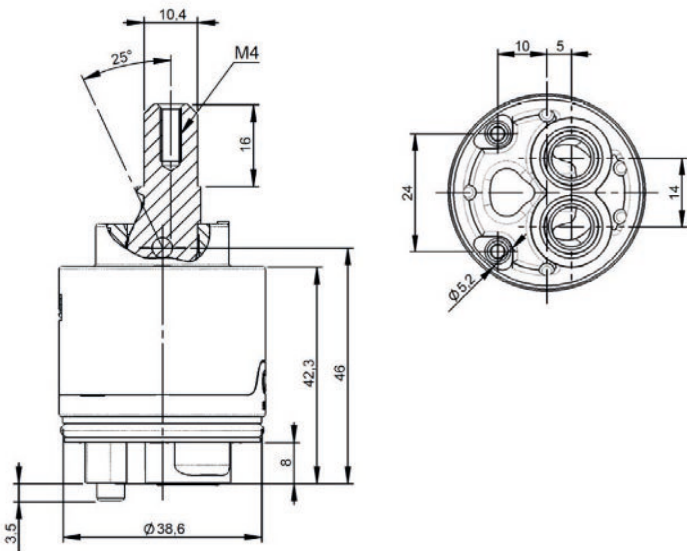
The new THEDRA cartridge has 2 times ASME life cycles thanks to SedalOX™ 96.

## Unequal design, unequal results

THEDRA was granted with reddot award in 2016.

# Dimensions

Find machining requirements on page 122 -125



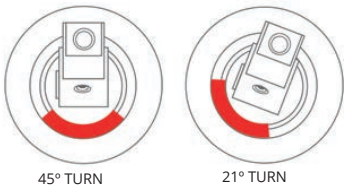
## Due Technology

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.

## 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.



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.

## Niederdruck

Niederdruck is a popular system in Germany that uses a small heater below the sink requiring a single cold water inlet and using the cartridge in a different configuration than usual.

# SN-40 Thedra

COLD | DUE

## Versions

	CD	SD
THEDRA COLD TR	08SN40L2501	08SN40S2501
THEDRA COLD TRN	08SN40L4001	08SN40S4001
THEDRA COLD DUE TR	08SN40L5001	08SN40S5001
THEDRA COLD DUE TRN	08SN40L5501	08SN40S5501



SN-40 C/D COLD  
08SN40L2501



SN-40 S/D COLD  
08SN40S2501

## 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.

## Features



Temperature  
Limiter



Soft



Eco



Cold



Flow Limiter



Due

## Technical Specifications

General	C/D & S/D
Nut torque pitch	10-12Nm
Opening angle	25°
Rotation angle	110°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle- EN 817 NF U3 x2 ASME x2 GB 18145	175,000 cycles 1,000,000 cycles 140,000 cycles
Sensitivity	<10 mm
Fidelity	<5° bar
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4° C - <6°C
Max. hot water	90°C

Operation Torque	C/D & S/D
Open-close	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm
Noise Level	C/D & S/D
Noise level	<20 dB

Flow rate (free flow)	C/D	S/D
at 0.5 bar	4.4 l/min	5.2 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 5 bar	16.5 l/min	15.4 l/min

Water test **NF-077**.  
Flow rate figures at cold position.

# 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).

## Great range. Greater 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.

## Double life-cycle

The new THEDRA cartridge has 2 times ASME life cycles thanks to SedalOX™ 96.

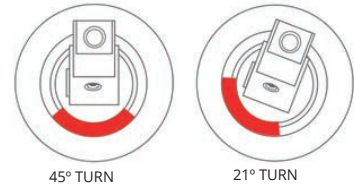
## Unequal design, unequal results

THEDRA was granted with reddot award in 2016.

## 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.



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.

# Recomended Applications



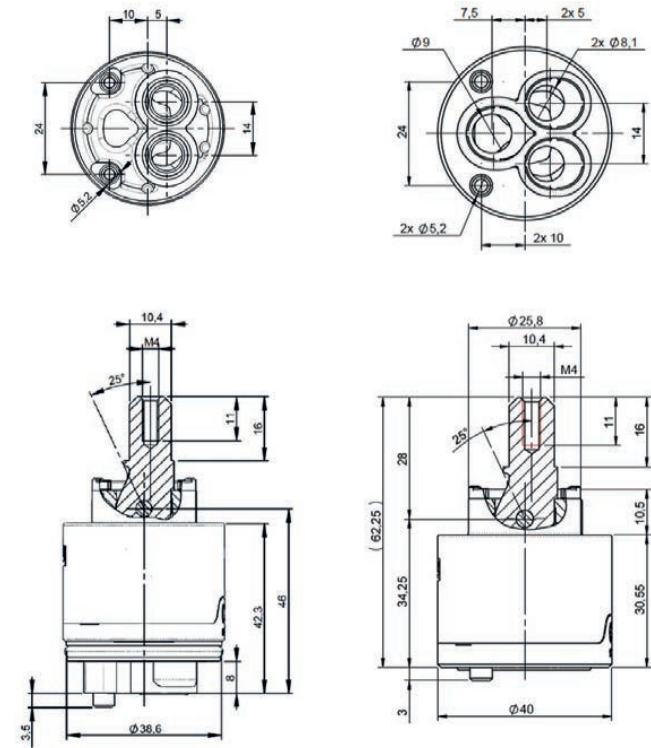
Washbasins



Kitchen faucet

# Dimensions

Find machining requirements on page 122 -125



# Certifications

WRAS

ACS

NSF

KTW

AS/ NZS

# SN-40 Thedra EcoFlow

## ECOFLOW



SN-40 C/D  
08SN40L0003



SN-40 S/D  
08SN40S0004

### 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 9 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.

### Features



Eco



Soft



Flow Limiter



### Technical Specifications

General	C/D	S/D
Nut torque pitch 1,5 mm	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	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	11-13 mm	11-13 mm
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C	<6°C
Max. hot water	90°C	90°C

Operation Torque	C/D & S/D
Open-close	0.2-0.40 Nm
Turn left-right	0.2-0.40 Nm
Flow rate (free flow)	C/D & S/D
at 0.5 bar	3.5 l/min
at 1 bar	5.2 l/min
at 3 bar	8.9 l/min
at 5 bar	11.3 l/min







# GC-40 Thedra High Flow

## High flow

## Versions

	CD	SD
THEDRA High Flow	08GN40L0001	08GC40S0001
THEDRA High Flow TR	08GC40L0501	08GC40S0501
THEDRA High Flow TRN	08GC40L4501	08G40S4501



SN-40 C/D HF  
08GC40L0001






SN-40 S/D HF  
08GC40S0001

## Description

The THEDRA 40 mm High Flow cartridge works with a unique clean & smart design that confers an undeiable ability to withstand the most extreme working conditions & requests; compression, torque, handle load, burst & x2 life cycles, granting smooth but firm user operation tahnks to the Glide Feel Technology

## Features

-  Temperature Limiter
-  Soft
-  Flow Limiter

## Technical Specifications

General	C/D & S/D
Nut torque pitch	10-12Nm
Opening angle	25°
Rotation angle	110°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle- x3 EN 817 x2 ASME x2 GB 18145	175,000 cycles 1,000,000 cycles 140,000 cycles
Sensitivity	<12 mm
Fidelity	<5° bar
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4° C - <6°C
Max. hot water	90°C

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

Noise Level	C/D & S/D
Noise level	<20 dB

Flow rate (free flow)	C/D	S/D
at 0.5 bar	4.4 l/min	5.2 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 5 bar	16.5 l/min	15.4 l/min

Water test **NF-077**.  
Flow rate figures at cold position.

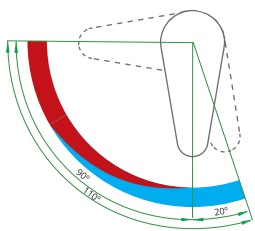
# Advantages

**Additional Features**

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

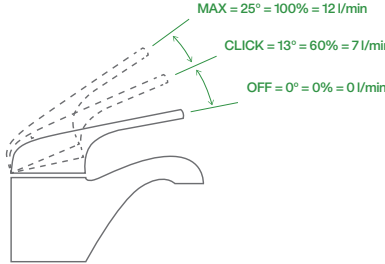
**Cold Technology**

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



**Due Technology**

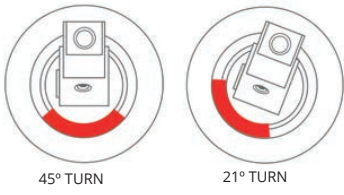
Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows saving up to 54% of daily water consumption.



**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.



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.

**Maximum Flowrate**

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

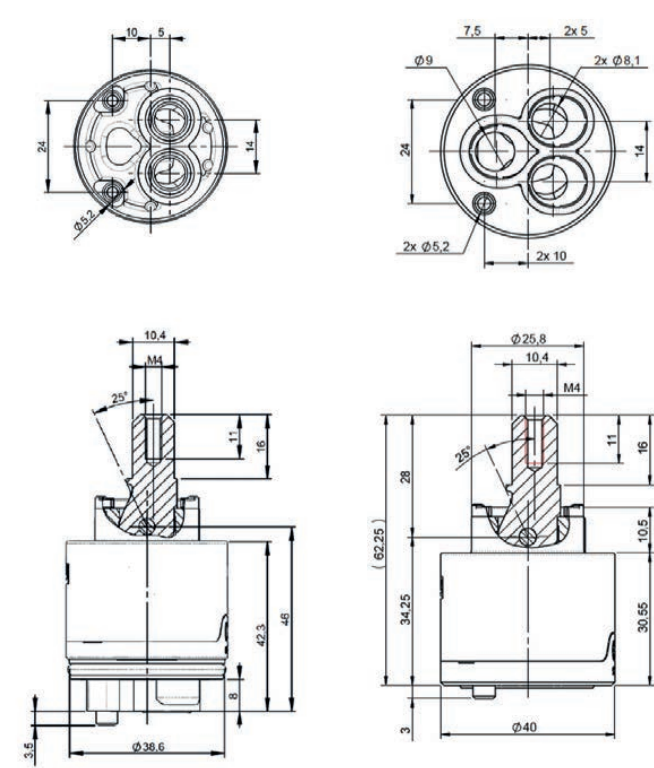
# Recomended Applications

**Washbasin faucet**

**Kitchen faucet**

# Dimensions

Find machining requirements on page 122 -125



# Certifications

WRAS

ACS

NSF

KTW

AS/  
NZS

E-40

DUE

Description

Standard 40mm cartridge with DUE technology.

Recomended Applications



Washbasins faucet



Kitchen faucet



Bath - Shower

Features



Eco



Due

Advantages

**Saving energy**

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

Certifications

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

Technical Specifications

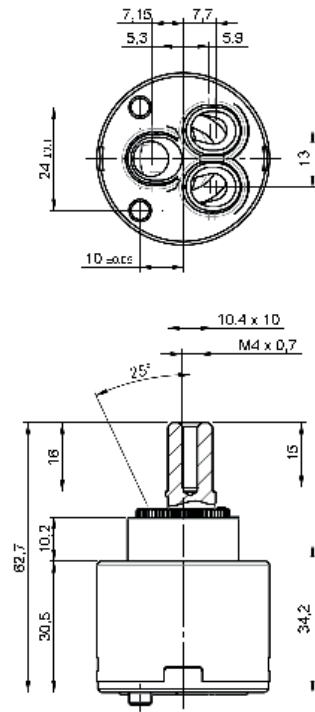
General	S/D
Nut torque pitch 1,5 mm	10-12Nm
Opening angle	25°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	≥55 bar
Life cycle- EN 817	70,000 cycles
Sensitivity	>12°
Max. hot water	90°C



E-40 S/D DUE  
08E40FAZ30 CT

Dimensions

Find machining requirements on page 122 -125



Operation Torque	S/D
Open-close	0.20-0.50 Nm
Turn left-right	0.20-0.50 Nm

Flow rate (free flow)	S/D
at 3 bar	21.3 l/min

EN-40

Standard C1 | Due C2




Versions

	CD	SD
C1	08EN40L1002	08EN40S1002


Description

Standard cartridge meeting NFC18C2

Recomended Applications

-  Washbasins faucet
-  Kitchen faucet
-  Bath - Shower

Features

-  Eco
-  Due

Advantages

NF C2 (ECAU) Requeriments are met

Certifications

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

\*Ready for NF

Technical Specifications

General	C/D	S/D
Nut torque pitch 1,5 mm	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	>0 bar
Water hammer test	ECAU NF 077	ECAU NF 077
Life cycle- NF-077(U3)	175,000 cycles	175,000 cycles
Sensitivity (r=54mm)	>12mm	>12mm
Max. hot water	90°C	90°C



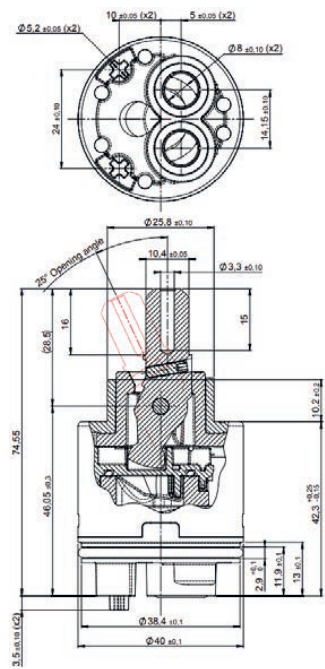
E-40 C/D  
08EN40L3005



E-40 S/D  
08EN40S3005

Dimensions

Find machining requirements on page 122 -125



Operation Torque	C/D & S/D	
Open-close	0.40-0.50 Nm	
Turn left-right	0.40-0.50 Nm	
Flow rate (free flow)	C/D	S/D
at 3 bar	27.5 l/min	25.3 l/min

EC-40

Cold Due C3 | Cold Mirror Due Ch3

Versions

	CD	SD
Standard C1	08EC40L1002	08EC40S1002
Cold Due C3	08EC40L3005	08EC40S3005
Cold Mirror Due Ch3	08EC40L2001	08EC40S2001



EN-40 C/D C3  
08EC40L3005



EN-40 S/D C3  
08EC40S3005

Description

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

Features



Eco



Cold



Due

Technical Specifications

General	C1 & C3	COLD MIRROR DUE
Nut torque pitch 1,5 mm	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	110°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle- NF-077 (U3)	175,000 cycles	175,000 cycles
Sensitivity (r=45 mm) NF-077	>10mm	>10mm
Fidelity NF-077	<5°	<5°
Max. hot water	90°C	90°C

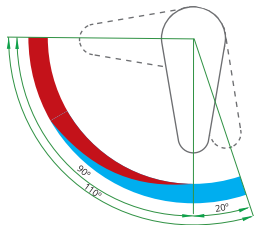
Operation Torque	C1 & C3	COLD MIRROR DUE
Open-close	0.40-0.50 Nm	0.20-0.50 Nm
Turn left-right	0.40-0.50 Nm	0.20-0.50 Nm

Flow rate (free flow)	C1 & C3	COLD MIRROR DUE
at 0.5 bar	4.3 l/min	4.3 l/min
at 1 bar	6.8 l/min	6.3 l/min
at 3 bar	11.8 l/min	11.4 l/min
at 5 bar	14.7 l/min	14.7 l/min

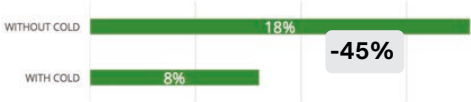
# Advantages

## Cold Technology

The lever is in cold position by default, saving up to 45% from the household energy consumption related to plumbing products.

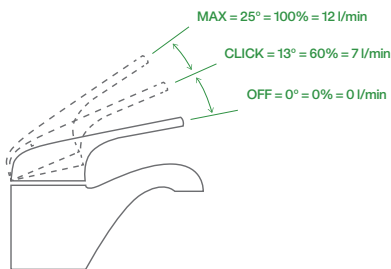


Household Energy Consumption related to cartridges in %

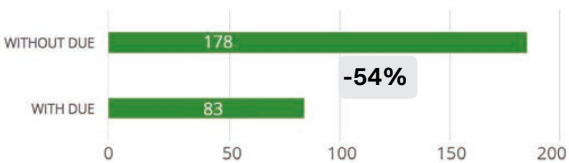


## Due Technology

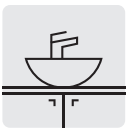
Easier control of water flow thanks to Due technology, which presents a slight resistance to indicate that the fitting is using approximately a 50% of its flow. This feature allows saving up to 54% of daily water consumption.



Daily average water consumption per person faucets & showers in liters.



# Recomended Applications



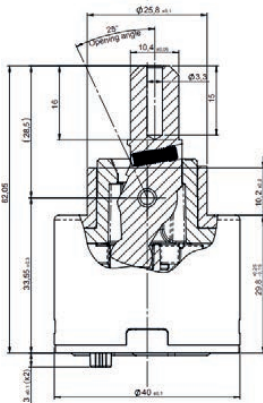
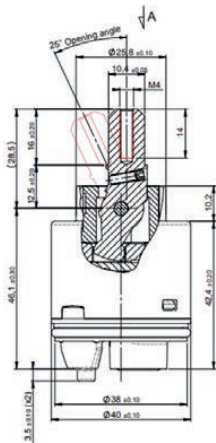
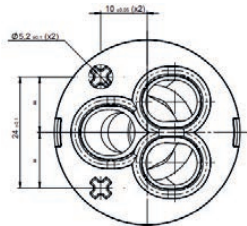
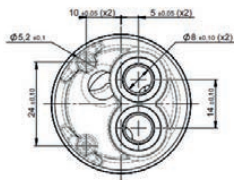
Washbasins faucet



Kitchen faucet

# Dimensions

Find machining requirements on page 122 -125



# Certifications

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

# TRN 40

Standad

## Advantages

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

## Recomended Applications



Washbasins faucet



Shower



Bath - Shower

## Certifications

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

## 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 (r=54mm)	8°-10°	8°-10°
Fidelity	<5°C	<5°C
Max. hot water	90°C	90°C



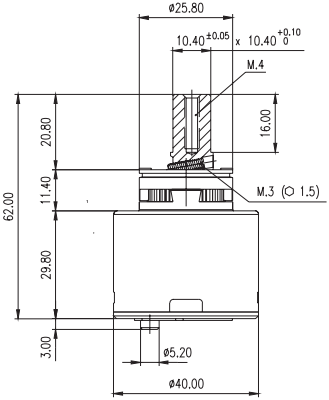
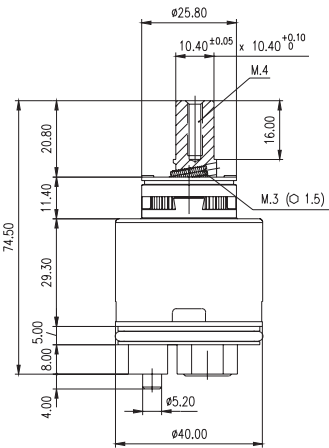
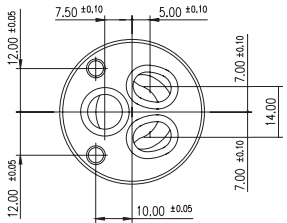
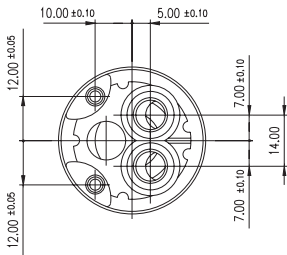
TRN-40 C/D  
08RN40LVE00



TRN-40 S/D  
08RN40FVE00

## Dimensions

Find machining requirements on page 122 -125



Operation Torque	C/D & S/D	
Open-close	0.35 - 0.50 Nm	
Turn left-right	0.35 - 0.50 Nm	

Flow rate (free flow)	C/D	S/D
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



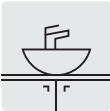
SN-40

Standad

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).

Recomended Applications



Washbasins faucet



Shower



Bath - Shower

Certifications

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

Technical Specifications

General	C/D	S/D
Nut torque pitch 1,5 mm	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	72 bar	68-77 bar
Life cycle- EN 817 GB18145	70,000 cycles	70,000 cycles
Sensitivity	10° - 12°	13° - 15°
Fidelity	<5°C	<5°C
Max. hot water*	90°C	90°C



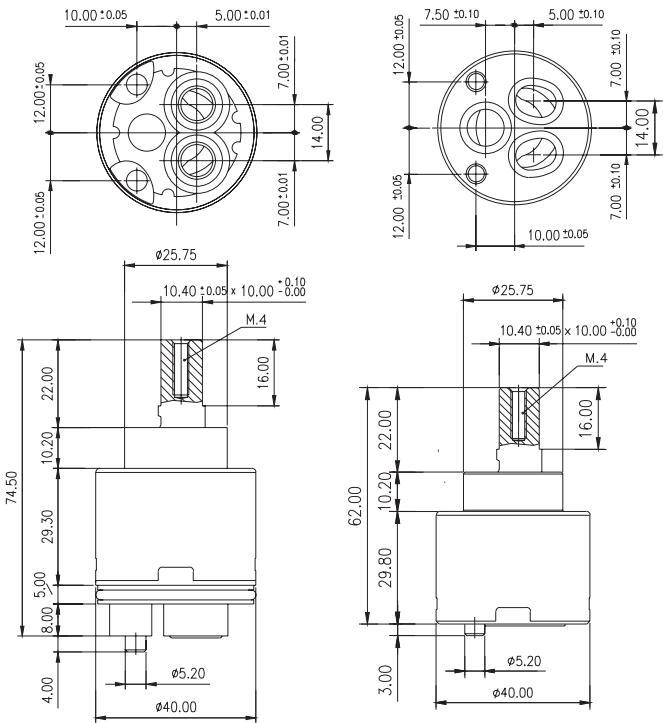
SN-40 C/D  
08SN40LAZ00



SN-40 S/D  
08SN40FAZ00

Dimensions

Find machining requirements on page 122 -125



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

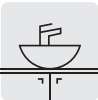
# High Flow

## GC-45

### Advantages

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

### Recomended Applications



Washbasin faucet



Kitchen faucet



Bath-Shower

### Features



Soft

### Certifications



### Technical Specifications

General	S/D
Nut torque pitch 1,5 mm	10-12 Nm
Opening angle	23°
Rotation angle	>20°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817 NF U3	70,000 cycles
x2 ASME 112.18.1 M	500,000 cycles
Max. hot water	90°C

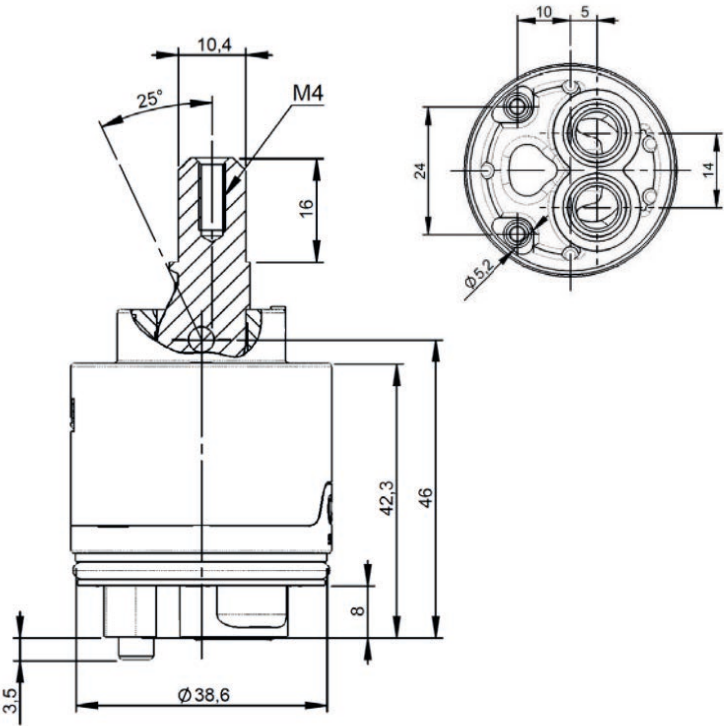
Operation Torque	S/D
Open-close	0.3-0.4 Nm
Turn left-right	0.4-0.5 Nm

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



### Dimensions

Find machining requirements on page 122 -125



Basic

BG-BASIC

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.

Recomended Applications



Washbasin faucet



Kitchen faucet



Bath-Shower

Advantages

Entry-level product with Sedal high-reliability.

Certifications

ACS

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 - 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° angle	
Max. hot water*	90°C	90°C



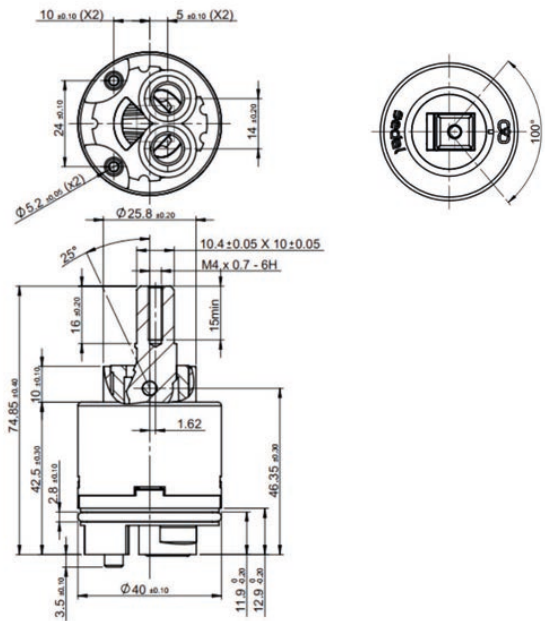
DN-40 C/D  
08DN40LBG01



DN-40 S/D  
08DN40FBG01

Dimensions

Find machining requirements on page 122 -125



Operation Torque	C/D & S/D	
Open-close	0.20-0.40 Nm	
Turn left-right	0.20-0.40 Nm	
Flow rate (free flow)	C/D	S/D
at @3 bar	24 l/min	24 l/min

# Revolving

GI-40

## Versions

	CD	SD
Z20 metal lever	08GI40LBE00	08GI40FBE00
L10 plastic lever	08GI40LBE10	08GI40FBE10



GI-40 C/D  
08GI40LBE64



GI-40 S/D  
08GI40FBE64

## Description

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

## Features



Eco



Metal Lever



Temperature Limiter



Revolving



Cold

## Technical Specifications

General	C/D & S/D
Nut torque pitch M1,5	10-12Nm
Rotation angle	180°
Working pressure (recommended)	1 - 5 bar
Burst pressure	40-50 bar
Life cycle - EN 200 ASME 118.12.1 M	200,000 cycles 500,000 cycles
Max. hot water	90°C

Operation Torque	C/D & S/D
Turn left-right	0.25-0.4 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



# Pressure Balance

PB-40

## Versions




	C/D
Pressure Banalce TRN	08PB40L4602



## 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.

## Features

-  Flow Limiter
-  Eco
-  Temperature Limiter

## Technical Specifications

General	C/D	C/D TRN
Nut torque pitch M1.5	10-12 Nm	10-12 Nm
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°	>12°
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

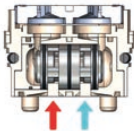
  

Flow rate (free flow)	C/D & C/D TRN
at 0.5 bar	6.5 l/min
at 1 bar	9.1 l/min
at 3 bar	15.8 l/min
at 5 bar	20.3 l/min

# Advantages

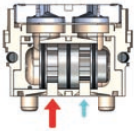
## Compensates pressure variations

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.



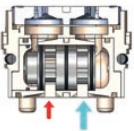
### Balanced pressure

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.

## Compatibility

PBs are compatible with standard versions.

## Security

TRN version has a safety anti-scalding 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.



45° TURN



21° TURN

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.

# Recomended Applications



Washbasins faucet



Kitchen faucet

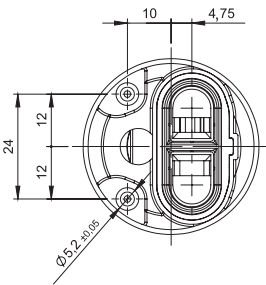


Bath Shower

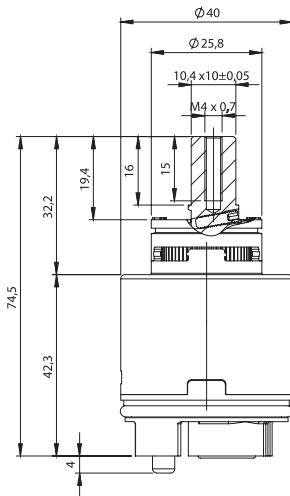
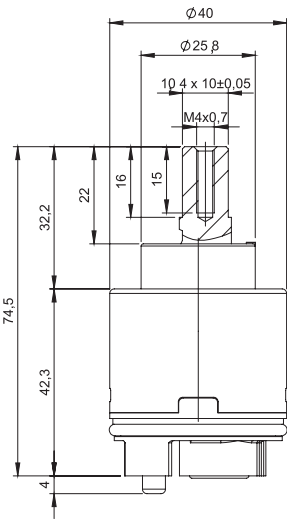
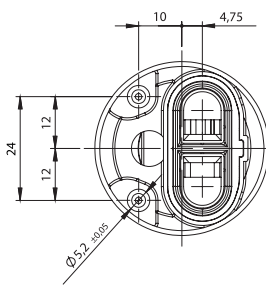
# Dimensions

Find machining requirements on page 122 -125

08PB40L0001



08PB40L4602



# Certifications

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



# Upper Sealing

G-40



G-40 C/D  
08G40LBE00



G-40 C/D DUE  
08G40LBE30

## 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.

## Features



Eco



Due

## Technical Specifications

General	C/D & C/D DUE
Nut torque pitch 1.5 mm	10-12 Nm
Opening angle	23°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>25 bar
Life cycle - EN 817 ASME 112.18.1 M	70,000 cycles 500,000 cycles
Sensitivity (r=45mm)	>9°
Max. hot water	90°C

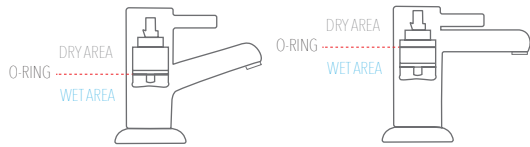
Operation Torque	C/D & C/D DUE
Open-close	0.30-0.40 Nm
Turn left-right	0.35-0.45 Nm

Flow rate (free flow)	C/D & C/D DUE
at 0.5 bar	10.8 l/min
at 1 bar	15.1 l/min
at 3 bar	25.9 l/min
at 5 bar	33.5 l/min

# 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.

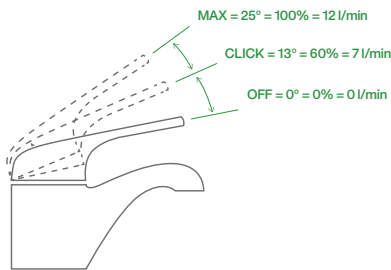


## Compatibility

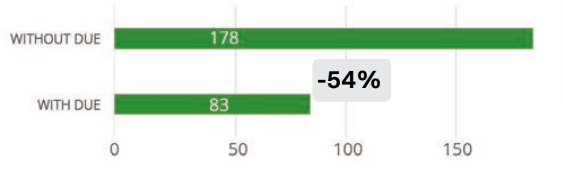
Lower sealing compatible with standard 40mm available.

## 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.



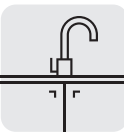
Daily average water consumption per person faucets & showers in liters.



# Recomended Applications



Washbasins faucet



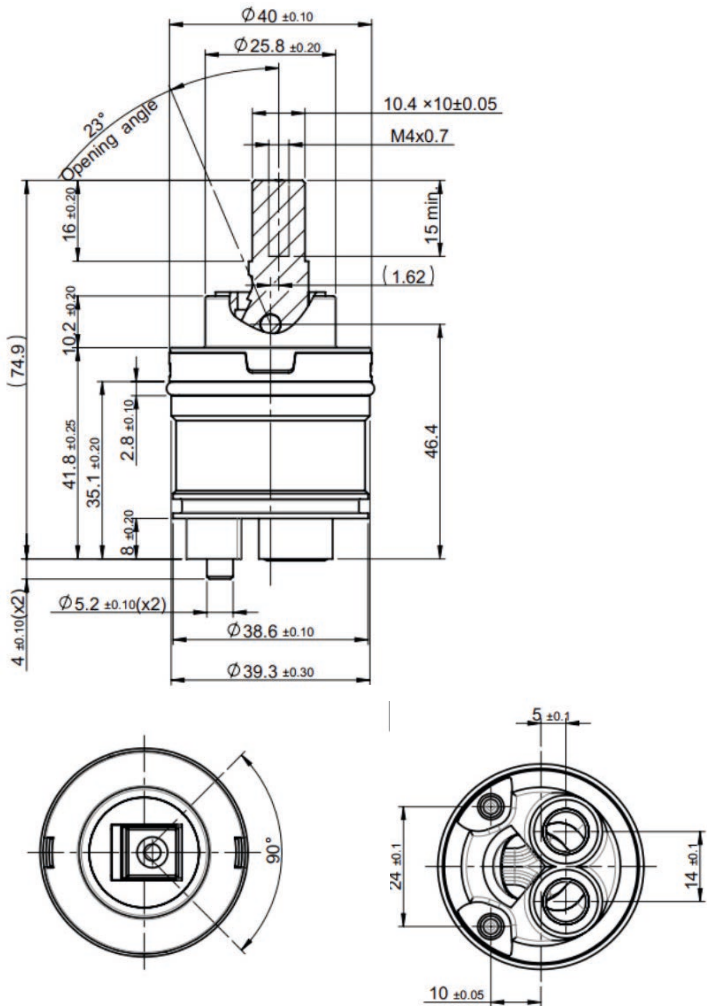
Kitchen faucet



Bath Shower

## Dimensions

Find machining requirements on page 122 -125



## Certifications



Compact

EX-40 | EX-40 DUE



EX-40  
08EX40S0001



EX-40 DUE  
08EX40S3001

Description

Compact 40 mm cartridge allows the manufacturer for short faucets.

Features



Eco



Due

Technical Specifications

General	EX-40 & EX-40 DUE
Nut torque pitch 1.5 mm	10-12 Nm
Opening angle	25°
Rotation angle	90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity (r=45mm)	14-16°
Max. hot water	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
at 1 bar	15.1 l/min
at 3 bar	26 l/min
at 5 bar	33.6 l/min

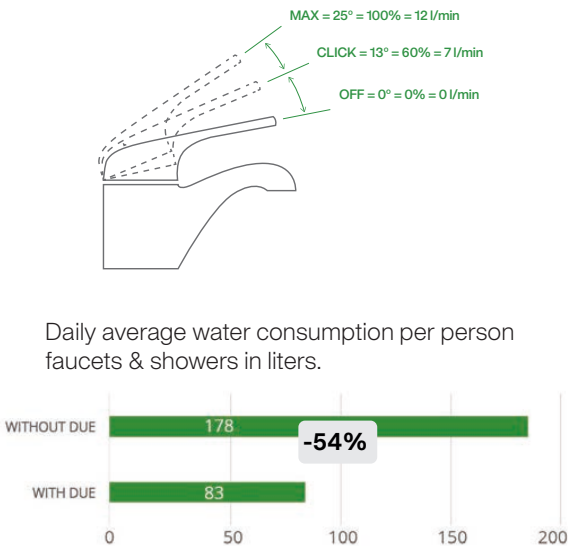
# Advantages

## Minimalism with high performance

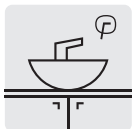
Allows the manufacturer to work with different faucet  
Compact cartridges allow the manufacturer to create  
minimalistic faucets without giving up the high-performance  
features of the cartridges

## 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.



# Recomended Applications



Concealed Bathroom



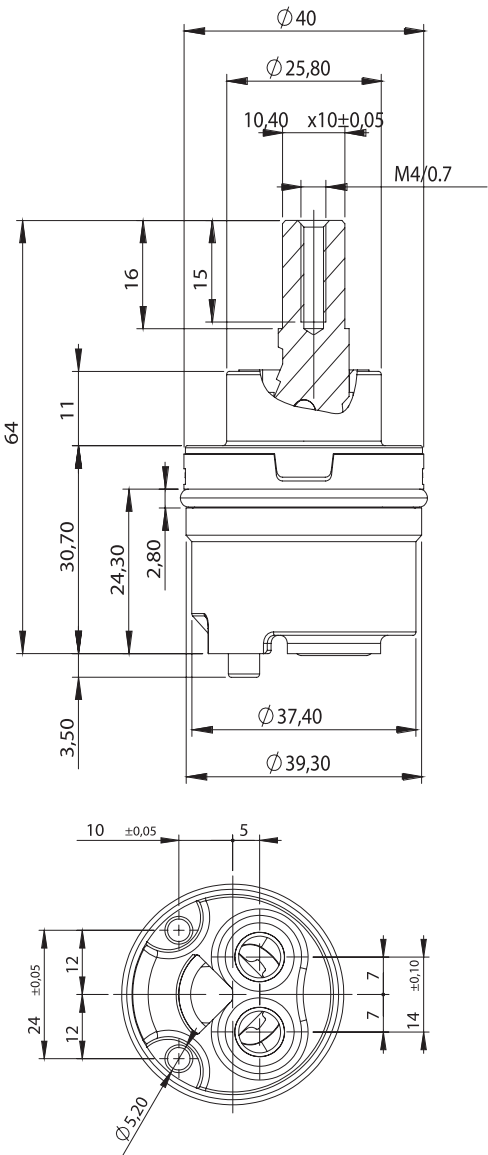
Concealed Kitchen



Concealed bath-showers

# Dimensions

Find machining requirements on page 122 -125

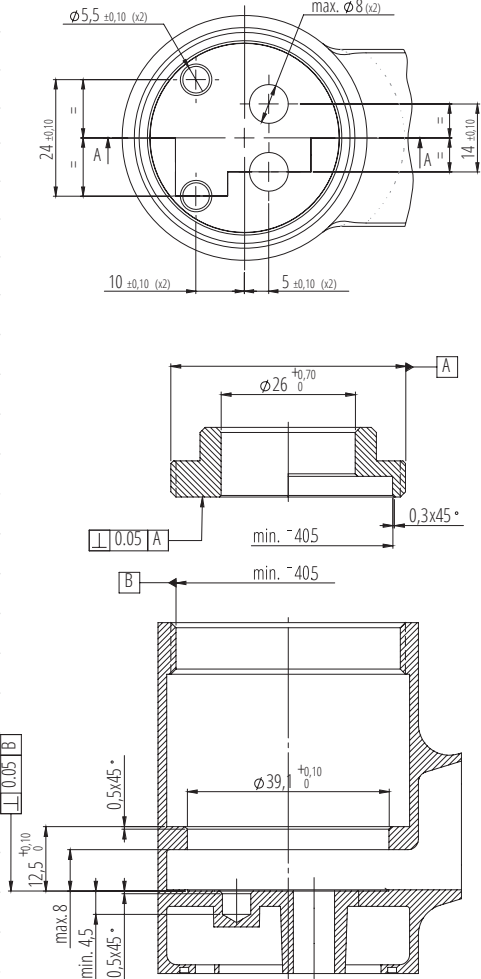


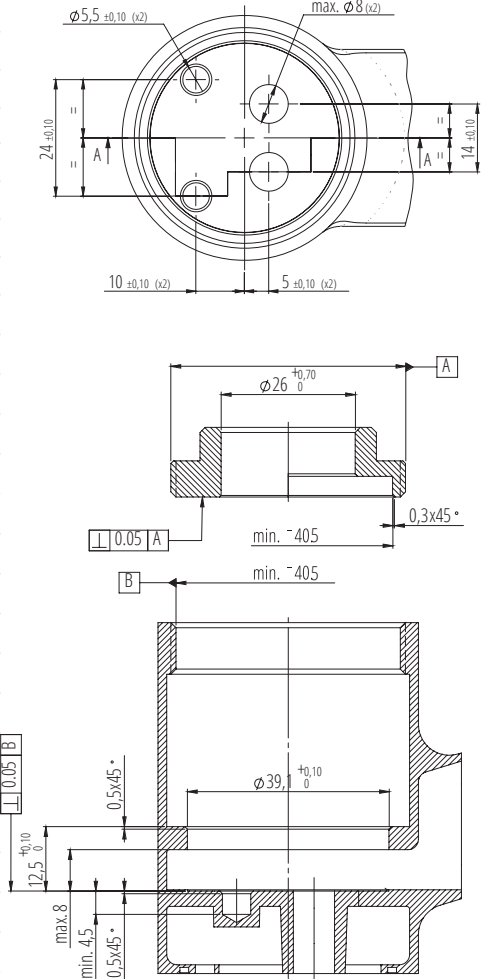
# Certifications



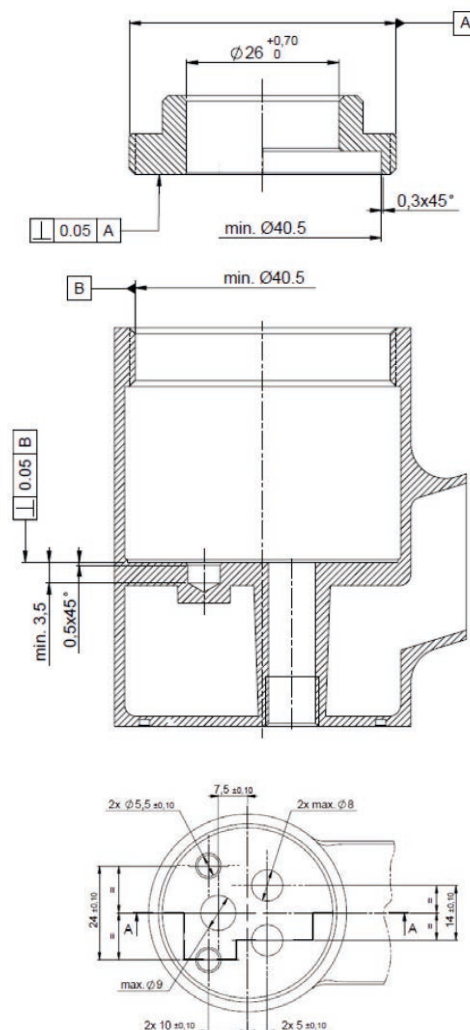
# Mechanical Requirements

40mm

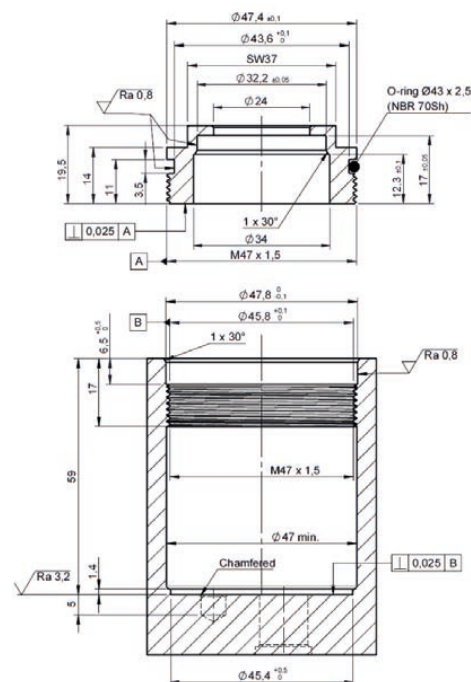
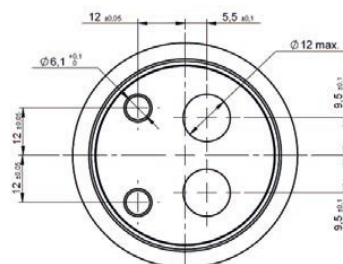
Diameter	Cartridge	Reference	Pg.	Machining tip
40 mm	SN-40 C/D THEDRA	08SN40L0001	98 - 99	
	SN-40 C/D THEDRA TR	08SN40L0501	98 - 99	
	SN-40 C/D THEDRA TRN	08SN40L4501	98 - 99	
	SN-40 C/D THEDRA DUE	08SN40L3001	98 - 99	
	SN-40 C/D THEDRA DUE TR	08SN40L35001	98 - 99	
	SN-40 C/D THEDRA COLD	08SN40L1501	100 - 101	
	SN-40 C/D THEDRA COLD TR	08SN40L251	100 - 101	
	SN-40 C/D THEDRA COLD TRN	08SN40L4001	100 - 101	
	SN-40 C/D THEDRA COLD DUE TR	08SN40L5001	100 - 101	
	SN-40 C/D THEDRA COLD DUE TRN	08SN40L5501	100 - 101	
	E-40 C/D	08EN40LAZ00	106	
	EN-40 C/D C1	08EN40L1002	107	
	EN-40 C/D C2	08EN40L3005	107	
	EC-40 C/D COLD DUE	08EC40L3003	108 - 109	
	EC-40 C/D COLD MIRROR DUE	08EC40L2001	108 - 109	
	SN-40 C/D	08SN40LAZ00	104	
	TRN-40 C/D	08RN40LVE00	98 - 99	
	DN-40 C/D BG BASIC	08DN40LBG01	113	
	SN-40 C/D ECOFLOW	08SN40L0003	102 - 103	
	GC-40 C/D THEDRA	08GC40L0001	104 - 105	
	GC-40 C/D THEDRA TR	08GC40L0501	104 - 105	
	GC-40 C/D THEDRA TRN	08GC40L4501	104 - 105	
	GI-40 C/D L10 TR	08GI40LBE64	114 - 115	
	GI-40 C/D Z20	08GI40LBE00	114 - 115	
	GI-40 C/D L10	08GI40LBE10	114 - 115	
	PB-40 C/D	08PB40L0001	116 - 177	
	PB-40 C/D TRN	08PB40L4602	116 - 117	



Diameter	Cartridge	Reference	Pg. Machining tip
40mm	SN-40 S/D THEDRA	08SN40S0001	98 - 99
	SN-40 S/D THEDRA TR	08SN40S0501	98 - 99
	SN-40 S/D THEDRA TRN	08SN40S4501	98 - 99
	SN-40 S/D THEDRA DUE	08SN40S3001	98 - 99
	SN-40 S/D THEDRA DUE TR	08SN40S5001	98 - 99
	SN-40 S/D THEDRA NIEDERDRUCK	08SN40S0007	98 - 99
	SN-40 S/D THEDRA COLD	08SN40S1501	100 - 101
	SN-40 S/D THEDRA COLD TR	08SN40S2501	100 - 101
	SN-40 S/D THEDRA COLD TRN	08SN40S4001	100 - 101
	SN-40 S/D THEDRA COLD DUE TR	08SN40S5001	100 - 101
	SN-40 S/D THEDRA COLD DUE TRN	08SN40S5501	100 - 101
	EN-40 S/D	08EN40FAZ00	107
	E-40 S/D DUE	08E40FAZ30	106
	EN-40 C/D C1	08EN40S1002	107
	EN-40 C/D C2	08EN40S3005	107
	EC-40 S/D COLD DUE	08EC40S3003	108 - 109
	EC-40 S/D MIRROR DUE	08EC40S2001	108 - 109
	SN-40 S/D	08SN40SAZ00	104
	TRN-40 S/D	08RN40FVE00	98 - 99
	DN-40 S/D BG BASIC	08DN40FBG01	113
	SN-40 S/D ECOFLOW	08SN40S0004	102 - 103
	GC-40 S/D THEDRA	08GC40S0001	104 - 105
	GC-40 S/D THEDRA TR	08GC40S0501	104 - 105
	GC-40 S/D THEDRA TRN	08GC40S4501	104 - 105
	GI-40 S/D L10 TR	08GI40FBE64	114 - 115
	GI-40 S/D Z20	08GI40FBE00	114 - 115
	GI-40 S/D L10	08GI40FBE10	114 - 115

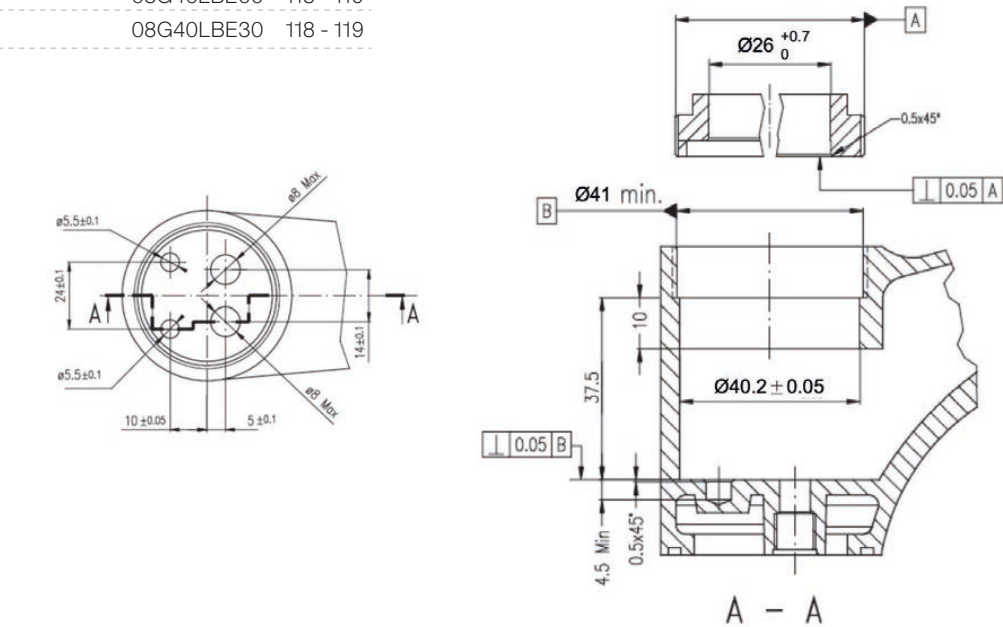


DIAMETER	CARTRIDGE	REFERENCE	PG. MACHINING TIP
45 mm	GC-45 S/D	08GC45FBE00	-

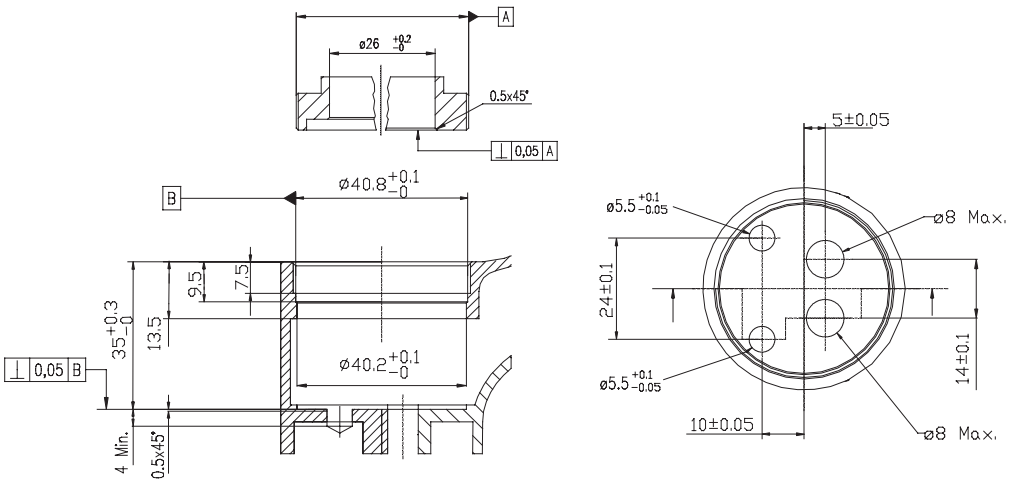


Ceramic mixing cartridges for single lever faucets

Diameter	Cartridge	Reference	Pg.	Machining tip
40 mm	G-40 C/D	08G40LBE00	118 - 119	
	G-40 C/D DUE	08G40LBE30	118 - 119	



Diameter	Cartridge	Reference	Pg.	Machining tip
40 mm	EX-40	08EX40S0001	120 - 121	
	EX-40 DUE	08EX40S3001	120 - 121	







## Cartridges for single lever faucets



The faucet's heart

# Thermostatics

Sedal's Thermostatic cartridges provide fast response & high reliability, made with high quality material for each part of the pieces, from the sensor the the plastic body part.

The sensor is an European element of high sensitivity, which provide safety and a scaling-free experience to the user.

With three sizes and with tailored made waterway core bodies, you can have a full thermostatic set with just a couple of choises.

*Thermostatic TM006 for High Pressure*



## Thermostatic Cartridges

13 products  
4 Categories

Thermostatic

TM001



	Code	Page
TM001	07TM00100	132 - 133
TM001 HP	07TM0102	134 - 135
TM001 LP	07TM0131	136 - 137
TM001 Basic	07TM0119	138 - 139
TM001 K	07TM0112	140 - 141
BRASS	07TM0148	142 - 143

TM002

	Code	Page
TM002	07TM0203	144 - 145
	07TM0204	144 - 145
	07TM0205	144 - 145

TM006



	Code	Page
TM006	07TM00614	146 - 147
TM006 K	07TM0608	148 - 149
TM006 Basic QR	07TM0613	150 - 151
TM001 Basic EN	07TM0607	150 - 151

Cores

Waterways

	Code	Page
5TM001	18TM01001	152 - 153
TM006	18TM06002	154 - 151

TM001

Standard



TM001  
07TM00100

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.

Features



Eco



Thermostatic

Technical Specifications

General	TM001 / TM001 4MS
Standards *	EN-1111 QB/T5418
Burst pressure	>25 bar
2x Life cycle - EN-1111	100,000 cycles
Max. hot water	90°
Noise level	18.8 - 21.1 dB
Turn left-right	0.10 - 0.35 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 / TM001 4MS
at 0.5 bar	10 l/min
at 1 bar	13 l/min
at 3 bar	23 l/min
at 5 bar	29 l/min

# 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 shutdowns the waterflow.

**Burst pressure**

Withstands a burst pressure up to 25bar.

**High stability materials**

High stability thermoplastic materials help reducing limescale.

**Different certified versions**

We have adapted our TM001 materials to create new versions according to 4MS, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

**Double life cycle**

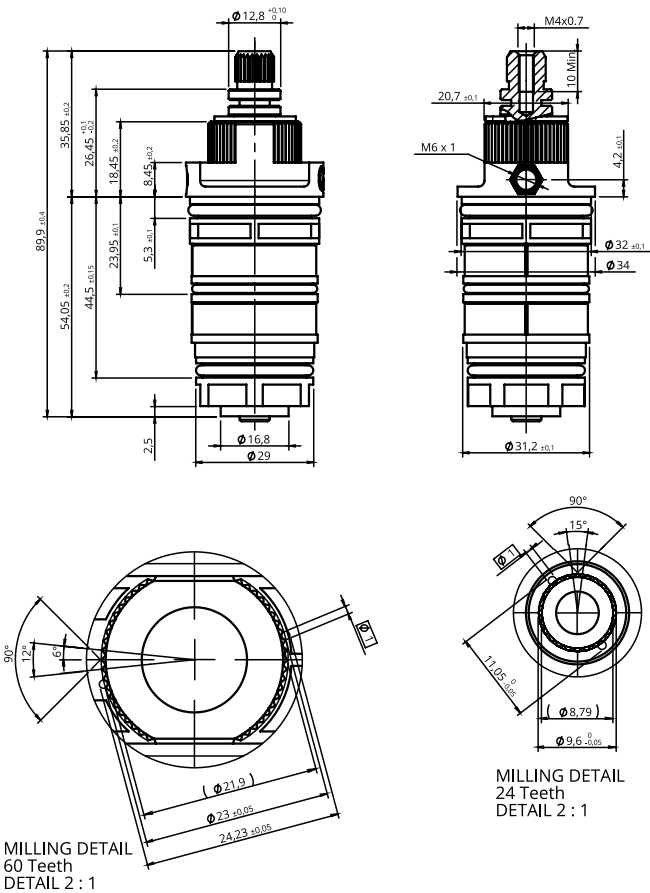
TM001 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

# Recomended Applications

**Bath Shower**

# Dimensions

Find machining requirements on page 152 - 153



# Certifications

ACS

KTW\*

WRAS

Ready for

TM001

High Pressure






TM001 HP  
07TM0102

Description

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

Features

-  Eco
-  Lead Free
-  Thermostatic

Technical Specifications

General		TM001 HP / 4MS		Flow rate (free flow)		TM001 HP/ 4MS	
Standards *		EN-1111		at 0.5 bar			10 l/min
		ASSE#1016		at 1 bar			13 l/min
				at 3 bar			23 l/min
				at 5 bar			29 l/min
Burst pressure		>35 bar					
2x Life cycle - EN-1111		100,000 cycles					
ASSE#1016		80,000 cycles					
Max. hot water		90°					
Noise level		18.8 - 21.1 dB					
Turn left-right		0.10 - 0.35 Nm					
Sensitivity (36-40°C)							
(handle 20mm)		14 mm					
Cold water supply failure test		Perfect cutting					

# 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 shutdowns the waterflow.

**Burst pressure**

Withstands a burst pressure > 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, 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 an special TM001 cartridge for high-pressure applications.

**Double life cycle**

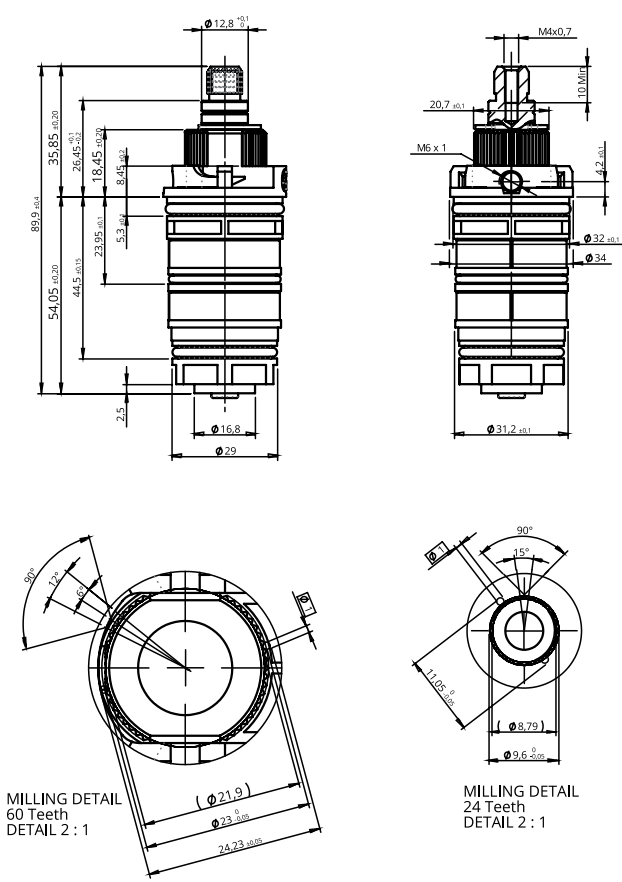
TM001 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

# Recomended Applications

**Bath Shower**

# Dimensions

Find machining requirements on page 152 - 153



# Certifications

ACS

KTW\*

WRAS

Ready for



TM001

Low Pressure



TM001 LP  
07TM0131

Description

Thermostatic cartridges specially designed for 0,2 to 1 bar low pressure applications. This cartridge is complying with EN-1287 and with a life cycle of 50,000 cycles.

Features



Eco



Lead Free



Thermostatic

Technical Specifications

General	TM001 / TM001 4MS
Standards *	EN-1287
Burst pressure	>25 bar/min
Life cycle - EN-1287	50,000 cycles
Max. hot water	90°
Noise level	18.8 - 21.1 dB
Turn left-right	Max. 0.35 Nm
Sensitivity (36-40°C) (handle 20mm)	20 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 / TM001 4MS
at 0.6 bar	16 l/min
at 3 bar	34 l/min

## 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 shutdown 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.

## Different certified versions

We have adapted our TM001 materials to create new versions according to 4MS, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

## Low pressure versions

We have created an special TM001 LP cartridge for low-pressure applications.

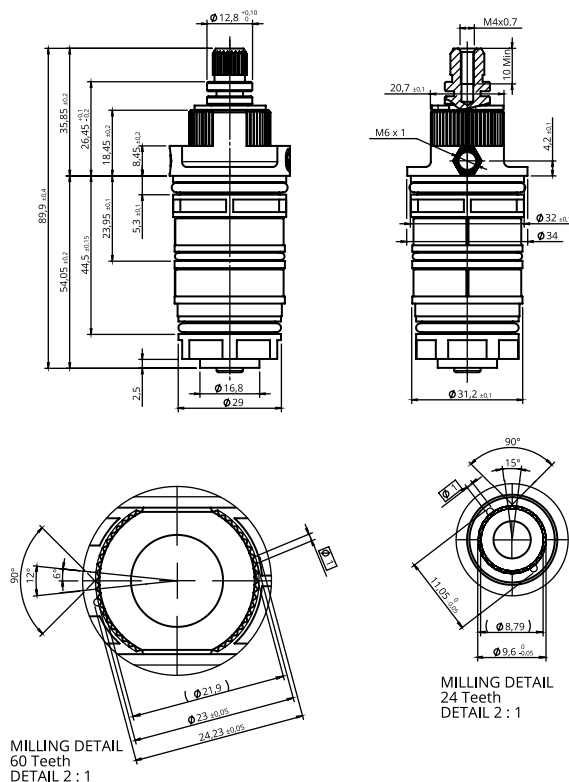
## Recommended Applications



## Bath Shower

# Dimensions

Find machining requirements on page 152 - 153



## Certifications



Ready for

TM001

Basic



TM001 BASIC  
07TM0119

Description

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

Features



Eco



Lead Free



Thermostatic

Technical Specifications

General	TM001 BASIC
Standards *	EN-1111 QB/T5418
Burst pressure	>25 bar / l/min
Life cycle - EN-1111	50,000 cycles
Max. hot water	90°
Noise level	18.8 - 21.1 dB
Turn left-right	0.10 - 0.35 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 BASIC
at 0.5 bar	10 l/min
at 1 bar	13 l/min
at 3 bar	22 l/min
at 5 bar	29 l/min

## 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 shutdowns the waterflow.

## Burst pressure

**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.

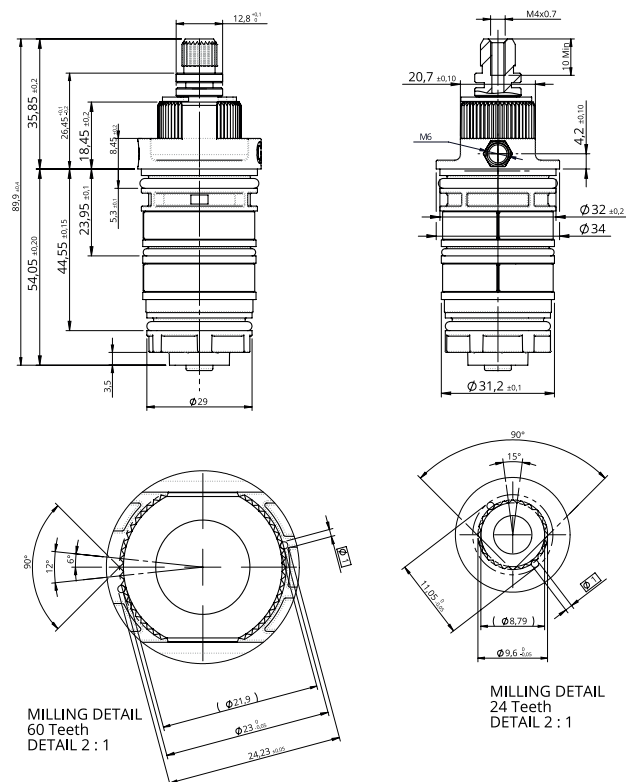
## Recommended Applications



## Bath Shower

# Dimensions

Find machining requirements on page 152 - 153



## Certifications

ACS

KTW\*

WRAS

Ready for KTW

TM001

Click



TM001 C  
07TM0112

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



Eco



Lead Free



Thermostatic

Technical Specifications

General	TM001 C
Standards *	EN-1111 ASSE#1016 QB/T5418-2019
Burst pressure	>35 bar
2x Life cycle - EN-1111 ASSE#1016	100,000 cycles 100,000 cycles
Max. hot water	90°
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	10 l/min
at 0.5 bar	14,5 l/min
at 3 bar	26 l/min
at 5 bar	33 l/min

# 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 ananty-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.

Concealed version

TM001 C reduced lenght makes it easier to fit in concealed applications and the manufacturer has wider design 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.

Double life cycle

TM001 C has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

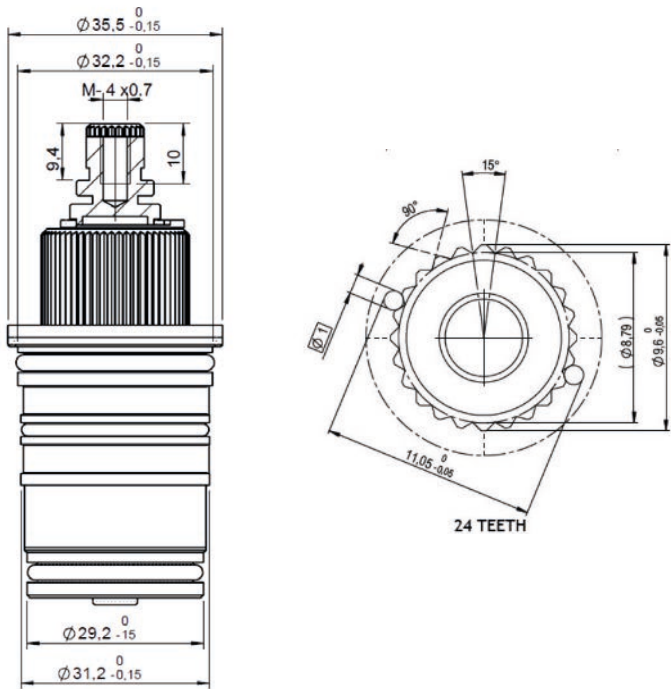
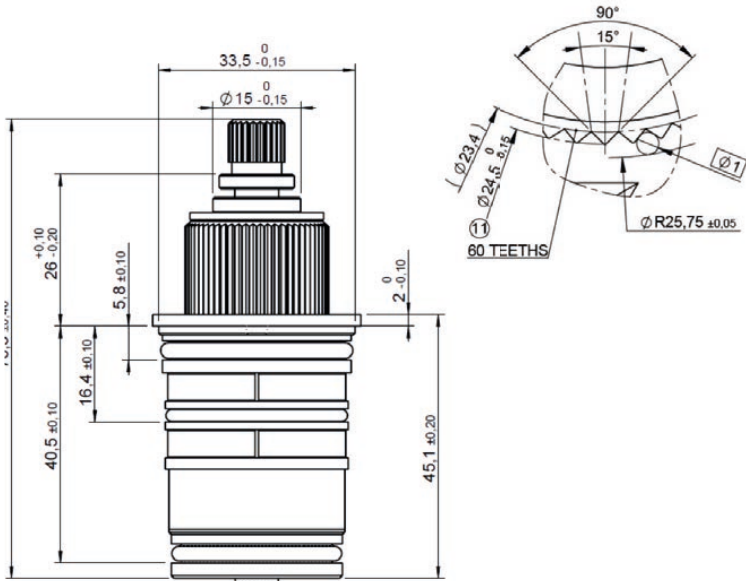
# Recomended Applications



Bath Shower

# Dimensions

Find machining requirements on page 152 - 153



# Certifications

ACS

KTW\*

WRAS

Ready for KTW

TM001

Brass



TM001 BRASS  
07TM0148

Description

Sedal’s legendary thermostatic performance packs in a brass body for high precision adjustment and extreme dimensional stability. Available in 2 different sensors, the Brass thermostatic cartridges from Sedal are designed to fulfill most international standards to make it possible to apply in global products.

Features



Eco



Thermostatic

Technical Specifications

General	TM001 BRASS
Standards *	EN-1111 QB/T5418-2019
Burst pressure	>25 bar
2x Life cycle - EN-1111	100,000 cycles
Max. hot water	90°
Noise level	18.8 - 21.1 dB
Turn left-right	0.10 - 0.35 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 BRASS
at 0.1 bar	10 l/min
at 0.5 bar	14.5 l/min
at 3 bar	23 l/min
at 5 bar	29 l/min





TM002

Standard

Versions

	Ref
ASSE	07TM0203
EN	07TM0204
QB	07TM0205



TM002 EN

Description

The TM002 standard Thermostatic features a high-precision thermostatic element and a sophisticated control system, ensuring accurate temperature regulation and enhanced user safety.

It is fully compliant with key international standards, including NF EN 1111 (NF077 certification), ASSE 1016, and QB-T5418, making it suitable for demanding applications where reliability and performance are essential.

Features

-  Thermostatic
-  Lead Free

Technical Specifications

General	
Standards	ASSE-1016 (07TM0203) EN-1111 (07TM0204) QB/T 5418 (07TM0205)
Burst pressure	>35 bar
Life cycle (x2) EN 1111	100,000 cycles
ASSE 1016	100,000 cycles
QB/T 5418	30,000 cycles
Max. hot water	90°
Noise level	Class I

Flow rate (free flow)	
at 0.5 bar	13,8 l/min
at 1 bar	20,1 l/min
at 3 bar	37 l/min
at 5 bar	48,5 l/min
Smooth feeling movement	
Turn left-right	Max 0,5 Nm
Sensitivity (36-40°C) (handle 20mm)	19 mm
Cold water supply failure test	Perfect cutting

# Advantages

## Temperature control

TM002 has 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 shutdown the waterflow.

## Burst pressure

Withstands a burst pressure of more than 35bar. it passes the hammer test according to EN 1111 NF077

## High stability materials

High stability thermoplastic materials help reducing limescale.

## Lead free

Lead free and chloramine resistant options.

## Different certified versions

All materials compliant with NSF, ACS, WRAS or KTW sanitary regulation.

## Double life cycle

TM002 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

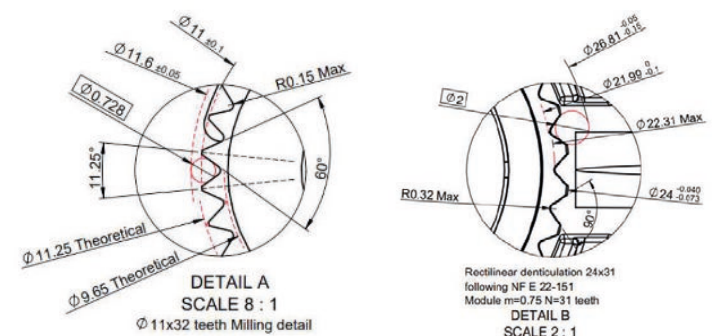
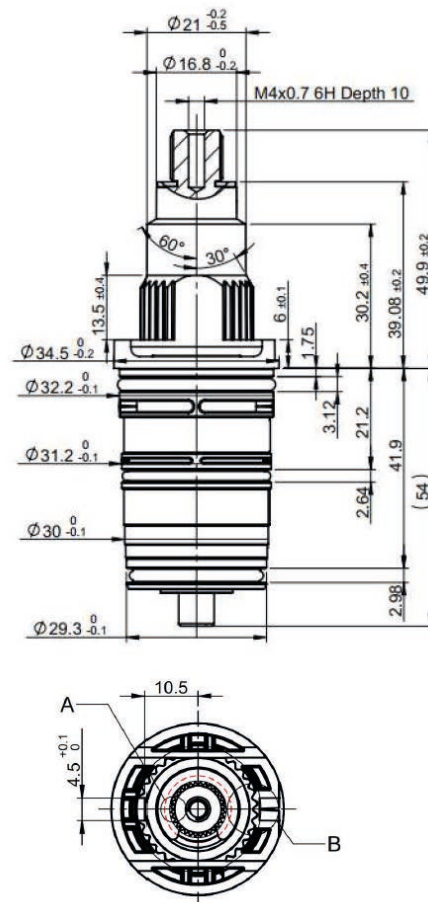
# Recomended Applications



Bath Shower

# Dimensions

Find machining requirements on page 152 - 153



# Certifications

ACS

NSF

KTW

WRAS

TM006

Standard



TM006  
07TM0614 (STD) QB

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.

Features



Eco



Thermostatic



Lead Free

Technical Specifications

General	TM006/ NSF/ 4MS
Standards*	QB/T5418-2019
Burst pressure	>35 bar
QB/T5418	30,000 cycles
Max. hot water	90°
Noise level	17.8 - 21.1 dB
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/ NSF/ 4MS
at 0.5 bar	7.8 l/min
at 1 bar	10.2 l/min
at 3 bar	21 l/min
at 5 bar	26.4 l/min

# 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. 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 shutdown 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.

**Different certified versions**

We have adapted our TM006 materials to create new versions according to 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**

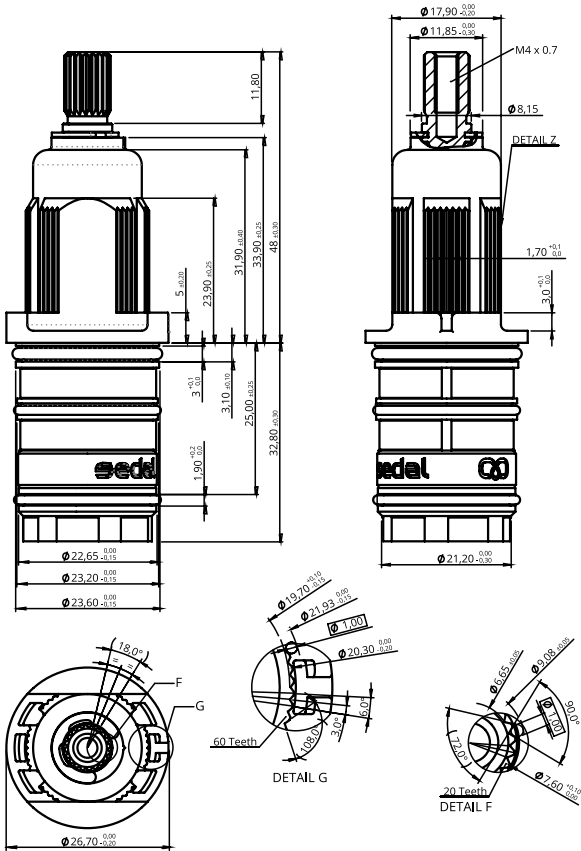
TM006 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

# Recomended Applications

**Bath Shower**

# Dimensions

Find machining requirements on page 152 - 153



# Certifications

ACS

NSF

KTW

WRAS

TM006




Click



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 standard.

Features

-  Eco
-  Thermostatic
-  Lead Free

Technical Specifications

General		TM006 K	Flow rate (free flow)		TM006 K
Standards*		EN-1111	at 0.5 bar		7,8 l/min
		ASSE#1016	at 1 bar		10.2 l/min
		QB/T5418-2019	at 3 bar		21 l/min
Burst pressure		>35 bar	at 5 bar		26.4 l/min
2x Life cycle - EN-1111		100,000 cycles			
ASSE#1016		100,000 cycles			
Max. hot water		90°			
Noise level		17.8 - 21.1 dB			
Turn left-right		0.03 - 0.18 Nm			
Sensitivity (36-40°C) (handle 20mm)		27-31 mm			
Cold water supply failure test		Perfect cutting			

# 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. 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.

**Slim version**

TM006 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**

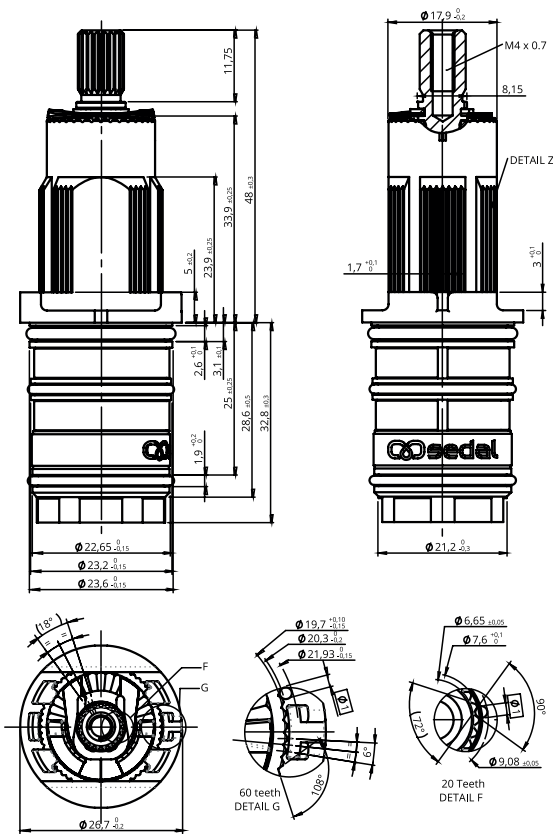
TM006 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

# Recomended Applications

**Bath Shower**

# Dimensions

Find machining requirements on page 152 - 153



# Certifications

ACS

NSF

KTW

WRAS

TM006

Basic

Versions

TM006 BASIC EN

07TM0607



TM006 BASIC QB  
07TM0613

Description

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

Features



Eco



Thermostatic



Lead Free

Technical Specifications

General	TM006 BASIC
Standards	EN-1111 QB/T5418-2019
Burst pressure	>25 bar
Life cycle - EN-1111	50,000 cycles
Max. hot water	90°
Noise level	17.8 - 21.1 dB
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 / 4MS
at 0.5 bar	7.8 l/min
at 1 bar	10.2 l/min
at 3 bar	21 l/min
at 5 bar	26.4 l/min



# 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 anty-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**

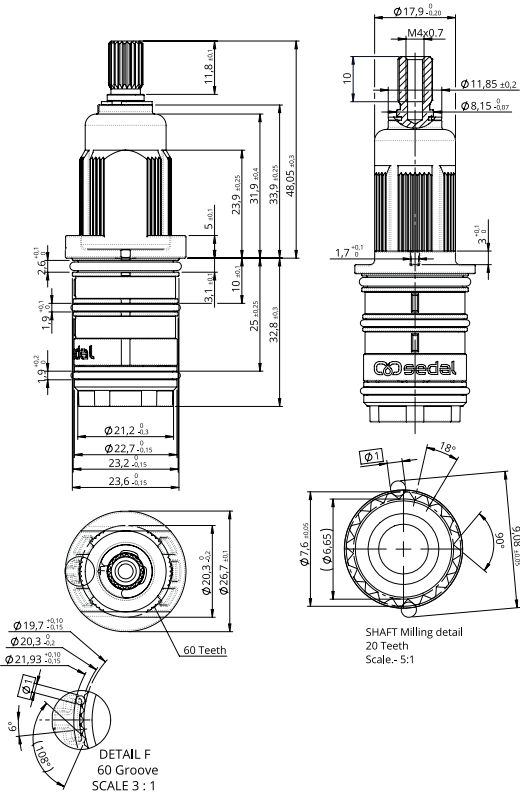
TM006 reduced diameter makes it easier to fit in slim applications and the manufacturer has wider design options.

# Recomended Applications

**Bath Shower**

# Dimensions

Find machining requirements on page 152 - 153

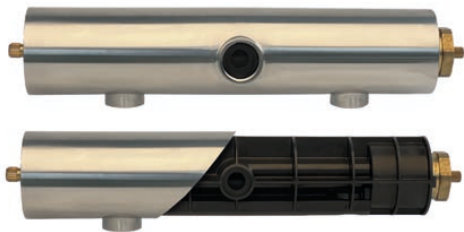


# Certifications

ACS

# Thermostatic Shower Core

TM001 BASIC + DIVERTER 2 OUTLETS OPEN/CLOSE



TM001 CORE  
18TM01001

## Description

The TM001 CORE inner body is a multi-function component that makes it extremely simple to expand the range of thermostatic showers. Featuring high standard thermoplastics, the CORE is the actual faucet, making it only necessary to develop a wrapping body around it.

The TM001 CORE manages the waterways, holds the thermostatic cartridge and a secondary valve, it is the main structural component and, additionally, it can be delivered fully tested before being delivered to the manufacturer.

## Features



Eco



Thermostatic



Cool touch



Lead Free

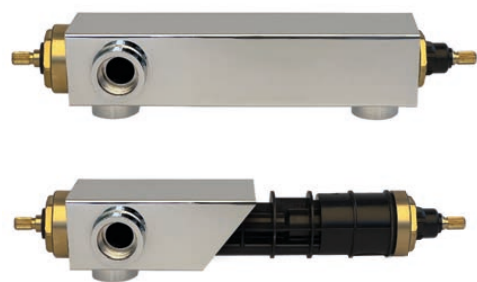
## Technical Specifications

General		TM001 CORE
Standards	QB5418-2019	
Burst pressure	>25 bar / 1 min	
Life cycle		
EN1111 Temp control	50.000 cycles	
EN1111 Flow control	200.000 cycles	
Max. hot water	90°	
Outlet temperature ≤49°C	Max turn angle from 38°C : 80°	
Turn left-right Temp control	0.10 - 0.35 Nm	
Turn left-right flow control		
Sensitivity (36-40°C) (handle R 25 mm)	17 mm	
Cold water supply failure test	Perfect cutting	
Flow rate (34-44°C) Rh A / Rh B	14,6 at 3 bar / 11,2 l/min	



# Thermostatic Shower Core

TM006 CORE + DIVERTER 2 OUTLETS OPEN/CLOSE







TM006 CORE  
18TM06002

## Description

The TM006 CORE inner body is a multi-function component that makes it extremely simple to expand the range of thermostatic showers. Featuring high standard thermoplastics, the CORE is the actual faucet, making it only necessary to develop a wrapping body around it.

The TM006 CORE manages the waterways, holds the thermostatic cartridge and a secondary valve, it is the main structural component and, additionally, it can be delivered fully tested before being delivered to the manufacturer.

## Features

-  Eco
-  Thermostatic
-  Lead Free
-  Cool touch

## Technical Specifications

General	TM006 CORE
Standards*	QB5418-2019 QB/T2806 EN1111
Burst pressure	>25 bar / 1 min
Life cycle	
EN1111 Temp control	50.000 cycles
EN1111 Flow control	200.000 cycles
Max. hot water	90°
Max. Turn angle for Cold water	Max. 170° angle
Max. Turn angle for Hot water <49°C	Max. 80° angle
Diverter rotation angle for flow control	180° angle

Smooth feeling movement	TM006 CORE
Turn left-right Temp control	Max 0.35 Nm
Turn left-right flow control	0,2 – 0,35 N.m
Sensitivity (36-40°C) (handle R 25 mm)	24 mm
Cold water supply failure test	Perfect cutting
Flow rate (34-44°C) Rh A / Rh B	10,7 l/min / 13,6 at 3 bar

## Advantages

### Temperature control

TM00 CORE 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

All key components are made in brass to maximize dimensional stability and provide a long life of comfort and convenience.

### Lead free

Lead free and chloramine resistant options.

### All in one

The TM006 CORE is an all-in-one solution that makes it easier than ever to build a new on-wall thermostatic showering system. The system is a finished assembly that includes Sedal's TM006 reputed thermostatic valve, a flow-control/diverting cartridge and the nuts. All installed and tested from factory.

### Cool touch

Touching the thermostatic valve and getting scalded is a thing of the past. This solution is the easiest configuration any engineer can use to build a cool-touch on-wall thermostatic faucet, avoiding intricate and inefficient brass casting solutions. The CORE keeps the surface of the faucet away from the hot water by design.that includes Sedal's TM006 reputed thermostatic valve, a flow-control/diverting cartridge and the nuts. All installed and tested from factory.

### Dry-Faucet technology

The TM006 CORE handles the water in within the body and valves, never allowing it to touch the body. Therefore, any material can be used to build the external sleeve. The engineering team can freely define alternative materials like zinc or leaded brass.and the nuts. All installed and tested from factory.

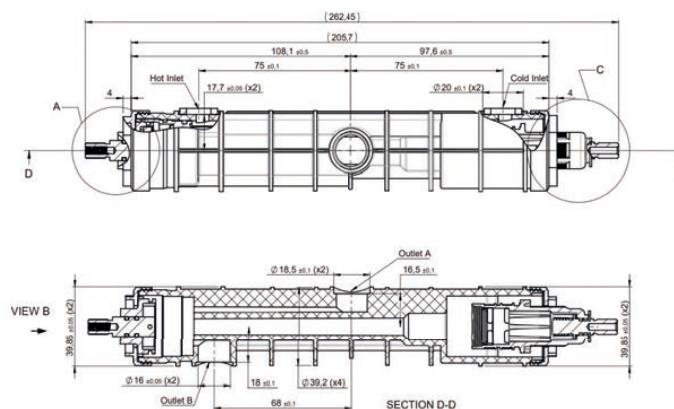
## Recomended Applications



### Bath Shower

## Dimensions

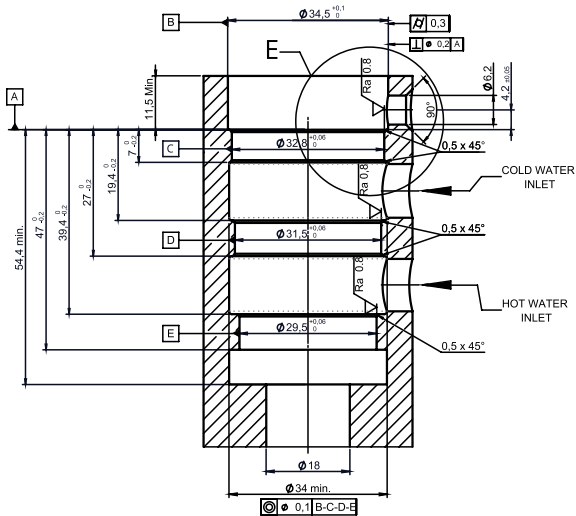
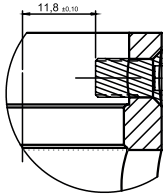
Find machining requirements on page 152 - 153



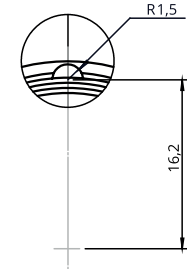
# Mechanical Requirements

## TM001

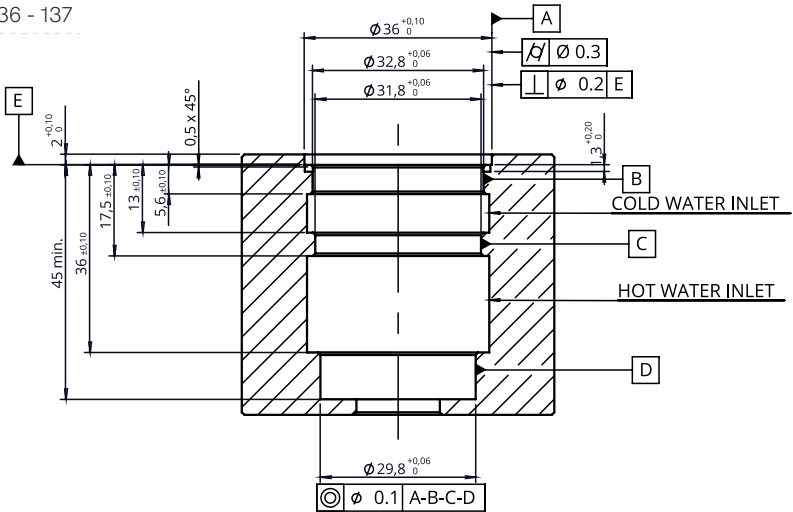
Diameter	Cartridge	Reference	Pg. Machining tip
34 mm	TM001	07TM00100	128 - 289
	TM001 HP	07TM0102	130 - 131
	TM001 LP	07TM0131	132 - 133
	TM001 BASIC	07TM0119	134 - 135



Diameter	Cartridge	Reference	PG. Machining tip
34 mm	TM001 K	07TM0112	136 - 137



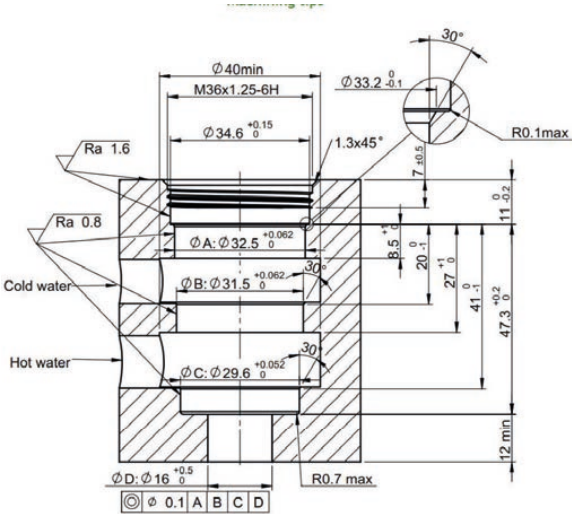
DETALLE H  
ESCALA 2 : 1



Diameter	Cartridge	Reference	PG. Machining tip
34 mm	TM001 Brass	07TM0148	138 - 139

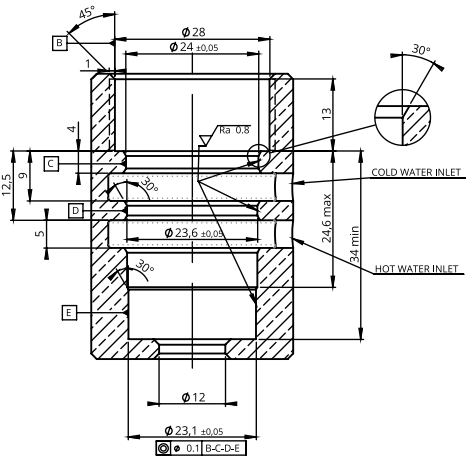
# TM002

Diameter	Cartridge	Reference	Pg. Machining tip
34 mm	TM002 ASSE	07TM0203	140 - 141
	TM002 EN	07TM0204	140 - 141
	TM002 QB	07TM0205	140 - 141



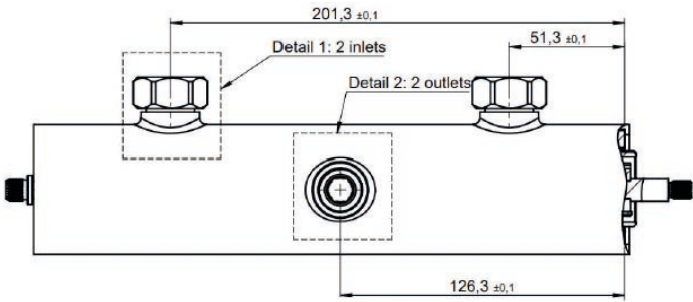
# TM006

Diameter	Cartridge	Reference	Pg. Machining tip
27 mm	TM006	07TM0614	142 - 143
	TM006K	07TM0608	144 - 145
	TM006 BASIC QR	07TM0613	146 - 147
	TM006 BASIC EN	07TM0607	146 - 147

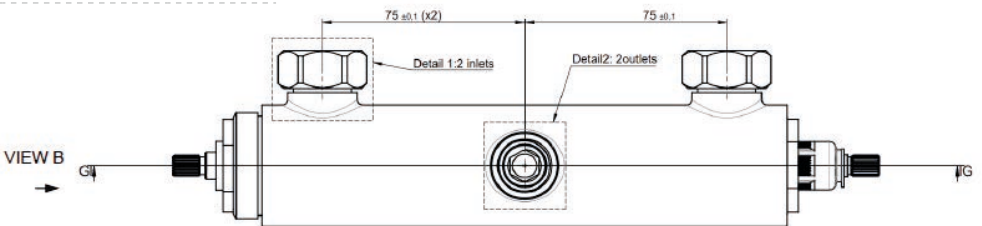


# CORE

DIAMETER	CARTRIDGE	REFERENCE	Pg. MACHINING TIP
34 mm	TM001 CORE	18TM01001	148 - 149



DIAMETER	CARTRIDGE	REFERENCE	Pg. MACHINING TIP
27 mm	TM006 CORE	18TM06002	150 - 151



# Headworks

Complete range of ceramic headworks made with plastic, brass or stainless steel bodies, suitable for all applications in which high performance valves are required, withstanding great mechanical requirements, while providing the same water flow.

We can develop any type of ceramic headworks, fully tailored to our clients design, with different finishes, sizes, lengths, maximum flows,...

*Brass Headwork*



## Ceramic Headworks

9 Products  
2 Categories



# Headworks

## Brass



	Code	Page
19MC 90° - 1/2" Left	19MC04	160 - 161
19MC 90° - 1/2" Right	19MC01	160 - 161
19MC 90° - 1/2" HF Left	19MC090L14	160 - 161
19MC 90° - 1/2" HF Right	19MC090R14	160 - 161
19MC 90° - 3/8" Left	19MC090L82	162 - 163
19MC 90° - 3/8" Right	19MC090R137	162 - 163
19MC 90° - 3/4" Left	19MC090L64	164 - 165
19MC 90° - 3/4" Right	19MC090R64	164 - 165
19MC 90° - M17 Left	19MC090L21	166 - 167
19MC 90° - M17 Right	19MC090R30	166 - 167
19MC 180° - 1/2" Left	19MC03	168
19MC 180° - 1/2" Right	19MC05	168
19 MN - 1/2"	19MN01	170
19 MN - 1/2" - LS	19MN015	170

## Stainless Steel



	Code	Page
19MC 90° Right	19MC090R157	170 - 171
19MC 90° Left	19MC090L104	170 - 171

## Plastic



	Code	Page
19MCP 90° - 1/2" Left	19MCP90R27	172 - 173
19MCP 90° - 1/2" Right	19MCP90R20	172 - 173
19MCP 180° - 1/2" Left	19MCP18R01	174
19MPC 180° - 1/2" Right	19MCP18L01	174

Brass

19MC 90°

Versions

	Left - Red	Right - Blue
19 MC 90° - 1/2	19MC04	19MC01
19 MC 90° HIGH FLOW - 1/2	19MC090L14	19MC090R14



19MC01 90°  
1/2"  
19MC04

Description

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding high mechanical requirements and providing the same water flow.

Features



Rotation angle



Taylor made

Technical Specifications

General	19MC 90° & 19MC 90° HF
Installation torque (recommended)	10-12 Nm
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life cycle - EN 200 ASME A112	200,000 cycles 500,000 cycles
Max. hot water	90°
Turn left-right	<0.1 Nm

Flow rate (free flow)	19MC 90°	19MC 90° HF
at 0.5 bar	9.6 l/min	6,1 l/min
at 1 bar	13.5 l/min	33.2 l/min
at 3 bar	23.9 l/min	56.5 l/min
at 5 bar	30.8 l/min	-

# 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 shafts lenght**  
Sedal offers a wide range of shafts length that the client can customize depending on ots 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 his specific requirements and needs.

# Recomended Applications



Bath Shower



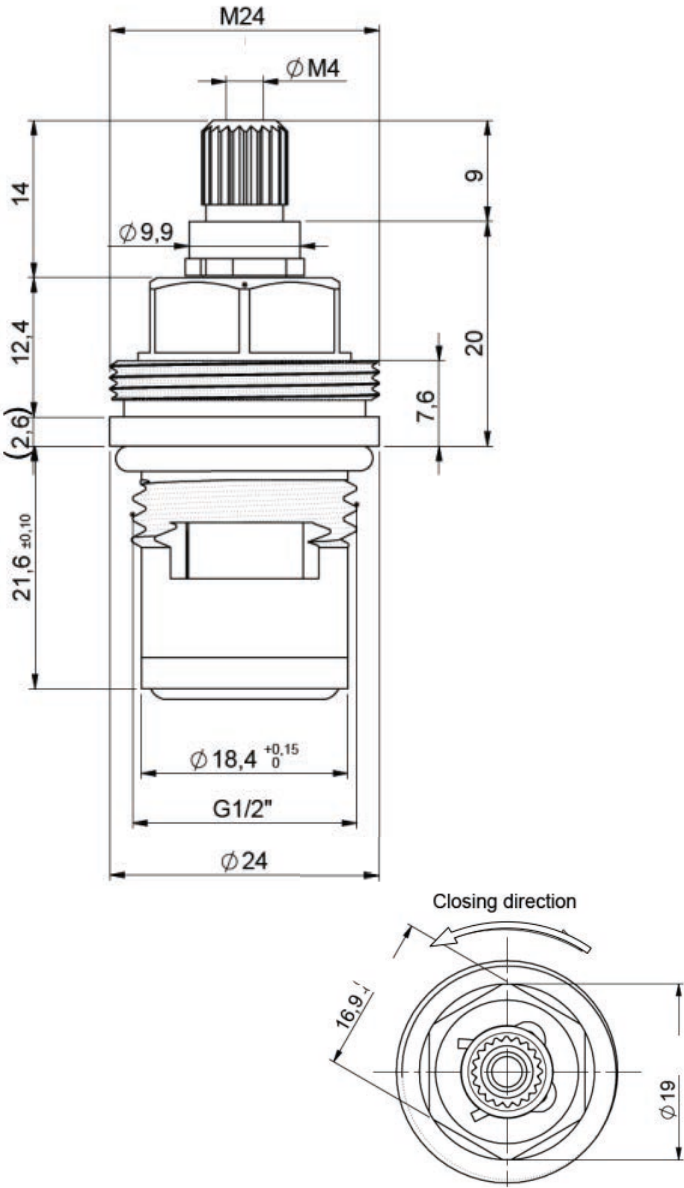
Washbasins faucet



Kitchen faucet

# Dimensions

Find machining requirements on page 171



# Certifications

- ACS
- WRAS
- KTW
- NSF

Brass

19MC 90°

Versions

	Left - Red	Right - Blue
19 MC 90° - 3/8	19MC090L82	19MC090R137



19MC01 90°  
3/8"  
19MC090R137

Description

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding high mechanical requirements and providing the same water flow.

Features



Rotation angle



Taylor made

Technical Specifications

General	19MC 90° & 19MC 90° HF
Installation torque (recommended)	10-12 Nm
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life cycle - EN 200 ASME A112	200,000 cycles 500,000 cycles
Max. hot water	90°
Turn left-right	<0.1 Nm

Flow rate (free flow)	19MC 90°	19MC 90° HF
at 0.5 bar	9.6 l/min	6,1 l/min
at 1 bar	13.5 l/min	33.2 l/min
at 3 bar	23.9 l/min	56.5 l/min
at 5 bar	30.8 l/min	-

# 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 shafts lenght**  
Sedal offers a wide range of shafts length that the client can customize depending on ots needs. It is also possible to de-sign other shaft geometries.
- OEM customization**  
Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet his specific requirements and needs.

# Recomended Applications

- 

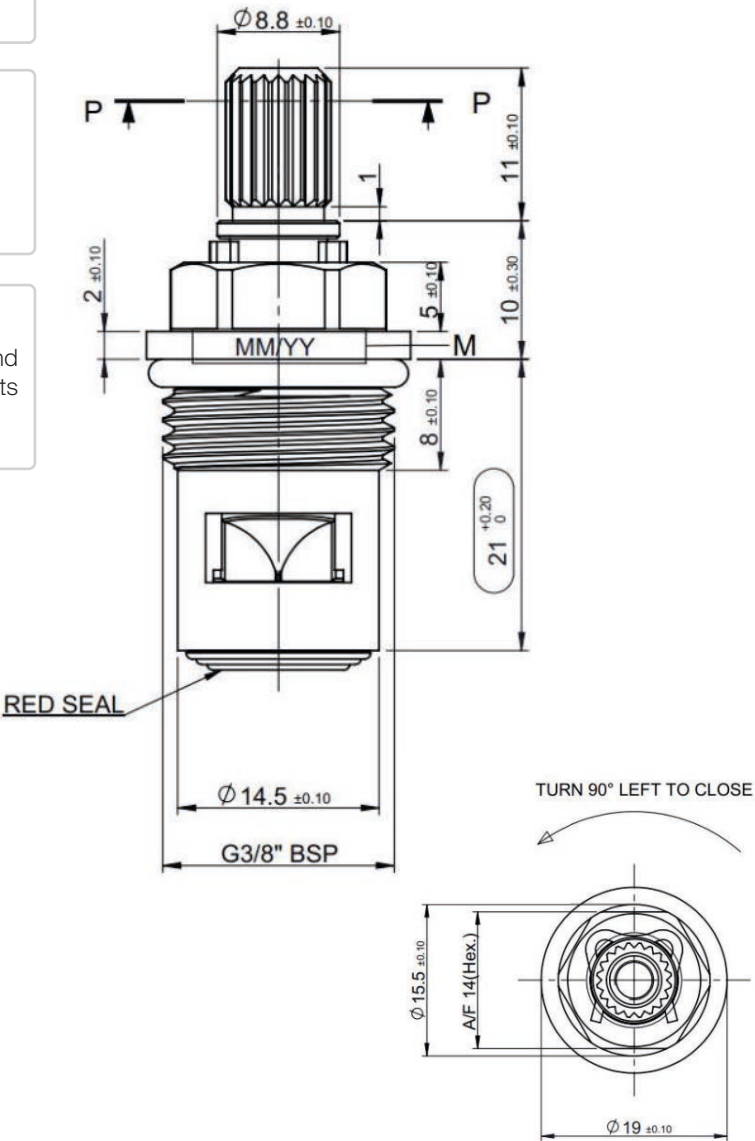
Bath Shower
- 

Washbasins faucet
- 

Kitchen faucet

# Dimensions

Find machining requirements on page 171



# Certifications

- ACS
- WRAS
- KTW
- NSF

Brass

19MC 90°

Versions

	Left - Red	Right - Blue
19 MC 90° - 3/4	19MC090L64	19MC090R64



19MC01 90°  
3/4"  
19MC090L64

Description

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding high mechanical requirements and providing the same water flow.

Features



Rotation angle



Taylor made

Technical Specifications

General	19MC 90° & 19MC 90° HF
Installation torque (recommended)	10-12 Nm
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life cycle - EN 200 ASME A112	200,000 cycles 500,000 cycles
Max. hot water	90°
Turn left-right	<0.1 Nm

Flow rate (free flow)	19MC 90°	19MC 90° HF
at 0.5 bar	9.6 l/min	6,1 l/min
at 1 bar	13.5 l/min	33.2 l/min
at 3 bar	23.9 l/min	56.5 l/min
at 5 bar	30.8 l/min	-

## 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 shafts lenght

Sedal offers a wide range of shafts length 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 his specific requirements and needs.

## Recommended Applications



## Bath Shower



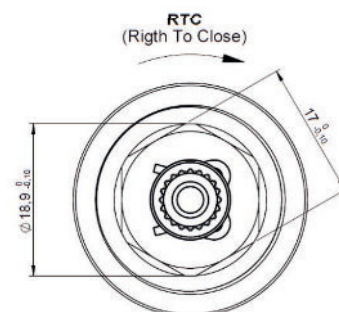
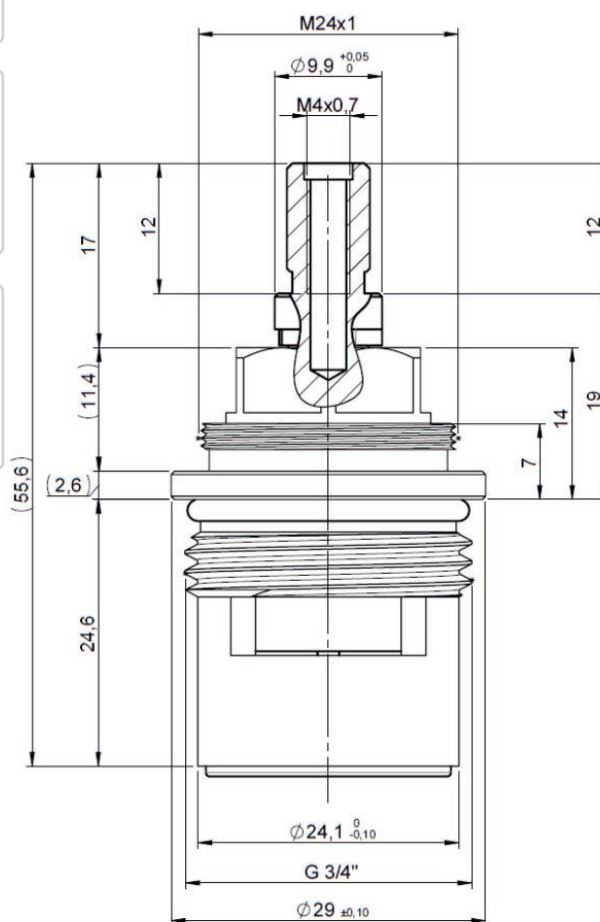
## Washbasins faucet



Kitchen faucet

## Dimensions

Find machining requirements on page 171



## Certifications

ACS

WRAS

KRW

NSF

Brass

19MC 90°

Versions

	Left - Red	Right - Blue
19 MC 90° - M17	19MC090L21	19MC090R30



19MC01 90°  
M17  
19MC090L21

Description

Complete range of ceramic headworks with brass bodies suitable for all applications in which high performance valves are required, withstanding high mechanical requirements and providing the same water flow.

Features



Rotation angle



Taylor made

Technical Specifications

General	
Installation torque (recommended)	10-12 Nm
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Burst pressure	>50 bar
Life cycle - EN 200	200,000 cycles
ASME A112	500,000 cycles
Max. hot water	90°
Turn left-right	<0.1 Nm

Flow rate (free flow)	19MC 90°	19MC 90° HF
at 0.5 bar	9.6 l/min	6,1 l/min
at 1 bar	13.5 l/min	33.2 l/min
at 3 bar	23.9 l/min	56.5 l/min
at 5 bar	30.8 l/min	-



## 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 shafts lenght

Sedal offers a wide range of shafts length 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 his specific requirements and needs.

## Recommended Applications



Bath Shower



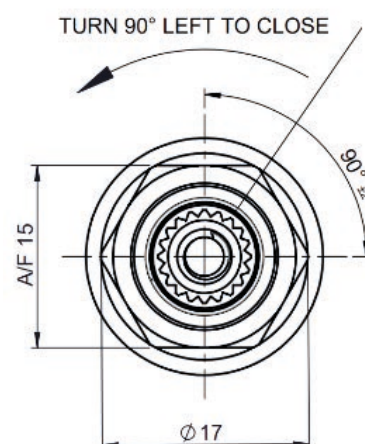
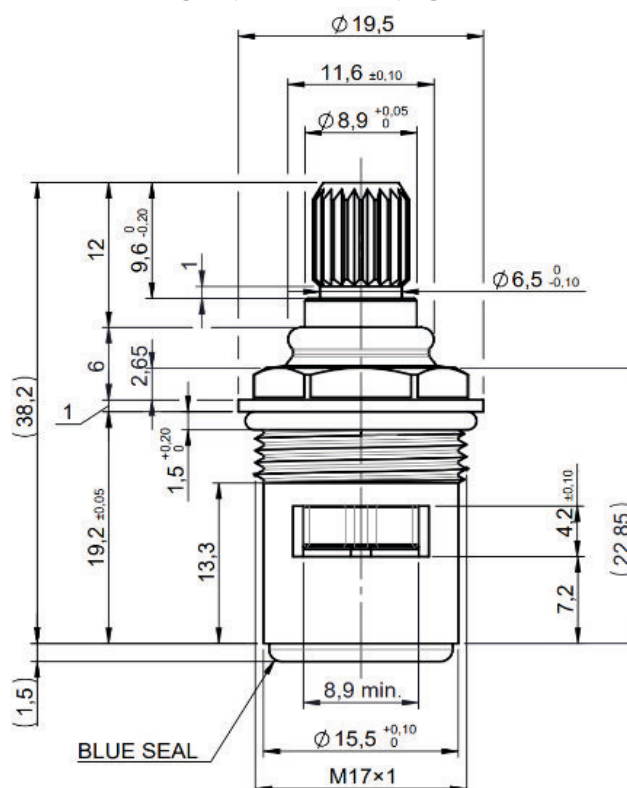
Washbasins faucet



Kitchen faucet

## Dimensions

Find machining requirements on page 171



## Certifications

ACS

WRAS

KTW

NSF



# Brass

## 19MC MN

### Description

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.

### Recomended Applications



Washbasins faucet



Kitchen faucet



Bath Shower

### Features



Rotation angle



Taylor made

### Advantages

Sedal offers a wide range of shafts length that the client can customize depending on ots needs. It is also possible to design other shaft geometries.

### Certifications

ACS

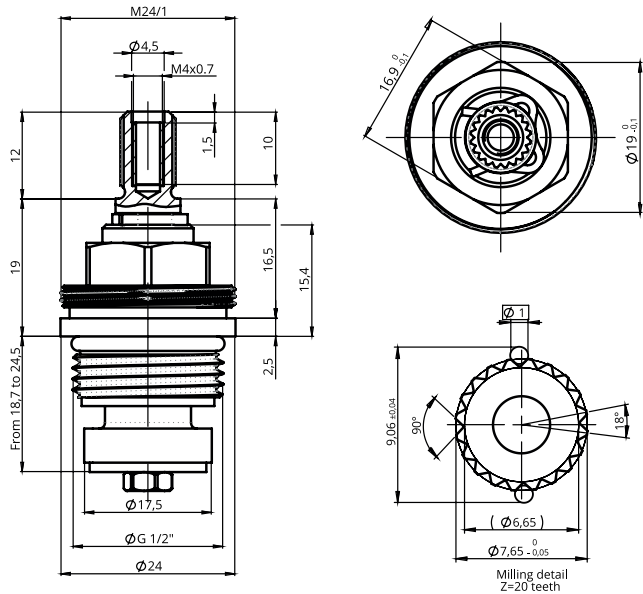
### Technical Specifications

General		19MN & 19MN LS
Installation torque (recommended)		10-12 Nm
Working pressure (recommended)		1-5 bar
Pressure resistance - ASME A 112		35 bar
Burst pressure		>50 bar
Life cycle - EN 200 ASME A112	200,000 cycles 500,000 cycles	
Max. hot water		90°



### Dimensions

Find machining requirements on page 171



Operation Torque		19MN & 19MN LS
Turn left-right		0.100-0.200 Nm
Flow rate (free flow)		19MC 90°
at 0.5 bar		11.3 l/min
at 1 bar		16.3 l/min
at 3 bar		29 l/min
at 5 bar		35.5 l/min

# Stainless Steel

19MC 90°

## Versions

RIGHT BLUE 19MC090R157



19MC 90°  
1/2 - SS  
19MC090L104 (Left-Red)

## 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



Taylor made



Rotation angle

## Technical Specifications

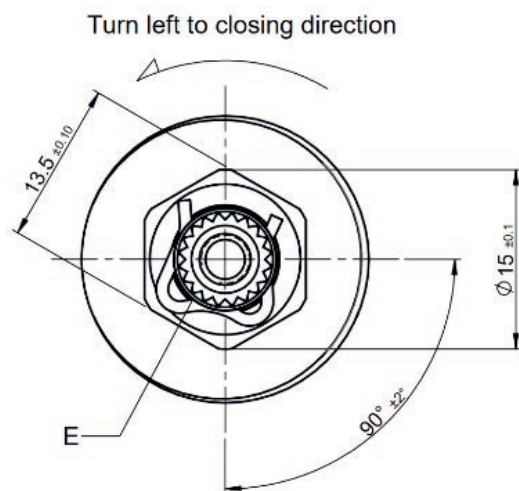
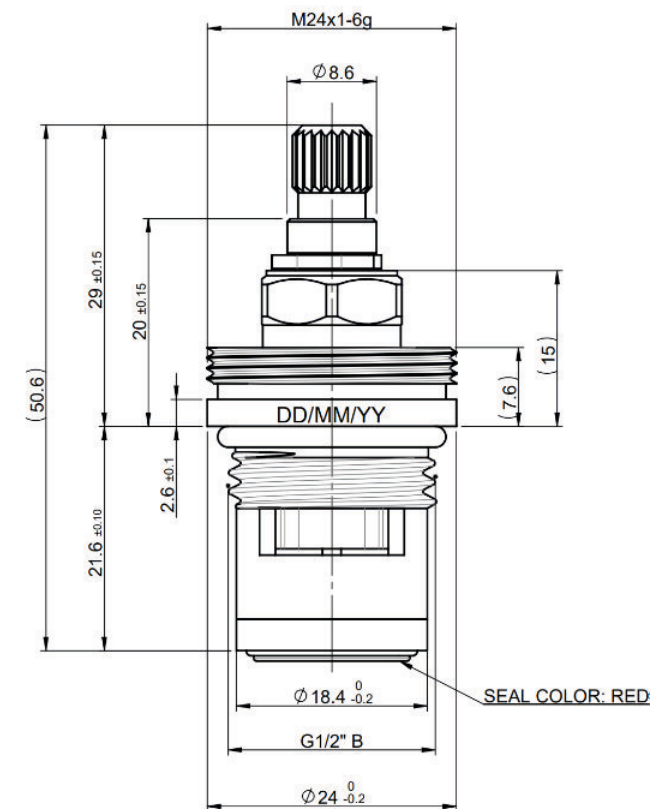
General	19MC 90° IX
Assembly torque	10-12 Nm
Rotation angle	90°
Working pressure (recommended)	1-5 bar
Pressure resistance - EN200	>25 bar
Burst pressure	>50 bar
Life cycle - EN 200	200,000 cycles
ASME A112	500,000 cycles
Max. hot water	90°
Max. Hot water recommended	65°
Flow rate at 3 bar (free flow)	23,9 l/min
Turn left-right	0.100-0.200 Nm

# Advantages

Sedal offers a wide range of shafts length that the client can customize depending on ots needs. It is also possible to design other shaft geometries.

# Dimensions

Find machining requirements on page 171



# Recomended Applications



Washbasins faucet



Kitchen faucet



Bath Shower

# Certifications

ACS

Plastic

19MCP 90°



19MP 90°  
1/2  
19MCP90R27 (right-blue)  
19MCP90L20 (left-red)

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



Taylor made



Rotation angle



Lead Free

Technical Specifications

General		19MCP 90° & 19MCP 90° LS
Installation torque (recommended)		8-10 Nm
Rotation angle		90°
Working pressure (recommended)		1-5 bar
Burst pressure		>50 bar
Life cycle - EN 200 ASME A112		200,000 cycles 500,000 cycles
Max. hot water		90°

Operation Torque		19MCP 90° & 19MCP 90° LS
Turn left-right		0.1-0.2 Nm
Flow rate (free flow)		19MCP 90° & 19MCP 90° LS
at 0.5 bar		8.9 l/min
at 1 bar		12.7 l/min
at 3 bar		22.4 l/min
at 5 bar		29.1 l/min

# Advantages

- 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 lenght geometries**

Sedal offers a wide range of shafts length 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 his specific requirements and needs.
- Lead free**

Chloramine resistant lead free brass body and stem options. Plastic versions are suitable for low-lead applications.

# Recomended Applications

- 

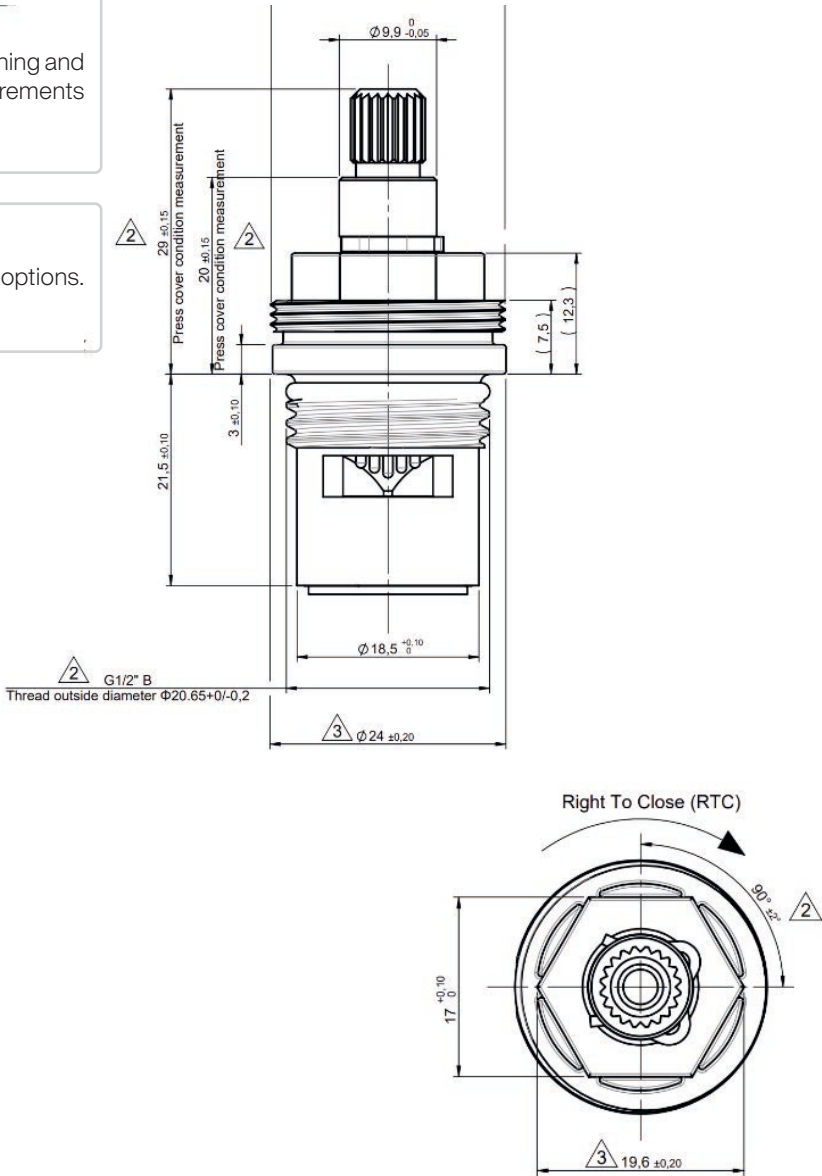
Bath Shower
- 

Washbasins faucet
- 

Kitchen faucet

# Dimensions

Find machining requirements on page 171



# Certifications

- ACS
- KTW

# Plastic

## 19MCP 180°

### 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.

### Recomended Applications



Washbasin faucet



Kitchen faucet



Bath Shower

### Features



Rotation angle



Taylor made

### Advantages

Sedal offers a wide range of length shafts that the client can customize depending on ots needs. It is also possible to design other shaft geometries.

### Certifications

- ACS
- KTW

### Technical Specifications

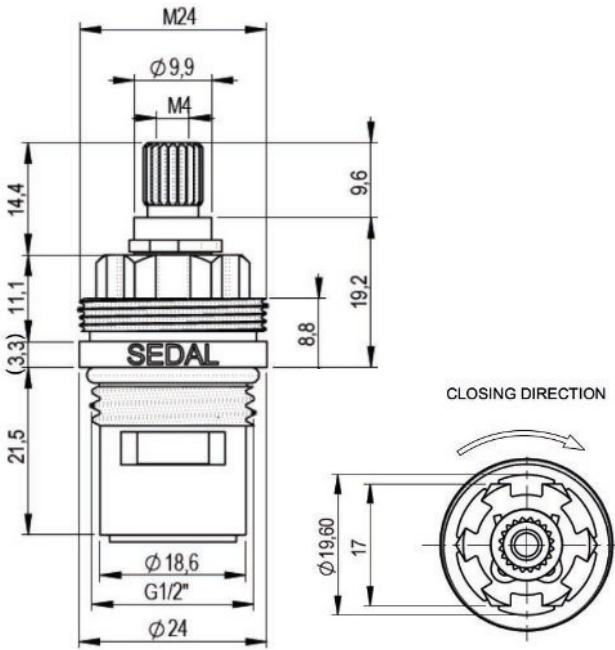
General		19MCP 180° & 19MCP 180° LS
Installation torque (recommended)		8-10 Nm
Rotation angle		180°
Working pressure (recommended)		1-5 bar
Burst pressure		>50 bar
Life cycle - EN 200 ASME A112		200,000 cycles 500,000 cycles
Max. hot water		90°



19MP 180°  
1/2"  
19MCP18R01 (right-blue)  
19MCP18L01 (left-red)

### Dimensions

Find machining requirements on page 171



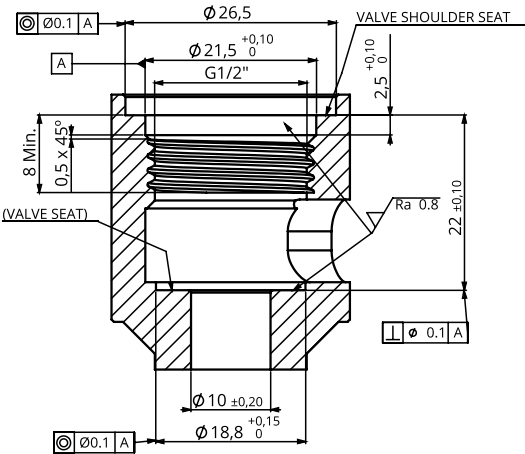
Operation Torque	19MCP 180° & 19MCP 180° LS
Turn left-right	0.100-0.200 Nm

Flow rate (free flow)	19MCP 180° & 19MCP 180° LS
at 0.5 bar	9.4 l/min
at 1 bar	13.4 l/min
at 3 bar	23.3 l/min
at 5 bar	30.2 l/min

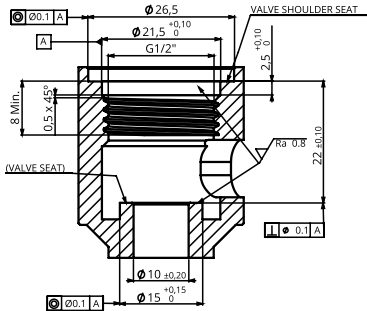


# Mechanical Requirements

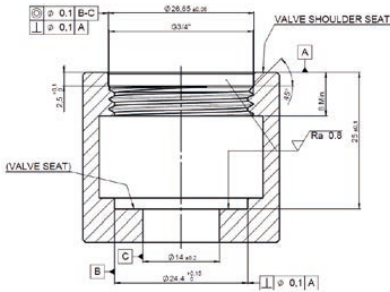
Product	Reference	Pg.	Machining tip
19MC 90°	19MC01 (Right-Blue)	156 - 157	
	19MC04 (Left-Red)		
19MC 90° HF	19MC080R147 (right-blue)	156 - 157	
	19MC090L97 (left-red)		
19MC 90° M17	19MC090L21	162 - 163	
19MC 90° M17	19MC090R30	162 - 163	
19MC 180°	19MC03 (Right-Blue)	164	
	19MC05 (Left-Red)		
19MC 90° SS	19MC090L104	166 - 167	
	19MC090L157		
19MCP 90°	19MCP90R27 (Right-Blue)	168 - 169	
	19MCP90L20 (Left-Red)		
19MCP 180°	19MCP18R01 (Right-Blue)	170	
	19MCP18L01 (Left-Red)		



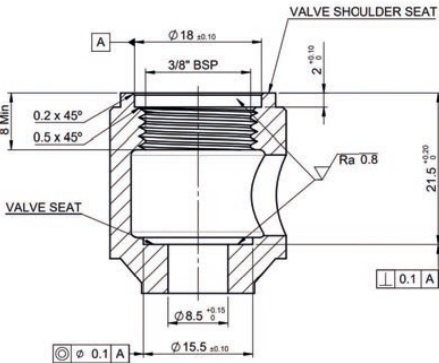
Porduct	Reference	Pg.	Machining tip
19MN - 1/2"	19MN01	165	
19MN - 1/2" LS	19MN015	165	



Product	Reference	Pg.	Machining tip
19MC 90° 3/4	19MC090R64	160 - 161	
	19MC090L64		



Product	Reference	Pg.	Machining tip
19MC 90° 3/8	19MC090L82	158 - 189	
	19MC090R137		



# Diverter

Sedal's range of shower diverters includes automatic return diverters, as well as multiway diverters with 2, 3, & 4 outlets. Most of them are available in 90°, 180°, and 360° options, and they are typically equipped with a metal lever.

Additional features such as clicks, off position, or simultaneous outlets are also available as options.

Furthermore, we have extended our range by incorporating different materials, such as plastic and brass.

*Multiway diverter 40 mm*



## Multiway & automatic return Diverter

9 Products  
2 Categories

# Shower Diverters

## Multiway



	Code	Page
GD-25	08GD25S0003	178 - 179
GD-35 BRASS	08GD35S0019	180 - 181
GD-35 S/D	08GD35LBE00	182 - 183
GD-35 D/C	08GD35FBE00	182 - 183
GD-35 4	08GD35S0001	184 - 185
GD-40 4	08GD40S0001	186 - 187

## Automatic return



	Code	Page
Compact	09CKCR00	188
Compact +R	09CKCR10	188
Sedal	09CKCR01	189
USA	09TUCR00	189

# Multiway

GD-25




GD-25 S/D  
08GD25S0003

## 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



Metal Lever



2 Outlets



Rotation Angle

## Technical Specifications

General	S/D
Nut torque pitch M1,5	7 - 8 Nm
Rotation angle	>90°
Working pressure (recommended)	1 - 5 bar
Burst pressure	25 bar
Life cycle - EN 817 NF077	30,000 cycles 30,000 cycles
Max. hot water	90°C

Operation Torque	S/D
Turn left-right	0.15-0.45 Nm
OUTLET SELECTOR (Torque increment)	0.2 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

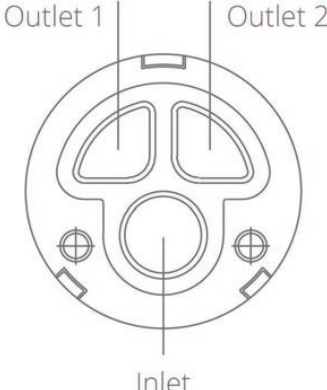
# Advantages

**Slim body shower 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.

**Robust Design**  
GD-25 has a robust design, withstanding higher levels of burst pressure.

**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.



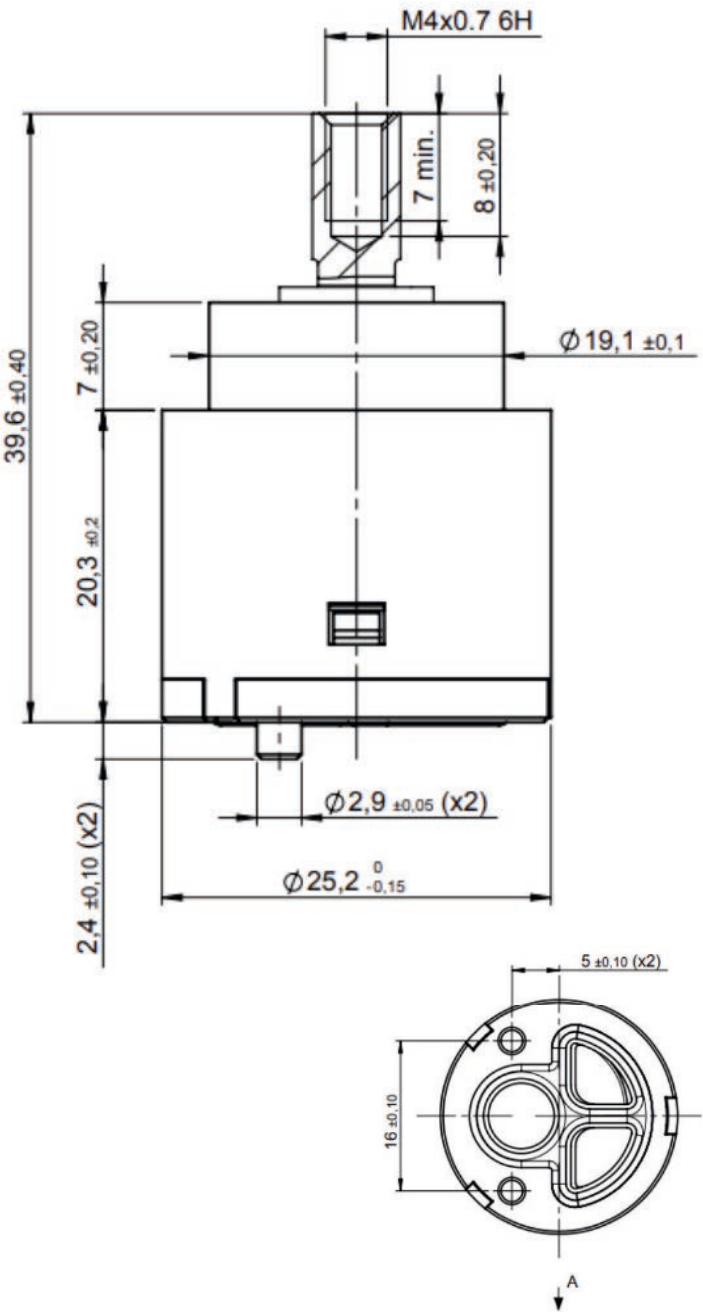
# Recomended Applications



Shower Diverters

## Dimensions

Find machining requirements on page 186 - 187



## Certifications

ACS

NSF

KTW

AS/ NZS

# Multiway

## GD-35 BRASS




GD-35 S/D Brass  
08GD35S0019

### Description


Brass diverters from SEDAL are Premium diverters for showering systems that require extremely reliable and robust solutions with a competitive cost. The definition of the stops and the smoothness of operation make this cartridge a great choice to elevate the quality perception of the shower for the end user, while providing safety and peace of mind to installers.

Pairs with our standard or OEM thermostatic cartridges for a superior showering experience.


### Features




Eco




Metal Lever




Click



3 Outlets



Rotation Angle



Side Inlet

### Technical Specifications

General		S/D	Operation Torque		S/D
Nut torque pitch M1,5		10 - 12 Nm	Turn left-right		0.15 - 0.45 Nm
Rotation angle		>360°	OUTLET SELECTOR (Torque increment)		0,1 - 0.2 Nm
Working pressure (recommended)		1 - 5 bar			
Burst pressure		>35 bar			
Life cycle - EN 817		30,000 cycles			
NF077		30,000 cycles			
ASME 112-18-1		15,00 cycles			
Max. hot water		90°C			
			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

# Advantages

Customizable

Customizable number and outlet combinations for different applications, and customizable stops.

Robust Design

GD-25 has a robust design, withstanding higher levels of burst pressure.

Mechanical strenght

Increased mechanical strength and robustness for a long life expectancy keeping the user experience at the highest standards.

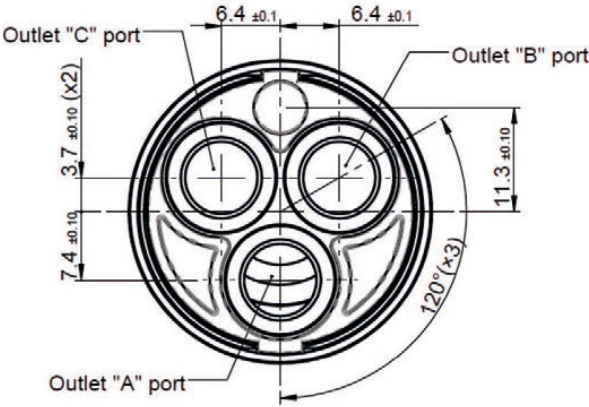
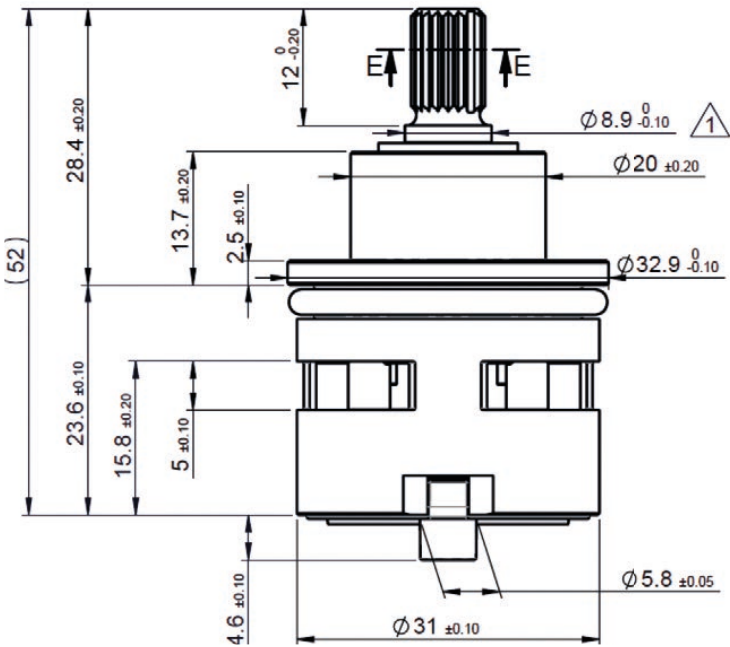
# Recomended Applications



Shower Diverters

# Dimensions

Find machining requirements on page 186



# Certifications



Multiway

GD-35



GD-35 S/D  
08GD35LBE00




GD-35 S/D  
08GD35FBE00


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




Eco




Metal Lever




Click



2  
OUT



180°



2 Outlets

Rotation Angle

Side Inlet

Technical Specifications

General		S/D
Nut torque pitch M1,5		7 - 8 Nm
Rotation angle		>180°
Working pressure (recommended)		1 - 5 bar
Burst pressure		25 - 30 bar
Life cycle - EN 817 ASME 112-18-1		200,000 cycles 500,000 cycles
Max. hot water		90°C

Operation Torque		S/D
Turn left-right		0.15 - 0.45 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



# Advantages

**Customizable**  
Customizable number and outlet combinations for different applications, and customizable stops.


**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-25 has a robust design, withstanding higher levels of burst pressure.

**Mechanical Strenght**  
Increased mechanical strength and robustness for a long life expectancy keeping the user experience at the highest standards.

**High 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.



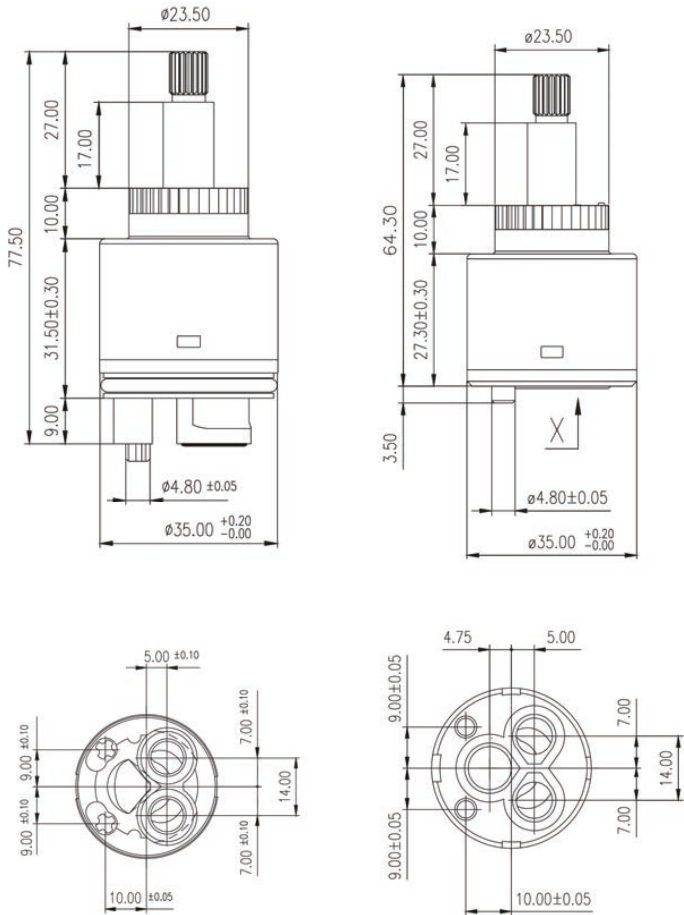
# Recomended Applications



Shower Diverter

## Dimensions

Find machining requirements on page 186 - 187



## Certifications

ACS

WRAS

# Multiway

GD-35 4




GD-35 S/D  
08GD35S0001


## 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




Metal Lever




Click



2 Outlets



Rotation Angle



Side Inlet

## 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	30,000 cycles	
ASME 112-18-1	30,000 cycles	
Max. hot water		90°C

Operation Torque		S/D
Turn left-right		0.15 - 0.45 Nm
OUTLET SELECTOR (Torque increment)		0,1 - 0.2 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

# Advantages

## Surpasses conventional durability standards

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

## Robust Design

GD-35 4 has a robust design, withstanding higher levels of burst pressure.

## Higher flow rate

The GD-35 4 has a high flow rate @3 bar, allowing to build body showers with 4 outlets providing a positive user experience while assuring an ecologic water consumption.

## 3 Different shaft lengths available

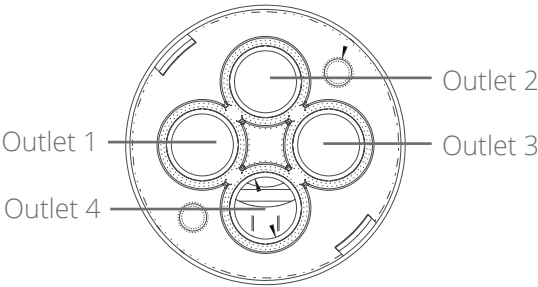
The GD-35 4 is available with three different shaft lengths to fulfill any manufacturer requirements.

### Total Height (mm)

- 52,2 mm
- 64,8 mm
- 80,5 mm

## 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.



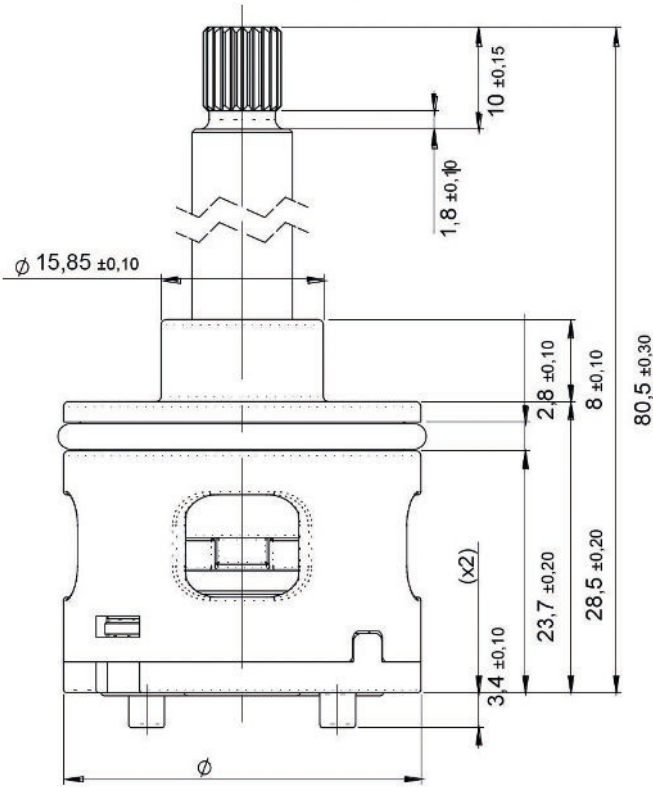
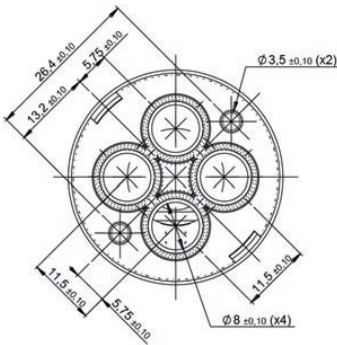
# Recomended Applications



Shower Diverters

# Dimensions

Find machining requirements on page 186 - 187



# Certifications



# Multiway

GD-40 4









GD-40 S/D 4  
08GD40S0001

## Description

The GD40 S/D 4 diverter from Sedal is a high end 40mm 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 TM002 Thermostatic cartridge for showers.

## Features

-  Eco
-  Metal Lever
-  Click
-  4 Outlets
-  Rotation Angle
-  Side Inlet

## Technical Specifications

General	S/D
Nut torque pitch M1,5	10-12Nm
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	0.15-0.45 Nm
OUTLET SELECTOR (Torque increment)	0.2 Nm

Flow rate (free flow)	S/D
at 0.5 bar	11.3 l/min
at 1 bar	15.9 l/min
at 3 bar	27.6 l/min
at 5 bar	35.3 l/min

# Advantages

**Surpasses conventional durability standards**  
Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal shaft 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 4 outlets providing a positive user experience while assuring an ecologic water consumption.

**3 Different shaft lengths available**  
The GD40 is available with three different shaft lengths to fulfill any manufacturer requirements.

Total Height (mm)
53.8 mm
66.3 mm
82 mm

**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.

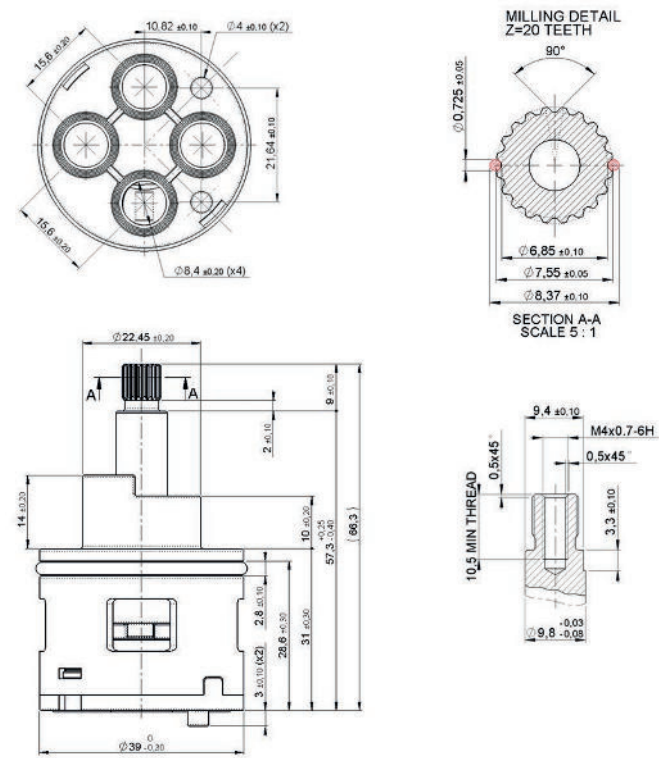
# Recomended Applications



Shower Diverter

# Dimensions

Find machining requirements on page 186 - 187



# Certifications

ACS

NSF

KTW

AS/NZS

# Automatic return

## Compact

### 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.

### Recomended Applications



Showers diverters

### Features

2  
OUT

2 Outlets

### Certifications

ACS



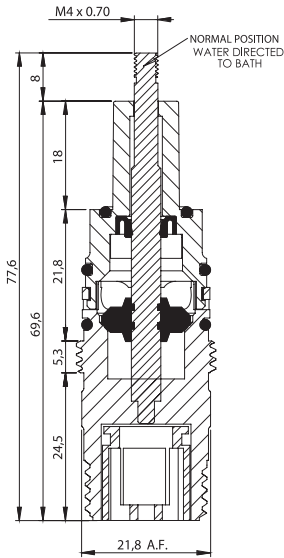
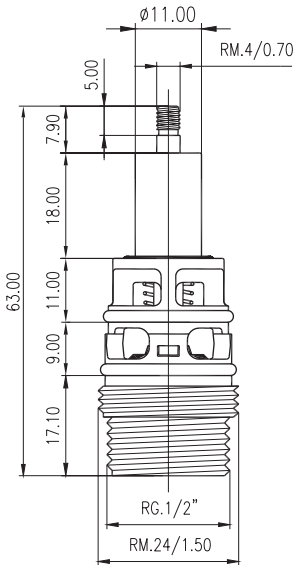
COMPACK  
09CKCR00



COMPACK  
+R  
09CKCR10

### Dimensions

Find machining requirements on page 186 - 187



### Technical Specifications

General	Compack & Compack +R
Operative	Manual and automatic
Torque	5-8 Nm
Pressure resistance	max. 12 bar
Working pressure	12 bar
Max. temperature	90 °C
Endurance test	>30,000 cycles

# Automatic return

Compact

## 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.

## Recomended Applications



Showers diverters

## Features

2  
OUT

2 Outlets



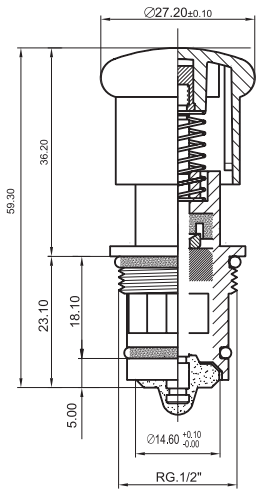
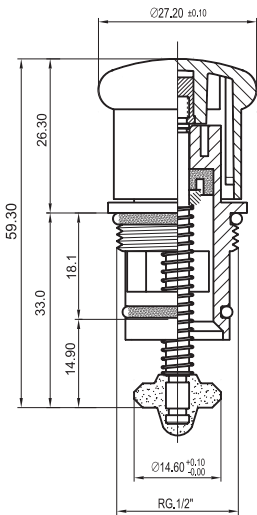
Sedal  
09SGCR01



USA  
09TUCR00

## Dimensions

Find machining requirements on page 186 - 187



## Technical Specifications

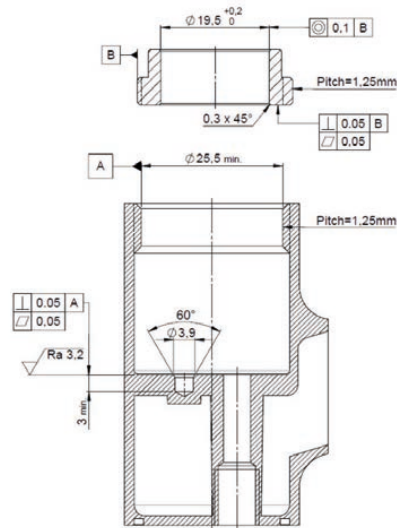
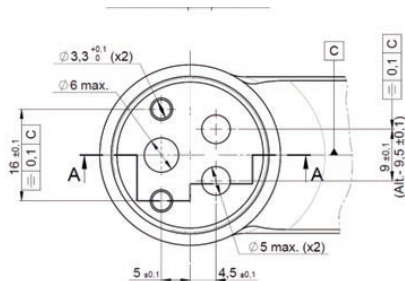
General	Sedal & USA
Operative	Manual and automatic
Torque	5-8 Nm
Pressure resistance	max. 12 bar
Working pressure	12 bar
Max. temperature	90 °C
Endurance test	>30,000 cycles



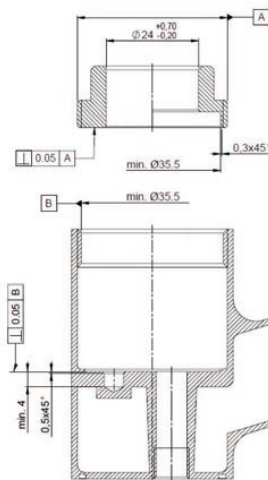
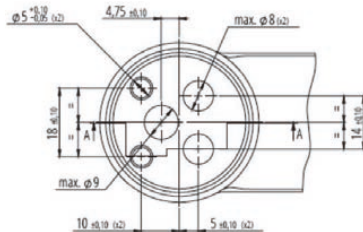
# Machining Requirements

## Multiways

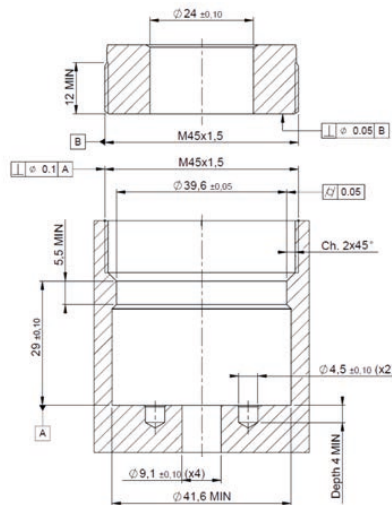
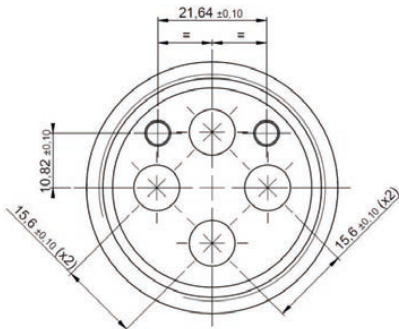
Product	Reference	Pg	Machining tip
GD-25	08GD25S0003	174 - 175	



Product	Reference	Pg	Machining tip
GD-35 S/D	08GD35LBE00	178 - 179	
GD-35 C/D	08GD35FBE00	178 - 179	
GD-35 BRASS	08GD35S0019	176 - 177	
GD-35 4	08GD35S0001	180 - 181	



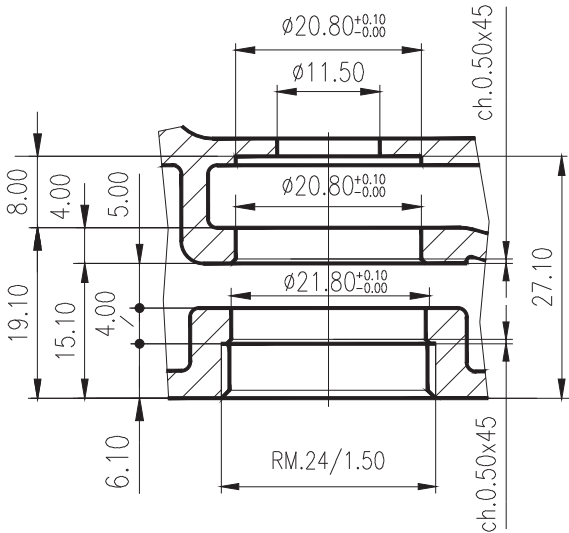
Product	Reference	Pg	Machining tip
GD-40 4	08GD40S0001	182 - 183	



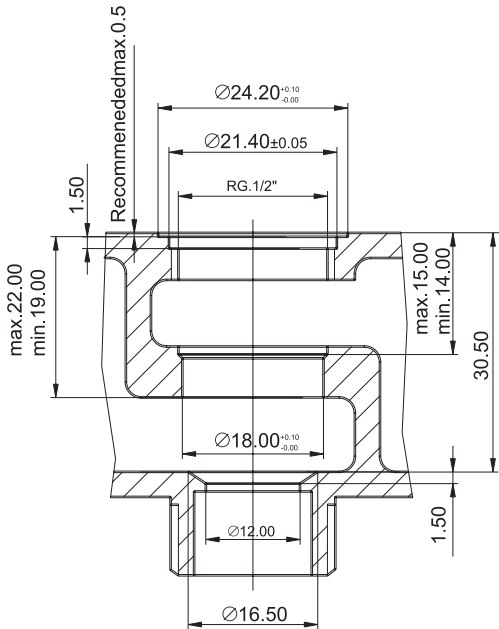


Automatic return

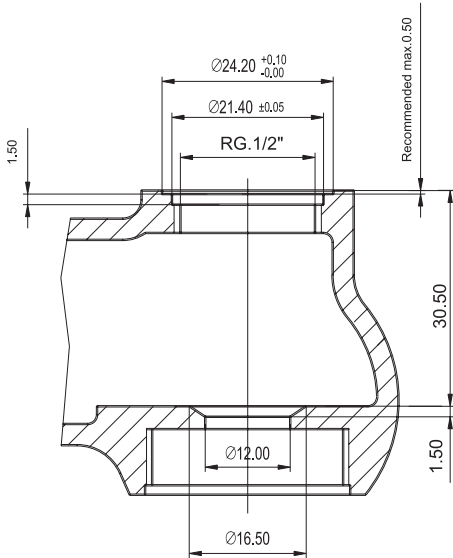
Product	Reference	Pg	MACHINING TIP
COMPACT	09CKCR00	184	
COMPACT +R	09CKCR10	184	



Product	Reference	Pg	Machining Tip
SEDAL	09SGCR01	185	



Product	Reference	Pg	Machining Tip
USA	09TUCR00	185	



# Metering Valves

Sedal's range of self-closing valves is designed to ensure water efficiency and durability, making them ideal for public venues, gyms, and other public applications.

Our portfolio includes push-button and sensor-activated models (you can find them in the Digital Systems section), all engineered for smooth operation and reliable automatic shut-off.

Valves are available in various configurations, with adjustable flow time, and are suitable for both cold and mixed water applications, and are designed to meet international standards.

*Adjustable Metering Valve for basin applications*



## Metering Valves

5 Products  
2 Categories

# Self-closing Valves

## M26



	Code	Page
Urinal	19MTU0C06	194
Urinal	19MTU0C07	194
Basin (Cold water)	19MTB0C06	194
Basin (Mix water)	19MTB0H06	194

## M28



	Code	Page
Urinal	19MTU0C05	194
Basin (Cold water)	19MTB0C05	194
Basin (Mix water)	19MTB0C05	194
Shower	19MTS0C01	195
Adjustable	19MTA0C05	195
Adjustable	19MTA0H05	195



# Metering Valves

Shower | Adjustable

## Versions

	Shower	Adjustable
M28 Cold Water	19MTS0C01	19MTA0C05
M28 Mix Water		19MTA0H05



Shower M28  
19MTS0C05

## Description

Metering valves are automatic shut-off valves for public venues ensuring water saving. All metering valves are available in M26 and M28.

## Recomended Applications



Showers



Urinals



Hotels



Washbasin faucet



Public venues

## 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
Flow rate at 3 bar		
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

## Features



Automatic shutt-off



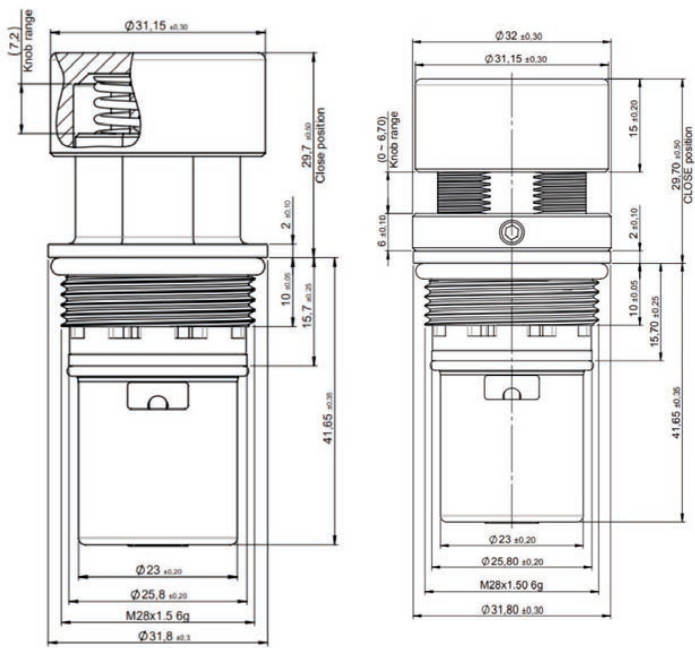
Eco



Adjustable

## Dimensions

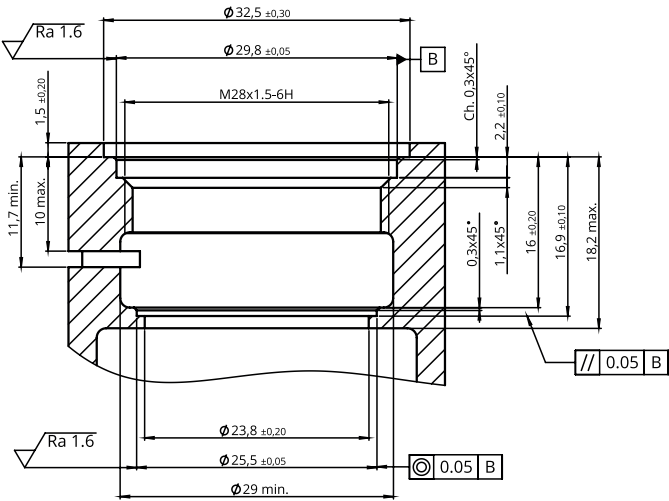
Find machining requirements on page 192 - 193



# Machining Requirements

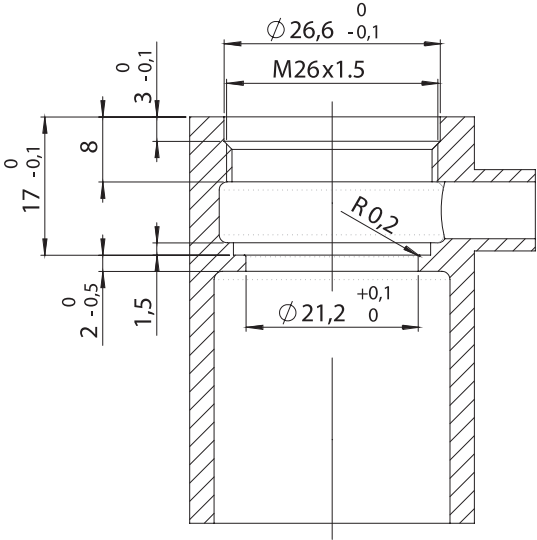
M26

Product	Reference	Pg	Machining tip
URINAL	19MTU0C05	190	
BASIN	19MTB0C05 (cold)	190	
	19MTB0H05 (hot)		
SHOWER	19MTS0C05	191	
ADJUSTABLE	19MTA0C05	191	



M28

Product	Reference	Pg	Machining tip
URINAL	19MTU0C06	190	
BASIN	19MTB0C06 (cold) 19MTB0H06 (hot)	190	
SHOWER	19MTS0C06	191	
ADJUSTABLE	19MTA0C06	191	



# Flexible Hoses

Sedal's range of flexible hoses offers reliable performance, durability, and versatility for a wide variety of plumbing applications. Our hoses are designed to ensure easy installation and long-lasting resistance to pressure, temperature, and corrosion.

They are available in multiple lengths and diameters, with options for stainless steel braid, EPDM inner tubing, and reinforced PVC. Standard connections include F/F, F/M, and customized fittings to adapt to specific market needs.

Additional features such as anti-twist systems, color-coded indicators, and WRAS or ACS certifications are also available across the range.

*Flexible Hose for taps*



## Metering Valves

5 Products  
2 Categories



# Flexible Hoses

## Taps



	Page
DN6	200
DN8	200

## Standards



	Page
DN13	201
DN19	201
DN25	201

## With bicone & Elbow



	Page
DN8	200

# For Taps

DN6 & 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 components with possibility of changing materials lenght and fitting configuration under customer demand.

## Recomended Applications



Washbasin faucet



Kitchen faucet



Bath Shower

## Certifications

- ACS
- AENOR
- CSTBAT



Flexible hoses for taps  
DN6



Standard flexible hoses  
DN8

## Technical Specifications

GENERAL	Flexible hoses for taps	Standard flexible hoses DN8
End fittings	Brass	Brass CW617N
Nuts	3/8" - 1/2"	3/8" - 1/2"
Nozzle	M-8/100 - M-10/100 18mm, 35mm, 50mm	-
Sleeve	Stainless steel AISI 304	Stainless steel AISI 304
Hose	EPDM 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	8mm
Ø external diameter	10mm - 12mm	12mm
Max. temperature	90°C	90°C
Drinking water	Yes	Yes
Burst pressure	100 bar	100 bar
Work pressure	25 bar	25 bar
Curvature radius	35mm - 40mm	40mm
Nominal flow	20 l/min -25 l/min	25 l/min

# Standards

DN13 | 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.

## Recomended Applications



Bath Shower



## Certifications

- ACS
- AENOR
- CSTBAT

Standard flexible hoses  
DN13

Standard flexible hoses  
DN19 & DN25

## 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	EPDM sanitary hose	EPDM sanitary hose
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stainless steel AISI 304 wire
Øinternal diameter	13mm	19mm - 25mm
Øexternal diameter	19mm	27mm - 33mm
Max. temperature	90°C	90°C
Drinking H <sub>2</sub> O	Yes	Yes
Burst pressure	90 bar	90 bar
Work pressure	15 bar	10 bar
Curvature radius	50mm	70mm - 100mm
Nominal flow	70 l/min	120 l/min - 200 l/min

# With Bicone & with Elbow

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.

## Recomended Applications



Washbasins faucet



Kitchen faucet



Bath Shower

## Certifications

- ACS
- AENOR
- CSTBAT



Flexible hoses with bicone  
DN8



Flexible hoses with elbow  
DN8

## 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	EPDM sanitary hose				EPDM 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	Brass	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	Yes
Burst pressure	100 kg/cm <sup>2</sup>	100 bar	80 bar	60 bar	35 bar	
Work pressure	25 kg/cm <sup>2</sup>	25 bar	20 bar	15 bar	15 bar	
Curvature radius	40mm	40mm	45mm	40mm	40mm	
Nominal flow	25 l/min	25 l/min	65 l/min	120 l/min	200 l/min	

The faucet's heart

**sedal**

**DIGITAL  
SYSTEMS**

iTOP



T2 Electronic Water Valve



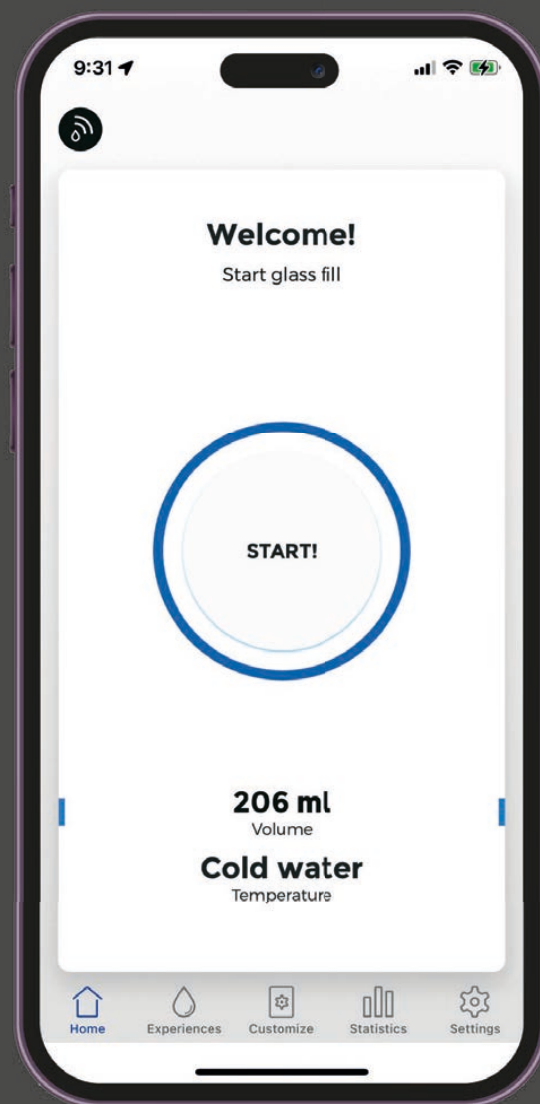
Sensors



# s-Flow

s-Flow is an all new free APP to control digital faucets and showers, adding flexibility to the system by allowing users to set up and manage their devices. Featuring smart shower programs, personal features configuration, automatic warm up parameters, maintenance, statistics and much more, s-Flow is easy to use and powerful.

*S-flow App from Sedal*







# Voice control

Our IoT devices can be operated by voice assistants thanks to our skill, developed specifically for water digital mixers by SEDAL. Users can access all native features of the valves by asking their voice assistant to do actions like turn on the shower at a specific temperature, activate the warm up function or turn on a scene that can include music, lighting and a relaxing shower session.

How do  
our **Digital**  
**Systems**  
work?

## How do Sedal's Digital Systems work?

Sedal's Digital Systems are developed with the most user friendly design possible, thought to provide the best quality result and as many options as possible.

It counts with two main objects, the **Electronic Water Valve**, and the **Interface**.

### Electronic Water Valves

*T1 Shower*



### Interfaces

*iPlus2*



The electronic water valve is the brain of the system. It connects to the water inlets, the outlet (like a faucet or shower), a power source and most important, to the user interface (HMI).

The interface doesn't handle water itself. Its only job is to let the user choose how they want the water (turning a lever or pressing a button, for example). That information is sent to the electronic water valve.

All the real work happens inside the valve: it's the part that controls the water, mixes it if needed, and sends it to the outlet. Water only flows through the electronic water valve, never through the interface.

## Digital System

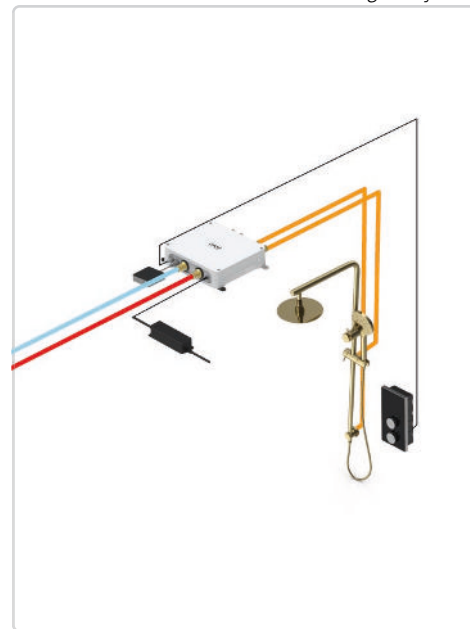
*T1 Kitchen & iRound Digital System*



*M1 Bathroom & iTOP Digital System*



*T2 Shower & iPlus1 Digital System*



# Electronic Water Valves

Sedal has developed different fully electronic systems which allow complete digital control over the water that flows through our bathroom faucets, kitchen faucets, showers, toilets and urinals.

Our patented electronic solutions include user-friendly digital interfaces and advanced electronic valves, available in both mixing and non-mixing options.

With this electronic water valve, manufacturers can achieve precise control over flow and temperature, collect valuable usage data, and integrate additional features that improve the functionality of a traditional cartridge.

*T1 Shower*



5 Products  
3 Categories

# Electronic water valves

## M Family



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## T Family



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## H Family



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# M1 Kitchen & Bathroom

## Mixer Electronic Water Valve

### Versions

	AC	AC/DC
Interface	27EV009009	27EV009008
Interface & Sensor	27EV009006	27EV009002
Interface & Wifi	27EV009016	27EV009017
Interface & Sensor & wifi	27EV009015	27EV009014


### Description


M1 electronic water valve is a mixer valve to be connected to an interface and control the water temperature and flow rate in a digital way for kitchen faucets and bathroom faucets. It has several options like: battery backup, infrared sensors compatibility, Wi-Fi or Bluetooth connectivity and special functions to add new functionalities.





M1 Kitchen & Bathroom  
Electronic Water Valve


### Features


- 


**Temperature control**  
Can control the temperature in a digital way proportion.
- 


**Flow rate control**  
Can control the flow rate in a digital way in % of opening.
- 


**Pause**  
Remembers water temperature and flow that the user was using before shampooing.
- 


**Device Set-Up**  
Set up parameters such as temperature, flow and time of your device.
- 


**Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- 


**Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- 

**Connectivity**  
Optional model with WIFI-bluetooth to control functionalities with an app
- 

**Safety closed**  
In case of power outage, the system closes automatically.
- 

**Multiple activation**  
Handles and prioritizes inputs from different sensors and systems.
- 

**Battery operated**  
Powered by AC and AC/DC sources.
- 

**Water dispensing timer**  
Set-up a timer for automatic glass and pot filling.
- 

**Preferred Settings**  
Save preferred settings of temperature, flow.

### Technical Specifications

General	
Maximum load	≤15 W
Rated impulse Voltage	12 V DC
Hydraulic connections	G3/8, John Guest
Weight	0.54 Kg

Pressure	
Maximum dynamic	6 bar (0.6Mpa)
Minimum dynamic	1 bar (0.1Mpa)
Recommended dynamic	3 bar (0.3Mpa)
Maximum differential supply	1.5 bar (0.15Mpa)
Burst	>35 bar (3.5Mpa)

Temperature	
Recommended Input hot water range	Min. 48°C - Max.65°C
Recommended Input cold water range	Min.5°C - Max.28°C
Maximum inlet temperature	65°C *1
Minimum inlet temperature	>0 °C
Mixed range	Full Cold – Full Hot

Flow rate (3 bar free flow, DN8)	
Mixed water	Min. 2 l/min - Max. 15 l/min
Full Cold or Full Hot water	Min. 2 l/min - Max. 15 l/min

\* (1) Up to 80 °C less than 20 min  
\* (2) Configurable up to Full Hot on OEM demand

# Advantages

## Flow rate and temperature control

The device can control Flow rate and temperature in a digital way.

## Battery Backup (Optional)

The device has the possibility to add a battery backup to work when there are a power outage.

## Connectivity

Optionally, the device can be connected to read information and control the product remotely with S-Flow app.

## Digital interface priority managment

The device can manage multiple interfaces or sensors and control the priority between them according the manufacturer needs or the application, allowing a high flexible and innovative solutions that can't be done with a traditional system.

## Voice Assistance (Optional)

Using the APP, the system can be connected to a voice control assistant. Is compatible with Google Assistant and Amazon Alexa.

## Open Protocol

The communications port to connect the interface or the communications module Wi-Fi & Bluetooth uses MODBUS RTU standard open protocol to allow manufacturers to develop his own interfaces and modules to control the device without limits.

## OEM Customistation (Optional)

All settings can be modified under manufacturer request.

# Recomended Applications

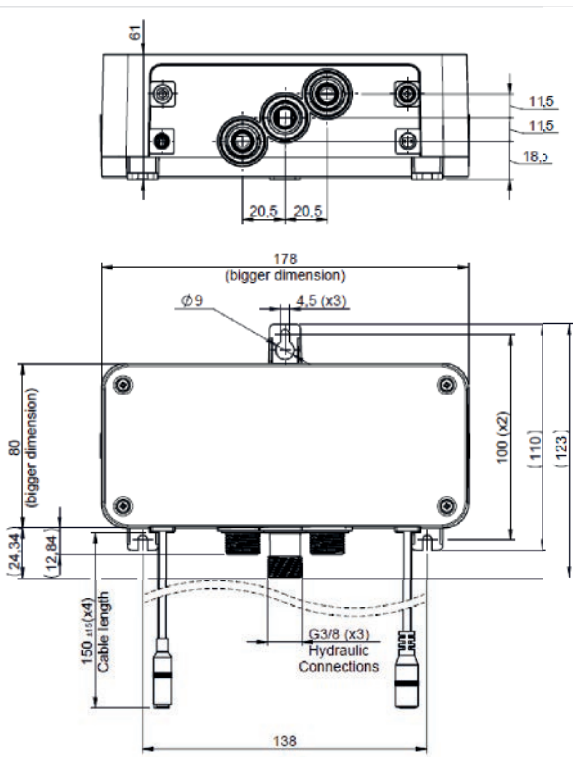


Bathroom



Kitchen faucet

# Dimensions



# Certifications - Ready for

- ACS
- WRAS
- KTW/  
W270
- NSF61

# T1 Kitchen

## Thermostatic Mixer Electronic Water Valve

### Versions

	AC	AC/DC
Interface	27EV010013	27EV010015
Interface & Sensor	27EV010016	27EV010012
Interface & Wifi	27EV010017	27EV010019
Interface & Sensor & wifi	27EV010020	27EV010021


### Description


The T1 electronic thermostatic mixing valve is engineered to connect with a digital interface, enabling precise control of water temperature and flow in kitchen faucets. With precise regulation of water temperature and flow. It has the option for battery backup, infrared sensor, wireless connectivity (Wi-Fi/Bluetooth), and customizable functions for extended capabilities.





**T1 Kitchen**  
Electronic Water Valve


### Features


- 


**Temperature control**  
Can control the temperature in a digital way proportion.
- 


**Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- 


**Leakage Detection**  
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.
- 


**Device Set-Up**  
Set up parameters such as temperature, flow and time of your device.
- 


**Anti-Scalding**  
Anti-scalding safety warning when using the faucet.
- 

**Water dispensing volume**  
Set-up a timer for automatic glass and pot filling.
- 

**Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- 

**Preferred Settings**  
Save preferred settings of temperature, flow.
- 

**Thermal Desinfection**  
Thermal disinfection in all shower outlets
- 

**Flow rate control**  
Can control the flow rate in a digital way in % of opening.
- 

**Safety closed**  
In case of power outage, the system closes automatically.

### Technical Specifications

General		Pressure	
Maximum load	≤25W (Stand-by ≤1W) *(1)	Maximum dynamic	6 bar (0.6Mpa)
Rated impulse Voltage	12 V DC	Minimum dynamic	1 bar (0.1Mpa)
Hydraulic connections	1/2" & 3/8" M-GAS, John Guest	Recommended dynamic	3 bar (0.3Mpa)
Weight	0.7 Kg	Maximum differential supply	1.5 bar (0.15Mpa)
		Burst	>35 bar (3.5Mpa)
Temperature		Flow rate (3 bar free flow with diverter DN13)	
Recommended Input hot water range	Min. 48°C - Max.65°C	Mixed water free flow	2 - 15 l/min
Recommended Input cold water range	Min.5°C - Max.28°C	Full Cold or Full Hot water free flow	2 - 15 l/min
Maximum inlet temperature	65°C *2	Mixed free flow + diverter	2 - 15 l/min
Minimum inlet temperature	>0°C	Full Cold or Full Hot free flow + diverter	2 - 15 l/min
Mixed range	Full Cold – 44 °C *(3)		

\*(1) Without deviator. With Sedal deviator ≤22 W (Stand-by ≤1W)  
\*(2) Up to 80 °C less than 20 min  
\*(3) Configurable up to Full Hot on OEM demand



# Advantages

**Thermostatic and volume control**

The device can control Flow rate and temperature in a thermostatic digital way. It can control the temperature in degrees and the flow rate in liters per minute.

**Connectivity (Optional)**

Optionally, the device can be connected to read information and control the product remotely with S-Flow app. As the device has multiple sensors can send information about the temperature, flow rate, volumes, time etc.

**Digital interface priority management**

The device can manage multiple interfaces or sensors and control the priority between them according the manufacturer needs or the application, allowing a high flexible and innovative solutions that can't be done with a traditional system.

**Alarms detection**

The device can inform through the interface or via APP about the alarms of the system or installation to solve problems more quickly.

**Voice Assistance (Optional)**

Using the APP, the system can be connected to a voice control assistant. Is compatible with Google Assistant and Amazon Alexa.

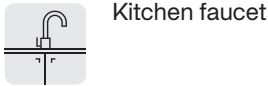
**Open protocol**

The communications port to connect the interface or the communications module Wi-Fi & Bluetooth uses MODBUS RTU standard open protocol to allow manufacturers to develop his own interfaces and modules to control the device without limits.

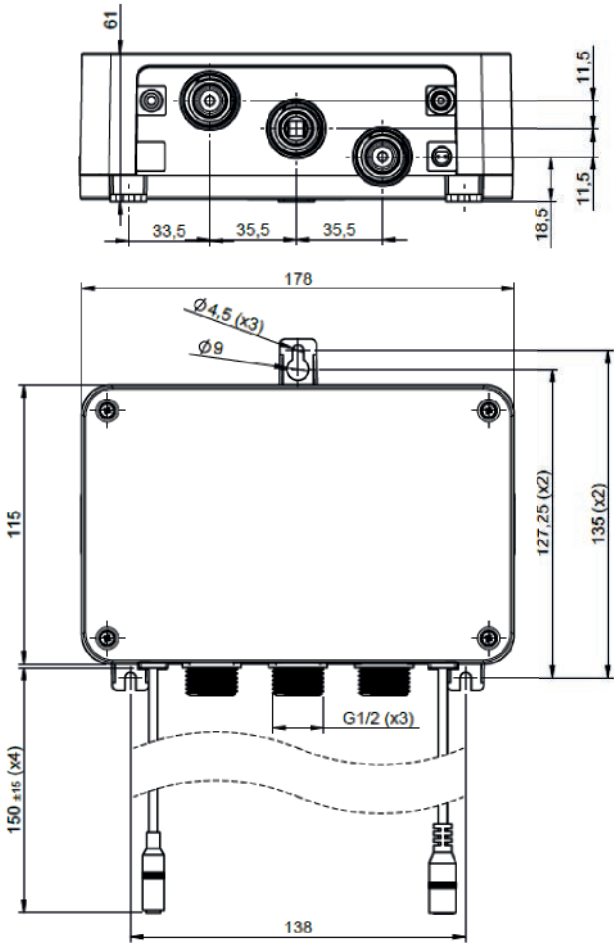
**OEM Customisation (Optional)**

All settings can be modified under manufacturer request.

# Recomended Applications



# Dimensions



# Certifications - Ready for



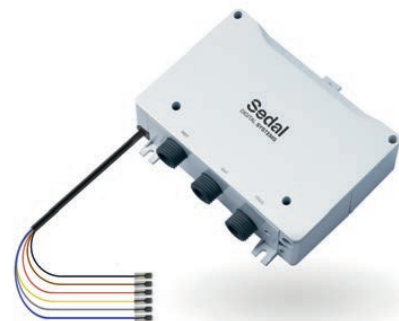
# T1 Shower Class I

## Thermostatic Mixer Electronic Water Valve

	AC
1 Outlet	27EV000015
2 Outlets	27EV000022
3 Outlets	27EV000023
1 Outlets & WI-Fi	27EV000016
2 Outlets & WI-Fi	27EV000024
3 Outlets & WI-Fi	27EV000025

















## Description

T1 electronic water valve is a thermostatic mixer “CLASS I” valve to be connected to an interface and control the water temperature and flow rate in a digital way for showers. It has several options like: Wi-Fi or Bluetooth connectivity, outlets control and special functions to add new functionalities. Can work from 1 to 3 outlets with 2 outlets simultaneous with external solenoid valves as diverter.



T1 Shower Class I  
Electronic Water Valve

## Features

- **Temperature control**  
Can control the temperature in a digital way proportion.
- **Volume control**  
Can control the volume of water in a digital way in liters per minute.
- **Pause**  
Remembers water temperature and flow that the user was using before shampooing.
- **Device Set-Up**  
Set up parameters such as temperature, flow and time of your device.
- **Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- **Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- **Connectivity**  
Optional model with WIFI-bluetooth to control functionalities with an app
- **Safety closed**  
In case of power outage, the system closes automatically.
- **Multiple activation**  
Handles and prioritizes inputs from different sensors and systems.
- **Leakage Detection**  
Detects small leakages of the system.
- **Thermal Desinfection**  
Thermal disinfection in all shower outlets
- **Auto cleaning**  
Water is flushed through all outlets to avoid lime scale.
- **Outlet**  
Electronic Water Valve with one outlet and one additional outlet thanks to an external valve.
- **Anti-Scalding**  
Anti-scalding safety warning when using the faucet.
- **Warm-Up**  
Preheats the shower by flushing out water until the desired pre-set temperature is reached.
- **User profiles**  
Store preferred settings of temperature, flow for 3 different users.

## Technical Specifications

General	
Maximum load	≤22W (Stand-by ≤1W) *(1)
Rated impulse Voltage	12 V DC
Hydraulic connections	G1/2, G3/8, 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
Maximum inlet temperature	65°C *(2)
Minimum inlet temperature	>0°C
Mixed range	Full Cold – 44 °C *(3)

Pressure	
Maximum dynamic	5 bar (0.5Mpa)
Minimum dynamic	1,5 bar (0.1Mpa)
Recommended dynamic	3 bar (0.3Mpa)
Maximum differential supply	1.5 bar (0.15Mpa)
Burst	>35 bar (3.5Mpa)

Flow rate (3 bar free flow with diverter DN13)	
Mixed water free flow	4 l/min - 24 l/min
Full Cold or Full Hot water free flow	4 l/min - 13.3 l/min
Mixed free flow + diverter	4 l/min - 22.3 l/min
Full Cold or Full Hot free flow + diverter	4 l/min - 13.1 l/min

\*(1) Without deviator. With Sedal deviator ≤22 W (Stand-by ≤1W)  
\*(2) Up to 80 °C less than 20 min  
\*(3) Configurable up to Full Hot on OEM demand

# Advantages

- Thermostatic and volume control**

The device can control Flow rate and temperature in a thermostatic digital way. It can control the temperature in degrees and the flow rate in liters per minute.
- Connectivity (Optional)**

Optionally, the device can be connected to read information and control the product remotely with S-Flow app. As the device has multiple sensors can send information about the temperature, flow rate, volumes, time etc.
- Digital interface priority managment**

The device can manage multiple interfaces or sensors and control the priority between them according the manufacturer needs or the application, allowing a high flexible and innovative solutions that can't be done with a traditional system.
- Alarms detection**

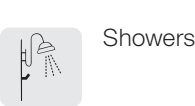
The device can inform through the interface or via APP about the alarms of the system or installation to solve problems more quickly.
- Voice Assistance (Optional)**

Using the APP, the system can be connected to a voice control assistant. Is compatible with Google Assistant and Amazon Alexa.
- Open protocol**

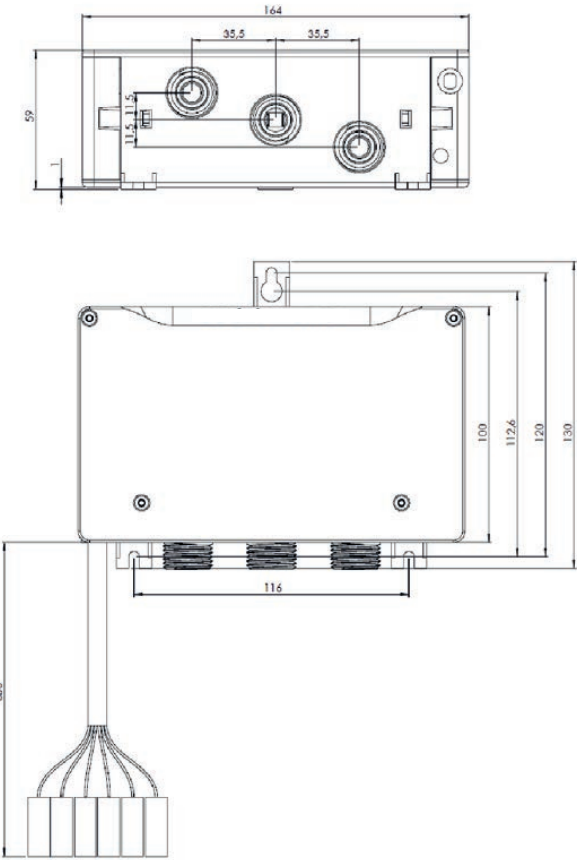
The communications port to connect the interface or the communications module Wi-Fi & Bluetooth uses MODBUS RTU standard open protocol to allow manufacturers to develop his own interfaces and modules to control the device without limits.
- OEM Customisation (Optional)**

All settings can be modified under manufacturer request.

# Recomended Applications



## Dimensions



## Certifications - Ready for

- ACS
- WRAS
- KTW/  
W270
- NSF61

# T1 Class II

## Thermostatic Mixer Electronic Water Valve

### Versions

	AC	AC/DC
Interface 1 Outlet	27EV010022	27EV010024
Interface & Wifi 1 Outlet	27EV010025	27EV010026
Interface 2 Outlet	27EV010027	27EV010029
Interface & Wifi 2 Outlet	27EV010025	27EV010026
Interface 2 Outlet	27EV010027	27EV010029
Interface & Wifi 2 Outlet	27EV010025	27EV010026





















T1 Shower Class II  
Electronic Water Valve

### Description

T1 The T1 electronic water valve is a thermostatic mixer “CLASS II” valve designed to be connected to an interface to digitally control water temperature and flow rate for showers and kitchen faucets. It offers several options, including battery backup, infrared sensor compatibility, Wi-Fi or Bluetooth connectivity, outlet control, and special functions to add new features. The shower version can operate with 1 to 3 outlets, with 2 outlets running simultaneously when using an external diverter box.

### Features

- **Temperature control**  
Can control the temperature in a digital way proportion.
- **Volume control**  
Can control the volume of water in a digital way in liters per minute.
- **Pause**  
Remembers water temperature and flow that the user was using before shampooing.
- **Device Set-Up**  
Set up parameters such as temperature, flow and time of your device.
- **Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- **Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- **Connectivity**  
Optional model with WIFI-bluetooth to control functionalities with an app
- **Safety closed**  
In case of power outage, the system closes automatically.
- **Multiple activation**  
Handles and prioritizes inputs from different sensors and systems.
- **Battery operated**  
Powered by AC and AC/DC sources.
- **Water dispensing timer**  
Set-up a timer for automatic glass and pot filling.
- **Leakage Detection**  
Detects small leakages of the system.
- **Thermal Desinfection**  
Thermal disinfection in all shower outlets
- **Auto cleaning**  
Water is flushed through all outlets to avoid lime scale.
- **Outlet**  
Electronic Water Valve with one outlet and one additional outlet thanks to an external valve.
- **Anti-Scalding**  
Anti-scalding safety warning when using the faucet.
- **Warm-Up**  
Preheats the shower by flushing out water until the desired pre-set temperature is reached.
- **User profiles**  
Store preferred settings of temperature, flow for 3 different users.

### Technical Specifications

General		Pressure	
Maximum load	≤22W (Stand-by ≤1W) <sup>*(1)</sup>	Maximum dynamic	5 bar (0.5Mpa)
Rated impulse Voltage	12 V DC	Minimum dynamic	1 bar (0.1Mpa)
Hydraulic connections	G1/2" & 3/8" M-GAS, John Guest <sup>*(2)</sup>	Recommended dynamic	3 bar (0.3Mpa)
Weight	0.4 Kg	Maximum differential supply	1.5 bar (0.15Mpa)
		Burst	>35 bar (3.5Mpa)
Temperature		Flow rate (3 bar free flow with diverter DN13)	
Recommended Input hot water range	48°C - Max.65°C	Mixed water free flow	Min. 4 l/min - Max. 24 l/min
Recommended Input cold water range	5°C - Max.28°C	Full Cold or Full Hot water free flow	Min. 4 l/min - Max. 13.3 l/min
Maximum inlet temperature	65°C <sup>*(3)</sup>	Mixed free flow + diverter	Min. 4 l/min - Max. 22.3 l/min
Minimum inlet temperature	>0°C	Full Cold or Full Hot free flow + diverter	Min. 4 l/min - Max. 13.1 l/min
Mixed range	Full Cold – 44 °C <sup>*(4)</sup>		

<sup>\*(1)</sup> Without deviator. With Sedal deviator ≤22 W (Stand-by ≤1W)  
<sup>\*(2)</sup> Under demand  
<sup>\*(3)</sup> Up to 80 °C less than 20 min  
<sup>\*(4)</sup> Configurable up to Full Hot on OEM demand

# Advantages

- Thermostatic and volume control**

The device can control Flow rate and temperature in a thermostatic digital way. It can control the temperature in degrees and the flow rate in liters per minute.
- Battery Backup (Optional)**

The device has the possibility to add a battery backup to work when there are a power outage.
- Connectivity (Optional)**

Optionally, the device can be connected to read information and control the product remotely with S-Flow app. As the device has multiple sensors can send information about the temperature, flow rate, volumes, time etc.
- Digital interface priority managment**

The device can manage multiple interfaces or sensors and control the priority between them according the manufacturer needs or the application, allowing a high flexible and innovative solutions that can't be done with a traditional system.
- Alarms detection**

The device can inform through the interface or via APP about the alarms of the system or installation to solve problems more quickly.
- Voice Assistance (Optional)**

Using the APP, the system can be connected to a voice control assistant. Is compatible with Google Assistant and Amazon Alexa.
- Open protocol**

The communications port to connect the interface or the communications module Wi-Fi & Bluetooth uses MODBUS RTU standard open protocol to allow manufacturers to develop his own interfaces and modules to control the device without limits.
- OEM Customisation (Optional)**

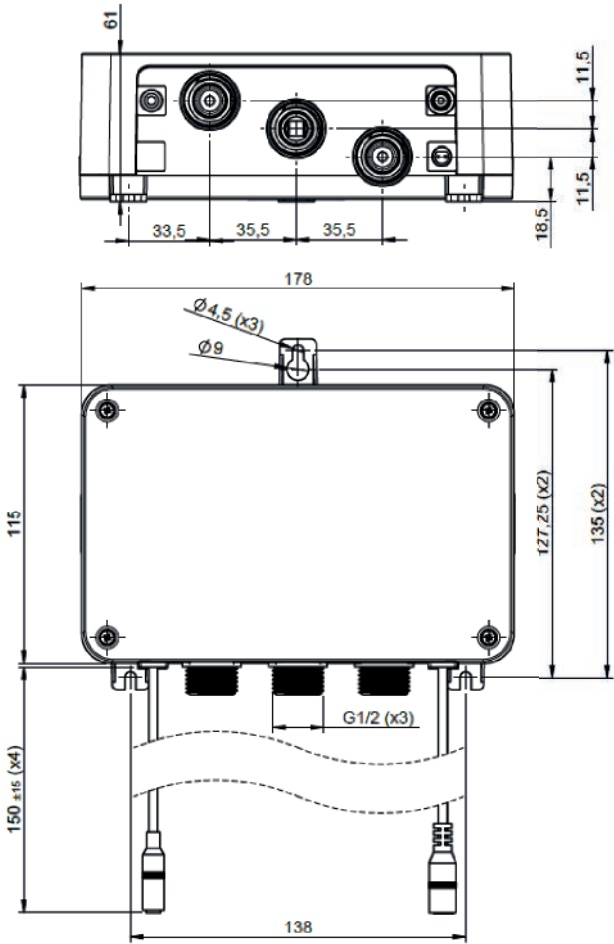
All settings can be modified under manufacturer request.

# Recomended Applications



Showers

# Dimensions



# Certifications - Ready for

- ACS
- WRAS
- KTW/  
W270
- NSF61

# T2 Class I

## Thermostatic Mixer Electronic Water Valve

### Versions

	References
2 Outlets	27EV007001
3 Outlets	27EV007002
4 Outlets	27EV007003
Wi-Fi module	27EI000039


















### Description

T2 electronic water valve is a thermostatic mixer “CLASS I” valve to be connected to an interface and control the water temperature and flow rate in a digital way for showers. It has several options like: Wi-Fi or Bluetooth connectivity, outlets control and special functions to add new functionalities. Can work from 2 to 4 outlets with 2 outlets simultaneous with internal diverter.



T2 Shower Class I  
Electronic Water Valve

### Features

- **Temperature control**  
Can control the temperature in a digital way proportion.
- **Volume control**  
Can control the volume of water in a digital way in liters per minute.
- **Pause**  
Remembers water temperature and flow that the user was using before shampooing.
- **Device Set-Up**  
Set up parameters such as temperature, flow and time of your device.
- **Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- **Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- **Connectivity**  
Optional model with WIFI-bluetooth to control functionalities with an app
- **Safety closed**  
In case of power outage, the system closes automatically.
- **Multiple activation**  
Handles and prioritizes inputs from different sensors and systems.
- **Smart Bath Fill**  
Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.
- **Leakage Detection**  
Detects small leakages of the system.
- **Thermal Desinfection**  
Thermal disinfection in all shower outlets
- **Auto cleaning**  
Water is flushed through all outlets to avoid lime scale.
- **4 OUT**  
Electronic Water Valve with one outlet and one additional outlet thanks to an external valve.
- **Anti-Scalding**  
Anti-scalding safety warning when using the faucet.
- **Warm-Up**  
Preheats the shower by flushing out water until the desired pre-set temperature is reached.
- **User profiles**  
Store preferred settings of temperature, flow for 3 different users.

### Technical Specifications

General	
Maximum load	≤36W (Stand-by ≤1W)
Rated impulse Voltage	12 V DC
Hydraulic connections	G1/2" & 3/8" M-GAS, John Guest <sup>(1)</sup>
Weight	1,5 Kg
Temperature	
Recommended Input hot water range	Min. 48°C - Max.65°C
Recommended Input cold water range	Min.5°C - Max.28°C
Maximum inlet temperature	65°C <sup>*(2)</sup>
Minimum inlet temperature	>0°C
Mixed range	Full Cold – 44 °C <sup>*(3)</sup>

Pressure	
Maximum dynamic	6 bar (0.6Mpa)
Minimum dynamic	0,5 bar (0.15Mpa)
Recommended dynamic	3 bar (0.3Mpa)
Maximum differential supply	1.5 bar (0.15Mpa)
Burst	>30 bar (3.5Mpa) <sup>*(4)</sup>

Flow rate (3 bar free flow DN13)	
Mixed water free flow 2 Outlet	6 - 28 l/min
Full Cold or Hot water free flow 2 Outlet	4 - 16.2 l/min
Mixed water free flow 3 Outlets	6 - 29,5 l/min
Full Cold or Hot water free flow 3 Outlets	4 - 16.2 l/min

<sup>\*(1)</sup> Under demand  
<sup>\*(2)</sup> Up to 80 °C less than 20 min  
<sup>\*(3)</sup> Configurable up to Full Hot on OEM demand  
<sup>\*(4)</sup> Modifiable for 35bar (3.5Mpa)

# Advantages

- Thermostatic and volume control**

The device can control Flow rate and temperature in a thermostatic digital way. It can control the temperature in degrees and the flow rate in liters per minute.
- Connectivity (Optional)**

Optionally, the device can be connected to read information and control the product remotely with S-Flow app. As the device has multiple sensors can send information about the temperature, flow rate, volumes, time etc.
- Alarms detection**

The device can inform through the interface or via APP about the alarms of the system or installation to solve problems more quickly.
- Voice Assistance (Optional)**

Using the APP, the system can be connected to a voice control assistant. Is compatible with Google Assistant and Amazon Alexa.
- Open protocol**

The communications port to connect the interface or the communications module Wi-Fi & Bluetooth uses MODBUS RTU standard open protocol to allow manufacturers to develop his own interfaces and modules to control the device without limits.
- OEM Customisation (Optional)**

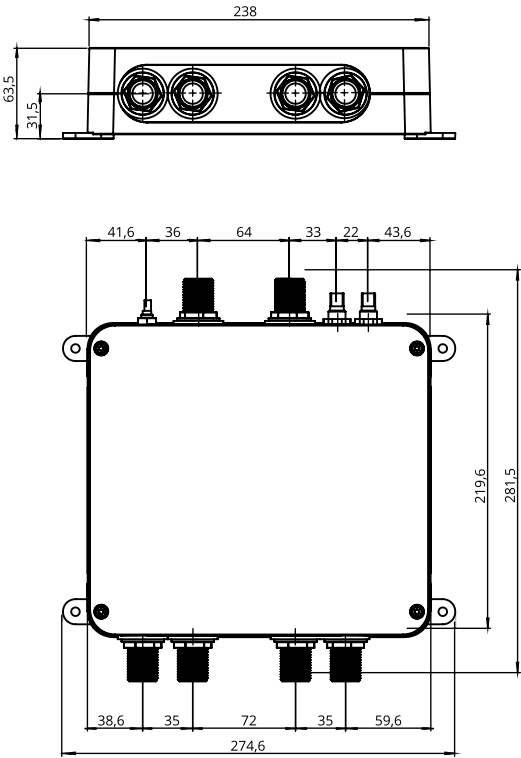
All settings can be modified under manufacturer request.

# Recomended Applications



Showers

## Dimensions



## Certifications - Ready for

- ACS
- WRAS
- KTW\*
- CE
- UL
- NSF\*



# T2 Class II

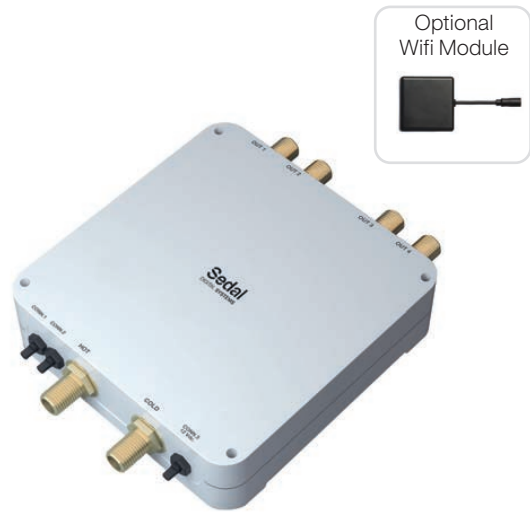
## Thermostatic Mixer Electronic Water Valve

### Versions

	References
4 Outlets	27EV011003
3 Outlets	27EV011002
2 Outlets	27EV011001
Wi-Fi module	27EI000039

### Description

T2 electronic water valve is a thermostatic mixer “CLASS II” valve to be connected to an interface and control the water temperature and flow rate in a digital way for showers. It has several options like: Wi-Fi or Bluetooth connectivity, outlets control and special functions to add new functionalities. Can work from 2 to 4 outlets with 2 outlets simultaneous with internal diverter.



T2 Shower Class II  
Electronic Water Valve

### Features

- Temperature control**  
Can control the temperature in a digital way proportion.
- Volume control**  
Can control the volume of water in a digital way in liters per minute.
- Pause**  
Remembers water temperature and flow that the user was using before shampooing.
- Device Set-Up**  
Set up parameters such as temperature, flow and time of your device.
- Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- Connectivity**  
Optional model with WIFI-bluetooth to control functionalities with an app
- Safety closed**  
In case of power outage, the system closes automatically.
- Multiple activation**  
Handles and prioritizes inputs from different sensors and systems.
- Smart Bath Fill**  
Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.
- Leakage Detection**  
Detects small leakages of the system.
- Thermal Desinfection**  
Thermal disinfection in all shower outlets
- Auto cleaning**  
Water is flushed through all outlets to avoid lime scale.
- 4 Outlet**  
Electronic Water Valve with one outlet and one additional outlet thanks to an external valve.
- Anti-Scalding**  
Anti-scalding safety warning when using the faucet.
- Warm-Up**  
Preheats the shower by flushing out water until the desired pre-set temperature is reached.
- User profiles**  
Store preferred settings of temperature, flow for 3 different users.

### Technical Specifications

General	
Maximum load	≤36W (Stand-by ≤1W)
Rated impulse Voltage	12 V DC
Hydraulic connections	G1/2" & 3/8" M-GAS, John Guest <sup>(1)</sup>
Weight	1,5 Kg

Temperature	
Recommended Input hot water range	Min. 48°C - Max.65°C
Recommended Input cold water range	Min.5°C - Max.28°C
Maximum inlet temperature	65°C <sup>*(2)</sup>
Minimum inlet temperature	>0°C
Mixed range	Full Cold – 44 °C <sup>*(3)</sup>

Pressure	
Maximum dynamic	6 bar (0.6Mpa)
Minimum dynamic	0,5 bar (0.15Mpa)
Recommended dynamic	3 bar (0.3Mpa)
Maximum differential supply	1.5 bar (0.15Mpa)
Burst	>35 bar (3.5Mpa)

Flow rate (3 bar free flow with diverter DN13)	
Mixed water free flow 1 Outlet	4 - 31 l/min
Full Cold or Hot water free flow 1 Outlet	4 - 16.2 l/min
Mixed water free flow 2 Outlets	4- 29,5 l/min
Full Cold or Hot water free flow 2 Outlets	4 - 16.2 l/min

<sup>\*(1)</sup> Under demand  
<sup>\*(2)</sup> Up to 80 °C less than 20 min  
<sup>\*(3)</sup> Configurable up to Full Hot on OEM demand



# Advantages

- Thermostatic and volume control**

The device can control Flow rate and temperature in a thermostatic digital way. It can control the temperature in degrees and the flow rate in liters per minute.
- Connectivity (Optional)**

Optionally, the device can be connected to read information and control the product remotely with S-Flow app. As the device has multiple sensors can send information about the temperature, flow rate, volumes, time etc.
- Alarms detection**

The device can inform through the interface or via APP about the alarms of the system or installation to solve problems more quickly.
- Voice Assistance (Optional)**

Using the APP, the system can be connected to a voice control assistant. Is compatible with Google Assistant and Amazon Alexa.
- Open protocol**

The communications port to connect the interface or the communications module Wi-Fi & Bluetooth uses MODBUS RTU standard open protocol to allow manufacturers to develop his own interfaces and modules to control the device without limits.
- OEM Customisation (Optional)**

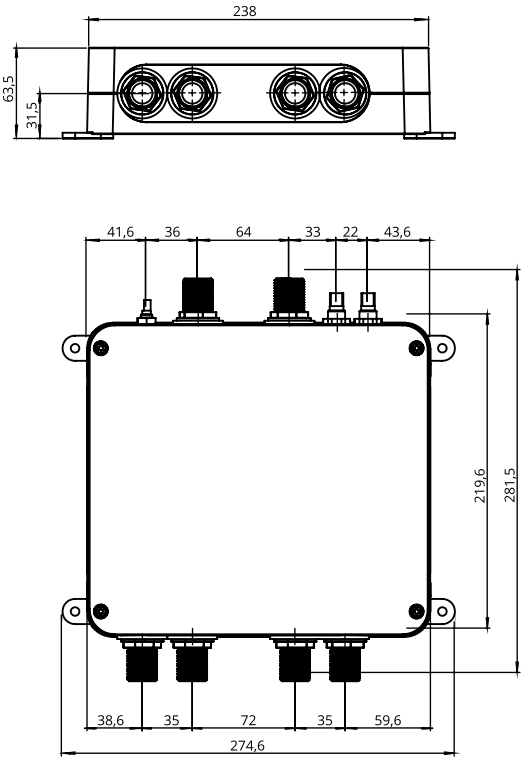
All settings can be modified under manufacturer request.

# Recomended Applications



Showers

## Dimensions



## Certifications - Ready for

- ACS
- WRAS
- KTW\*
- CE
- UL
- NSF\*



Electronic Water Valve

Versions

	AC	DC	AC/DC
G1/2 – S1,S5,S6	27EV000002	27EV000013	27EV000014
SPOUT – S8,S9	27EV000060	27EV000059	27EV000055
SPOUT – S7	27EV000057	27EV000056	27EV000058
Non - adjustable	27EV000002	27EV000001	27EV000003
	27EV000024	27EV000023	27EV000025



H1 Bathroom  
Electronic Water Valve

Description

H1 electronic water valve is a one inlet valve compatible with sensors for bathroom applications. It has several options like: distance adjustment, battery power, power supply or both at the same time.

Features

- 

**Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.
- 

**Safety closed**  
In case of power outage, the system closes automatically.
- 

**Infra-Red**  
Compatible with IR sensors
- 

**Distance adjustment**  
As option, final user can adjust the detection distance with a setup button
- 

**Battery operated**  
Powered by AC and AC/DC sources.
- 

**Low power consumption**  
Long battery life thanks to it's consumption hardware
- 

**Auto cleaning**  
Water is flushed through all outlets to avoid lime scale.

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 (Class A)	10.8 l/min
Sensor activation time	<1s
Protection against intrusion (control box)	IP 65
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

# Advantages

**Low presure compatibility**  
The device is compatible with low pressure applications.

**Box for protection**  
All components integrated in one box to protect the full system.

**Detection distance adjustment by user (Optional)**  
The detection distance of the sensor can be adjusted with the setup button built in the box.

**Fittings material**  
Optional fittings with brass or inox.

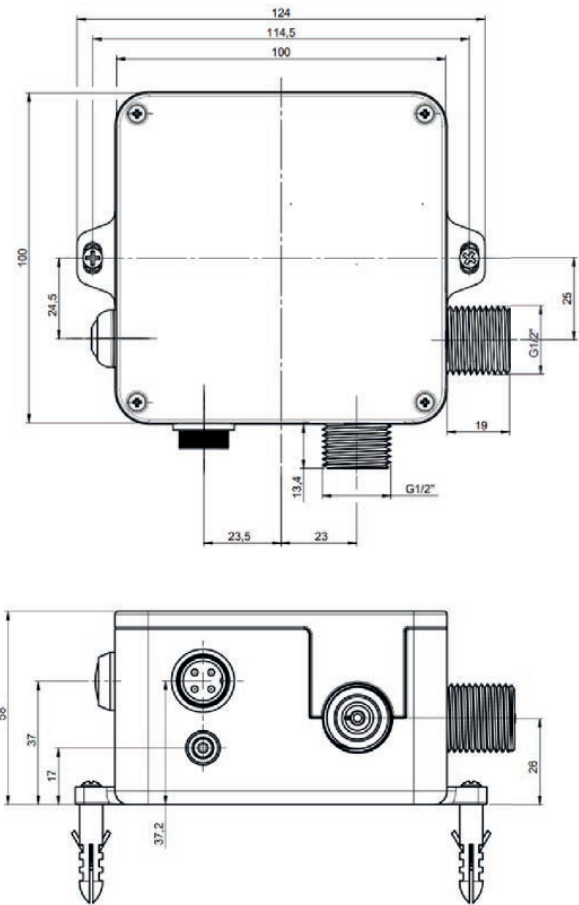
**Water hammer valve**  
Valve compatible with water hammer norms.

# Recomended Applications



Bathroom

# Dimensions



# Certifications - Ready for

- KTW/  
W270
- WRAS
- NSF61
- ACS



Electronic Water Valve

Versions

	AC/DC	AC/DC - 4MS
Brass 80° - S13C	27ES000073	27ES000078
Brass 80° - S1C	27ES000081	
Bass 90° - S1C	27ES000080	
Brass 90° - S3C	27ES000071	27ES000077
Plastic 60° - S14C	27ES000072	27ES000083
Plastic 90° - S3C	27ES000070	27ES000084



H2 Bathroom  
Electronic Water Valve

Description

H2 electronic water valve is a two inlet valve compatible with sensors for bathroom applications with a temperature selector. It has several options like: distance adjustment, battery power, power supply or both at the same time.

Features



**Automatic Shut-off**  
Shower shuts off automatically after a limited period of time.



**Safety closed**  
In case of power outage, the system closes automatically.



**Infra-Red**  
Compatible with IR sensors



**Integrated body**  
No need of external valve



**Battery operated**  
Powered by AC and AC/DC sources.



**Low power consumption**  
Long battery life thanks to it's low consumption hardware



**Water Mixer**  
Temperature selector temperature adjustment during the use



**Easy Instalation**  
No need of special tools to instal

Technical Specifications

General	
Angle of the faucet body with the horizontal	80°
Pre-adjusted detection distance	28±2cm
Rated Impulse voltage	6 V DC
Maximum power	≤4 W
Standby power	≤0,2 mW
Hydraulic connections	M10

Temperature	
Recommended Input hot water range	Min. 5°C - Max.65°C
Maximum inlet temperature	75°C
Minimum inlet temperature	>5 °C

Pressure	
Limits of use	Min.0,5 bar (0.05 MPa) - Max 10 bar (1 MPa)
Recommended limits of operation	Min.1 bar (0.1 MPa) - Max.8 bar (0,8 MPa)
Recommended pressure	3 bar (0,3 MPa)
Burst (closed valve)	>35 bar (3.5Mpa)

Flow rate @ 3 bar	DN8, without aerator
Mixed water	10,7 l/m

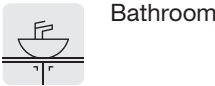
# Advantages

**Integrated body**  
The device is compatible with low pressure applications,

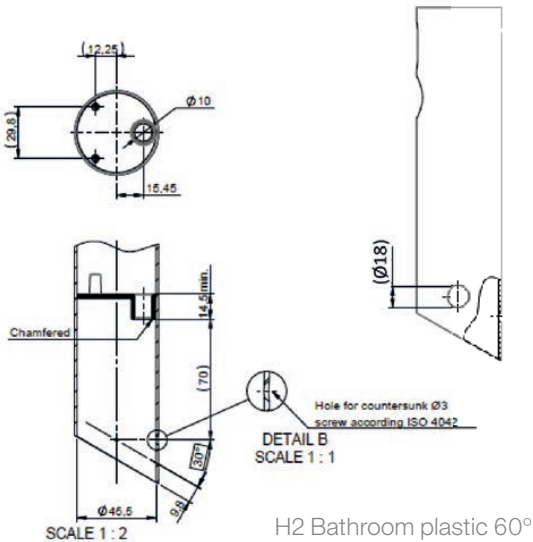
**Temperture selector**  
The device include a temperature selector to allow the end user to select the temperature while use.

**Easy to install**  
As is integrated inside the faucet, the system is easy and fast to install for a qualified plumber.

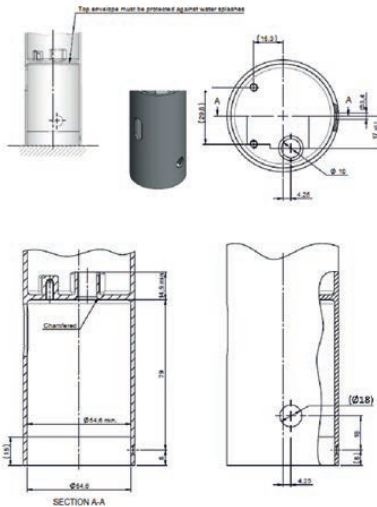
# Recomended Applications



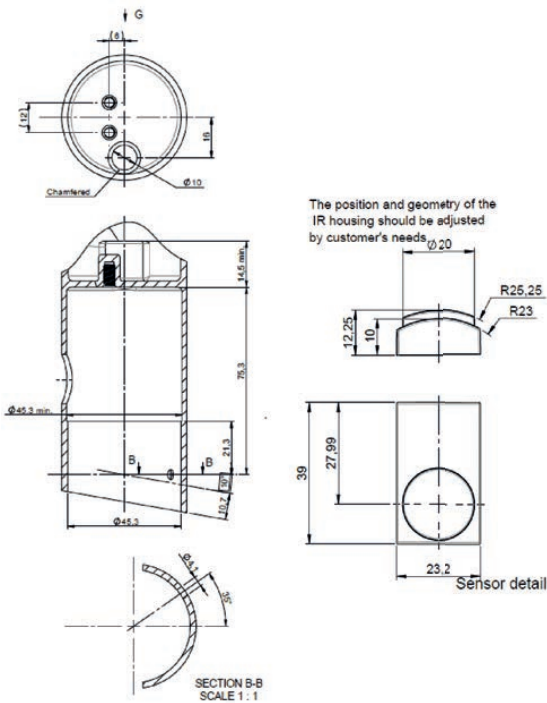
# Dimensions



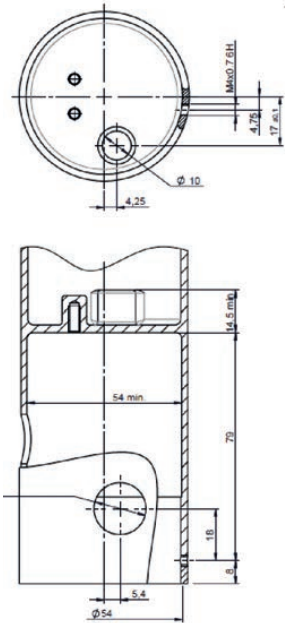
H2 Bathroom plastic 60°



H2 Bathroom core plastic 90°



H2 Bathroom core brass 80°



H2 Bathroom core brass 90°

H3

Electronic Water Valve

Versions

	Brass	Plastic
AC/DC	27EG004003	27EG004008
AC	27EG004002	27EG004007
DC	27EG004001	27EG004006

Description

Highly efficient and economic solution for urinals packed with advanced technologies to save water with minimal maintenance while using a very low amount of energy.



H3 Bathroom  
Electronic Water Valve

Features



**Water Saving**  
Intelligent flush system with adjustable flush times.



**Battery operated**  
Powered by AC and AC/DC sources.



**Power cut available**  
In the event of power failure, this product will automatically switch to battery power.



**Low power consumption**  
Long battery life thanks to it's low consumption hardware



**Tap Seal Protection**  
If not used ,it will flush automatically every 24 hours to avoid the odor returning once the trap dries.



**Intelligent**  
Self adjusting flush detection system as well as anti-light and antiultraviolet rays functions.



**Infra-Red**  
Compatible with IR sensors

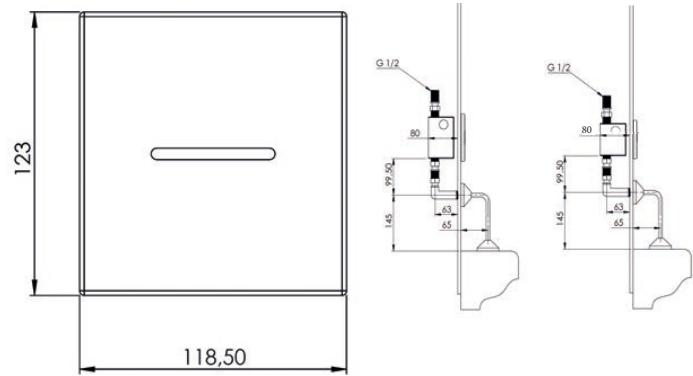


**Hygienic**  
Hands free operation therefore limits the spread of germs and bacteria.

Technical Specifications

General	
Power supply	AC: 220-240V; 50/60Hz DC: 4AA alkaline battery
Power consumption	≤ 0.3MV
Activation time	≤ 2s.
Water pressure	0.5-7 Bar
Sensing range	75-80 cm
Temperature	0.1-45oC
Inlet diameter	G (1/2)"
Outlet diameter	G (1/2)"

Dimensions



# Electronic Water Valves



# Interfaces

Sedal has developed a full range of digital interfaces, that paired with our electronic water valves, provide a more user-friendly and personalized setups to enjoy a unique and refined experience.

Based on the extended knowledge that we have engineering cartridges, we have achieved the excellence cartridge: the iTOP Digital Cartridge

*iTOP Digital Cartridge, with clicks & iHandle*



5 Products  
3 Categories



# Interfaces

## Digital Showers



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# iPlus 1

## Digital Shower

### Recomended Applications



Showers

### Certifications - Ready for

CE

UL

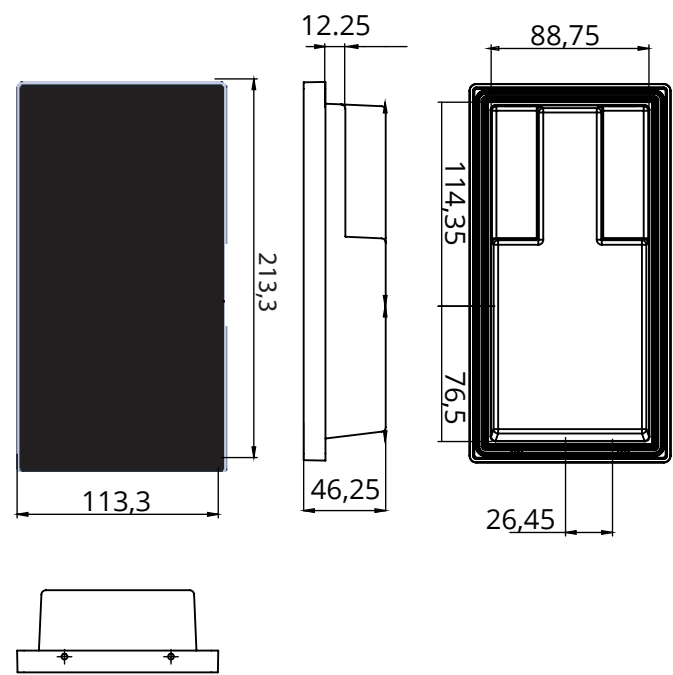


iPLUS 1  
Interface

### Technical Specifications

General	
Technology	Capacitive
Maximum load	≤1,5 W
Ingress Protection Rating	IP65
Number of buttons	8
Communications ports	1
Protocol	Modbus RTU standard
Communication Physical layer	RS-485
Connectors	1 x 4 way connector
Front	PMMA PLEXIGLASSXTAR
Anti- Scratch treatment	Yes
Touch splashing protection	Yes
Sustained push control	Yes
Temperature color indicator	Yes
Enviromental conditions	
Ambient temperature	Min. 5°C - Max 60°C
Relative humidity	Min.30% - Max 95%
Temperature	
Unit of measure	Celsius
Cold water indicator	Blue led indicator
Hot water indicator	Red led indicator
Flow Rate	
Unit of measure	l/min

### Dimensions



# iPlus 2

## Digital Shower

### Recomended Applications



Showers

### Certifications - Ready for

CE

UL



IPLUS 2  
Interface

### Technical Specifications

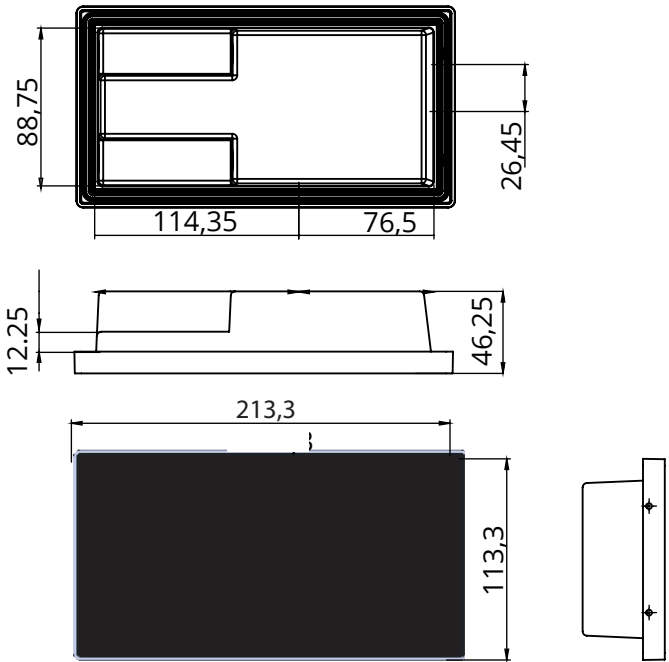
General	
Technology	Capacitive
Maximum load	≤1,5 W
Ingress Protection Rating	IP65
Number of buttons	8
Communications ports	1
Protocol	Modbus RTU standard
Communication Physical layer	RS-485
Connectors	1 x 4 way connector
Front	PMMA PLEXIGLASSXTAR
Anti- Scratch treatment	Yes
Touch splashing protection	Yes
Sustained push control	Yes
Temperature color indicator	Yes

Enviromental conditions	
Ambient temperature	Min. 5°C - Max 60°C
Relative humidity	Min.30% - Max 95%

Temperature	
Unit of measure	Celsius
Cold water indicator	Blue led indicator
Hot water indicator	Red led indicator

Flow Rate	
Unit of measure	l/min

### Dimensions




# iPlus 3

## Digital Shower

### Versions

2 Outlets	27EI008010
3 Outlets	27EI008004

### Recomended Applications



Showers

### Certifications - Ready for

CE

UL

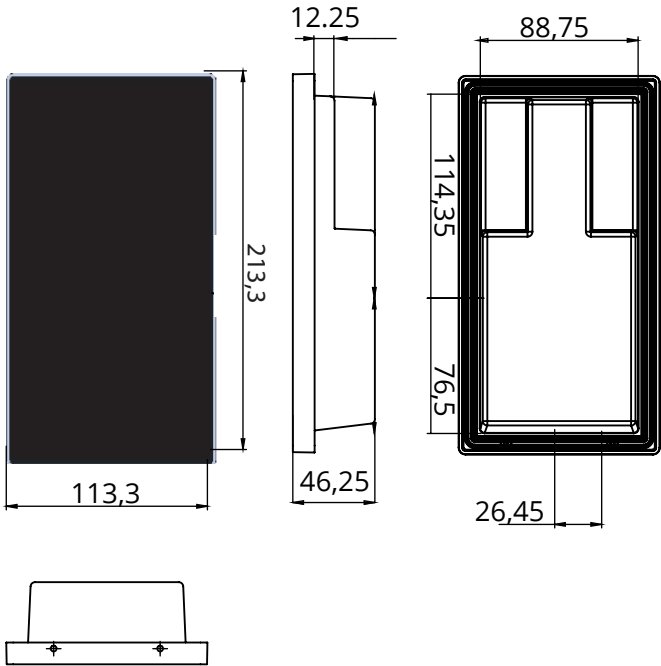
### Technical Specifications

General	
Technology	Capacitive
Maximum load	≤1,5 W
Ingress Protection Rating	IP65
Number of buttons	8
Communications ports	1
Protocol	Modbus RTU standard
Communication Physical layer	RS-485
Connectors	1 x 4 way connector
Front	PMMA PLEXIGLASSXTAR
Anti- Scratch treatment	Yes
Touch splashing protection	Yes
Sustained push control	Yes
Temperature color indicator	Yes
Enviromental conditions	
Ambient temperature	Min. 5°C - Max 60°C
Relative humidity	Min.30% - Max 95%
Temperature	
Unit of measure	Celsius
Cold water indicator	Blue led indicator
Hot water indicator	Red led indicator
Flow Rate	
Unit of measure	l/min



iPLUS 3  
Interface

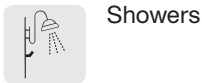
### Dimensions



# iSquare

## Digital Shower

### Recomended Applications

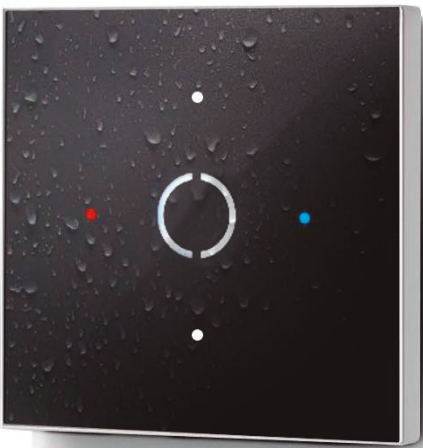


### Certifications - Ready for



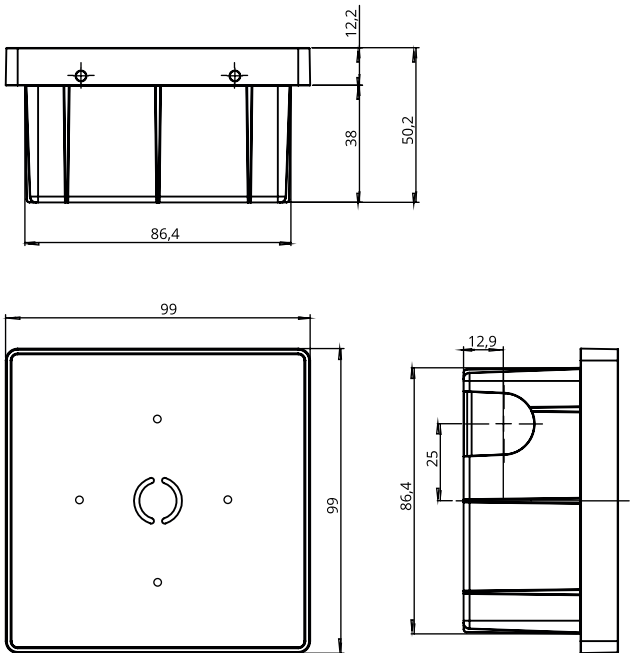
### Technical Specifications

General	
Technology	Membrane
Maximum load	≤1W
CPU Input voltage	12VDC
Ingress Protection Rating	IP65
Number of buttons	5
Communications ports	1
Protocol	Modbus RTU standard
Communication Physical layer	RS-485
Connectors	1 x 4 way connector
Front	HPxxW FILM
Touch splashing protection	Yes
Sustained push control	Yes
Enviromental conditions	
Ambient temperature	Min. 5°C - Max 60°C
Relative humidity	Min.30% - Max 95%



iSQUARE 1  
Interface

### Dimensions



# MOZAIC

Digital Shower System Interface design program by Sedal that allows manufacturers to develop a UI in record time with little investment.

Combining pre-designed components in a free canvas, it is possible to virtually design any combination and have a customized interface for your new shower projects.



## Configure your own MOZAIC

**Different shapes of housing:** choose between vertical, horizontal or square.

**Variety of colors:** we adapt the background of the panel to the color you want.

**Different components:** select the components that you want your digital shower system to have.

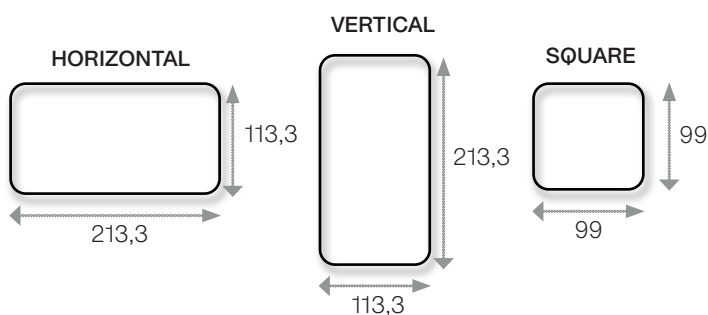
**Choose your final style:** do you want it light and elegant or more powerfull? classic or modern?

**Certifications:** what certifications do you need? we make sure you got them!

### Different shapes of housing

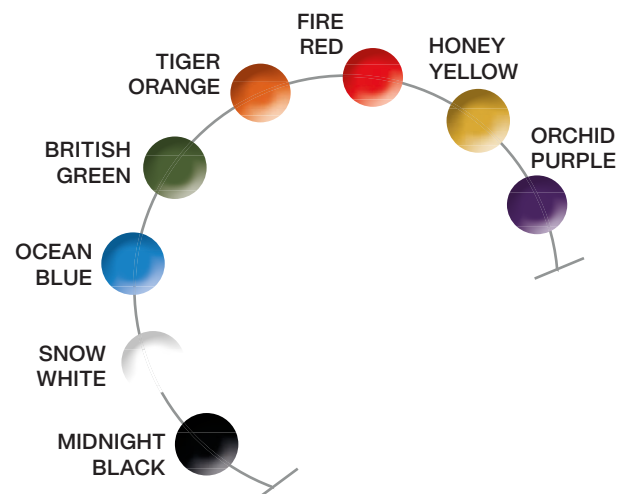
Select between three different **shapes of housing**: horizontal, vertical or square.

Additionally, choose among different trim colors.



### Variety of colors

Snow White, Midnight Black, Ocean Blue, Fire Red, British Green, Honey Yellow, Tiger Orange or Orchid Purple are some of the colors that you can select **for the panel of your digital shower system** and that you can combine with the available trims.



# Select components and functionality

Up to **five different components to choose** from to configure the different smart shower options.



### Button

Multi purpose capacitive button with RGB lighting. For functions like ON/ OFF, selector, confirmation...



### Dots

Modern LED dot matrix that displays different types of data like temperature, water flow, status...



### IHandle

Classic handle interface that works with our iTOP digital cartridge with display.



### TFT Screen

Advanced TFT display with customizable faces for detailed information delivery



### iTOP

Digital cartridge that moves in a similar way than a mechanical valve converting movement to digital informations.

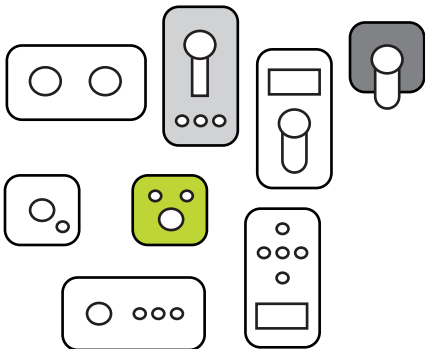


### Knob

Rotary device that transforms the angle selection into digital information to operate a digital mixer.

## Endless Combination

Make it simple, classic, sophisticated... Our digital Shower interface program is flexible enough to cope with the needs of most shower designs to become the star of all bathrooms.



## Electronic Certification

Finally, selected the end configuration of the display, would be needed to perform the electronic certification of the full display finished. **NOW YOU HAVE YOUR OWN DIGITAL SHOWER SYSTEM!**

# iRound1

## Digital Rotatives

### Versions

	M1	T1
With knob	27EI001020	27EI001026
Without knob	27EI001021	27EI001027

### Recomended Applications



Kitchen faucet



Bathroom



iRound1  
Interface

### Description

When paired with SEDAL’s Mixing Electronic Water Valve (M1, T1), this digital rotary knob offers seamless operation, featuring one-touch ON-OFF control and precise temperature and flow adjustment with a simple turn.

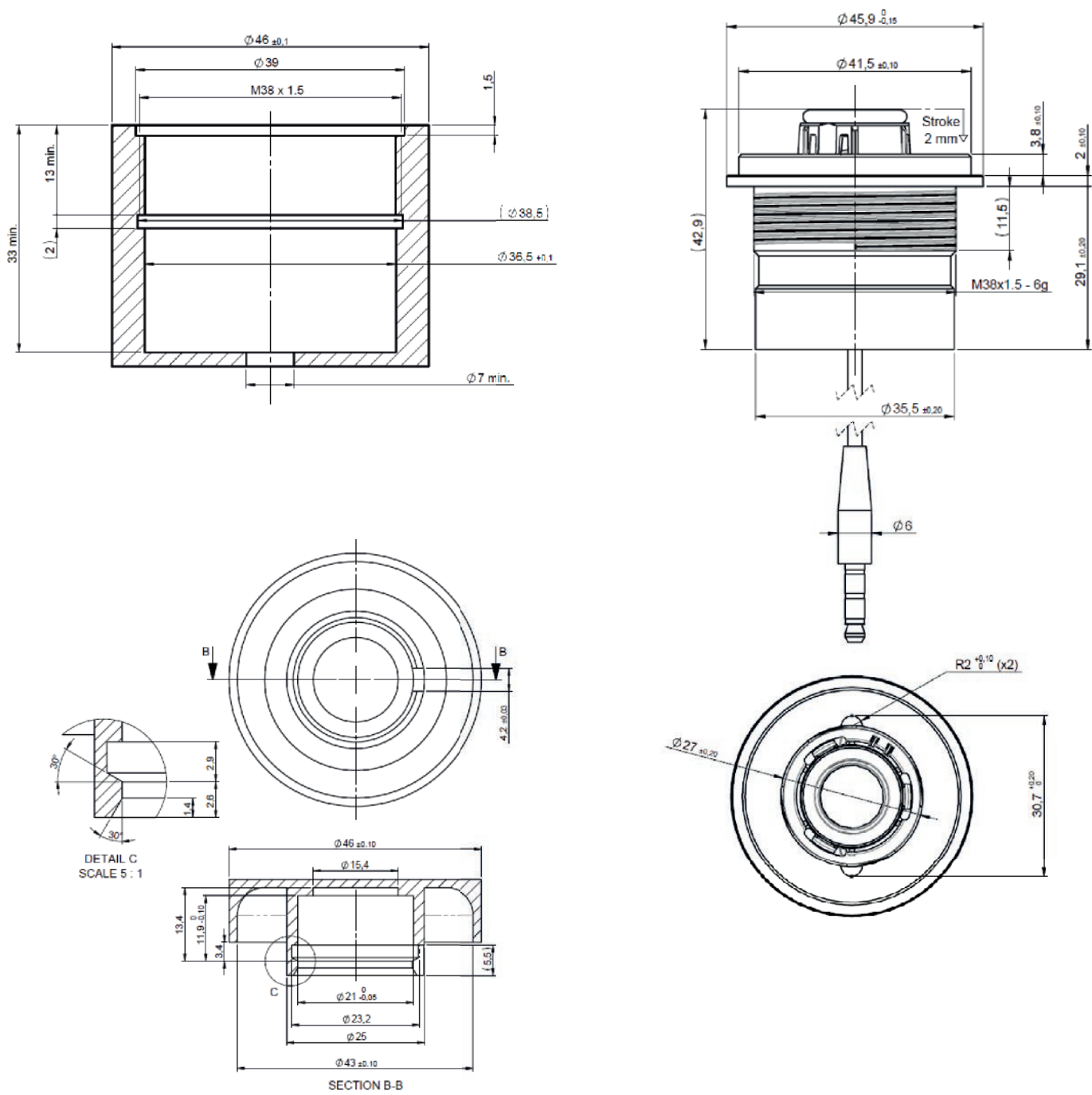
A customizable illuminated ring surrounds the interface, delivering dynamic color effects and real-time feedback for an enhanced user experience.

### Technical Specifications

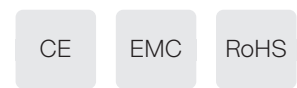
General	
Operating torque	0,02-0,05 Nm
Pressing force	4-6 N
Button Stroke	2mm
Life cycle test	200k ON-OFF cycles 70k turning cycles
Mounting thread	M38 x 1,5
Tightening Torque (Product to Faucet)	1,5 Nm
Extraction load knob	27±5 N
Waterproof protection	YES
Connector	Jack Plug Ø 3,5 mm (4 pins)
Input Voltage	12V DC
Communication protocol	Modbus RTU standard
Communication Physical layer	RS-485



# Dimensions



# Certifications - Ready for



# iTOP 25 mm

## Digital Cartridge

### Versions

	M1
H47,6	48EN25S0001
H48,1	48EN25S0002

### Description

iTOP 25, a revolutionary electronic cartridge that allows the user to customize the special features of the faucet via app.



iTOP 25mm  
Interface

### Features



**Connectivity**  
Optional model with  
WIFI-bluetooth to control  
functionalities with an app



**Super-Eco mode**  
The valve is able to work in very  
low Flow rates according ECO  
regulations.



**Alarm**  
It activates when the system  
detects a problem.



**App control**  
The user can control the  
functions of the faucet via app.

### Technical Specifications

General	
Power consumption	≤6 W (Stand-by ≤1W)
Rated voltage	12VDC
Nut torque Brass, M27x1,25	7-8 Nm
General	
Operation torque	0,15-0,30 Nm
Life cycle	EN-817 ASME A112.18.1

# 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

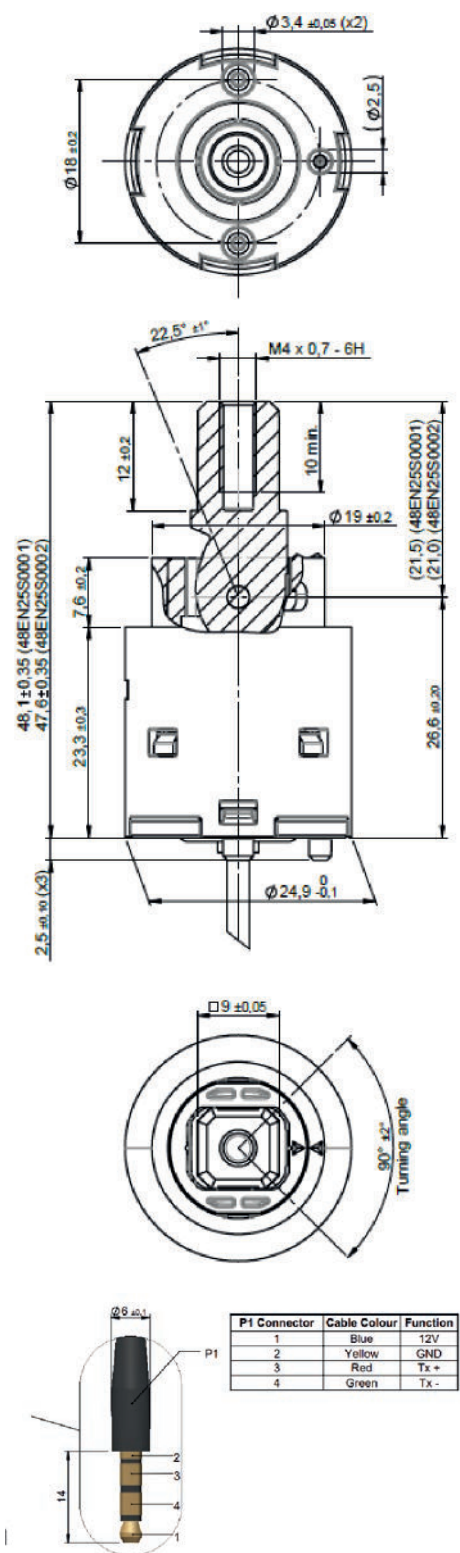
**Customizable panels**

Customizable panels to reach customer needs according requirements.

**Robust and durable**

- Resistance in harsh environments
- Water-resistance devices
- Usage-protected graphs

# Dimensions



# Certifications - Ready for

- EN
- ASME

# iTOP 35

## Digital Cartridge

### Versions

	Shower	Kitchen	Basin
0K		48EN35S0005	
2K		48EN35S0010	
4K	48EN35S0009		
iHandle	0K: 48EN35S0004 4K: 48EN35S0001	2K: 48EN35S0002	2K: 48EN35S0003



iTOP  
Digital Cartridge  
Interface








### Description

iTOP redefines the way a faucet is used and experienced. It is a fully digital cartridge that converts the movement of the lever into digital information to control our Electronic Water Valve thermostatic mixer with incredibly smooth and precise motion.

This innovative cartridge offers extra features impossible to get with mechanical valves: X-Lever™ motion. It consists of 4 extra clicks with selfreturn in each direction of the lever movement that can be programmed for different actions.

iTOP cartridge can work either with a standard lever or with iHandle, our smart handle that provides information with the actions the iTOP cartridge is performing in real time. Sedal has initially defined 3 iHandle interfaces: kitchen, shower and basin.

### Features

- **Connectivity**  
Optional model with WIFI-bluetooth to control functionalities with an app
- **Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- **Alarm**  
It activates when the system detects a problem.
- **App control**  
The user can control the functions of the faucet via app.
- **Glass Fill**  
A preset quantity of water to automatically fill a glass.
- **Tooth brush**  
The water flows during 5 seconds to wet the brush.
- **Pot Fill**  
The faucet dispenses a preset quantity of water to automatically fill a pot.

### Technical Specifications

General	
Maximum load	≤6 W (Stand-by ≤1W)
Rated voltage	12 V DC
Nut torque Brass, M37x1,25	9-10 Nm
General	
Operation torque	0,15-0,30 Nm
Click operation torque	0,30-0,40 Nm
Available clicks direction	Up/Down/Left/Right
Communication cable with handle	Yes
Life cycle	EN-817 ASME A112.18.1

# 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

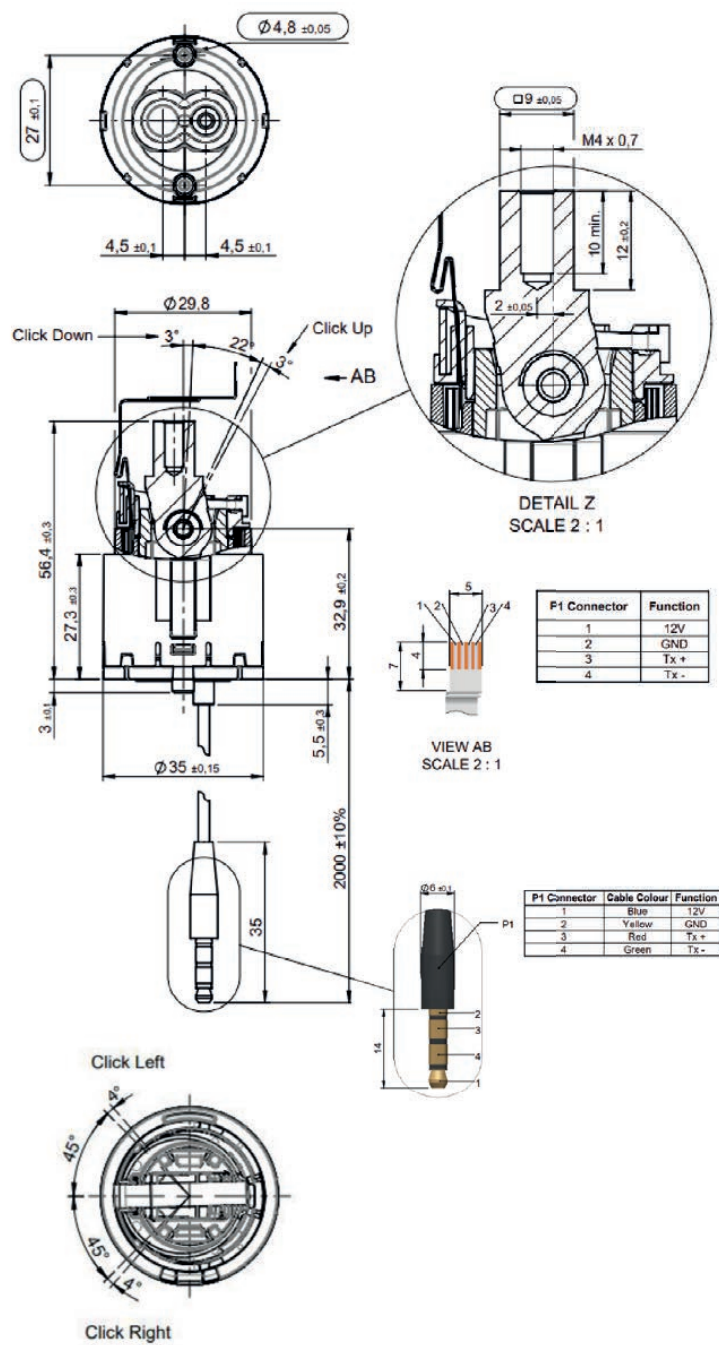
## Customizable panels

Customizable panels to reach customer needs according requirements.

## Robust and durable

- Resistance in harsh environments
- Water-resistance devices
- Usage-protected graphs

# Dimensions



## HANDLE DIGITAL INTERFACE



# Certifications - Ready for

- EN
- ASME

# COMPLEMENT – iHandle

## Digital Handle

### Versions

iHandle	27EI009005
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iHandle  
Interface








### Description

Developed and manufactured by Sedal to work together with our new iTOP digital cartridge with X-Lever™ technology

Based on the most accepted mechanical interface, we have evolved the classic lever into a system that provides key information and extra comfort to the user with dot matrix display and icons, as well as other lighting indicators that makes your faucets both beautiful and extremely functional.

Additionally, with a small investments, we can customized it unqiqlly for you.

### Features

- **Wifi Communication**  
WIFI to control functionalities with an app or voice control
- **Super-Eco mode**  
The valve is able to work in very low Flow rates according ECO regulations.
- **Warning signals**  
It activates when the system detects a problem.
- **App control**  
The user can control the functions of the faucet via app.
- **Glass Fill**  
A preset quantity of water to automatically fill a glass.
- **Tooth brush**  
The water flows during 5 seconds to wet the brush.
- **Pot Fill**  
The faucet dispenses a preset quantity of water to automatically fill a pot.

### Technical Specifications

General	
Maximum load	≤4 W (Stand-by ≤1W)
Rated voltage	12 V DC
Ingress Protection Rating	IP65
Communication Protocol	12C
Panel material	PMMA (Hard Coated)
Displau	Dotmatrix
Icons	Color LED

# Advantages

**Customizable panels**  
Customizable panels to reach customer needs according requirements.

**Information Display**  
Thanks to the display and the icon indicators, the user can know with precision bot the temperature and the flow rate, defined by the position of the handle.

Each icon will inform about specific functions and data of the faucet status.

**Design and adaptability**

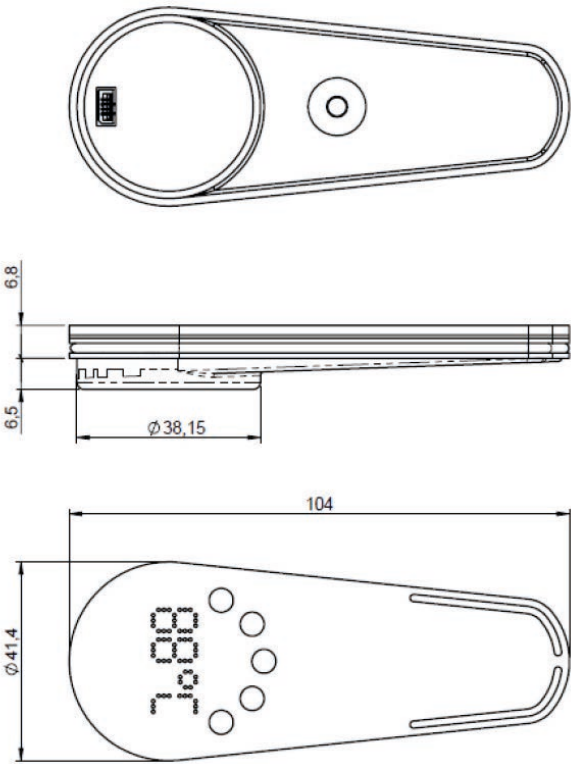
- Functional configurations
- Different technological options.

**Reliable and precise**

- Suppression of interferences
- Precise and intuitive touch commutation

**Robust and durable**  
It is resistance in harsh environments, as well as water resistance devices

# Dimensions



# Certifications

\*Under demand

S1

Sensors

Description

Active infrared sensor to be installed in the faucet body, especially designed for washbasins applications. The sensor can be connected to iH1 Bathroom Fixed or Adjustable.

Recomended Applications



Bathroom

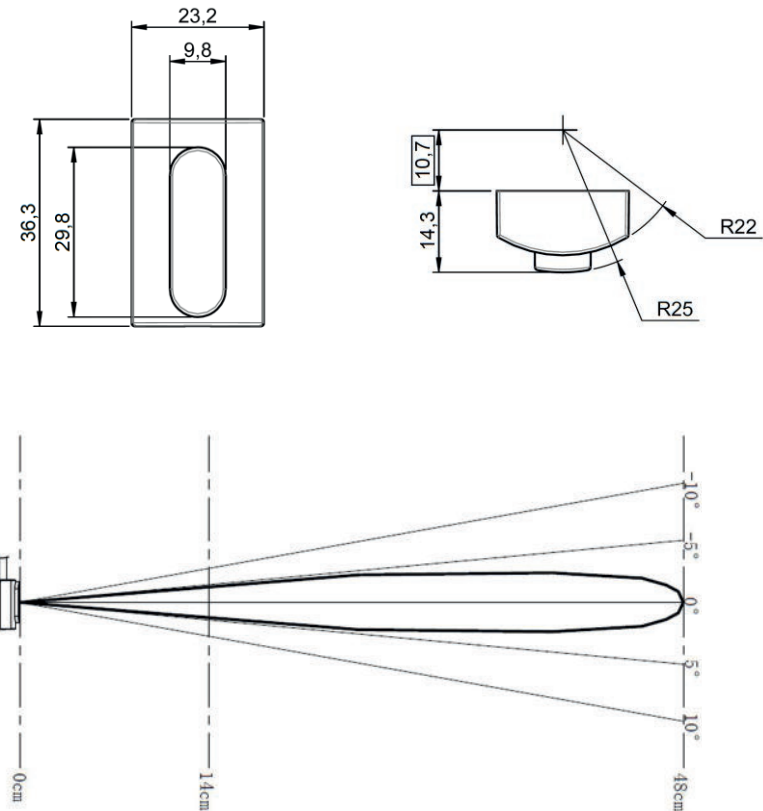


Kitchen faucet

Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4W
Standby power	<0,2mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 30s
Undervoltage protection	Yes
Infrared Detection	
Detection range (white card)	10-35cm
Detection distance adjustment	Box button
Sampling period	256 ms
Cable	
Cable length	100 cm
Connector	GX16-4pin / Female

Dimensions



S1  
27EI000016 (Adjustable)  
27EI000013 (Fixed)



**S2****Sensors**

## Description

Active infrared sensor to be installed in the faucet body, especially designed for washbasins applications. The sensor must be connected to H1 Bathroom.

## Recomended Applications



Bathroom



Kitchen faucet

## Technical Specifications

**Temperature**

Rated Impulse voltage	DC 6V
Maximum power	<4W
Standby power	<0,2mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Undervoltage protection	Yes

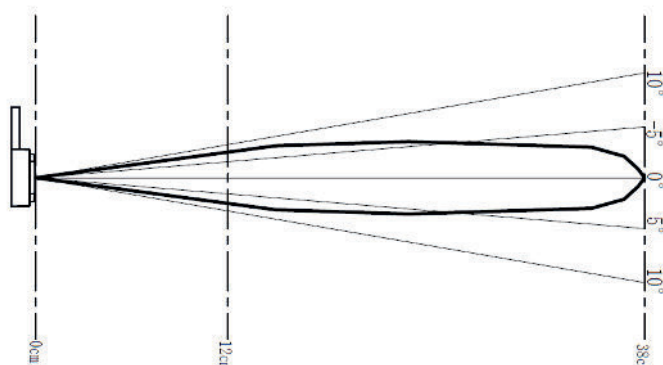
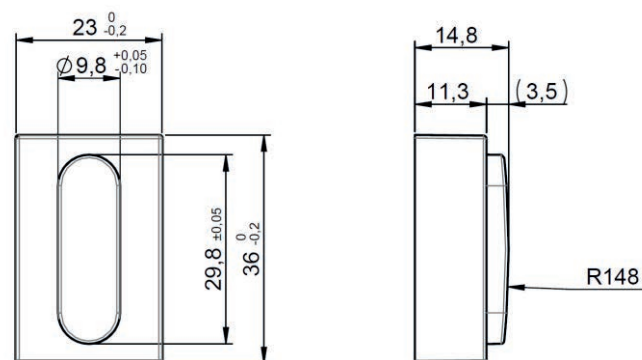
**Infrared Detection**

Detection range (white card)	12-38 cm
Detection distance adjustment	Screw
Sampling period	256 ms

**Cable**

Cable length	100 cm
Connector	GX16-4pin / Female

## Dimensions



**S2**  
for Fixed  
27EI000014

**S3****Sensors**

## Description

Active infrared sensor to be installed in the faucet body, especially designed for washbasins applications. The sensor must be connected to H1 Bathroom.

## Recomended Applications



Bathroom



Kitchen faucet



**S3**  
for H1 Bathroom  
27EI000015

## Technical Specifications

**Temperature**

Rated Impulse voltage	DC 6V
Maximum power	<4W
Standby power	<0,2mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Undervoltage protection	Yes

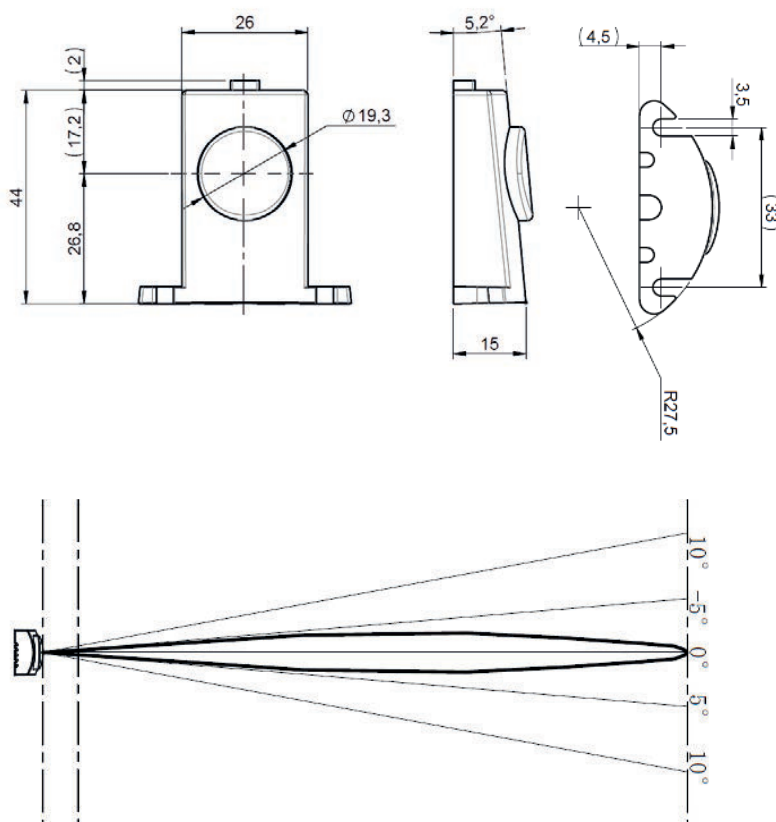
**Infrared Detection**

Detection range (white card)	2-37 cm
Detection distance adjustment	Magnet
Sampling period	256 ms

**Cable**

Cable length	100 cm
Connector	GX16-4pin / Female

## Dimensions



S5

Sensors

Description

Active infrared sensor to be installed in the faucet body, especially designed for washbasins applications. The sensor must be connected to H1 Bathroom.

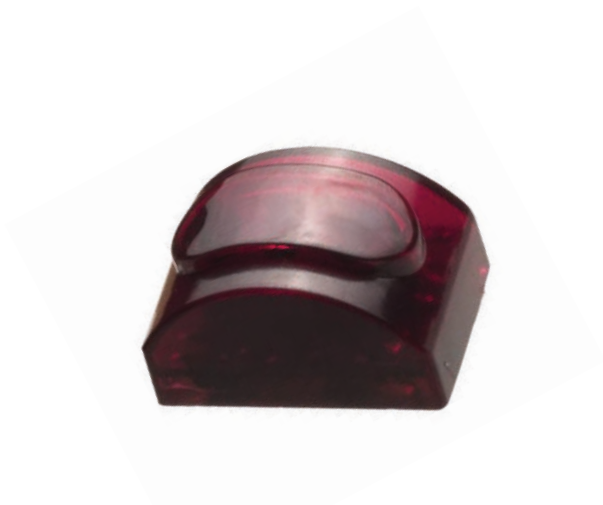
Recomended Applications



Bathroom



Kitchen faucet



S5  
for H1 Bathroom  
27EI000017

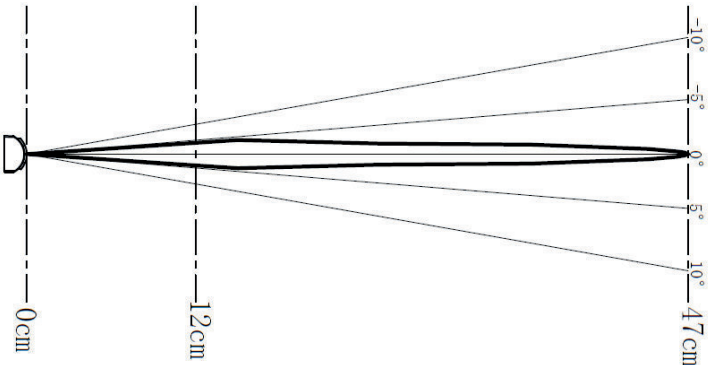
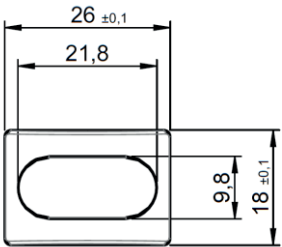
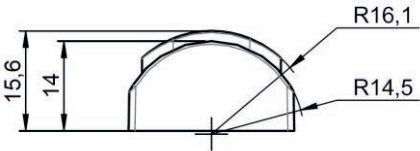
Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Undervoltage protection	Yes

Infrared detection	
Detection range (white card)	12 -47 cm
Detection distance adjustment	Magnet
Sampling period	256 ms

Cable	
Cable length	180 cm
Connector	GX16-4pin/ Female

Dimensions



S6

Sensors

Description

Active infrared sensor to be installed in the faucet body, especially designed for washbasins applications. The sensor can be connected to H1 Bathroom.

Recomended Applications



Bathroom



Kitchen faucet



S6  
27EI002001 (Adjustable)  
27EI000018 (Fixed)

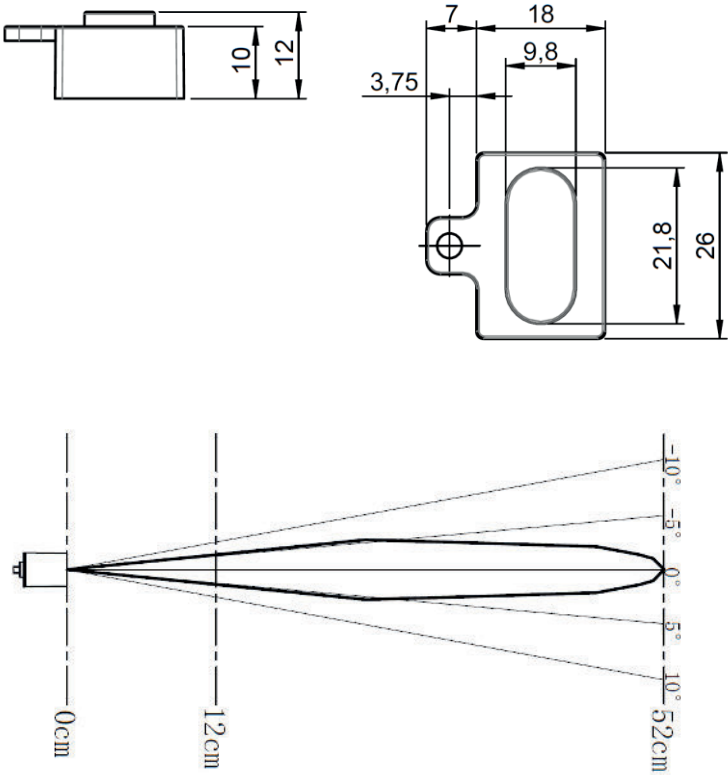
Technical Specifications

Temperature	
Rated Impulse voltage	6VDC
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 30s
Undervoltage protection	Yes

Infrared detection	
Detection range (white card)	12 - 60 cm
Preset detection distance (KODAK grey card 18%)	25 cm
Detection distance adjustment	Box button
Sampling period	256 ms

Cable	
Cable length	180 cm
Connector	GX16-4pin/ Female

Dimensions





Sensors

Description

Active infrared sensor to be installed at the spout and especially designed for washbasins applications. The sensor must be connected to H1 Bathroom.

Accessory kit available

Recomended Applications



Bathroom



Kitchen faucet

Technical Specifications

Temperature	
Rated Impulse voltage	6 V DC
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Undervoltage protection	Yes

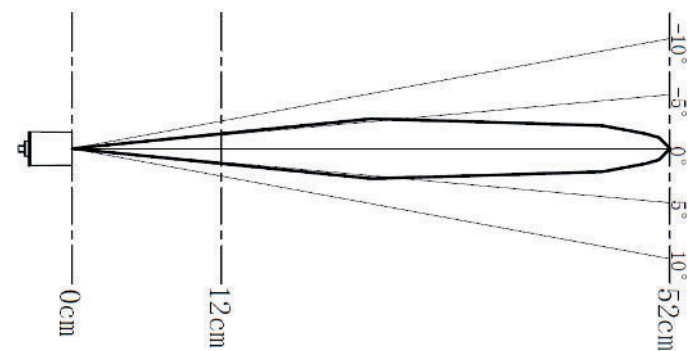
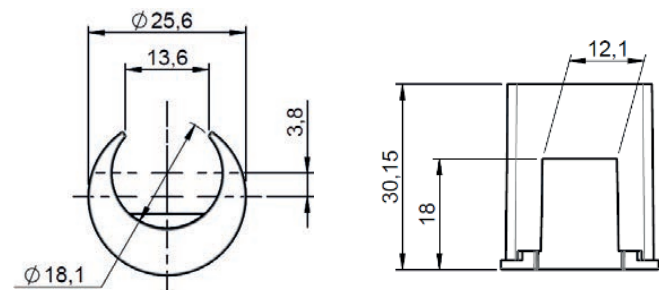
Infrared detection	
Detection range (white card)	12 - 52 cm
Preset detection distance. (Kodak 18% grey card)	13±3cm
Detection distance adjustment	256 ms
Sampling period	256ms

Cable	
Cable length	180 cm
Connector	GX16-4pin/ Female



S7 SENSOR KIT  
for H1 Bathroom  
27EI000019

Dimensions



S8

Sensors

Description

Active infrared sensor to be installed at the spout and especially designed for washbasins applications. The sensor must be connected to H1 Bathroom.

Accessory kit available

Recomended Applications



Bathroom



Kitchen faucet



S8 SENSOR KIT  
for H1 Bathroom  
27EI000020

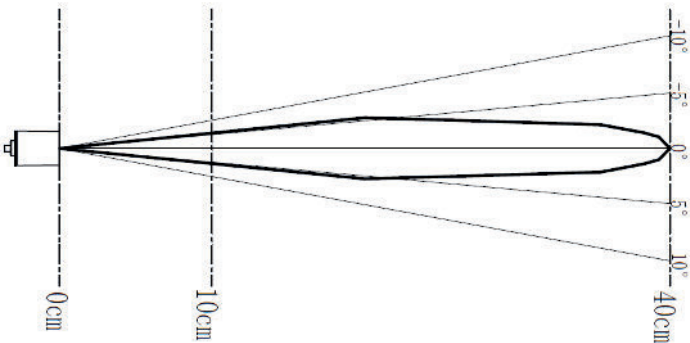
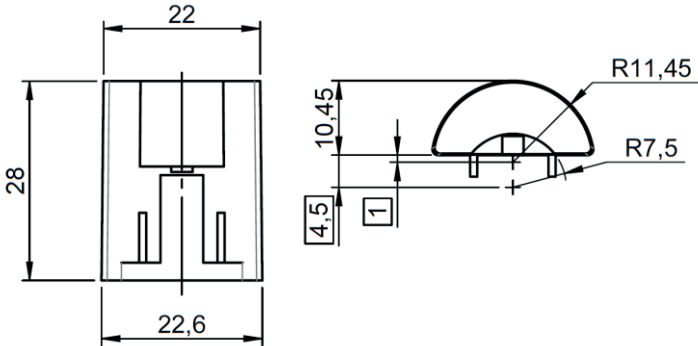
Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 30s
Undervoltage protection	Yes

Infrared detection	
Detection range (white card)	10 - 40 cm
Detection distance adjustment	Box Button
Sampling period	256 ms

Cable	
Cable length	180 cm
Connector	GX16-4pin/ Female

Dimensions



S9

Sensors

Description

Active infrared sensor to be installed at the spout and especially designed for washbasins applications. The sensor must be connected to H1 Bathroom.

Accessory kit available

Recomended Applications



Bathroom



Kitchen faucet



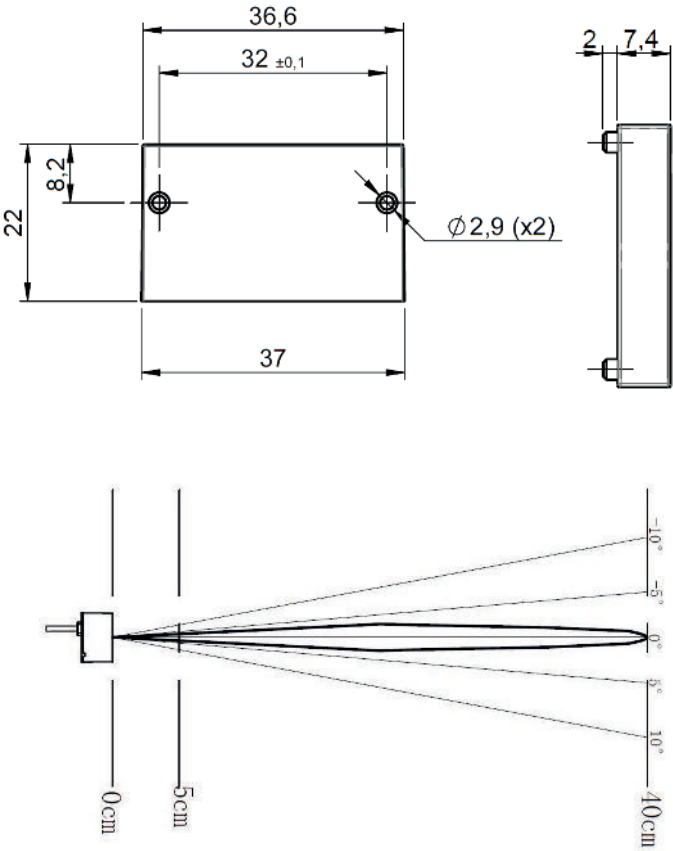
S9 SENSOR KIT  
for H1 Bathroom  
27EI000021

Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Undervoltage protection	Yes
Infrared detection	
Detection range (white card)	5- 40 cm
Preset detection distance. (Kodak 18% grey card)	13±3cm
Detection distance adjustment	Box button
Sampling period	256 ms

Cable	
Cable length	180 cm
Connector	GX16-4pin/ Female

Dimensions



# S3 Core

## Sensors

### Description

Active infrared sensor to be installed in the faucet body, especially deigned for washbasins applications. When powered, the sensor contains all the electronics required to operate a bistable latching valve.

### Recomended Applications



Bathroom



Kitchen faucet



**S3 CORE**  
for H2 Bathroom  
27EI000046

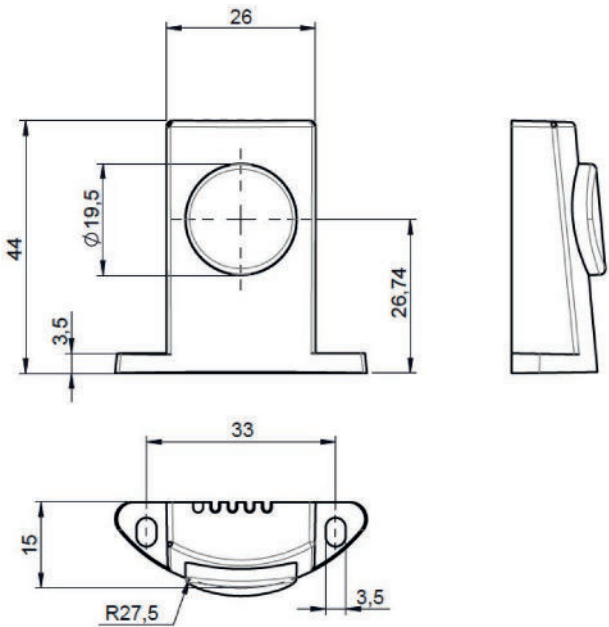
### Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Power shut-off protection	Yes
Undervoltage protection	Yes

Infrared detection	
Preset detection distance (white card)	32±2cm
Detection distance adjustment	Magnet
Sampling period	256 ms

Connections	
Valve cable	10cm - T6-2p Male
Power cable	100cm - T6-2p Female

### Dimensions





# S4 Core

## Sensors

### Description

Active infrared sensor to be installed in the faucet body, especially deigned for washbasins applications. When powered, the sensor contains all the electronics required to operate a bistable latching valve.

### Recomended Applications



Bathroom



Kitchen faucet



**S13 CORE**  
for H2 Bathroom  
27EI000047

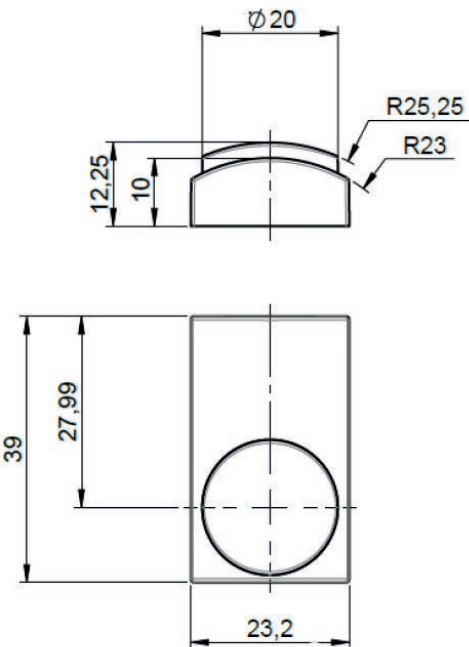
### Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 30s
Power shut-off protection	Yes
Undervoltage protection	Yes

Infrared detection	
Preset detection distance (white card)	28±2cm
Detection distance adjustment	Magnet
Sampling period	256 ms

Connections	
Valve cable	10cm - T6-2p Male
Power cable	100cm - T6-2p Female

### Dimensions



# S14 Core

## Sensors

### Description

Active infrared sensor to be installed in the faucet body, especially deigned for washbasins applications. When powered, the sensor contains all the electronics required to operate a bistable latching valve.

### Recomended Applications



Bathroom



Kitchen faucet



**S14 CORE**  
for H2 Bathroom  
27EI000048

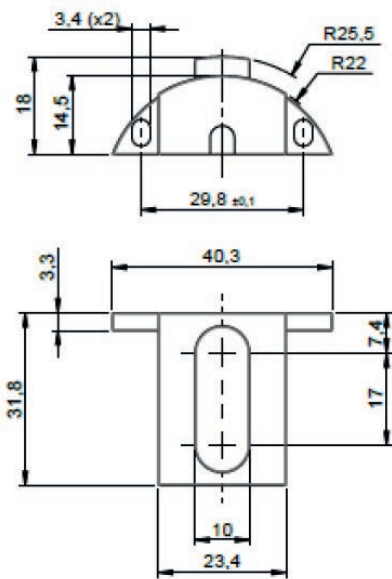
### Technical Specifications

Temperature	
Rated Impulse voltage	DC 6V
Maximum power	<4 W
Standby power	<0,2 mW
Ingress Protection Rating	IP67
Water Saving Function	Auto close after 60s
Power shut-off protection	Yes
Undervoltage protection	Yes

Infrared detection	
Preset detection distance (white card)	21±3cm
Detection distance adjustment	Magnet
Sampling period	256 ms

Connections	
Valve cable	10cm - T6-2p Male
Power cable	100cm - T6-2p Female

### Dimensions



# Compatibility Table

For Sensors & H1 Bathroom electronic Water Valve

## H1 Bathroom Fixed



**S1**  
Infrared sensor  
for curved  
body faucets



**S2**  
Infrared sensor  
for straight  
body faucets



**S3**  
Infrared sensor  
for wide  
base faucets



**S5**  
Infrared sensor  
for round spout,  
located after the outlet



**S6**  
Infrared sensor  
for squared spout,  
located after the outlet

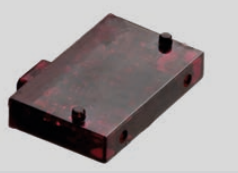
## H1 Bathroom Adustable



**S7**  
Round Interface Sensor  
to be placed at the outlet  
of the spout.



**S8**  
Semi-circular Interface  
Sensor to be placed at the  
outlet of the spout.



**S9**  
Squared Interface Sensor  
to be placed at the outlet  
of the spout.



**S1**  
Infrared sensor  
for curved  
body faucets

### KIT



**sedal.com**

The faucet's **heart**