





FIND WHAT YOU NEED

The Sedal webiste offers many features in order to achieve the excellence in every detail. Thanks to continuous improvement in everything we do, we offer the best user experience possible. Allowing you to quickly find the information you are looking for.

Discover automated tools, easy navigation menus, intuitive filters and accessible information that makes the website smarter than ever.



SEDAL BLOG

Sedal introduces its new blog, a space to share with all of you information about cartridges and electronic mixing water systems, just as corporate events and latest innovations in sanitary industry,

Visit us at blog.sedal.com.





SMART PRODUCT SELECTOR

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

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



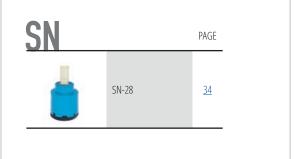
25_{MM} **MIXERS**





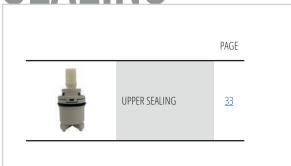


28_{MM} **MIXERS**





26_{MM}





35_{MM}

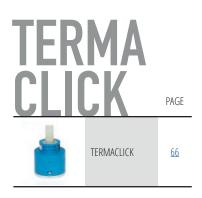














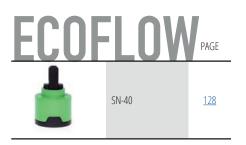
SPECIALS REVOLVING <u>76</u> DIVERTERS <u>80</u> JOYSTICK <u>84</u>



 40_{MM}

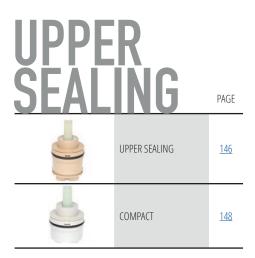
MIXERS

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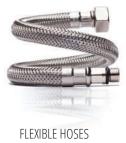
SHOWER DIVERTERS

METERING VALVES

FLEXIBLE HOSES



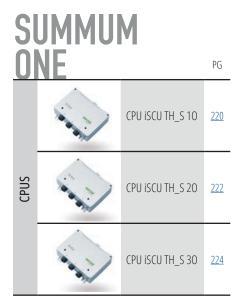


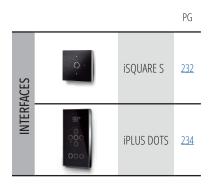


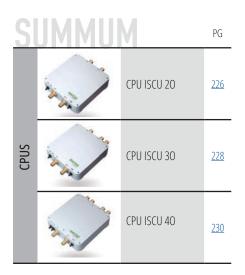
PG. <u>206</u>

SHOWER SYSTEMS



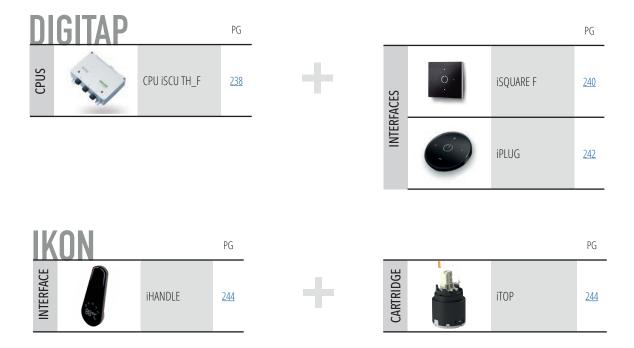


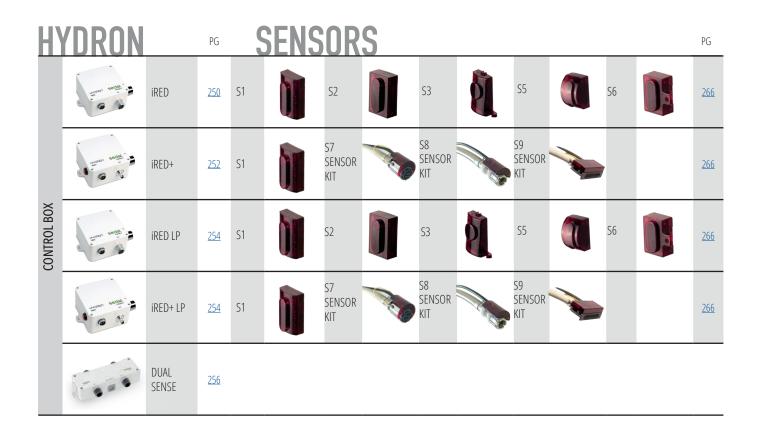






FAUCET SYSTEMS







CENTER OF EXCELLENCE

Sedal
CERAMICS

YOUR TECHNICAL CERAMICS PARTNER

Sedal DIGITAL SYSTEMS



COMPANY: INNOVATING EVERYDAY

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

Headquartered in Spain, SEDAL is active in over 45 countries around the world, which provides us with a broad knowledge of the market. Following our vision, we pursue technical excellence in every single product we develop. Our team of engineers takes care of achieving new technical challenges to keep our customers satisfied. Deep know how in critical faucet components such as ceramic cartridges, headworks, thermostatic cartridges, flexible connections or diverters leads us to be the preferred supplier for some of the largest faucet manufacturers worldwide.

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 strenghts 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

SEDAL GROUP COMPANIES















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25_{MM}

SI			METAL LEVER		CODE	PAGE
25MM	SN-25	√	CD SD	08SN25L0007 08SN25S0007	<u>16</u>	
	8	COLD	√	CD SD	08SN25L1503 08SN25S1503	<u>18</u>
	- 20	COLD MIRROR	√	CD SD	08SN25L1504 08SN25S1504	<u>20</u>

EC	OFLO	W	METAL LEVER		CODE	PAGE
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SF	PECIA	LS	METAL LEVER		CODE	PAGE
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		JOYSTICK JY-25	√	SD	08JY25S0002	<u>28</u>

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		COMPACT EX-28	-		08EX28L0002	<u>35</u>
		EX-28 TOP	-		08EX28L0501	<u>36</u>
≥		EX-28 TOP DUE	_ (IXFX /X	08EX28L3501	<u>36</u>	
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		EX-28 TOP COLD DUE MIRROR	-		08EX28L5002	<u>36</u>

SN-25

DESCRIPTION

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

FEATURES



SOFT

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



LEVER VARIANTS

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

ADVANTAGES

IMPROVED PERFORMANCE

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

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

MORE ENDURANCE

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

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

TOUGH CONSTRUCTION FOR SMALL FAUCETS DESIGN

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

DIFFERENT VERSIONS AVAILABLE

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

SN-25 C/D

REF. 08SN25LG000

SN-25 S/D

REF. 08SN25FG000









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RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



SHOWERS

Specially designed for one outlet showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS



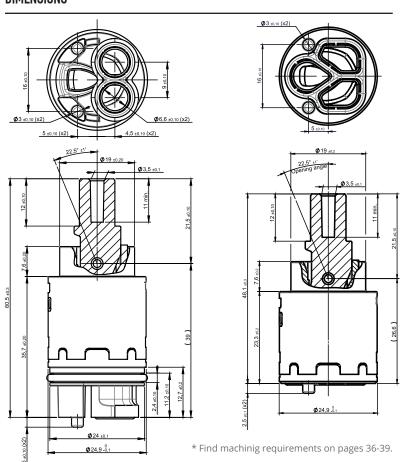








DIMENSIONS



TECHNICAL SPECIFICATIONS

C/D	S/D
7-8Nm	7-8Nm
22.5°	22.5°
90°	90°
1 - 5 bar	1 - 5 bar
>35 bar	>35 bar
70,000 cycles 500,000 cycles	70,000 cycles 500,000 cycles
>12 mm	>12 mm
<5°C	<5°C
<4°C - <6°C	<4°C - <6°C
90 °C	90 °C
C/D	S/D
0.20-0.40 Nm	0.20-0.40 Nm
0.15-0.35 Nm	0.15-0.35 Nm
C/D (basin)	S/D (basin)
5 l/min	4.8 l/min
10.5 l/min	10 l/min
17.2 l/min	16.9 l/min
23.5 l/min	21 l/min
C/D (bath)	S/D (bath)
5.6 l/min	3.2 l/min
5.0 1/111111	3.2 1/111111
12.1 l/min	11.1 l/min
	7-8Nm 22.5° 90° 1 - 5 bar >35 bar 70,000 cycles 500,000 cycles >12 mm <5°C <4°C - <6°C 90 °C C/D 0.20-0.40 Nm 0.15-0.35 Nm C/D (basin) 5 l/min 10.5 l/min 17.2 l/min 23.5 l/min C/D (bath)

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

SN-25

DESCRIPTION

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

FEATURES



SOFT

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



LEVER VARIANTS

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



COLD

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

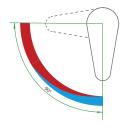
ADVANTAGES

ADDITIONAL FFATURES.

SN-25 Cold has the same advantages than SN-25, 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.



SN-25 C/D

COID

REF. 08SN25L1503

SN-25 S/D

REF. 08SN25S1503









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RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS



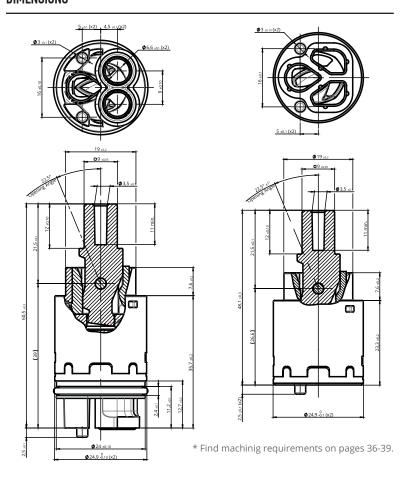








DIMENSIONS



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

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

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

SN-25 COLD MIRROR

DESCRIPTION

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

FEATURES



SOFT

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



LEVER VARIANTS

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



COLD

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



MIRROR

Movement from right to left to obtain hot water.

ADVANTAGES

- ADDITIONAL FEATURES
 SN-25 Cold mirror has the same advantages than SN-25, but with cold mirror technology as an additional feature.
- COLD TECHNOLOGY
 The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.

SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

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



SN-25 C/D
COLD MIRROR
REF. 08SN25L1504

SN-25 S/D *COLD MIRROR*REF. 08SN25S1504









RECOMMENDED APPLICATIONS



KITCHENS

Specially designed for kitchens.

CERTIFICATIONS

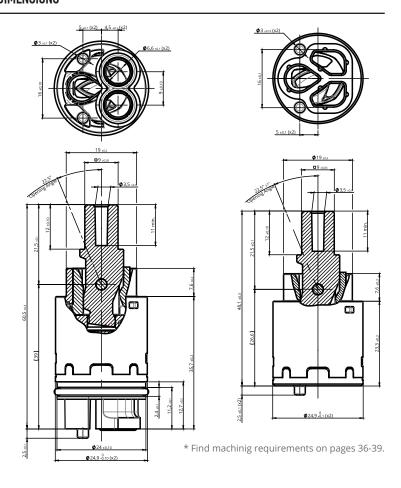








DIMENSIONS



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

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

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

SN-25 ECOFLOW

DESCRIPTION

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

FEATURES



EC0

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

REGULATIONS

This cartridge is

optimized according to

WaterSense and Water

Label requirements.



SOFT

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



RESTRICTOR

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

ADVANTAGES

SN TECHNOLOGY

Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).

IMPROVED FLOW-RATE VS HANDLE STROKE

Existing solutions offer a very limited opening stroke to regulate the flow. With ECOFLOW, the entire stroke is available.



REDUCES TEMPERATURE FLUCTUATION

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



THE USAGE OF A RESTRICTOR IS OPTIONAL

The flow rate reduction is carried out at the right place. With ECOFLOW the usage of a limiter or restrictor is optional.



RECOMMENDED APPLICATIONS



WASHBASINS

Specially useful for low flow washbasins.

CERTIFICATIONS





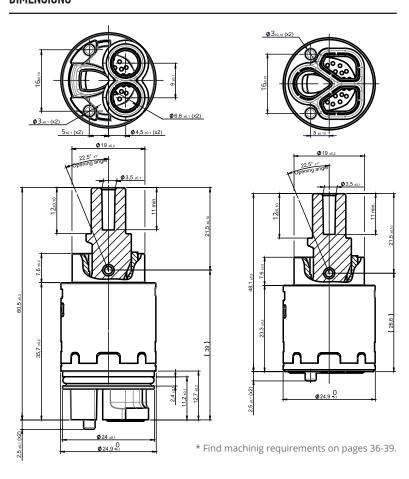






* Optimised for WaterSense and WaterLabel

DIMENSIONS



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

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

Flow rate (free flow)	C/D	S/D
at 0.2 bar	1.5 l/min	1.5 l/min
at 1 bar	3.7 l/min	3.7 l/min
at 3 bar	6.1 l/min	6.1 l/min
at 5 bar	7.3 l/min	7.3 l/min

REVOLVING GI-25

DESCRIPTION

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

FEATURES



ECO

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



רחו ח

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



REVOLVING

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



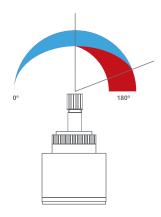
METALLIC LEVER

This revolving cartridge has metallic lever

ADVANTAGES

REVOLVING MOVEMENT

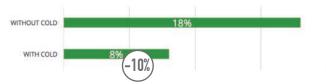
25mm revolving cartridge has a rotation angle of 180° from cold to hot.



COLD TECHNOLOGY

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

HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



GI-25 S/D

REF. 08GI25FBL00





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RECOMMENDED APPLICATIONS



DECORATIVE WASHBASINSSpecially designed for decorative faucets.

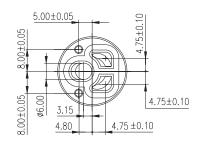
CERTIFICATIONS

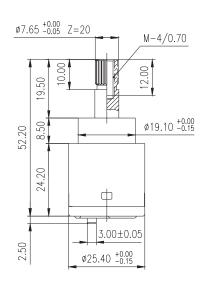






DIMENSIONS





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

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

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

DIVERTER GD-25

DESCRIPTION

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

FEATURES



CO

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



METALLIC LEVER

This revolving cartridge has metallic lever.



OUTLETS

Diverter cartridge with two outlets.



ROTATION ANGLE

Diverter cartridge with 90° rotation angle.

ADVANTAGES

SLIM BODY SHOWERS WITH HIGH FLOW

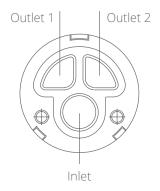
The GD25 has a high flow rate @3 bar, allowing to build slim body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.

MORE ENDURANCE

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

DIVERTER FUNCTIONALITY

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



GD-25 S/D

REF. 08GD25FAZ00





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RECOMMENDED APPLICATIONS



SHOWERS DIVERTERS

Specially designed for showers with diverters.

CERTIFICATIONS

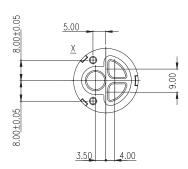


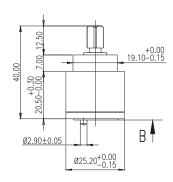






DIMENSIONS





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

Operation Torque	S/D
Turn left-right	0.15-0.30 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

JOYSTICK JY-25

DESCRIPTION

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

FEATURES



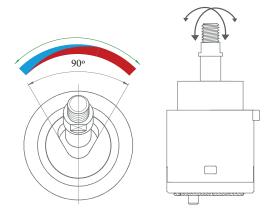
JOYSTICK Joystick cartridge with smooth 360° movement.



METALLIC LEVER This joystick cartridge has metallic lever

ADVANTAGES

- SMALLEST IN THE MARKET
 - 25mm joystick is the smallest in the industry, allowing the manufacturer to design slim faucets.
- NEW CERAMICS DISC GEOMETRY JY-25 C/D has a new ceramics disc geometry that allows its smooth 360° movement.



- ROBUST DESIGN
 - 25mm joystick has a robust design, withstanding higher levels of burst pressure.
- HIGHER FLOW RATE

JY-25 C/D has higher flow rates than previous versions.

JY-25 S/D REF. 08JY25S0002





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RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.

CERTIFICATIONS

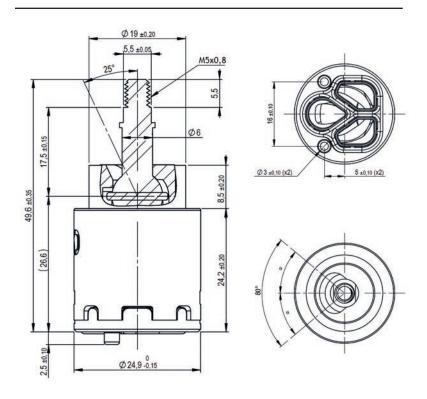








DIMENSIONS



General	S/D
Nut torque pitch M1.5	7-8 Nm
Opening angle	25°C
Rotation angle	80°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817	70,000 cycles
Max. hot water*	90 °C

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

Flow rate (free flow)	S/D
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

UPPER SEALING GC-25

DESCRIPTION

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

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

FEATURES



ADVANTAGES

TRIALOX TECHNOLOGY

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

NEW REVOLUTIONARY CERAMIC SET

The GC-25 Trialox consists on a mobile ceramic sandwiched between two fixed ones, instead of the classic two ceramic construction. The water flows inside GC-25 through the lower ceramic to the mixing chamber. The upper fixed ceramic ensures leakage protection while keeping operation smooth.

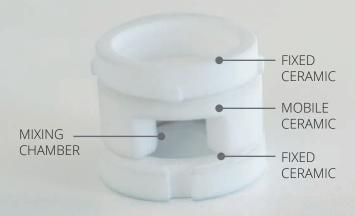
ALLOWS DIFFERENT FAUCET CONFIGURATIONS

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



HIGH PERFORMANCE

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



DLC COATING

As an option, a Diamond Coated ceramic set can be ordered to improve the operation torque and the life expectancy, as well as a sensible reduction of the chatter effect in extremely high temperatures.

GC-25 S/D

REF. 08GC25S0009



REF. 08GC25S0012







RECOMMENDED APPLICATIONS



WASHBASINSSpecially designed for washbasins.





OTHER VERSIONS

S/D

S/D CLOSED

DLC Coated Ceramic

REF.08GC25S0011

REF.08GC25S0013

CERTIFICATIONS



Open-close

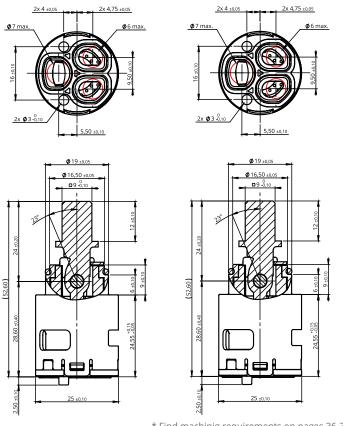








DIMENSIONS



* Find machinig requirements on pages 36-39.

TECHNICAL SPECIFICATIONS

General	S/D	S/D CLOSED
Nut torque pitch M1.5	7-8 Nm	7-8 Nm
Opening angle	23°	23°
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME A112.18.1	500,000 cycles	500,000 cycles
Sensitivity (r=52mm)	11°-13° angle	11°-13° angle
Fidelity	<3°C	<3°C
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C-<6°C	<4°C-<6°C
Max. hot water*	90 °C	90 °C
	6/5	6/2 CL 0000
Operation Torque	S/D	S/D CLOSED
Turn left-right	0.15-0.40 Nm	0.15-0.40 Nm

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

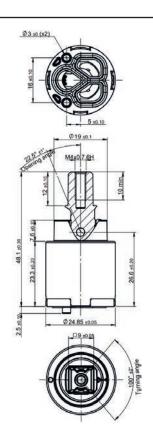
0.15-0.40 Nm

0.15-0.40 Nm

EN-25 S/D TOP CARTRIDGES



DIMENSIONS



^{*} Find machinig requirements on pages 38-41.

DESCRIPTION

Slim design in high and low base for major high end kitchen and basin applications.

FEATURES

TOP range cartridge with the newest technologies for smooth operation even in the most demanding applications. Strong and long lasting materials for the best user experience.

ADVANTAGES

Up to 3x most mechanical standards. Feels like a 35mm cartridge when operated. Smooth operation in very hot water conditions.

RECOMMENDED APPLICATIONS





CERTIFICATIONS







TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	7-8Nm
Opening angle	22,5°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
ASME 112.18.1 M	140,000 cycles 1.000.000 cycles
Sensitivity Basin (1)	>12°
Fidelity (1)	<5°C
Constancy 63°C & 50°C (6 l/m & 3 l/m) (1)	<4°C - <6°C
Max. hot water*	90 ℃

Operation Torque 3 bar	S/D
Open-close	0.20-0.40 Nm
Turn at close	0.15-0.35 Nm
Turn at open	0.20-0.35 Nm

Flow rate 3 bar (MIX) (1)	S/D
Basin DN8 (Free flow)	14,8 l/min
Basin DN8 (RhA)	10,8 l/min

Only applies to officially listed products.

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

^{*}Peak or limited time condition.

EX-26 C/D CARTRIDGES



EX-26 C/D

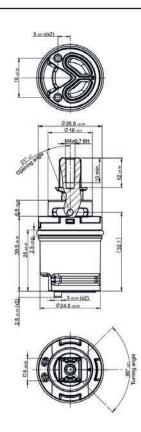
REF. 08EX26L0001





DOWNLOAD DATA SHEET

DIMENSIONS



^{*} Find machinig requirements on pages 38-41.

DESCRIPTION

Small diameter upper sealing cartridge that allows to build slim faucets with a high sealing position for modern designs.

FEATURES

Fulfills major standards and built to last, made with high degree thermoplastics. Small diameter combined with upper sealing area.

ADVANTAGES

Rugged materials combined with several technologies offer a 35mm-like experience with smooth and firm feeling when operated.

RECOMMENDED APPLICATIONS





CERTIFICATIONS











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 ⁽¹⁾ NF-077	>10 mm
Fidelity (1) NF-077	<5°C
Constant 63 °C & 50 °C (6 l/min - 3 l/min) ⁽¹⁾	<4°C - <6°C
Max. hot water*	65 °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 (1)	
Free flow (Mix)	16,0 l/min

⁻Hammer test NF-077.

Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

^{*}Peak or limited time condition.

SN-28 CARTRIDGES

SN-28 S/D

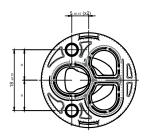
REF. 08SN28S0002

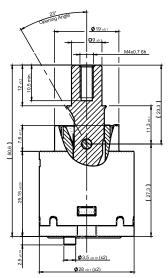




OWNLOAD

DIMENSIONS





* Find machinig requirements on pages 38-41.

DESCRIPTION

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

FEATURES



OFT

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

ADVANTAGES

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

RECOMMENDED APPLICATIONS





CERTIFICATIONS









TECHNICAL SPECIFICATIONS

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

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

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

Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

COMPACT EX-28

EX-28

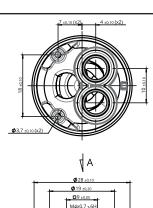
REF. 08EX28L0002

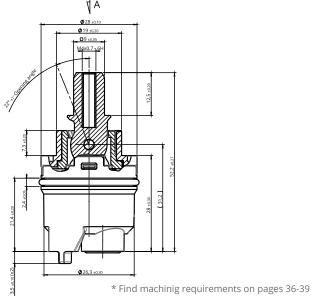




DOWNLOAD Data Shee

DIMENSIONS





DESCRIPTION

Compact 28 mm cartridge specially designed for short faucets.

ADVANTAGES

MINIMALISM WITH HIGH PERFORMANCE

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

RECOMMENDED APPLICATIONS



CONCEALED WASHBASINS

Specially designed for washbasins.



CONCEALED SHOWERS

Specially designed for one outlet showers.



CONCEALED KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS





TECHNICAL SPECIFICATIONS

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

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

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

COMPACT EX-28 TOP

STANDARD C1 | DUE C2 | COLD Ch3 | COLD DUE C3



TOP





DOWNLOAD DATA SHEET

OTHER VERSIONS

 TOP C1
 REF. 08EX28L0501

 TOP DUE C2
 REF.08EX28L3501

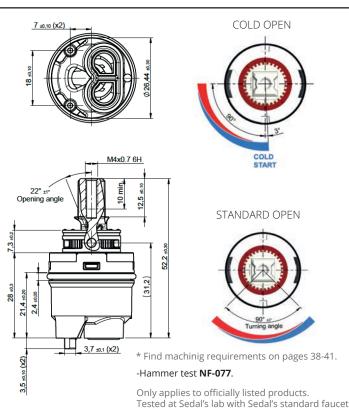
 TOP COLD Ch3
 REF.08EX28L2501

 TOP COLD DUE C3
 REF.08EX28L5001

 TOP COLD MIRROR
 REF.08EX28L2502

 TOP COLD DUE MIRROR
 REF.08EX28L5002

DIMENSIONS



*Peak or limited time condition.

DESCRIPTION

The EX-28 cartridge provides a slim design capability resulting in an interesting intermediate way in between 35mm and 25mm taps. It features soft operational movement thanks to a high grade ceramics.

This cartridge has been specially design to achieve norm NF-007.

FEATURES



SOFT

Up to 40% softer lever operation than standard cartridges.

ADVANTAGES

The manufacturer can keep a slim design but can obtain a higher flow rate. Upper sealed cartridges allow the manufacturer to work with different faucet configurations.

RECOMMENDED APPLICATIONS





CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	EX-28 TOP	EX-28 TOP COLD				
Nut torque pitch M1.5	7-8Nm	7-8Nm				
Opening angle	22°	22°				
Rotation angle	90°	93°				
Working pressure (recommended)	1 - 5 bar	1 - 5 bar				
Burst pressure	>35 bar	>35 bar				
Life cycle-x2 ASME	1,000,000 cycles	1,000,000 cyc.				
x2 EN 817	140,000 cycles	240,000 cycles				
NF-077 U3	175,000 cycles	175,000 cycles				
x2 GB-18145	140,000 cycles	140,000 cycles				
Sensitivity	>12° angle	>12° angle				
Fidelity	<5° C	<5° C				
Constant 63 °C & 50 °C	<4°C - <6°C	<4°C - <6°C				
(6 l/min - 3 l/min)						
Max. hot water*	90 °C	90 °C				
		EV 20 TOD				

Operation Torque	EX-28 TOP	EX-28 TOP COLD
Open-close	0.15-0.30 Nm	0.15-0.30 Nm
Turn left-right	0.15-0.30 Nm	0.15-0.30 Nm

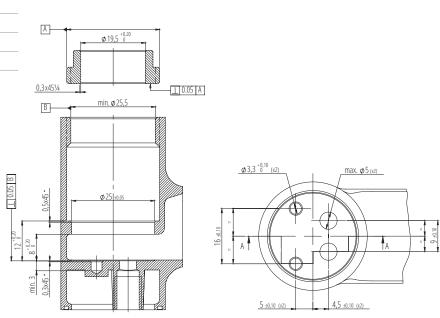
Flow rate (free flow DN8)		EX-28 TOP	EX-28 TOP COLD
	at 3 bar	13.9 l/min	13.9 l/min

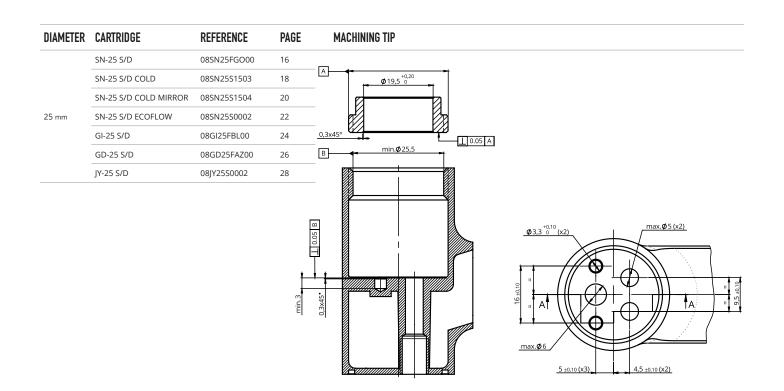
MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

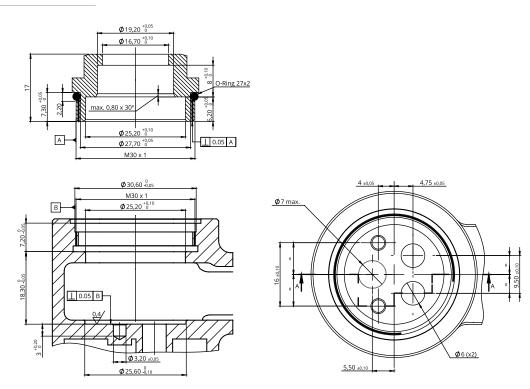
MACHINING TIP

DIAMETER	CARTRIDGE	REFERENCE	PAGE
	SN-25 C/D	08SN25LGO00	16
25	SN-25 C/D COLD	08SN25L1503	18
25 mm	SN-25 C/D COLD MIRROR	08SN25L1504	20
	SN-25 C/D ECOFLOW	08SN25L0001	22

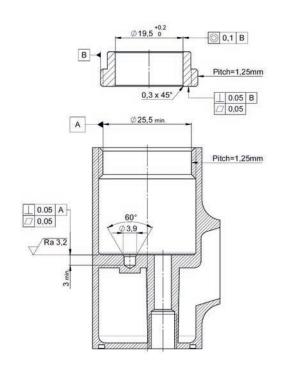


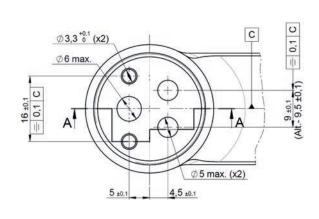


DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
25 mm	GC-25 S/D	08FBL100	30	



DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
25 mm	EN-25 S/D		32	

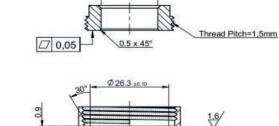


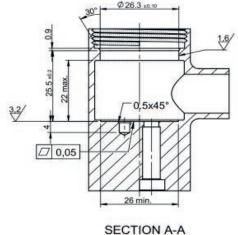


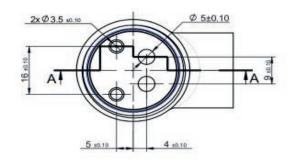
MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

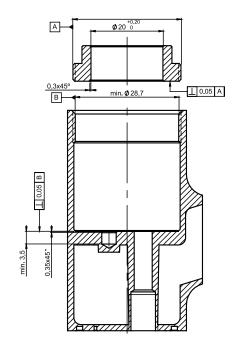
DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
26 mm	EX-26 TOP	08EX26L0001	33	

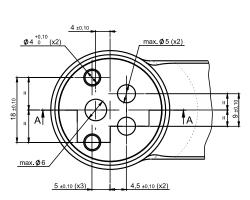




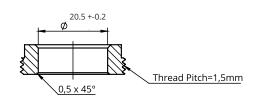


DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
28 mm	SN-28	08SN28S0002	34	

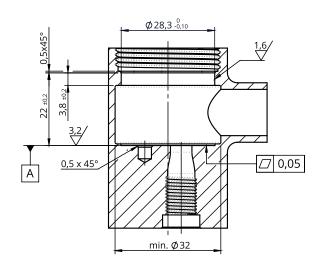


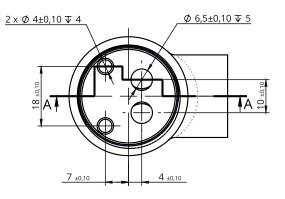


DIAMETER	CARTRIDGE	REFERENCE	PAGE
28 mm	EX-28	08EX28L0501	35
28 mm	EX-28 TOP	08EX28L0501	36
28 mm	EX-28 TOP DUE	08EX28L3501	36
28 mm	EX-28 TOP COLD	08EX28L2501	36
28 mm	EX-28 TOP COLD DUE	08EX28L5001	36
28 mm	EX-28 TOP COLD MIRROR	08EX28L2502	36
28 mm	EX-28 TOP COLD DUE MIRRPR	08EX28L5002	36



MACHINING TIP









O INDEX · 35MM CARTRIDGES

TO	P		TEMP. LIMITER	FLOW LIMITER		CODE	PG
		TOP C1	√	√	CD SD	08EN35L0023 08EN35S0023	<u>46</u>
	Final	DUE C2	✓	-	CD SD	08EN35L3504 08EN35S3504	<u>46</u>
-		HIGH FLOW	√	-	CD SD	08EN35L0507 08EN35S0507	<u>46</u>
E	L	NIEDERDRUCK	√	-	SD	08EN35S0506	<u>46</u>
		COLD CH3	√	✓	CD SD	08EN35L4003 08EN35S4003	48
		COLD DUE C 3	√	-	CD SD	08EN35L5002 08EN35S5002	48
		MIRROR	√	√	CD SD	08EN35L2503 08EN35S2503	48
		COLD MIRROR DUE	✓	-	CD SD	08EN35L5003 08EN35S5003	48

E۱	IDU	RA	TEMP. LIMITER	FLOW LIMITER		CODE	PG
		ENDURA	√	√	CD SD	08SN35L0013 08SN35S0013	<u>50</u>
		DUE	√	-	CD SD	08SN35L3001 08SN35S3001	<u>50</u>
SN		COLD	√	√	CD SD	08SN35L1502 08SN35S1502	<u>52</u>
		COLD DUE	√	√	CD SD	08SN35L0004 08SN35S0004	<u>52</u>
		ENDURA	✓	√	CD SD	08EN35L0004 08EN35S0004	<u>54</u>
		DUE	✓	-	CD SD	08EN35L3001 08EN35S3001	<u>54</u>
		COLD	✓	√	CD SD	08EN35L1503 08EN35S1503	<u>56</u>
EN		COLD MIRROR	-	-	CD SD	08EN35L1505 08EN35S1505	<u>56</u>
		COLD DUE	✓	√	CD SD	08EN35L0005 08EN35S0005	<u>56</u>
		COLD MIRROR DUE	-	-	CD SD	08EN35L2002 08EN35S2002	<u>56</u>

S	TAND	ARD	TEMP. LIMITER	FLOW LIMITER		CODE	PG
EN		EN-35	-	-	CD SD	08EN35L0003 08EN35S0003	<u>58</u>
ш		EN-35 DUE	-	-	CD SD	08E35LAZ31 08E35FAZ31	<u>59</u>
NS		SN-35	-	-	CD SD	08SN35LG000 08SN35FG000	60
TRN		TRN-35	√	√	CD SD	08RN35LVE00 08RN35FVE00	<u>61</u>

BASIC		TEMP. LIMITER	FLOW LIMITER		CODE	PG
BASIC	G BASIC	-	-	CD SD	08EN35L0011 08EN35S0011	<u>62</u>

E	COFL	.OW	TEMP. LIMITER	FLOW LIMITER		CODE	PG
NS		SN-35	-	-	CD SD	08SN35L0008 08SN35S0009	<u>64</u>

IE	RMA	CLICK	TEMP. LIMITER	FLOW LIMITER		CODE	PG
7		TERMACLICK	-	-	CD SD	08SN35L2003 08SN35S2003	<u>66</u>
SN		MIRROR	-	-	CD SD	08SN35L2004 08SN35S2004	<u>68</u>

DI FA	RY NUCE	T	TEMP. LIMITER	FLOW LIMITER		CODE	PG
NS	4	BISO	-	-	2	08SN35B0008 08SN35B0007	<u>70</u>
S		SISO	-	-	2	08SN35A0008 08SN35A0007	<u>72</u>
	L	SISO STD	-	-	2	08EN35A0003	74
SN	0,0	SISO COLD MIRROR	-	-	2	08EN35A1503	<u>74</u>

SI	PECIA	ALS	TEMP. LIMITER	FLOW LIMITER		CODE	PG
9		GI-35	√	-	CD SD	08GI35LBE64 08GI35FBE64	<u>76</u>
REVOLVING		GI-35 L9	-	-	CD SD	08GI35LBE09 08GI35FBE09	<u>78</u>
RE		GI-35 Z20	-	-	CD SD	08GI35LBE01 08GI35FBE01	<u>79</u>
DIVERTERS		GD-35	-	-	CD SD	08GD35LBE00 08GD35FBE00	80
DIVE		GD-35 4	-	-	SD	08GD35S0001	<u>82</u>
JOYSTICK		JY-35	-	-	CD	08JY35L001	<u>84</u>

U	PPE	?					
S	<u>EALII</u>	NG	TEMP. LIMITER	FLOW LIMITER		CODE	PG
DNII		G-35	√	√	CD	08RG35L4602	<u>88</u>
UPPER SEALING		G-35 DUE	✓	√	CD	08G35L0002	88
UPPE		G-35 COLD	√	✓	CD	08G35L1501	<u>90</u>
NI-9		CC-35	√	√	CD	08CC35L0003	<u>94</u>
DIRECT PLUG-IN		CC-35 BASIC	√	✓	CD	08CC35L0016	<u>94</u>
DIRE		CC-35 BASIC DUE	√	✓	CD	08CC35L4502	<u>96</u>
PACT		EX-35	✓	✓	CD	08EX35S0001	<u>102</u>
COMPACT		EX-35 DUE	✓	✓	CD	08EX35S3501	<u>104</u>

U	PPEF	2					
SI	EALI	NG TOP	TEMP. LIMITER	FLOW LIMITER		CODE	PG
		G-35 TOP	√	-	CD	08G35L0502	<u>86</u>
PILING		G-35 TOP DUE C2	✓	-	CD	08G35l3501	<u>86</u>
U. SEALING		G-35 TOP COLD	√	-	CD	08G35L2501	<u>86</u>
		G-35 TOP COLD DUE C3	√	-	CD	08G35l5002	<u>86</u>
		CC-35 TOP C1	✓	-	CD	08CC35L0501	<u>92</u>
NI-9r		CC-35 TOP DUE C2	√	-	CD	08cc35l3502	<u>92</u>
D. PLUG-IN		CC-35 TOP COLD Ch3	√	-	CD	08CC35L2501	92
		CC-35 TOP COLD DUE C3	√	-	CD	08CC35l5002	<u>92</u>
		EX-35 TOP C1	√	√	CD	08EX35L0504	<u>98</u>
COMPACT		EX-35 TOP DUE C2	√	-	CD	08EX35L3502	98
MOO		EX-35 TOP COLD Ch3	√	√	CD	08EX35L2502	<u>100</u>
		EX-35 TOP COLD DUE C3	✓	-	CD	08EX35L5002	100

EN-35 TOP STANDARD - C1 | DUE - C2

DESCRIPTION

EN-35 TOP is a 35mm cartridge created to be the best in class, outstanding its competitors in all fields and offering the manufacturer a perfect balanced cartridge with an extraordinary endurance: 3x standard life cycling tests. It is also available with TRN technology for water and energy saving.

FEATURES



FLOW LIMITER Limit maximum water flow for water saving.



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

TEMPERATURE LIMITER

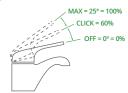
Limit maximum temperature in 7 selectable stops for energy saving and to avoid scalding.

ADVANTAGES

HIGHER FLOWRATE⁽¹⁾

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

- A PLUS IN SENSITIVITY
 - TOP has a 20% more sensitivity than its closest competitor. It has a 12% more sensitivity than the average cartridges in the market.
- **IOWER NOISE LEVEL** TOP produces less than 20dB, 20% less noise than the average in its market segment and also than its closest competitor.
- 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.

EXTRAORDINARY COMFORT

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

MECHANICAI STRENGHT

TOP has a **25% more mechanical strenght** than Endura.

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)







27° TURN

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

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 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.





COMPATIBILITY

Compatibility versions available.

EN-35 C/D





EN-35 S/D





DOWNLOAD DATA SHEET

VERSIONS C/D S/D

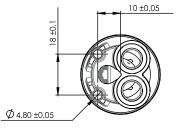
TOP TR C1 TOP TRN C1 TOP DUE TR C2 TOP High Flow TR (1) TOP NIEDERDRUCK(2) REF.08EN35L0023 REF.08EN35L4505 REF.08EN35L3504 REF. 08EN35L0507

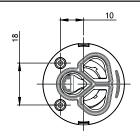
REF. 08EN35S0023 REF. 08EN35S4505 REF.08EN35S3504 REF. 08EN35S0507 REF. 08EN35S0506

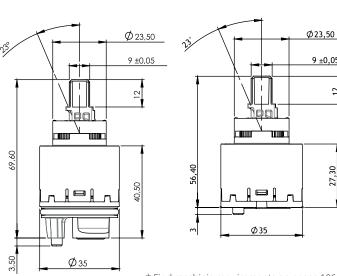
9 ±0,05

27,30

DIMENSIONS







* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	100°	100°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
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 NF-077	>12 mm	>12 mm
Fidelity NF-077	<5°	<5°
Constant 63 °C & 50 °C	<4°C - <6°C	<4°C - <6°C
(6 l/min - 3 l/min)		
Max. hot water*	90 °C	90 °C
Operation Torque	C/D	S/D
Open-close	0.2-0.4 Nm	0.2-0.4 Nm
Turn left-right	0.2-0.4 Nm	0.2-0.4 Nm

Noise level	C/D	S/D
Noise level (A2-NF077)	<20 dB (A)	<20 dB (A)

Flow rate (free flow)	C/D	S/D
at 3 bar	28 l/min	27.4 l/min
at 3 bar (high flow)(1)	30 l/min	29.7 l/min
at 3 bar (niederdruck) ⁽²⁾	-	13.3 l/min

- -Hammer test NF-077.
- -High temp. pressure test ${\bf AS\text{-}NZS}$

 $^{^{(1)}}$ High Flow version; $^{(2)}$ Niederdruck

EN-35 TOP

COLD Ch3 | COLD DUE C3 | COLD MIRROR

DESCRIPTION

EN-35 TOP is a 35mm cartridge created to be the best in class, outstanding its competitors in all fields and offering the manufacturer a perfect balanced cartridge with an extraordinary endurance: 3x standard life cycling tests. It is also available with TRN and COLD technologies for water and energy saving.

FEATURES



FLOW LIMITER

Limit maximum water flow for water saving.



COLD

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



TEMPERATURE LIMITER

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



DUE

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

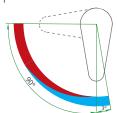
ADVANTAGES

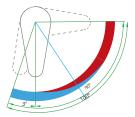
ADDITIONAL FEATURES

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

COLD & MIRROR TECHNOLOGY

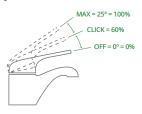
The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.





DUFTECHNOLOGY

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)

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





TEMPERATURE & FLOW LIMITER FUNCTION (TRN)
TRN technology, in addition to limit temperature, allows water saving at the same time thanks to a flow limiter.

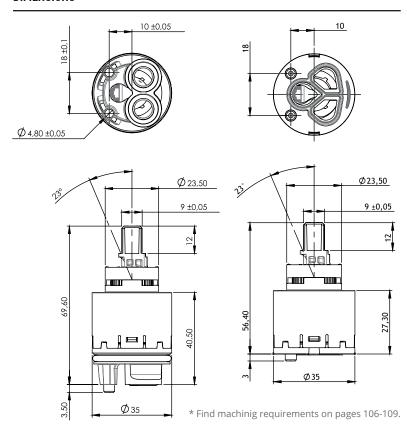


The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, saving up to 22% of daily water consumption.



OTHER VERSIONS	C/D	S/D
TOP COLD TR Ch3	08EN35L2502	08EN35S2502
TOP COLD TRN Ch3	08EN35L4003	08EN35S4003
TOP COLD DUE C3	08EN35L5002	08EN35S5002
TOP COLD MIRROR TR	08EN35L2503	08EN35S2503
TOP COLD MIRROR TRN	08EN35L4506	08EN35S4506
TOP COLD MIRROR TR DUE	08EN35L5003	08EN35S5003

DIMENSIONS



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	93°	93°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
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 NF-077	>12 mm	>12 mm
Fidelity NF-077	<5°	<5°
Constant 63 °C & 50 °C	<4°C - <6°C	<4°C - <6°C
(6 l/min - 3 l/min)		
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.2 -0.4 Nm	0.2 -0.4 Nm
Turn left-right	0.2 -0.4 Nm	0.2 -0.4 Nm

Noise level	C/D	S/D
Noise level (A2-NF077)	<20 dB (A)	<20 dB (A)

Flow rate (free flow)	C/D	S/D
at 3 bar	28 l/min	27.4 l/min

⁻Hammer test NF-077.

⁻High temp. pressure test **AS-NZS**

SN-35 ENDURA STANDARD | DUE

DESCRIPTION

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

FEATURES



SOFT

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



FLOW LIMITER

Limit maximum water flow for water saving.



TEMPERATURE LIMITER

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



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



DUE

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

ADVANTAGES

SN TECHNOLOGY

Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).

HIGH-PRECISION COMPONENTS

High precision components and excellent performing materials.

A BUNCH OF TECHNOLOGY

A complete set of high tech solutions:

- Glide Feel Technology for a perfectly smooth operation
- Ceramic Nano Shelter Technology for extra durability,
- Noise Cancelling Technology
- AccuDue Technology to save water

DOUBLE LIFE-CYCLE

The new ENDURA features SedalOX™ 96, which allows an extended life cycling. The result is more than double ASME and EN standard cycles in life tests.

GREAT RANGE. GREATER POSSIBILITIES

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

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





position	15° I/min	65° I/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.

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.



OTHER VERSIONS C/D S/D

 Endura TRN
 REF.08SN35L4501
 REF.08SN35S4501

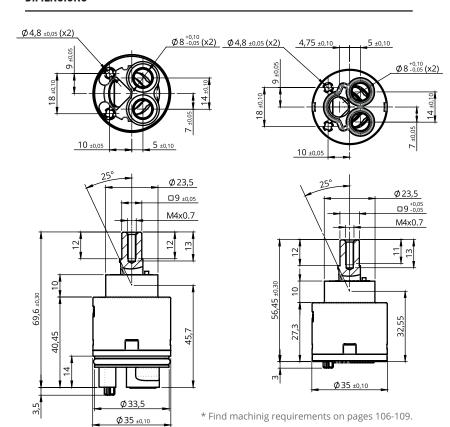
 Endura TR
 REF.08SN35L5401
 REF.08SN35S5401

 Endura DUE
 REF.08SN35L3001
 REF.08SN35S3001

 Endura DUE TRN
 on demand
 on demand

 Endura DUE TR
 REF.08SN35L5701
 REF.08SN35L5401

DIMENSIONS



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS













TECHNICAL SPECIFICATIONS

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

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.30 Nm	0.15-0.30 Nm

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

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

-Hammer test NF-077.

^{*} Ready for NF

SN-35 ENDURA COLD | COLD DUE

DESCRIPTION

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

FEATURES



SULL

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



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



ECO

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



FLOW LIMITER

Limit maximum water flow for water saving.



TEMPERATURE LIMITER

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

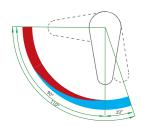
ADVANTAGES

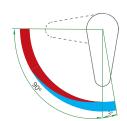
ADDITIONAL FEATURES

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

COLD TECHNOLOGY

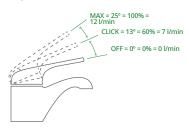
The lever is in cold position by default, saving up to 10% from the household energy consumption related to plumbing products.





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)

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





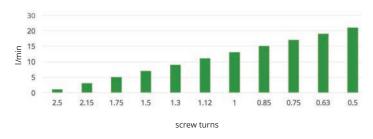
position	15° I/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



SN-35 C/D

ENDURA COLD





SN-35 S/D

ENDURA COLD

REF.08SN35S1502





RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

OTHER VERSIONS

C/D

S/D

COLD TR	
COLD TRN	
COLD Version 93° Rotation Angle	
COLD DUE	
COLD DUE TR	
COLD DUE TRN	

REF.08SN35L2501 REF.08SN35S2501 REF.08SN35L4001 REF.08SN35S4001 REF.08SN35L1504 REF.08SN35S1504 REF.08SN35L0004 REF.08SN35S5001 REF.08SN35L5001 REF.08SN35S5505

CERTIFICATIONS







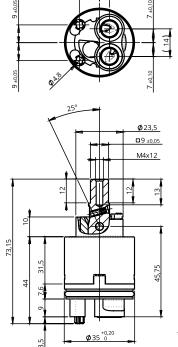


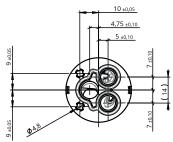


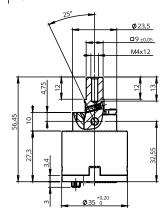


DIMENSIONS

10 ±0,05







* Find machinig requirements on pages 106-109.

* Ready for NF TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110°/ 93°	110°/ 93°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity	>12 mm	>12 mm
Fidelity	<2°	<2°
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.30 Nm	0.15-0.30 Nm

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

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

FLOW FIGURES AT COLD POSITION

-Hammer test **NF-077**.

EN-35 ENDURA STANDARD | DUE

DESCRIPTION

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

FEATURES



TEMPERATURE LIMITER

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

FLOW LIMITER

Limit maximum water

flow for water saving.



ECO

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



DU

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

ADVANTAGES

HIGH-PRECISION COMPONENTS

High precision components and excellent performing materials.

A BUNCH OF TECHNOLOGY

A complete set of high tech solutions:

- Glide Feel Technology for a perfectly smooth operation
- Ceramic Nano Shelter Technology for extra durability,
- Noise Cancelling Technology
- AccuDue Technology to save water

DOUBLE LIFE-CYCLE

The new ENDURA features SedalOX™ 96, which allows an extended life cycling. The result is more than double ASME and EN standard cycles in life tests.

• GREAT RANGE. GREATER POSSIBILITIES

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

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)

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





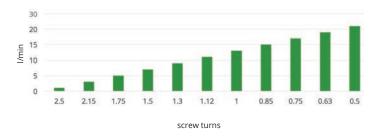
position	15° l/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



EN-35 C/D

FNDURA





EN-35 S/D

ENDURA

REF.08EN35S0004





* Find machinig requirements on pages 106-109.

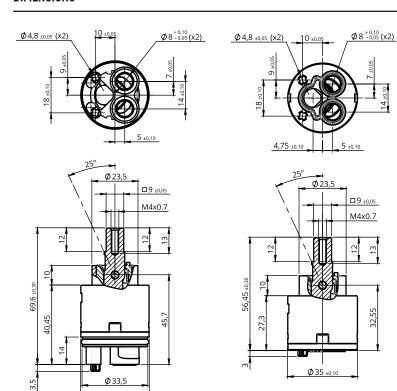
DOWNLOAD DATA SHEET

OTHER VERSIONS

C/D S/D

Endura TR REF.08EN35L5401 REF.08EN35S5401 Endura TRN REF.08EN35L4501 REF.08EN35S4501 Endura DUE REF.08EN35L3001 REF.08EN35S3001 REF.08EN35L5701 REF.08EN35S5701 Endura DUE TR Endura DUE TRN on demand on demand

DIMENSIONS



Ø 35 ±0,10

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS













TECHNICAL SPECIFICATIONS

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

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

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

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

-Hammer test NF-077.

^{*} Ready for NF

EN-35 ENDURA

COLD | COLD MIRROR | COLD DUE | COLD MIRROR DUE

DESCRIPTION

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

FEATURES



COLD

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



TEMPERATURE LIMITER

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



MIRROR

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



FLOW LIMITER

Limit maximum water flow for water saving.



DUE

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

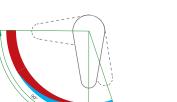
ADVANTAGES

ADDITIONAL FEATURES

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

COLD TECHNOLOGY

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



SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

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

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)

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

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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

EN-35 C/D ENDURA COLD

REF.08EN35L1503





EN-35 S/D

REF.08EN35S1503





OTHER VERSIONS

Endura COLD TR Endura COLD TRN Endura COLD MIRROR Endura COLD DUE

Endura COLD DUE TR Endura COLD DUE TRN

Endura COLD MIRROR DUE

C/D

REF.08EN35L2501 REF.08EN35L4001 REF.08EN35L1505

REF.08EN35L0005 REF.08EN35L5001

REF.08EN35L5501 REF.08EN35L2002

I35L2501 REF.08EN35S2501 I35L4001 REF.08EN35S4001

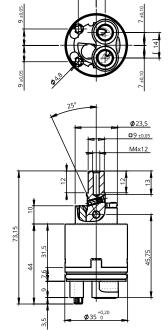
> REF.08EN35S1505 REF.08EN35S0005

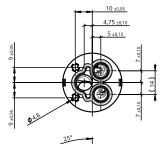
S/D

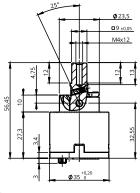
REF.08EN35S5001 REF.08EN35S5501

REF.08EN35S5501 REF.08EN35S2002

DIMENSIONS







* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS













TECHNICAL SPECIFICATIONS

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

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

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

-Hammer test NF-077.

^{*} Ready for NF

STANDARD CARTRIDGES

EN-35 C/D

REF.08EN35L0003



REF. 08EN35S0003



DOWNLOAD DATA SHEET







DOWNLOAD DATA SHEET

ADVANTAGES

35 mm cartridge.

DESCRIPTION

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

RECOMMENDED APPLICATIONS







CERTIFICATIONS



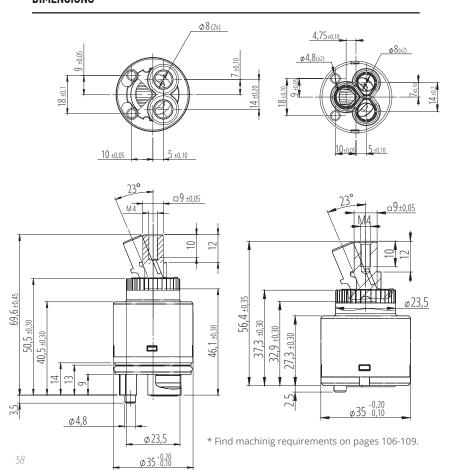








DIMENSIONS



TECHNICAL SPECIFICATIONS

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

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

Noise level	C/D	S/D
Noise level	24 ± 2 dB	26 ± 2 dB
Flow rate (free flow)	C/D	S/D
at 0.2 bar	6.1 l/min	5.8 l/min
at 1 bar	13.1 l/min	13.4 l/min
at 3 bar	22.3 l/min	23.1 l/min
at 5 bar	29 l/min	29.7 l/min

EN-35 C/D

DUE

REF.08E35LAZ30





DOWNLOAD DATA SHEET

EN-35 S/D

DUE

REF. 08E35FAZ30





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±0.10

7,00

DESCRIPTION

35 mm cartridge.

ADVANTAGES

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

RECOMMENDED APPLICATIONS







CERTIFICATIONS



* Ready for NF



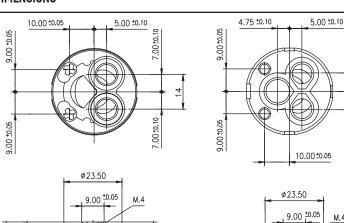


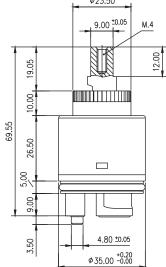


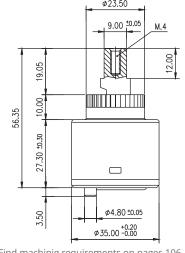




DIMENSIONS







* Find machinig requirements on pages 106-109.

TECHNICAL SPECIFICATIONS

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

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

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

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

STANDARD CARTRIDGES

SN-35 C/D

REF.08SN35LG000



REF.08SN35FG000







DOWNLOAD DATA SHEET



DOWNLOAD DATA SHEET

DESCRIPTION

35 mm cartridge.

ADVANTAGES

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

RECOMMENDED APPLICATIONS







CERTIFICATIONS



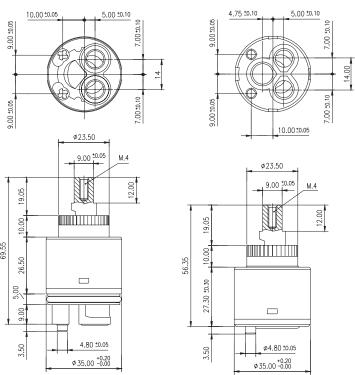








DIMENSIONS



^{*} Find machinig requirements on pages 106-109.

TECHNICAL SPECIFICATIONS

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

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

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

TRN-35 C/D

REF.08RN35LVE01

TRN-35 S/D

REF.08RN35FVE01







DESCRIPTION

35 mm cartridge.

ADVANTAGES

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

RECOMMENDED APPLICATIONS







CERTIFICATIONS

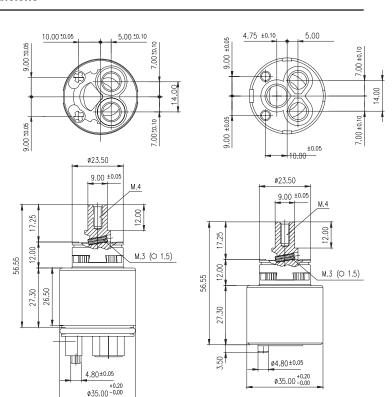








DIMENSIONS



* Find machinig requirements on pages 106-109.

TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	28-35 bar	28-35 bar
Life cycle - EN 817 /	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	10°-11° angle	8.9° -9.2° angle
Max. hot water	90 °C	90 °C

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

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

BASIC CARTRIDGES

DESCRIPTION

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

ADVANTAGES

Entry-level product with Sedal high-reliability.

EN-35 C/D

BG BASIC

REF.08EN35L0011





EN-35 S/D

BG BASIC

REF. 08EN35S0011





RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



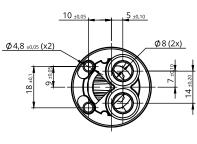
KITCHENS

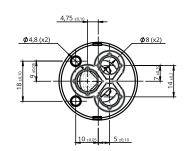
Suitable for use in kitchens.

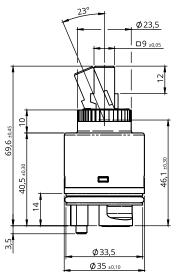
CERTIFICATIONS

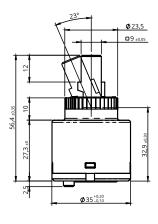


DIMENSIONS









* Find machinig requirements on pages 106-109.

TECHNICAL SPECIFICATIONS

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

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

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

SN-35 ECOFLOW

DESCRIPTION

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

FEATURES



FCN

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



SOFT

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





REGULATIONSThis cartridge is

optimized according to WaterSense and Water Label requirements.



RESTRICTOR

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

ADVANTAGES

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



REDUCES TEMPERATURE FLUCTUATION

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



■ THE USAGE OF A RESTRICTOR IS OPTIONAL

The flow rate reduction is carried out at the right place. With ECOFLOW the usage of a limiter or restrictor is optional.

SN-35 C/D ECOFLOW REF.08SN35L0008





SN-35 S/D *ECOFLOW*REF.08SN35S0009





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RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

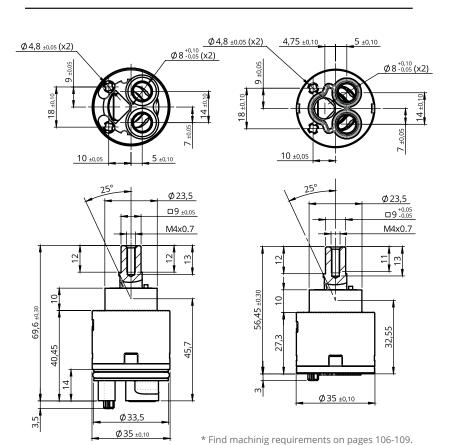
Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

DIMENSIONS



CERTIFICATIONS











^{*} Optimised for WaterSense and WaterLabel

TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	7-8Nm	7-8Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	>10-12 mm	>10-12 mm
Fidelity	<3°	<3°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C
Operation Torque	C/D	S/D
Open-close	0.20-0.35 Nm	0.20-0.35 Nm
Turn left-right	0.15-0.35 Nm	0.15-0.35 Nm

Flow rate (free flow)	C/D	S/D
at 0.2 bar	2.3 l/min	2.3 l/min
at 1 bar	5.3 l/min	5.3 l/min
at 3 bar	9 l/min	9 l/min
at 5 bar	11.5 l/min	11.5 l/min

TERMACLICK

DESCRIPTION

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

FEATURES



SNFT

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



TERMACLICK

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



COLD

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



ECO

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

ADVANTAGES

ENERGY SAVING

Termaclick cartridge helps saving energy thanks to:

- Cold start opening, which flows cold water when the lever is centered.
- Mid-way stroke that clicks at the theoretical point of 38°C water outlet, making the user aware of the saving point.
- SAFETY CLICK AT COMFORT TEMPERATURE

The user detects the click point and enjoys comfort temperature of water without risks at the safety temperature. This feature allows completely safe usage for children.

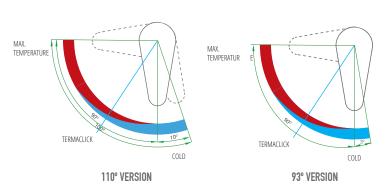
SEDALOX CERAMIC SET

Termaclick incorporates SedalOX ceramics for a superior endurance.

DIFFERENT VERSIONS AVAILABLE

Termaclick is a 35mm cartridge, comprising high and low base versions. The manufacturer can also choose the rotation angle (110° or 90°).

LEFT TO HOT



GLIDE FEEL TECHNOLOGY

This technology ensures the user a unique smoothness of operation.



SN-35 S/D TERMACLICK REF.08SN35S2003







RECOMMENDED APPLICATIONS

WASHBASINS

Specially designed for washbasins.





S/D

OTHER VERSIONS

C/D

Rotation angle at 93°

REF.08SN35L2005 REF.08SN35S2005

CERTIFICATIONS



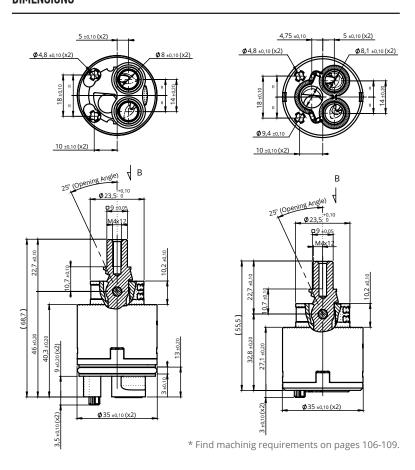








DIMENSIONS



TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°/ 93°	100°/ 93°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>35 bar	>35 bar
Life cycle - x2 EN 817	140,000 cycles	140,000 cycles
x2 GB18154	140,000 cycles	140,000 cycles
Sensitivity (r=45mm)	>10 mm	>10 mm
Fidelity	<5°C	<5°C
Max. hot water*	90 °C	90 °C

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

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

TERMACLICK MIRROR

DESCRIPTION

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

FEATURES



SNFT

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



TERMACLICK MIRROR

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



COLD

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



EC0

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

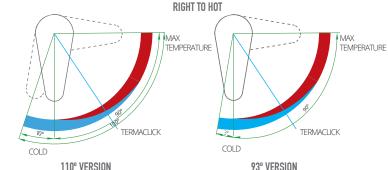
ADVANTAGES

ADDITIONAL FEATURES

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

SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

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











SN-35 S/D TERMACLICK MIRROR

REF.08SN35S2004





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OTHER VERSIONS

C/D

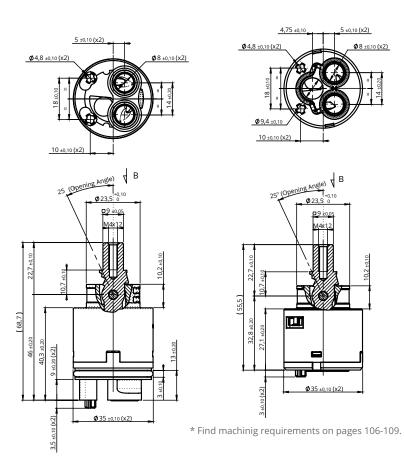
S/D

Rotation angle at 93°

REF.08SN35L2006

REF.08SN35S2006

DIMENSIONS



RECOMMENDED APPLICATIONS



KITCHENS

Specially designed for washbasins.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°/ 93°	100°/ 93°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>35 bar	>35 bar
Life cycle - x2 EN 817	140,000 cycles	140,000 cycles
x2 GB18154	140,000 cycles	140,000 cycles
Sensitivity (r=45mm)	>10 mm	>10 mm
Fidelity	<5°C	<5°C
Max. hot water*	90 °C	90 °C

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

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

DRY FAUCET BISO CARTRIDGES

DESCRIPTION

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

FEATURES



SOFT

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



DRY FAUCET

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



DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

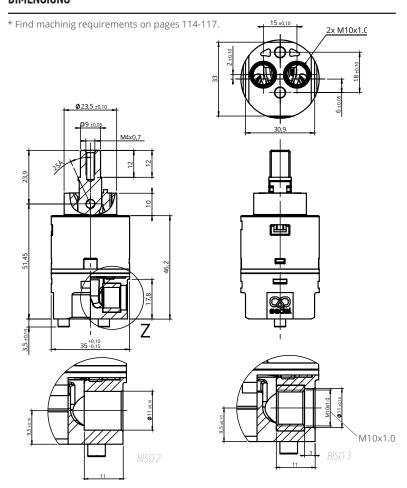
- LIGHTER BODY
 BISO cartridge allows lighter body design and easier casting.
- LEAD-FREE
 Optimal solution for lead-free policy products, because there is no contact between water and metal.



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



DIMENSIONS



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

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

Operation Torque	BISO 2	BISO 3
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

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

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

^{*} Find machinig requirements on pages 106-109.

DRY FAUCET SISO CARTRIDGES

DESCRIPTION

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

FEATURES



SOFT

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



DRY FAUCET

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



DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

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



• DIFFERENT OPTIONS AVAILABLE

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

SN-35 SISO 2

SN-35 *SISO 3*

REF.08SN35A0007

REF.08SN35A0008



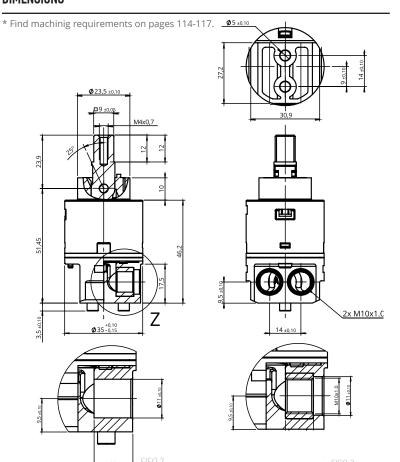






DOWNLOAD DATA SHEET

DIMENSIONS



RECOMMENDED APPLICATIONS



KITCHENS

Specially designed for kitchen sink.

CERTIFICATIONS











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

Operation Torque	SISO 2	SISO 3
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

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

^{*} Find machinig requirements on pages 106-109.

DRY FAUCET SISO CARTRIDGES

DESCRIPTION

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

FEATURES



SOFT

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



DRY FAUCET

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



DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

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



• DIFFERENT OPTIONS AVAILABLE

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

SN-35 *SISO STD*REF.08EN35A0003

SN-35 SISO COLD MIRROR REF.08EN35A1503





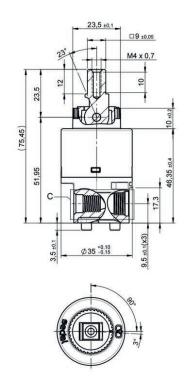


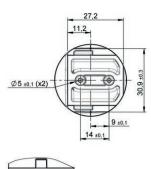


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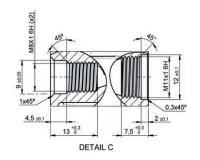
DIMENSIONS

^{*} Find machinig requirements on pages 114-117.









RECOMMENDED APPLICATIONS



KITCHENS Chasially design

Specially designed for kitchen sink.

CERTIFICATIONS











General	SISO STD	SISO COLD MIRROR
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	90°	93°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3 x2 ASME112.18.1 M	70,000 cycles 500,000 cycles	70,000 cycles 500,000 cycles
Sensitivity DN6 (1)	>10°	>10°
Fidelity (1)	<5°C	<5°
Max. recommended water temperature	60 - 65 °C	60 - 65 °C
Max. peak water temperature	90 °C	90 °C

Operation torque @ 3 bar	SISO STD	SISO COLD MIRROR
Open-close	0.25-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.15-0.40 Nm	0.20-0.40 Nm

Flow rate at Cold Start @ 3 bar ⁽¹⁾	SISO STD	SISO COLD MIRROR
Free flow	14,3 l/min	12,7 l/min
RhB	12,4 l/min	11 l/min

^{*} Find machinig requirements on pages 106-109.

REVOLVING GI-35

DESCRIPTION

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

FEATURES



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



TEMPERATURE LIMITER

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



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



REVOLVING

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



METALLIC LEVER

This revolving cartridge has metallic lever

ADVANTAGES

● 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



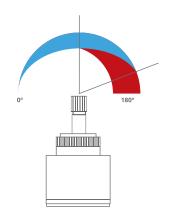


45° TURN

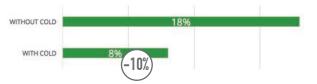
°C 3bar position 16 26° 12,5 35° 3 9 43° 15 4 5 50° 18 56° 5 6 19 61° 20 65°

COLD TECHNOLOGY

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



HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



GI-35 C/D

TR

REF.08GI35LBE64





DOWNLOAD DATA SHEET

GI-35 S/D

TR

REF. 08GI35FBE64





DOWNLOAD DATA SHEET

RECOMMENDED APPLICATIONS



DECORATIVE WASHBASINS

Specially designed for decorative faucets.

CERTIFICATIONS



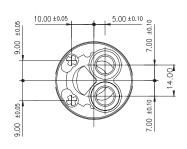


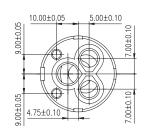


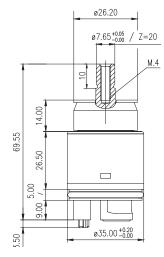


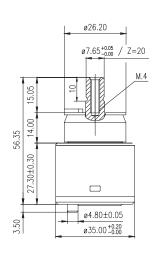


DIMENSIONS









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

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

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

^{*} Find machinig requirements on pages 106-109.

REVOLVING GI-35

GI-35 C/D

19

REF.08GI35LBE09



19

REF. 08GI35FBE09









DOWNLOAD DATA SHEET

DESCRIPTION

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

ADVANTAGES

BRASS OR PLASTIC SHAFT

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

RECOMMENDED APPLICATIONS



DECORATIVE WASHBASINSSpecially designed for decorative faucets.

CERTIFICATIONS

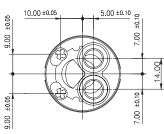


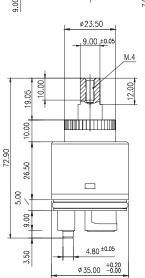


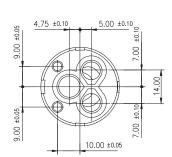


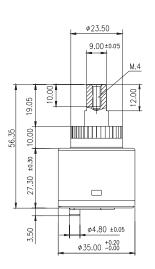


DIMENSIONS









* Find machinig requirements on pages 106-109.

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

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

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

GI-35 S/D

Z20

REF.08GI35LBE01

GI-35 S/D

720

REF. 08GI35FBE01









DOWNLOAD DATA SHEET

DESCRIPTION

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

ADVANTAGES

BRASS OR PLASTIC SHAFT

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

RECOMMENDED APPLICATIONS



DECORATIVE WASHBASINSSpecially designed for decorative faucets.

CERTIFICATIONS

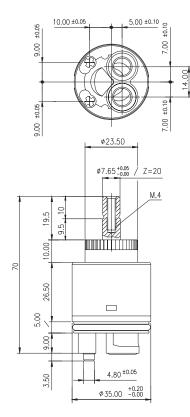


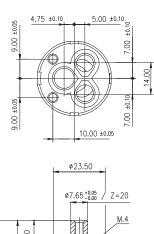


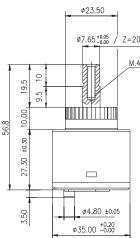




DIMENSIONS







^{*} Find machinig requirements on pages 106-109.

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

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

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

DIVERTER GD-35

DESCRIPTION

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

FEATURES



ON-OFF

ECO

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



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



METALLIC LEVER

This diverter cartridge has metallic lever.



ROTATION ANGLE Diverter cartridge with

180° rotation angle.



OUTLETS

Diverter cartridge with two outlets.

Cartridges identified

with an ECO icon offer at

least one environmental

sustainability feature.

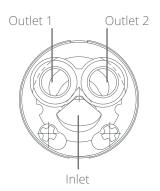
ADVANTAGES

- SURPASSES CONVENTIONAL DURABILITY STANDARDS Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal lever improves the user perception of quality and precision in a small cartridge.
- ROBUST DESIGN GD-35 has a robust design, withstanding higher levels of burst pressure.
- HIGHER FLOW RATE

The GD35 has a high flow rate @3 bar, allowing to build body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.

DIVERTER FUNCTIONALITY

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



GD-35 C/D

REF.08GD35LBE00

GD-35 S/D

REF.08GD35FBE00









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RECOMMENDED APPLICATIONS



SHOWERS DIVERTERSSpecially designed for

showers with diverters.

CERTIFICATIONS

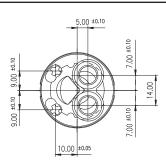


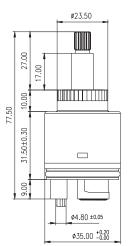


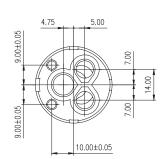


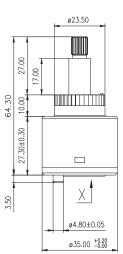


DIMENSIONS









$\boldsymbol{\star}$ Find machinig requirements on pages 106-109.

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

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

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

DIVERTER GD-35 4

DESCRIPTION

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

FEATURES



CO artridges id

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



CI ICK

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



OUTLETS

Diverter cartridge with two outlets.

ROTATION ANGLE

Diverter cartridge with 360° rotation angle.



METALLIC LEVER

This diverter cartridge has metallic lever.



SIDE INLET

The inlet of the diverter is located on the sides.

ADVANTAGES

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

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

HIGHER FLOW RATE

The GD35 has a high flow rate @3 bar, allowing to build body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.

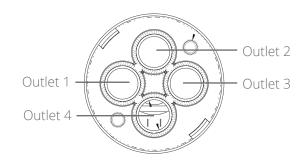
3 DIFFERENT SHAFTS LENGHT AVAILABLE

The GD35 is available with three different shaft lenghts to fullfill 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.



GD-35 S/D 4

REF. 08GD35S0001





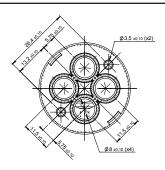
RECOMMENDED APPLICATIONS

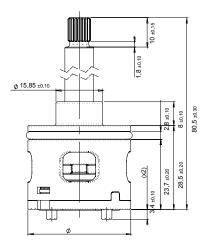


SHOWERS DIVERTERS

Specially designed for showers with diverters.

DIMENSIONS





^{*} Find machinig requirements on pages 106-109.

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
NF077	30,000 cycles
Max. hot water*	90 °C

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

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

JOYSTICK JY-35

DESCRIPTION

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

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

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

FEATURES

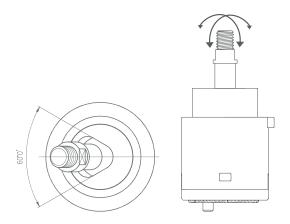




ADVANTAGES

- SMOOTH FEELING
 - 35mm joystick has a very smooth operational feeling that gives comfort to the user.
- NEW CERAMICS DISC GEOMETRY

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



ROBUST DESIGN

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

HIGHER FLOW RATE

JY-35 has higher flow rates than previous versions.

JY-35 C/D

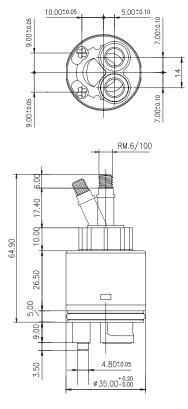
REF. 08JY35L001





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DIMENSIONS



* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.

CERTIFICATIONS











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

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

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

UPPER SEALING G-35 TOP

STANDARD C1 | DUE C2 | COLD Ch3 | COLD DUE C3

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



FLOW LIMITER Limit maximum water flow for water saving.



DUE

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



TEMPERATURE LIMITER

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

ADVANTAGES

HIGHER FLOWRATE

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

A PLUS IN SENSITIVITY

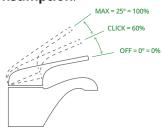
TOP has a **20% more sensitivity** than its closest competitor. It has a 12% more sensitivity than the average cartridges in the market.

• LOWER NOISE LEVEL

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

DUF 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.



EXTRAORDINARY COMFORT

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

MECHANICAL STRENGHT

TOP has a **25% more mechanical strenght** than Endura.

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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

G-35





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OTHER VERSIONS

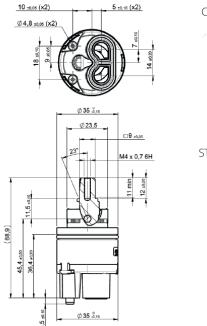
 TOP TR C1
 REF. 08G35L0502

 TOP TR DUE C2
 REF. 08G35L3501

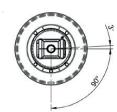
 TOP COLD TR Ch3
 REF. 08G35L2501

 TOP COLD DUE TR C3
 REF. 08G35L5002

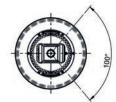
DIMENSIONS



COLD OPEN



STANDARD OPEN



* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS













General	G-35 TOP	G-35 TOP COLD
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 cyc.
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 NF-077	>12° angle	>12° angle
Fidelity NF-077	<5° C	<5° C
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	
Open-close	0.20÷0.40 Nm
Left-Right	0.20÷0.40 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

UPPER SEALING

G-35 | G-35 DUE

DESCRIPTION

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

FEATURES



TEMPERATURE LIMITER

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



ECO

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



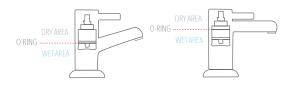
FLOW LIMITER

Limit maximum water flow for water saving.

ADVANTAGES

ALLOWS DIFFERENT FAUCET CONFIGURATIONS

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

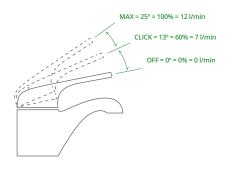


COMPATIBILITY

Lower sealing compatible with standard 35mm available.

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.



• UPPER SEALING WITH LIMITERS AVAILABLE

TEMPERATURE LIMITER FUNCTION (TR)

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





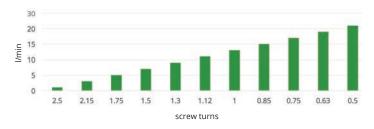
position	15° l/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



G-35 C/D





OWNLOAD

OTHER VERSIONS

C/D

Without limiters

REF. 08G35L0001

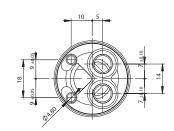
TRN

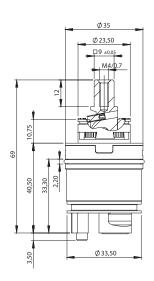
REF. 08RG35L4602

DUE TRN

REF. 08G35L0002

DIMENSIONS





* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS









General	C/D
Nut torque pitch M1.5	10-12Nm
Opening angle	23°
Rotation angle	96°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity (r=45mm)	>10° angle
Fidelity	<5° C
Max. hot water*	90 °C

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

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

UPPER SEALING

G-35 COLD

DESCRIPTION

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

FEATURES



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



COLD

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

ADVANTAGES

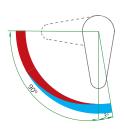
ADDITIONAL FEATURES

G-35 Cold has the same advantages than G-35, 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. Sedal has developed a new version of standard upper sealing cartidges of 35mm with cold start opening, which flows cold water when the lever is centered.

This energy saving feature will help the user to have a better control of energy consumption.



HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



G-35 C/D

COID

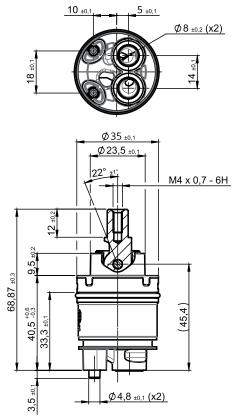
REF. 08G35L1502





DOWNLOAI Data Shee

DIMENSIONS



* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











General	C/D
Nut torque pitch M1.5	10-12Nm
Opening angle	22°
Rotation angle	93°
Working pressure (recommended)	1 - 5 bar
Burst pressure	>35 bar
Life cycle - EN 817	70,000 cycles
Sensitivity (r=45mm)	>10° angle
Fidelity	<5° C
Max. hot water*	90 °C

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

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

DIRECT PLUG-IN - CC-35 TOP

STANDARD C1 | DUE C2 | COLD Ch3 | COLD DUE C3

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



TEMPERATURE LIMITER

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



FLOW LIMITER Limit maximum water flow for water saving.

ADVANTAGES

MINIMALISM WITH HIGH PERFORMANCE
 Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the

ECO FEATURES

cartridges.

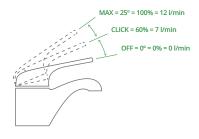
35 mm compact cartridges are available with a DUE option, a feature that provides up to 50% water saving thanks to a mid-way stop at 60% of the lever stroke.

ENHANCED PERFORMANCE

EX-35 Plus cartridge is a completely new design with enhanced performance, meeting the highest technical requirements.

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)

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





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**.



OTHER VERSIONS

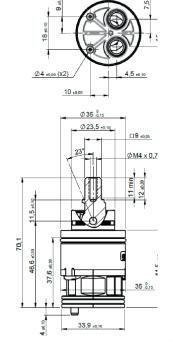
 TOP TR C1
 REF. 08CC35L0501

 TOP TR DUE C2
 REF. 08CC35L3502

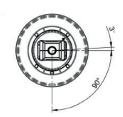
 TOP COLD TR Ch3
 REF. 08CC35L2501

 TOP COLD DUE TR C3
 REF. 08CC35L5002

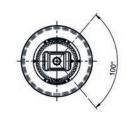
DIMENSIONS



COLD OPEN



STANDARD OPEN



* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS













General	CC-35 TOP	CC-35 TOP COLD
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 cyc.
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 NF-077	>12° angle	>12° angle
Fidelity NF-077	<5° C	<5° C
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C

Operation Torque	
Open-close	0.20÷0.40 Nm
Left-Right	0.20÷0.40 Nm

Flow rate (free flow)	CC-35 TOP	CC-35 TOP COLD
Free flow	26 l/min	26 l/min
A-Restrictor - Shower	12.7 l/min	12.7 l/min

DIRECT PLUG-IN CC-35

DESCRIPTION

cartridges sealed Upper 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



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



TEMPERATURE LIMITER

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



DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges



FLOW LIMITER

Limit maximum water flow for water saving.

ADVANTAGES

DIRFCT PLUG-IN

Hoses are threaded directly into the cartridge with direct inlet connections

MODERN FAUCET DESIGNS

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



COST SAVINGS

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

- Brass saving up to 8%
- Process saving up to 15%

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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



45° TURN



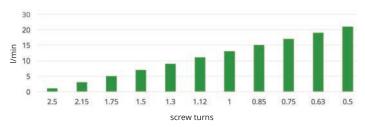
position	15° I/min	65° l/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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

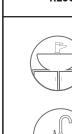


CC-35









RECOMMENDED APPLICATIONS

WASHBASINS Specially designed for washbasins.



Suitable for use in kitchens.



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OTHER VERSIONS

STANDARD

BASIC

Temperature limiter (TR) Temperature & flow limiter (TRN) REF. 08CC35L0001 REF. 08CC35L0002 REF.08CC35L4501 REF.08CC35L4502

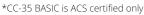
CERTIFICATIONS



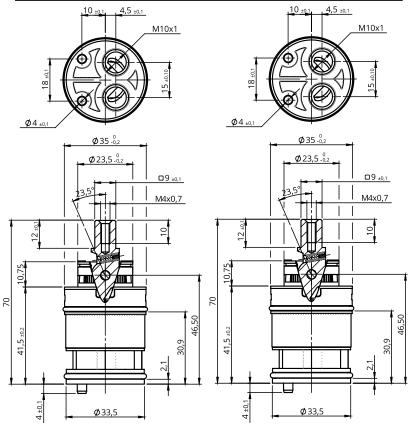








DIMENSIONS



* Find machinig requirements on pages 106-109.

General	CC-35
Nut torque pitch M1.5	10-12Nm
Opening angle	23.5°
Rotation angle	96°
Working pressure	1 - 5 bar
(recommended)	
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	11.5° angle
Fidelity	<5° C
Max. hot water*	90 °C

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

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

DIRECT PLUG-IN CC-35 DUE

DESCRIPTION

sealed cartridges Upper allow 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

Water flow

water saving.

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

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



TEMPERATURE LIMITER

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



FLOW LIMITER

Limit maximum water flow for water saving.



DIRECT PLUG IN

Water inlet hoses are plugged directly into the cartridges.

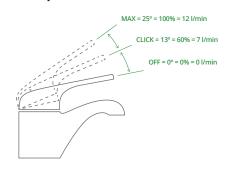
ADVANTAGES

ADDITIONAL FEATURES

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

DUE TECHNOLOGY

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



VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





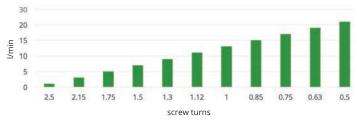
position	15° l/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



CC-35

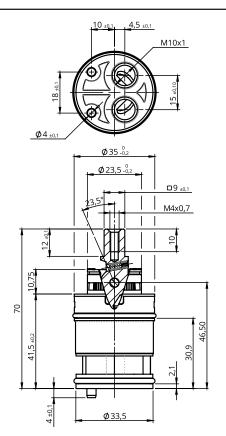
DUE BASIC



OTHER VERSIONS STANDARD BASIC

Temperature limiter (TR) - REF. 08CC35L5701

DIMENSIONS



* Find machinig requirements on pages 106-109.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS



General	CC-35 DUE TRN BASIC
Nut torque pitch M1.5	10-12Nm
Opening angle	23.5°
Rotation angle	96°
Working pressure	1 - 5 bar
(recommended)	
Burst pressure	>50 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	11.5° angle
Fidelity	<5° C
Max. hot water*	90 °C

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

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

COMPACT EX-35 TOP STANDARD C1 | DUE C2

DESCRIPTION

Compact 35mm cartridge allows the manufacturer for short faucets.

FEATURES



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



TEMPERATURE LIMITER

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



FLOW LIMITER
Limit maximum water flow for water saving.

ADVANTAGES

- MINIMALISM WITH HIGH PERFORMANCE
 Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges.
- ECO FEATURES

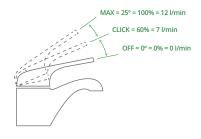
35 mm compact cartridges are available with a DUE option, a feature that provides up to 50% water saving thanks to a mid-way stop at 60% of the lever stroke.

ENHANCED PERFORMANCE

EX-35 Plus cartridge is a completely new design with enhanced performance, meeting the highest technical requirements.

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)

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





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**.





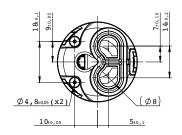


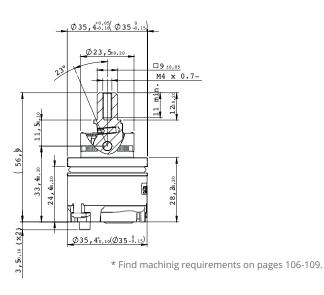


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OTHER VERSIONS	35 MM	35,4 MM
TOP C1	REF. 08EX35L0004	REF. 08EX35L0003
TOP TR C1	REF. 08EX35L0504	REF. 08EX35L0502
TOP TRN C1	REF. 08EX35L4505	REF. 08EX35L4504
TOP DUE TR C2	REF. 08EX35L3502	REF. 08EX35L3501

DIMENSIONS





RECOMMENDED APPLICATIONS



CONCEALED WASHBASINS

Specially designed for washbasins.



CONCEALED BATH-SHOWERS

Specially designed for bath showers.



CONCEALED KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











General	EX-35 TR TOP	
Nut torque pitch 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 (r=45mm) NF-077	>12°	
Fidelity NF-077	<5 °C	
Constant 63°C & 50°C (6 l/m & 3 l/m)	<4°C-6°C	
Max. hot water*	90 °C	

Operation Torque	EX-35 TR TOP
Open-close	0.2-0.4 Nm
Turn left-right	0.2-0.4 Nm

Noise level	EX-35 TR TOP
Noise level	<20 dB(A)

Flow rate (free flow)	EX-35 TR TOP	
at 3 bar	27,3 l/min	

COMPACT EX-35 TOP COLD Ch3 | COLD DUE C3

DESCRIPTION

Compact 35 mm cartridge allows the manufacturer for short faucets.

FEATURES



COLD

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



DUE

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



TEMPERATURE LIMITER

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



FLOW LIMITER

Limit maximum water flow for water saving.

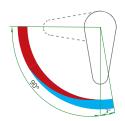
ADVANTAGES

ADDITIONAL FEATURES

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

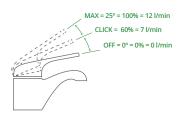
COLD TECHNOLOGY

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)

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





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**.





DOWNLOAD DATA SHEET



TOP COLD Ch3 TOP COLD TR Ch3 TOP COLD TRN Ch3 TOP COLD DUE TR C3

35 MM REF. 08EX35L1503

REF. 08EX35L2503 REF. 08EX35L4003

REF. 08EX35L5003

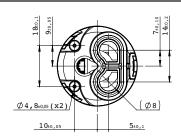
DOWNLOAD DATA SHEET

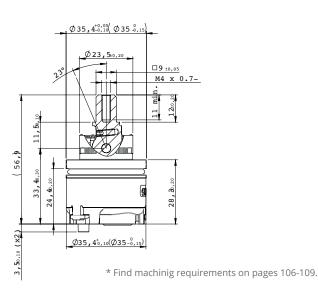
35.4 MM

REF. 08EX35L1502 REF. 08EX35L2502 REF. 08EX35L4002

REF. 08EX35L5002

DIMENSIONS





RECOMMENDED APPLICATIONS



CONCEALED WASHBASINS

Specially designed for washbasins.



CONCEALED KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











General	EX-35 TR TOP	
Nut torque pitch M1.5	10-12Nm	
Opening angle	23°	
Rotation angle	93°	
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 (r=45mm) NF-077	>12°	
Fidelity NF-077	<5 °C	
Constant 63°C & 50°C (6 l/m & 3 l/m)	<4°C-6°C	
Max. hot water*	90 °C	

Operation Torque	EX-35 TR TOP
Open-close	0.2-0.4 Nm
Turn left-right	0.2-0.4 Nm

Noise level	EX-35 TR TOP
Noise level	<20 dB(A)

Flow rate (free flow)	EX-35 TR TOP
at 3 bar	27,3 l/min

COMPACT EX-35

DESCRIPTION

Compact 35 mm cartridge allows the manufacturer for short faucets.

FEATURES



EC0

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



FLOW LIMITER

Limit maximum water flow for water saving.



TEMPERATURE LIMITER

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

ADVANTAGES

MINIMALISM WITH HIGH PERFORMANCE

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

ECO FEATURES

35 mm and 40mm compact cartridges are available with a due option, a feature that provides up to 50% water saving thanks to a mid-way stop at 60% of the lever stroke.

35mm cartridge is also available with temperature and flow limiters.

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





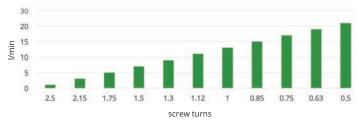
position	15° I/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



EX-35 *TRN*REF. 08EX35S0001 (TRN)





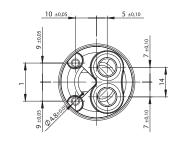


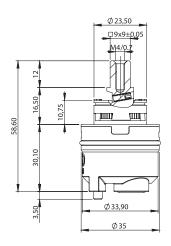
OTHER VERSIONS

Without limiters

REF. 08EX35S1001

DIMENSIONS





RECOMMENDED APPLICATIONS



CONCEALED WASHBASINS

Specially designed for washbasins.



CONCEALED BATH-SHOWERS

Specially designed for bath showers.



CONCEALED KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











General	EX-35 TRN
Nut torque pitch M1.5	10-12Nm
Opening angle	24°
Rotation angle	96°
Working pressure	1 - 5 bar
(recommended)	
Burst pressure	56 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	10°-12° angle
Fidelity	3 °C
Max. hot water*	90 ℃

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

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

COMPACT EX-35 DUE

DESCRIPTION

Compact 35 mm cartridge allows the manufacturer for short faucets.

FEATURES



EC0

DUE

Water flow

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

optimization thanks to

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



TEMPERATURE LIMITER

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



FLOW LIMITER

Limit maximum water flow for water saving.

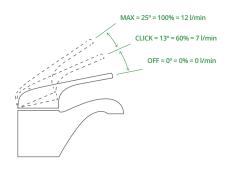
ADVANTAGES

ADDITIONAL FEATURES

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

DUF 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)

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





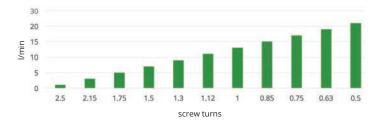
position	15° l/min	65° I/min	°C 3bar	
1	16	4	26°	
2	12,5	7,5	35°	
3	9	11	43°	
4	5	15	50°	
5	2	18	56°	
6 7	1 0	19 20	61°	
			65°	

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



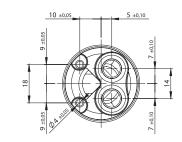
EX-35 *TRN DUE*REF. 08EX35S3501 (TRN)

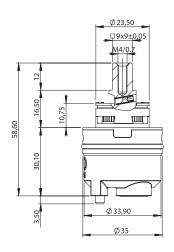




DOWNLOAD DATA SHEET

DIMENSIONS





RECOMMENDED APPLICATIONS



CONCEALED WASHBASINS

Specially designed for washbasins.



CONCEALED BATH-SHOWERS

Specially designed for bath showers.



CONCEALED KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











General	EX-35 TRN
Nut torque pitch M1.5	10-12Nm
Opening angle	24°
Rotation angle	96°
Working pressure	1 - 5 bar
(recommended)	
Burst pressure	56 bar
Life cycle - EN 817	70,000 cycles
Sensitivity	10°-12° angle
Fidelity	3 ℃
Max. hot water*	90 ℃

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

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

MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

DIAMETER	CARTRIDGE	REFERENCE	PAGE
	EN-35 C/D TOP C1	08EN35L0023	46
	EN-35 C/D TOP DUE C2	08EN35L3504	46
	EN-35 C/D TOP HIGH FLOW	08EN35L0507	46
	EN-35 C/D TOP COLD Ch3	08EN35L2502	48
	EN-35 C/D TOP COLD DUE C3	08EN35L5002	48
	EN-35 C/D TOP COLD MIRROR	08EN35L2503	48
	EN-35 C/D TOP COLD MIRROR DUE	08EN35L5003	48
	SN-35 C/D ENDURA	08SN35L0013	50
	SN-35 C/D ENDURA DUE	08SN35L3001	50
	SN-35 C/D ENDURA COLD	08SN35L1502	52
	SN-35 C/D ENDURA COLD DUE	08SN35L0004	52
	EN-35 C/D ENDURA	08EN35L0004	54
	EN-35 C/D ENDURA DUE	08EN35L3001	54
	EN-35 C/D ENDURA COLD	08EN35L1503	56
35 mm	EN-35 S/D ENDURA COLD MIRROR	08EN35L1505	56
33 11111	EN-35 C/D ENDURA COLD DUE	08EN35L0005	56
	EN-35 C/D ENDURA COLD MIRROR DUE	08EN35L2002	56
	EN-35 C/D	08EN35L0003	58
	EN-35 C/D DUE	08E35LAZ31	59
	SN-35 C/D	08SN35LGO00	60
	TRN-35 C/D	08RN35LVE01	61
	EN-35 C/D BG BASIC	08EN35L0011	62
	SN-35 C/D ECOFLOW	08SN35L0008	64
	SN-35 C/D TERMACLICK	08SN35L2003	66
	SN-35 C/D TERMACLICK MIRROR	08SN35L2004	68
	GI-35 C/D	08GI35LBE64	76
	GI-35 C/D L9	08GI35LBE09	78
	GI-35 C/D Z20	08GI35LBE01	78
	GD-35 C/D	08GD35LBE00	80
	JY-35 C/D	08JY35L001	84

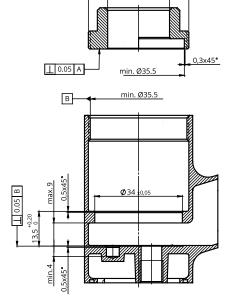
2x \$\phi 5 \cdot 0.05\$

2x max. \$\phi 8\$

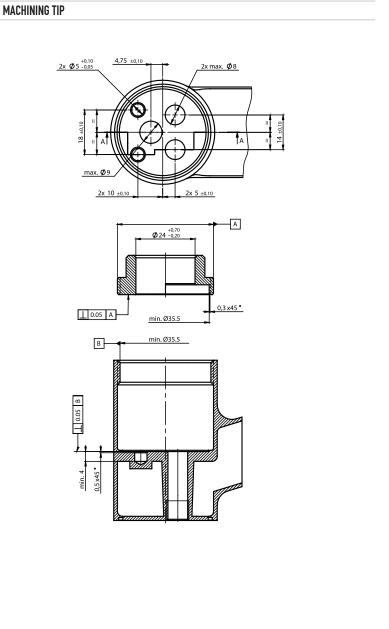
2x 5 ±0,10

Α

MACHINING TIP



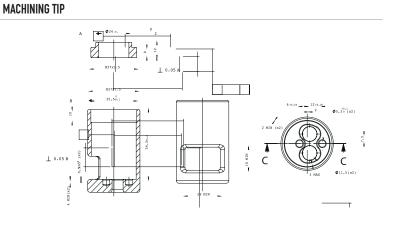
DIAMETER	CARTRIDGE	REFERENCE	PAGE
	EN-35 S/D TOP C1	08EN35S0023	46
	EN-35 S/D TOP DUE C2	08EN35S3504	46
	EN-35 S/D TOP HIGH FLOW	08EN35S0507	46
	EN-35 S/D TOP NIEDERDRUCK	08EN35S0506	46
	EN-35 S/D TOP COLD	08EN35S4003	48
	EN-35 S/D TOP COLD DUE C3	08EN35S5002	48
	EN-35 S/D TOP COLD MIRROR	08EN35S2503	48
	EN-35 S/D TOP COLD MIRROR DUE	08EN35S5003	48
	SN-35 S/D ENDURA	08SN35S0013	50
	SN-35 S/D ENDURA DUE	08SN35S3001	50
	SN-35 S/D ENDURA COLD	08SN35S1502	52
	SN-35 S/D ENDURA COLD DUE	08SN35S0004	52
	EN-35 S/D ENDURA	08EN35S0004	54
	EN-35 S/D ENDURA DUE	08EN35S3001	54
25	EN-35 S/D ENDURA COLD	08EN35S1503	56
35 mm	EN-35 S/D ENDURA COLD MIRROR	08EN35S1505	56
	EN-35 S/D ENDURA COLD DUE	08EN35S0005	56
	EN-35 S/D ENDURA COLD MIRROR DUE	08EN35S2002	56
	EN-35 S/D	08EN35S0003	58
	EN-35 S/D DUE	08E35FAZ31	59
	SN-35 S/D	08SN35FGO00	60
	TRN-35 S/D	08RN35FVE01	61
	EN-35 S/D BG BASIC	08EN35S0011	62
	SN-35 S/D ECOFLOW	08SN35S0009	64
	SN-35 S/D TERMACLICK	08SN35S2003	66
	SN-35 S/D TERMACLICK MIRROR	08SN35S2004	68
	GI-35 S/D	08GI35FBE64	76
	GI-35 S/D L9	08GI35FBE09	78
	GI-35 S/D Z20	08GI35FBE01	79
	GD-35 S/D	08GD35FBE00	80



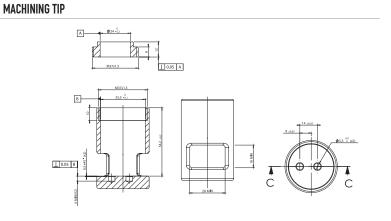
MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

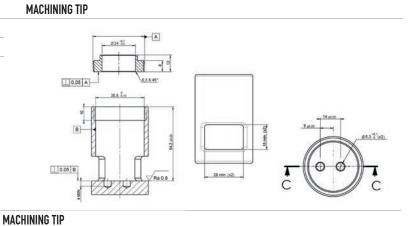
DIAMETER	CARTRIDGE	REFERENCE	PAGE
35 mm	SN-35 BISO 3	08SN35B0001	70
	SN-35 BISO 2	08SN35B0002	70



DIAMETER	CARTRIDGE	REFERENCE	PAGE	
35 mm	SN-35 SISO 3	08SN35A0001	72	
	SN-35 SISO 2	08SN35A0002	72	



DIAMETER	CARTRIDGE	REFERENCE	PAGE
35 mm	SN-35 SISO STD	08EN35A0003	74
	SN-35 SISO COLD MIRROR	08EN35A1503	74

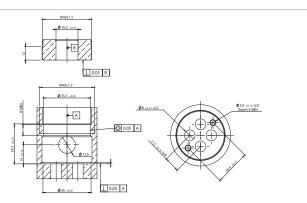


DIAMETER	CAKIKIDUE	KELEKENCE	PAUE
35 mm	GD-35 S/D 4	08GD35S0004	82

DEFEDENCE

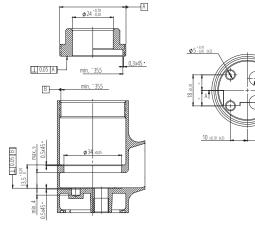
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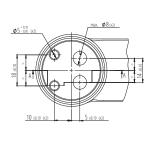
DIAMETED CAPTRIDGE



DIAMETER	CARTRIDGE	REFERENCE	PAGE
	G-35 C/D TOP C1	08G35L0502	86
	G-35 C/D TOP COLD Ch3	08G35L2501	86
35 mm	G-35 C/D	08RG35L4602	88
	G-35 C/D DUE	08G35L0002	88
	G-35 C/D COLD	08G35L1501	88

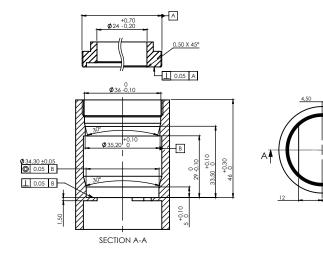
MACHINING TIP





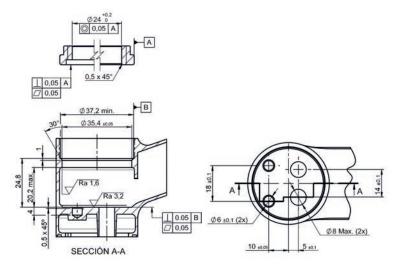
DIAMETER	CARTRIDGE	REFERENCE	PAGE
35 mm	CC-35 C/D TOP C1	08CC35L0501	92
	CC-35 C/D TOP COLD Ch3	08CC35L2501	92
	CC-35	08CC35L0003	94
	CC-35 BASIC	08CC35L0016	94
	CC-35 DUE	08CC35L4502	96

MACHINING TIP



DIAMETER	CARTRIDGE	REFERENCE	PAGE	
	EX-35 TOP C1	08EX35L0504	98	
	EX-35 TOP DUE C2	08EX35L3502	98	
25	EX-35 TOP COLD Ch3	08EX35L2502	100	
35 mm	EX-35 TOP COLD DUE C3	08EX35L5003	100	
	EX-35 TRN	08EX35S0001	102	
	EV 25 TPN DITE	N9EY25C25N1	104	

MACHINING TIP





\mathbf{I}	IEDI	RA	TEMP. LIMITER	FLOW LIMITER		CODE	PG
	THEDRA	√	√	CD SD	08SN40L0001 08SN40S0001	<u>112</u>	
		DUE	√	-	CD SD	08SN40L3001 08SN40S3001	112
NS P		NIEDERDRUCK	√	-	SD	08SN40S0007	<u>112</u>
	9	COLD	✓	✓	CD SD	08SN40L1501 08SN40S1501	<u>114</u>
		COLD DUE	✓	√	CD SD	08SN40L5501 08SN40S5501	<u>114</u>

HIGH FI NW	ı	TEMP.	FLOW		CODE	PG
> 1	GC-40	LIMITER	LIMITER ✓	CD SD	08GC40L0001 08GC40S0001	<u>130</u>
40MM	GC-40 DUE	✓	-	CD SD	ON DEMAND ON DEMAND	<u>132</u>
45MM	GC-45	-	-	SD	08GC45FBE00	<u>134</u>

SI	TAND	ARD	TEMP. LIMITER	FLOW LIMITER		CODE	PG
		EN-40	-	-	CD SD	08EN40LAZ00 08EN40FAZ00	<u>116</u>
	_	E-40 DUE	-	-	SD	08E40FAZ30	<u>117</u>
H		E-40 C1	-	-	CD SD	08EN40L1002 08EN40S1002	<u>118</u>
я В		E-40 C2	-	-	CD SD	08EN40L3005 08EN40S3005	<u>119</u>
		EN-40 COLD DUE	-	-	CD SD	08EC40L3003 08EC40S3003	<u>120</u>
		EN-40 COLD MIRROR DUE	-	-	CD SD	08EC40L2001 08EC40S2001	<u>122</u>
NS		SN-40	-	-	CD SD	08SN40LAZ00 08SN40SAZ00	<u>124</u>
TRN		TRN-40	V	√	CD SD	08RN40LVE00 08RN40FVE00	<u>125</u>

S	PECI	ALS	TEMP. LIMITER	FLOW LIMITER		CODE	PG
91	я	GI-40 L10 TR	√	-	CD SD	08GI40LBE64 08GI40FBE64	<u>136</u>
REVOLVING		GI-40 Z20	-	-	CD SD	08GI40LBE00 08GI40FBE00	138
. H	0	GI-40 L10	-	-	CD SD	08GI40LBE10 08GI40FBE10	139
DIVERTER		GD-40	-	-	SD	08GD40S0001	<u>140</u>
JOYSTICK		JY-40	-	-	CD SD	08JY40LBE00 08JY40FBE00	<u>142</u>
PB		PB-40	V	V	CD	08PB40L0001	<u>144</u>

B	ASIC		TEMP. LIMITER	FLOW LIMITER		CODE	PG
BASIC		BG BASIC	-	-	CD SD	08DN40LBG01 08DN40FBG01	<u>126</u>
E	COFL	NW	TEMP. LIMITER	FLOW I IMITER		CODE	PG
			LIIVIIILIN	LIIVIIILK			

UF SE	PPEF FALII	R NG	TEMP. LIMITER	FLOW LIMITER		CODE	PG
SEAL.	6	G-40	✓	√	CD	08G40LBE00	<u>146</u>
UPPER SEAL.		G-40 DUE	✓	√	CD	08G40LBE30	<u>146</u>
COMPACT	4	EX-40	√	√	CD	08EX40S0001	148
COM		EX-40 DUE	V	✓	CD	08EX40S3001	148

SN-40 THEDRA STANDARD | DUE

DESCRIPTION

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

ADVANTAGES

SN TECHNOLOGY

Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).

CHALLENGE, TECHNOLOGY

Careful design, ceramic expertise, several smart technologies, high performance materials and extraordinarily precise components are used to build the new THEDRA cartridges.

• GREAT RANGE. 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.

ENJOYTHE 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.

DUE TECHNOLOGY

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

FEATURES



SOFT

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



ECI

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



TEMPERATURE LIMITER

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



FLOW LIMITER

Limit maximum water flow for water saving.

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





position	15° I/min	65° I/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 C/D

THEDRA

REF. 08SN40L0001





DATA SHEET

SN-40 S/D

THEDRA

REF. 08SN40S0001





DOWNLOAD DATA SHEET

OTHER VERSIONS

THEDRA TR

THEDRA TRN

THEDRA Niederdruck⁽¹⁾

THEDRA DUE

THEDRA DUE TR

THEDRA DUE TRN

CD SD

REF.08SN40L0501 REF.08SN40L4501

REF. 08SN40S0501 REF. 08SN40S4501

REF. 08SN40S0007 REF.08SN40L3001

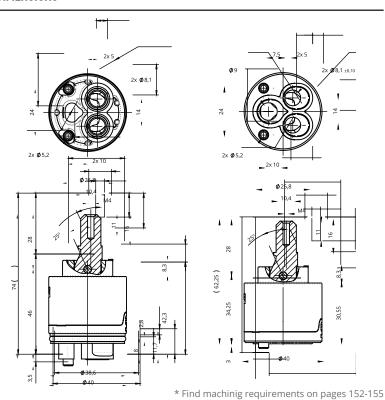
REF.08SN40L3501

on demand

REF.08SN40S3001 REF.08SN40S3501

on demand

DIMENSIONS



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3 x2 ASME x2 GB18145 Sensitivity Fidelity	175,000 cycles 1,000,000 cycles 140,000 cycles >10-12 mm <3°	175,000 cycles 1,000,000 cycles 140,000 cycles >10-12 mm <3°
Constant 63 °C & 50 °C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C
Max. hot water*	90 °C	90 °C
Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

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

Flow rate (free flow)	C/D	S/D
at 0.2 bar	8.3 l/min	7.6 l/min
at 1 bar	18.3 l/min	16.6 l/min
at 3 bar	31.5 l/min	28.6 l/min
at 5 bar	40.1 l/min	37 l/min
at 3 bar (Niederdruck¹)	-	14.8 l/min

-Hammer test NF-077.

SN-40 THEDRA COLD | COLD DUE

DESCRIPTION

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

FEATURES



SOFT

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



TEMPERATURE LIMITER

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



COLD

ECO

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

Cartridges identified

sustainability feature.

with an ECO icon offer at

least one environmental



FLOW LIMITER

Limit maximum water flow for water saving.



DIIF

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

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.



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.





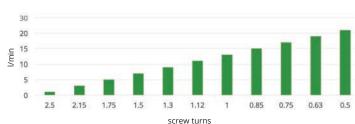
position	15° I/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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

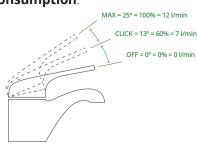


The flow can be limited thanks to the screw located in the cartridge lever. By turning the screw, the flow obtained will be reduced, saving up to 22% of daily water consumption.



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.



SN-40 C/D THEDRA COLD

REF. 08SN40L1501





SN-40 S/D THEDRA COLD

REF. 08SN40S1501





OTHER VERSIONS

THEDRA COLD TR THEDRA COLD TRN THEDRA COLD DUE THEDRA COLD DUE TR

THEDRA COLD DUE TRN

REF.08SN40L2501 REF. 08SN40L4001 REF. 08SN40L5501 REF. 08SN40L5001

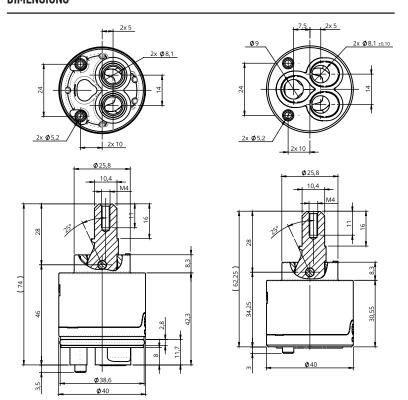
REF. 08SN40L5501

CD

REF.08SN40S2501 REF.08SN40S4001 REF. 08SN40S5501 REF. 08SN40S5001 REF. 08SN40S5501

SD

DIMENSIONS



* Find machinig requirements on pages 152-155

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

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

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

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

Flow rate (free flow)	C/D	S/D
at 0.2 bar	4.4 l/min	4 l/min
at 1 bar	8.1 l/min	7.5 l/min
at 3 bar	14.2 l/min	13.3 l/min
at 5 bar	16.5 l/min	15.4 l/min

-Hammer test NF-077.

FLOW RATE FIGURES AT COLD POSITION

STANDARD CARTRIDGES

EN-40 C/D

REF.08EN40LAZ00

EN-40 S/D

REF.08EN40FAZ00



DOWNLOAD DATA SHEET





DOWNLOAD DATA SHEET

5.00 ±0.10

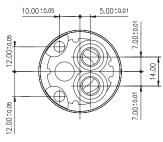
10,00 ±0.05

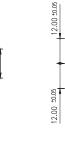
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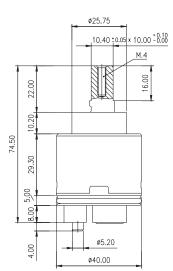
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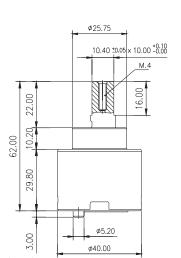
7.50 ±0.10

DIMENSIONS









* Find machinig requirements on pages 150-153.

DESCRIPTION

Standard 40 mm cartridge.cartridge.

ADVANTAGES

Classic standard cartridge of Sedal.

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











TECHNICAL SPECIFICATIONS

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

Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm
Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.6 l/min	10.4 l/min
at 1 bar	15 l/min	14.7 l/min
at 3 bar	26 l/min	25.5 l/min
at 5 bar	33.4 l/min	32.7 l/min

Only applies to officially listed products.

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

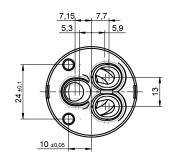
*Peak or limited time condition.

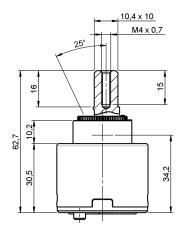
E-40 S/D *DUE*REF.08E40FAZ30 CT





DIMENSIONS





DESCRIPTION

Standard 40mm cartridge with DUE technology.

FEATURES



ECOEnvironmental sustainability features.



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

ADVANTAGES

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

RECOMMENDED APPLICATIONS







CERTIFICATIONS











TECHNICAL SPECIFICATIONS

	- 15
General	S/D
Nut torque pitch M1.5	10-12Nm
Opening angle	25°
Rotation angle	100°
Working pressure (recommended)	1 - 5 bar
Burst pressure	≥55 bar
Life cycle - EN 817	175,000 cycles
ASME 112.18.1 M	500,000 cycles
Sensitivity	-
Max. hot water*	90 °C

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	21.3l/min

STANDARD CARTRIDGES

E-40 C/D C1

REF.08EN40L1002

E-40 S/D C1

REF. 08EN40S1002





DESCRIPTION

Standard 40mm cartridge

ADVANTAGES

NF C1 (ECAU) requirements met.





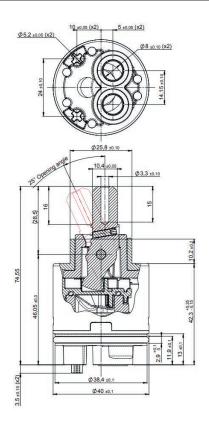
RECOMMENDED APPLICATIONS

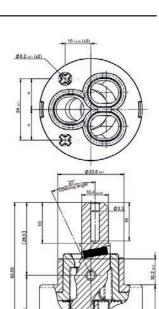






DIMENSIONS





CERTIFICATIONS













TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110°	110°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
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*	60 - 65 °C	60 - 65 °C

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

Flow rate (free flow)	C/D	S/D
at 3 bar	27,5 l/min	25.3 l/min

E-40 C/D C2

REF.08EN40L3005

E-40 S/D C2

REF. 08EN40S3005







DESCRIPTION

Standard cartridge with water saving (DVE) technology.

FEATURES



ECOEnvironmental sustainability features.



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

ADVANTAGES

NF C2 (ECAU) Requeriments are met

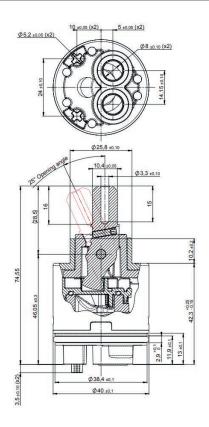
RECOMMENDED APPLICATIONS

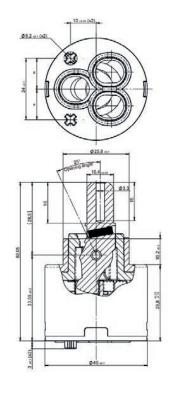






DIMENSIONS





CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	110°	110°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
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*	60 - 65 °C	60 - 65 °C

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

Flow rate (free flow)	C/D	S/D
at 3 bar	27,5 l/min	25.3 l/min

STANDARD EN-40 COLD DUE

DESCRIPTION

Standard 40mm cartridge meeting NF C3 (ECAU) Requeriments

FEATURES



EC0

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



COLD

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



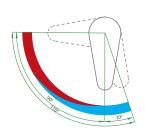
DUE

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

ADVANTAGES

COLD TECHNOLOGY

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



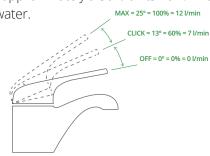
HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %



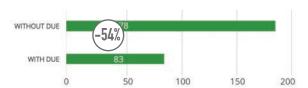
DUE TECHNOLOGY

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

MAX = 25° = 100% = 12 I/min



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



EN-40 C/D EC-40 COLD DUE

REF.08EC40L3003



EN-40 S/D EC-40 COLD DUE REF. 08EC40S3003



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



KITCHENS

Suitable for use in kitchens.







CERTIFICATIONS





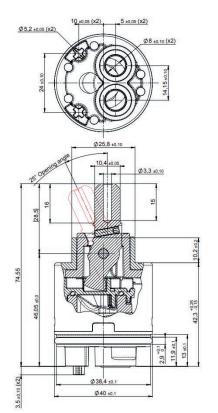


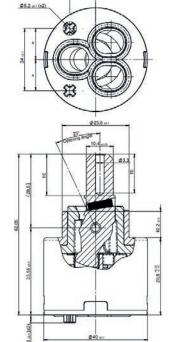






DIMENSIONS





TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>30 bar	>30 bar
Life cycle NF-077 (U3)	175,000 cycles	175,000 cycles
Sensitivity (r=45 mm)	>10 mm	>10 mm
NF-077	>10111111	>10111111
Fidelity NF-077	<5°	<5°
Max. hot water*	60-65 °C	60-65 °C

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

Flow rate (free flow)	C/D	S/D
at 0,5 bar	4,7 l/min	4,3 l/min
at 1 bar	6,6 l/min	6,3 l/min
at 3 bar	11,8 l/min	11,4 l/min
at 5 bar	15 l/min	14,7 l/min

Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

^{*}Peak or limited time condition.

STANDARD EN-40 COLD MIRROR DUE

DESCRIPTION

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

FEATURES



ECO

COLD

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

Energy saving feature

thanks to the internal

design of the cartridge,

flowing cold water when the lever is centered.



DUE

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



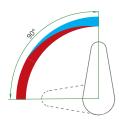
MIRROR

Movement from right to left o obtain hot water.

ADVANTAGES

COLD TECHNOLOGY

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

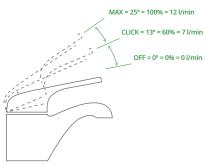


• SPECIALLY DESIGNED FOR KITCHEN APPLICATIONS

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

DUE TECHNOLOGY

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





EN-40 C/D EC-40 COLD MIRROR DUE REF.08EC40L2001





EN-40 S/D EC-40 COLD MIRROR DUE REF. 08EC40S2001





RECOMMENDED APPLICATIONS



WASHBASINS

Suitable for vertical configuration washbasins



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS





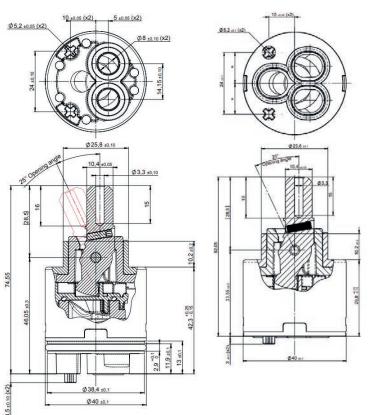








DIMENSIONS



* Find machinig requirements on pages 152-155

TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	23°	23°
Rotation angle	110°	110°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817 NF U3	175,000 cycles	175,000 cycles
x2 ASME	1,000,000 cycles	1,000,000 cycles
x2 GB18145	140,000 cycles	140,000 cycles
Sensitivity NF-077	>12° angle	>12° angle
Fidelity NF-077	<2°C	<3°C
Max. hot water*	90 °C	90 °C

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

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

STANDARD CARTRIDGES

SN-40 C/D

REF.08SN40LAZ00

SN-40 S/D

REF.08SN40FAZ00







DESCRIPTION

40 mm cartridge.

ADVANTAGES

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

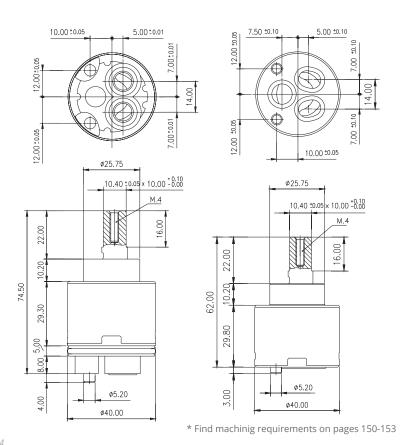
RECOMMENDED APPLICATIONS







DIMENSIONS



CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	CD	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	72 bar	68-77 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	10°-12° angle	13°-15° angle
Fidelity	-	4.5 ℃
Max. hot water	90 °C	90 °C

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

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

Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

*Peak or limited time condition.

TRN-40 C/D

REF.08RN40LVE00

TRN-40 S/D

REF.08RN40FVE00

DESCRIPTION

40 mm cartridge.

ADVANTAGES

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







RECOMMENDED APPLICATIONS

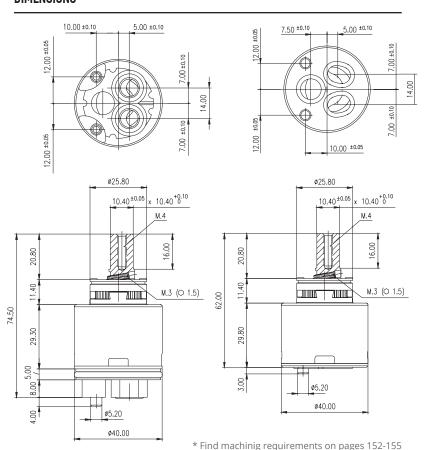








DIMENSIONS



CERTIFICATIONS











TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	60-72 bar	55-65 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	8°-10° angle	9.6° -9.7° angle
Fidelity	3℃	-
Max. hot water	90 °C	90 °C

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

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

BASIC CARTRIDGES

DESCRIPTION

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

ADVANTAGES

Entry-level product with Sedal high-reliability.

DN-40 C/D

BG BASIC

REF. 08DN40LBG01





DOWNLOAD DATA SHEET

DN-40 S/D

BG BASIC

REF. 08DN40FBG01





DOWNLOAD DATA SHEET

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



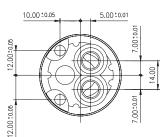
KITCHENS

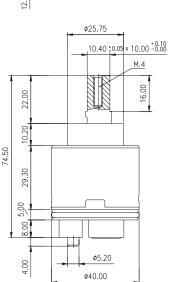
Suitable for use in kitchens.

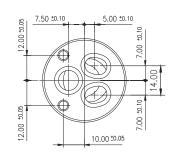
CERTIFICATIONS

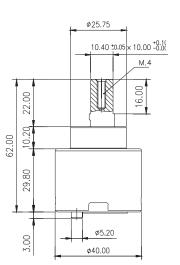


DIMENSIONS









* Find machinig requirements on pages 152-155

TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
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	15°-17° angle	16°-17° angle
Constant 63 °C & 50 °C	<0.5°C - <1.7°C	<0.8°C - <1.7°C
(6 l/min - 3 l/min)		
Max. hot water*	90 °C	90 °C

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

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

SN-40 CARTRIDGES

DESCRIPTION

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

FEATURES



ECO

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



SOFT

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





REGULATIONS This cartridge is optimized according to WaterSense and Water



RESTRICTOR

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

ADVANTAGES

SN TECHNOLOGY

Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life)

IMPROVED FLOW-RATE VS HANDLE STROKE

Existing solutions offer a very limited opening stroke to regulate the flow. With ECOFLOW, the entire stroke is available.



REDUCES TEMPERATURE FLUCTUATION

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



THE USAGE OF A RESTRICTOR IS OPTIONAL

The flow rate reduction is carried out at the right place. With ECOFLOW the usage of a limiter or restrictor is optional.

SN-40 C/D ECOFLOW REF.08SN40L0003





SN-40 S/D ECOFLOW REF.08SN40S0004





RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS











* Optimised for WaterSense and WaterLabel

TECHNICAL SPECIFICATIONS

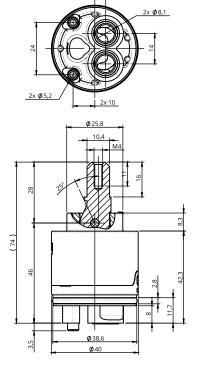
General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	25°
Rotation angle	100°	100°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>70-80 bar	>60-70 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
GB18145	70,000 cycles	70,000 cycles
Sensitivity	>11-13 mm	>11-13 mm
Fidelity	<3°	<3°
Constant 63 °C & 50 °C	<4°C - <6°C	<4°C - <6°C
(6 l/min - 3 l/min)		
Max. hot water*	90 °C	90 °C
Operation Torque	C/D	S/D
Open-close	0.20-0.40 Nm	0.20-0.40 Nm
Turn left-right	0.20-0.40 Nm	0.20-0.40 Nm

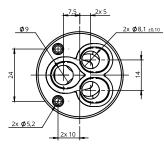
Flow rate (free flow)	C/D	S/D
at 0.1 bar	1.5 l/min	1.5 l/min
at 1 bar	4.5 l/min	4.5 l/min
at 3 bar	7.7 l/min	7.7 l/min
at 5 bar	9.6 l/min	9.6 l/min

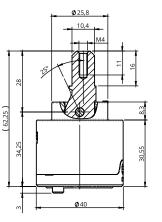
Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

*Peak or limited time condition.

DIMENSIONS







HIGH FLOW GC-40 THEDRA

DESCRIPTION

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

FEATURES



ECO

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

Up to 40% softer lever

cartridges thanks to

a clutched ceramic operation design.

operation than standard



TEMPERATURE LIMITER

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



FLOW LIMITER

Limit maximum water flow for water saving.

ADVANTAGES

SN TECHNOLOGY

Ceramics discs do not move in close position providing a unique smoothness of operation and higher durability (up to 20% longer life).

CHALLENGE, TECHNOLOGY

Careful design, ceramic expertise, several smart technologies, high performance materials and extraordinarily precise components are used to build the new THEDRA cartridges.

• GREAT RANGE. 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.

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





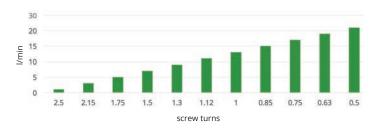
position	15° I/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

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**.





DATA SHEET

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



DOWNLOAD DATA SHEET

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

OTHER VERSIONS

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

REF.08GC40L0501 REF.08GC40L4501

CD

REF.08GC40S0501 REF. 08GC40S4501

SD

CERTIFICATIONS



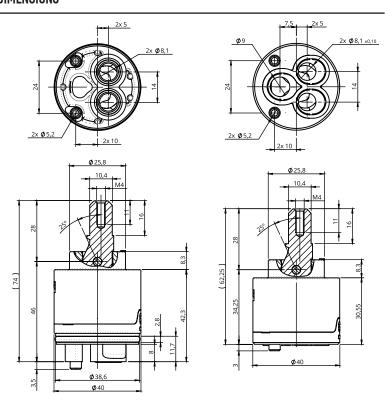








DIMENSIONS



TECHNICAL SPECIFICATIONS

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

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

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

HIGH FLOW GC-40 THEDRA DUE

DESCRIPTION

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

FEATURES



ECO

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



DUE

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

SOFT

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

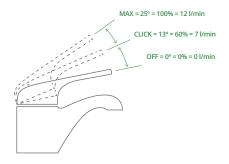
ADVANTAGES

ADDITIONAL FEATURES

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

DUE TECHNOLOGY

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



GC-40 C/D THEDRA DUE REF. on demand





GC-40 S/D THEDRA DUE REF. on demand





RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS



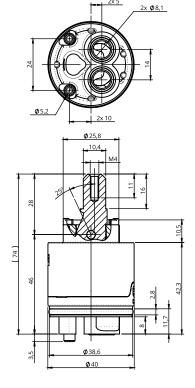


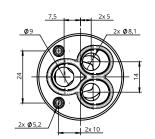


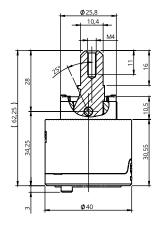




DIMENSIONS







TECHNICAL SPECIFICATIONS

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

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

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

HIGH FLOW GC-45

GC-45 S/D

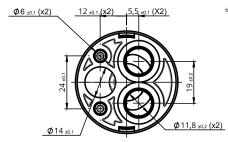
REF. 08GC45FBE00



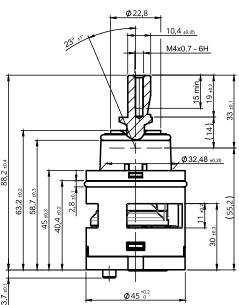


OWNLOA

DIMENSIONS



* Find machinig requirements on pages 152-155



DESCRIPTION

45mm high flow cartridge.

FEATURES



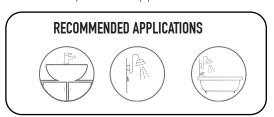
SOFT

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

ADVANTAGES

MAXIMUM FLOW RATE

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



CERTIFICATIONS



TECHNICAL SPECIFICATIONS

General	S/D
Nut torque pitch M1.5	10-12Nm
Opening angle	23°
Rotation angle	100°
Working pressure	1 - 5 bar
(recommended)	
Burst pressure	>35 bar
Life cycle - EN 817	70,000 cycles
x2 ASME 112.18.1 M	500,000 cycles
Max. hot water*	90 °C

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

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

REVOLVING GI-40

DESCRIPTION

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

FEATURES



ECO

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



TEMPERATURE LIMITER

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



COLD

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



to 180°.

REVOLVING

This cartridge has a

turning lever from 0°

ADVANTAGES

● 180° ROTATION ANGLE

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

EASY REVOLVING MOVEMENT

Smooth revolving movement for a comfort operation to the user.

TR TECHNOLOGY

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

TEMPERATURE LIMITER FUNCTION

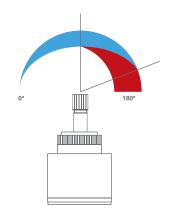




position 15° °C 3bar 16 26° 12,5 3 9 11 439 15 50° 4 18 56° 19 61° 65°

COLD TECHNOLOGY

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



WITH COLD

HOUSEHOLD ENERGY CONSUMPTION RELATED TO CARTRIDGES IN %

WITH COLD

8%

GI-40 C/D

L10 TR

REF.08GI40LBE64

GI-40 S/D

110 TR

REF. 08GI40FBE64









DECORATIVE WASHBASINS Specially designed for

decorative faucets.

CERTIFICATIONS





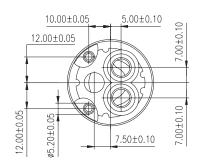


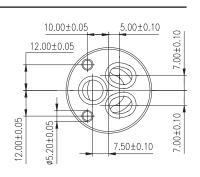
RECOMMENDED APPLICATIONS

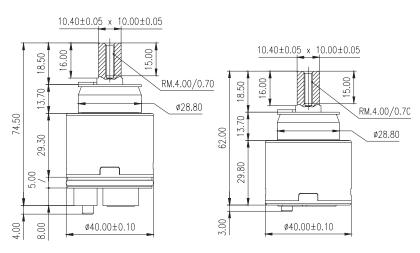




DIMENSIONS







TECHNICAL SPECIFICATIONS

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

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

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

^{*} Find machinig requirements on pages 152-155

REVOLVING

GI-40

GI-40 C/D

REF.08GI40LBE00





GI-40 S/D

REF. 08GI40FBE00





DOWNLOAD DATA SHEET

DESCRIPTION

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

ADVANTAGES

BRASS OR PLASTIC SHAFT

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

RECOMMENDED APPLICATIONS



DECORATIVE WASHBASINS Specially designed for decorative faucets.

CERTIFICATIONS

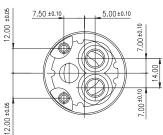


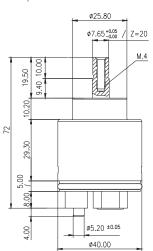


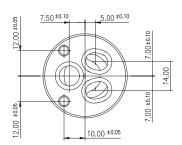


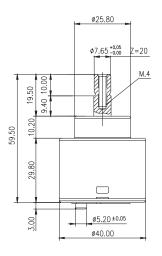


DIMENSIONS









* Find machinig requirements on pages 152-155

TECHNICAL SPECIFICATIONS

		4.15
General	C/D	S/D
Nut torque pitch M1.5	10-12Nm	10-12Nm
Rotation angle	180°	180°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	45-50 bar	45-50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME 112.18.1 M	500,000 cycles	500,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Turn left-right	0.20-0.22 Nm	0.20-0.22 Nm
Flow rate (free flow)	C/D	S/D
at 0.5 bar	9.4 l/min	9.5 l/min
at 1 bar	13.2 l/min	13.2 l/min
at 3 bar	23 l/min	22.8 l/min
at 5 bar	29.4 l/min	29.4 l/min

Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

^{*}Peak or limited time condition.

GI-40 C/D

REF. 08GI40LBE10





DOWNLOAD DATA SHEET

GI-40 S/D

REF. 08GI40FBE10





DOWNLOAD DATA SHEET

DESCRIPTION

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

ADVANTAGES

BRASS OR PLASTIC SHAFT

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

RECOMMENDED APPLICATIONS



DECORATIVE WASHBASINS Specially designed for

decorative faucets.

CERTIFICATIONS

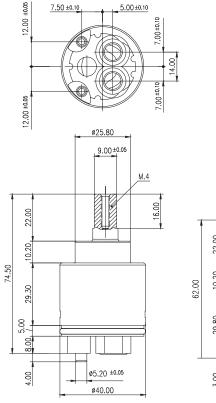




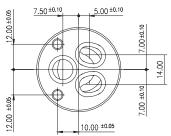


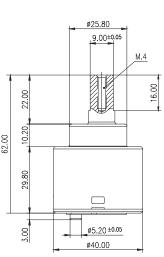


DIMENSIONS



5.00±0.10





* Find machinig requirements on pages 152-155

TECHNICAL SPECIFICATIONS

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

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

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

Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

*Peak or limited time condition.

DIVERTER GD-40 4

DESCRIPTION

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

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

FEATURES



4

OUT

ECO

OUTLETS

two outlets.

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

Diverter cartridge with



CLICK

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



METALLIC LEVER

This diverter cartridge has metallic lever.



SIDE INLET

The inlet of the diverter is located on the sides.



ADVANTAGES

- SURPASSES CONVENTIONAL DURABILITY STANDARDS
 Extended life time thanks to a high grade ceramic set made in our Technical Ceramics facilities. The metal lever improves the user perception of quality and precision in a small cartridge.
- ROBUST DESIGN
 GD-40 has a robust design, withstanding higher levels of burst pressure.
- HIGHER FLOW RATE

The GD40 has a high flow rate @3 bar, allowing to build body showers with 2 outlets providing a positive user experience while assuring an ecologic water consumption.

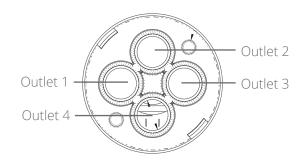
3 DIFFERENT SHAFTS LENGHT AVAILABLE

The GD40 is available with three different shaft lenghts to fullfill any manufacturer requirements.



DIVERTER FUNCTIONALITY

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



GD-40 S/D 4

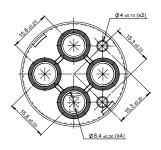
REF. 08GD40S0001

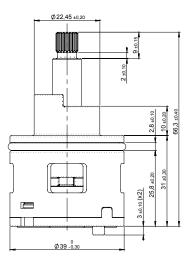




i

DIMENSIONS





* Find machinig requirements on pages 152-155

RECOMMENDED APPLICATIONS



SHOWERS DIVERTERS

Specially designed for showers with diverters.

TECHNICAL SPECIFICATIONS

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

Operation Torque	S/D
Turn left-right	0.15-0.45 Nm
OUTLET SELECTOR (Torque	0.40.0.20 N
increment)	0.10-0.20 Nm

Flow rate (free flow)	S/D
at 0.5 bar	7.9 l/min
at 1 bar	16 l/min
at 3 bar	27.6 l/min
at 5 bar	35.3 l/min

JOYSTICK JY-40

DESCRIPTION

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

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

The JY40 from Sedal is a very robust Joystick cartridge specially developed for faucets or cascade tap designs.

FEATURES



JOYSTICKJoystick cartridge with smooth 360° movement.

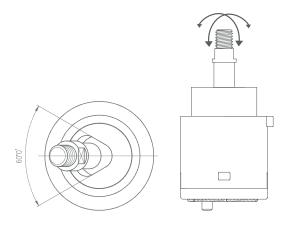


METALLIC LEVERThis joystick cartridge has metallic lever

ADVANTAGES

- SMOOTH FEELING
 - 40mm joystick has a very smooth operational feeling that gives comfort to the user.
- NEW CERAMICS DISC GEOMETRY

 JY-40 has a new ceramics disc geometry that allows its smooth 360° movement.



ROBUST DESIGN

40mm joystick has a robust design, withstanding higher levels of burst pressure.

HIGHER FLOW RATE
 JY-40 has higher flow rates than previous versions.

JY-40 C/D

REF.08JY40LBE00

JY-40 S/D

REF. 08JY40FBE00





DOWNLOAD DATA SHEET





DOWNLOA Data Shff

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.

CERTIFICATIONS

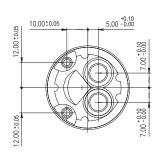


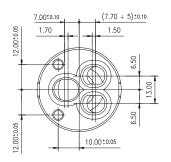


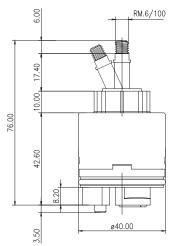


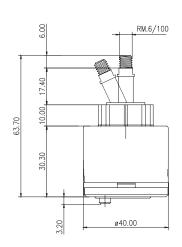


DIMENSIONS









TECHNICAL SPECIFICATIONS

General	C/D	S/D
Nut torque pitch M1.5	10-12 Nm	10-12 Nm
Opening angle	25°C	25°C
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	30-35 bar	30-35 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
ASME 112.18.1 M	70,000 cycles	70,000 cycles
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	S/D
Open-close	0.32-0.38 Nm	0.32-0.38 Nm
Turn left-right	0.35-0.42 Nm	0.35-0.42 Nm

Flow rate (free flow)	C/D	S/D
at 0.5 bar	10.3 l/min	10 l/min
at 1 bar	14.5 l/min	13.7 l/min
at 3 bar	24.9 l/min	23.6 l/min
at 5 bar	31.8 l/min	30.5 l/min

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

PRESSURE BALANCE

PB-40

DESCRIPTION

Pressure balance cartridges include a special mechanical device that detects pressure variations in water inlets, ensuring temperature stability. Particularly suited for applications in which water pressure is unstable.

FEATURES



ECO

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





TEMPERATURE LIMITER

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

ADVANTAGES

AVOIDS PRESSURE VARIATIONS

Pressure balance cartridges have a special base with a cylinder and a piston that moves according to pressure variations to keep the water temperature stable and avoid the annoying changes of temperature when showering.



Balanced pressure When the water pressure is stable, the piston inside the cilinder is located in the middle of the cartridge



Hot water pressure
When the hot
water enters the
cartridge with more
pressure than the
cold, the piston
moves to the right
to close the inlet
of hot water until
it equals to the
pressure of cold
water.



Cold water pressure
When the cold
water enters the
cartridge with more
pressure than the
hot, the piston
moves to the left
to close the inlet
of cold water until
it equals to the
pressure of hot
water.

SECURITY

TRN version has a safety anti-scalding feature.

COMPATIBILITY

PBs are compatible with standard and upper sealing versions.

VERSIONS WITH LIMITERS

TEMPERATURE LIMITER FUNCTION (TR)

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





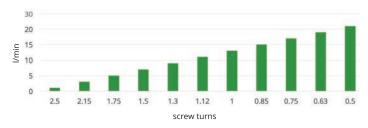
position	15° I/min	65° I/min	°C 3bar
1	16	4	26°
2	12,5	7,5	35°
3	9	11	43°
4	5	15	50°
5	2	18	56°
6	1	19	61°
7	0	20	65°

TEMPERATURE & FLOW LIMITER FUNCTION (TRN)

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



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



PB-40 C/D

REF. 08PB40L0001

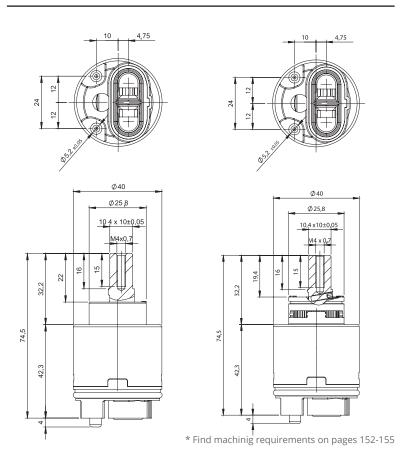


OTHER VERSIONS CD

Temperature & flow limiter (TRN)

REF.08PB40L4602

DIMENSIONS



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS









* Except PB-40 C/D (without TRN)

TECHNICAL SPECIFICATIONS

General	C/D	C/D TRN
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	25°	23.5°
Rotation angle	100°	100°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>35 bar	>35 bar
Life cycle - EN 817 NF U3	70,000 cycles	70,000 cycles
Sensitivity (r=45mm)	>12° angle	>12° angle
Fidelity	<5°C	<5°C
Max. hot water*	90 °C	90 °C

Operation Torque	C/D	C/D TRN
Open-close	0.35-0.45 Nm	0.35-0.45 Nm

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

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

UPPER SEALING

G-40

DESCRIPTION

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

FEATURES



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

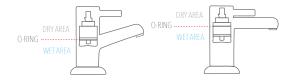


DUE
Water flow
optimization thanks to
a mid-way stop at 60%
of the lever stroke that
provides up to 50%
water saving.

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.

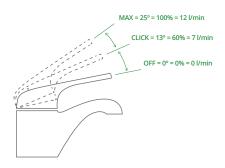


COMPATIBILITY

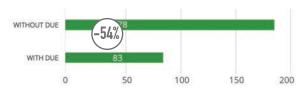
Lower sealing compatible with standard 40mm available.

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 water.



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



G-40 C/D

REF. 08G40LBE00





G-40 C/D

DUF

REF. 08G40LBE30





RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS



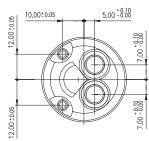


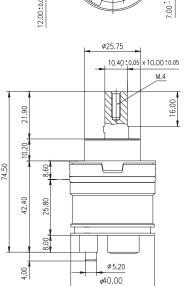


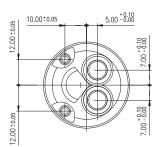


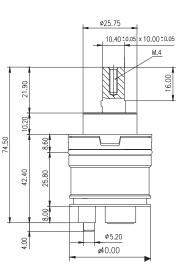


DIMENSIONS









* Find machinig requirements on pages 152-155

TECHNICAL SPECIFICATIONS

C/D	C/D DUE
10-12Nm	10-12Nm
25°	25°
100°	100°
1 - 5 bar	1 - 5 bar
>25 bar	>25 bar
70,000 cycles	70,000 cycles
500,000 cycles	500,000 cycles
9° angle	9° angle
90 °C	90 °C
	10-12Nm 25° 100° 1 - 5 bar >25 bar 70,000 cycles 500,000 cycles 9° angle

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

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

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

COMPACT EX-40

DESCRIPTION

Compact 40 mm cartridge allows the manufacturer for short faucets.

FEATURES



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



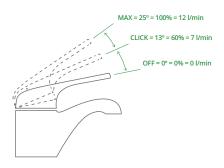
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

ADVANTAGES

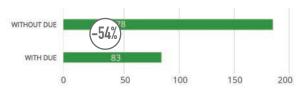
MINIMALISM WITH HIGH PERFORMANCE
 Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges

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 water.



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



EX-40

REF. 08EX40S0001

EX-40

DUE

REF. 08EX40S3001







DOWNLOAD DATA SHEET

DOWNLOAI

RECOMMENDED APPLICATIONS



CONCEALED WASHBASINS

Specially designed for washbasins.



CONCEALED BATH-SHOWERS

Specially designed for bath showers.



CONCEALED KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS



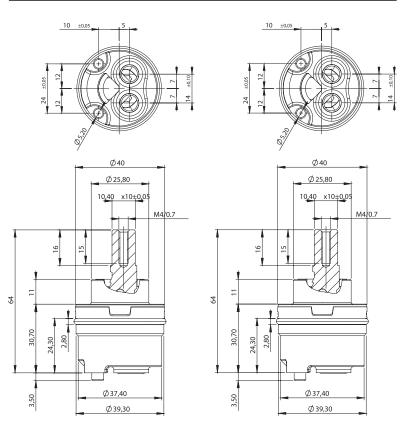








DIMENSIONS



TECHNICAL SPECIFICATIONS

General	EX-40	EX-40 DUE
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	24°	24°
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity (r=45mm)	14-16° angle	14-16° angle
Max. hot water*	90 °C	90 °C

Operation Torque	EX-40	EX-40 DUE
Open-close	0.28-0.32 Nm	0.28-0.32 Nm
Turn left-right	0.13-0.25 Nm	0.13-0.25 Nm
Saving device (DUE)	-	0.60-0.90 Nm

Flow rate (free flow)	EX-40	EX-40 DUE
at 0.5 bar	10.7 l/min	10.7 l/min
at 1 bar	15.1 l/min	15.1 l/min
at 3 bar	26 l/min	26 l/min
at 5 bar	33.6 l/min	33.6 l/min

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

COMPACT EX-40

DESCRIPTION

Compact 40 mm cartridge allows the manufacturer for short faucets.

FEATURES



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



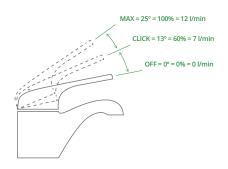
Water flow optimization thanks to a mid-way stop at 60% of the lever stroke that provides up to 50% water saving.

ADVANTAGES

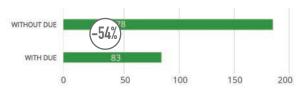
MINIMALISM WITH HIGH PERFORMANCE
 Compact cartridges allow the manufacturer to create minimalistic faucets without giving up the high-performance features of the cartridges

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 water.



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



EX-40

REF. 08EX40S0001

EX-40







Specially designed for

CONCEALED WASHBASINS

RECOMMENDED APPLICATIONS

washbasins.

CONCEALED BATH-SHOWERS Specially designed for bath showers.







CERTIFICATIONS



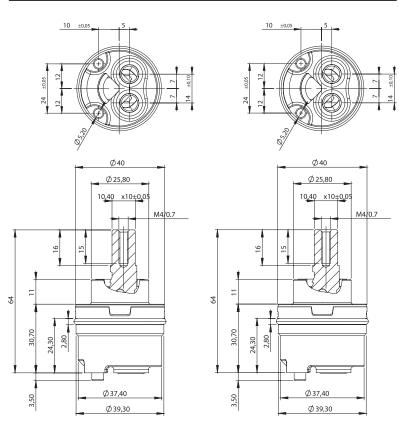








DIMENSIONS



* Find machinig requirements on pages 152-155

TECHNICAL SPECIFICATIONS

General	EX-40	EX-40 DUE
Nut torque pitch M1.5	10-12Nm	10-12Nm
Opening angle	24°	24°
Rotation angle	90°	90°
Working pressure	1 - 5 bar	1 - 5 bar
(recommended)		
Burst pressure	>50 bar	>50 bar
Life cycle - EN 817	70,000 cycles	70,000 cycles
Sensitivity (r=45mm)	14-16° angle	14-16° angle
Max. hot water*	90 °C	90 °C

Operation Torque	EX-40	EX-40 DUE
Open-close	0.28-0.32 Nm	0.28-0.32 Nm
Turn left-right	0.13-0.25 Nm	0.13-0.25 Nm
Saving device (DUE)	-	0.60-0.90 Nm

Flow rate (free flow)	EX-40	EX-40 DUE
at 0.5 bar	10.7 l/min	10.7 l/min
at 1 bar	15.1 l/min	15.1 l/min
at 3 bar	26 l/min	26 l/min
at 5 bar	33.6 l/min	33.6 l/min

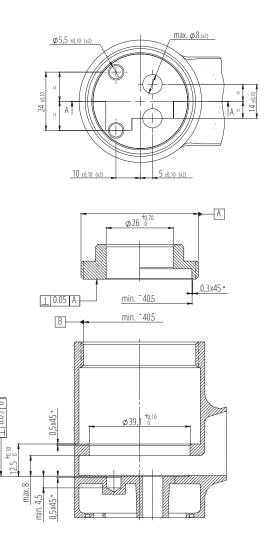
Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet *Peak or limited time condition.

MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

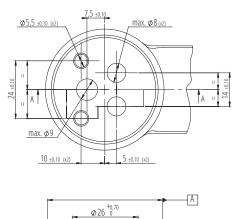
CARTRIDGE	REFERENCE	PAGE
SN-40 C/D THEDRA	08SN40L0001	112
SN-40 C/D THEDRA DUE	08SN40L3001	112
SN-40 S/D THEDRA NIEDERDRUCK	08SN40S0007	112
SN-40 C/D THEDRA COLD	08SN40L1501	114
SN-40 C/D THEDRA COLD DUE	08SN40L5501	114
EN-40 C/D	08EN40LAZ00	116
E-40 C/D C1	08EN40L1002	118
E-40 C/D C2	08EN40L3005	119
EN-40 C/D COLD DUE	08EC40L3003	120
EN-40 C/D COLD MIRROR DUE	08EC40L2001	122
SN-40 C/D	08SN40LAZ00	124
TRN-40 C/D	08RN40LVE00	125
DN-40 C/D BG BASIC	08DN40LBG01	126
SN-40 C/D ECOFLOW	08SN40L0003	128
GC-40 C/D THEDRA	08GC40L0001	130
GC-40 C/D THEDRA DUE	ON DEMAND	132
GI-40 C/D L10 TR	08GI40LBE64	136
GI-40 C/D Z20	08GI40LBE00	138
GI-40 C/D L10	08GI40LBE10	139
JY-40 C/D	08JY40LBE00	142
PB-40 C/D	08PB40L0001	144
	SN-40 C/D THEDRA SN-40 C/D THEDRA DUE SN-40 S/D THEDRA NIEDERDRUCK SN-40 C/D THEDRA COLD SN-40 C/D THEDRA COLD DUE EN-40 C/D C1 E-40 C/D C2 EN-40 C/D COLD DUE EN-40 C/D COLD MIRROR DUE SN-40 C/D TRN-40 C/D DN-40 C/D BG BASIC SN-40 C/D THEDRA GC-40 C/D THEDRA GC-40 C/D THEDRA DUE GI-40 C/D L10 TR GI-40 C/D Z20 GI-40 C/D L10 JY-40 C/D	SN-40 C/D THEDRA 08SN40L0001 SN-40 C/D THEDRA DUE 08SN40L3001 SN-40 S/D THEDRA NIEDERDRUCK 08SN40S0007 SN-40 C/D THEDRA COLD 08SN40L1501 SN-40 C/D THEDRA COLD DUE 08SN40L5501 EN-40 C/D 08EN40L3005 E-40 C/D C2 08EN40L3005 EN-40 C/D COLD DUE 08EC40L3003 EN-40 C/D COLD MIRROR DUE 08EC40L2001 SN-40 C/D 08EN40LAZ00 TRN-40 C/D 08EN40LAZ00 GC-40 C/D THEDRA 08EC40L0001 GC-40 C/D THEDRA DUE 0N DEMAND GI-40 C/D L10 TR 08GI40LBE64 GI-40 C/D L20 08GI40LBE00 GI-40 C/D L10 08GI40LBE10 JY-40 C/D 08JY40LBE00

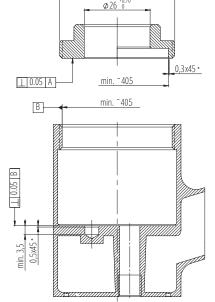
MACHINING TIP



DIAMETER	CARTRIDGE	REFERENCE	PAGE
	SN-40 S/D THEDRA	08SN40S0001	112
	SN-40 S/D THEDRA DUE	08SN40S3001	112
	SN-40 S/D THEDRA COLD	08SN40S1501	114
	SN-40 S/D THEDRA COLD DUE	08SN40S5501	114
	EN-40 S/D	08EN40FAZ00	116
	E-40 S/D DUE	08E40FAZ30	117
	E-40 C/D C1	08EN40S1002	118
	E-40 C/D C2	08EN40S3005	119
	EN-40 S/D COLD DUE	08EC40S3003	120
	EN-40 S/D MIRROR DUE	08EC40S2001	122
40 mm	SN-40 S/D	08SN40SAZ00	124
	TRN-40 S/D	08RN40FVE00	125
	DN-40 S/D BG BASIC	08DN40FBG01	126
	SN-40 S/D ECOFLOW	08SN40S0004	128
	GC-40 S/D THEDRA	08GC40S0001	130
	GC-40 S/D THEDRA DUE	ON DEMAND	132
	GI-40 S/D L10 TR	08GI40FBE64	136
	GI-40 S/D Z20	08GI40FBE00	138
	GI-40 S/D L10	08GI40FBE10	139
	JY-40 S/D	08JY40FBE00	142

MACHINING TIP



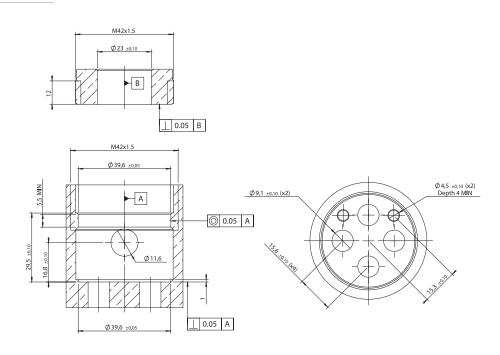


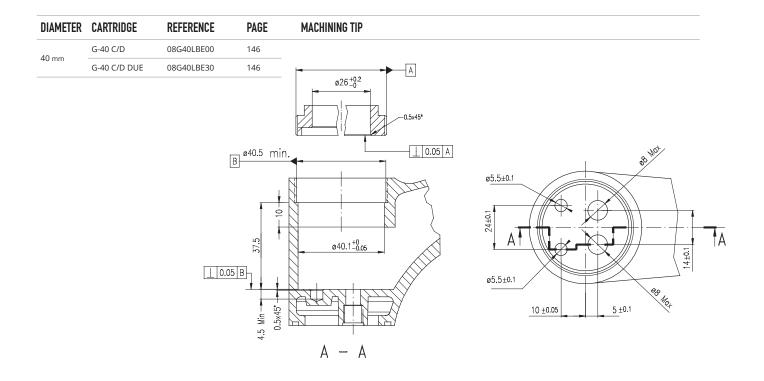
MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

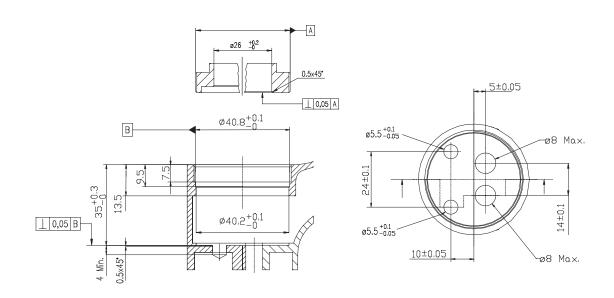
	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP	
5 mm	GC-45 S/D	08GC45FBE00	134	0 47.4 ±0.10 0 43.4 SW 377 0 32.2 ±0.05 0 24 O-ling 043\(\frac{1}{2}\), (BB705\(\frac{1}{2}\)) 0 0.025 A	
			<u> </u>	47,8 -0.10 A7,8 -	12 ±000

DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
40 mm	GD-40 S/D 4	08GD40S0001	140	





DIAMETER	CARTRIDGE	RIDGE REFERENCE	PAGE
40	EX-40	08EX40S0001	148
40 mm	EX-40 DUE	DUE 08EX40S3001	148



THERMOSTATIC CARTRIDGES

SEDAL'S thermostatic cartridges provide fast response, high reliability and anti-scalding safety features thanks to the combination of materials, design and high quality sensors.





THERMOSTATIC TM001

DESCRIPTION

Standard thermostatic cartridges complying with EN-1111 specifications for shower and bath appliances.

With a life cycle of 50,000 cycles, it suits all the design and quality requirements of the market, providing high reliability and high response, with specific anti-scalding safety measures.

FEATURES



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



FCO

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



LEAD FREE

Suitable for low-lead applications.

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 anty-scalding safety feature for the maximum comfort to the user.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding 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.

DIFFERENT CERTIFIED VERSIONS

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

DOUBLE LIFE CYCLE

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

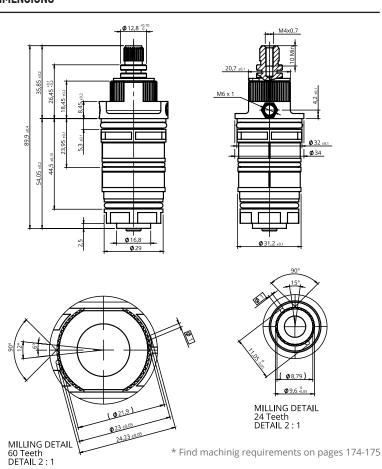
TM001REF.07TM00100 (STD)





OWNLOAD

DIMENSIONS



RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS*









^{*} Ready for KTW

General	TM001 / TM001 4MS
Standards *	EN-1111
Standards "	QB/T5418-2019
Burst pressure	>25 bar
2x Life cycle - EN-1111	100,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB

Operation torque	TM001 / TM001 4MS
Turn left-right	0.10 - 0.35 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 / TM001 4MS
at 0.1 bar	6 l/min
at 0.5 bar	10 l/min
at 3 bar	23 l/min
at 5 bar	29 l/min

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

THERMOSTATIC TM001 HP

DESCRIPTION

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

FEATURES



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



ECO

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



LEAD FREESuitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM001 HP is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anty-scalding safety feature for the maximum comfort to the user.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

- BURST PRESSURE
 - Withstands a burst pressure up to 35bar.
- HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

LEAD FREE

Lead free and chloramine resistant options.

DIFFERENT CERTIFIED VERSIONS

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

- HIGH PRESSURE VERSIONS
 - We have created an special TM001 cartridge for highpressure applications.
- DOUBLE LIFE CYCLE

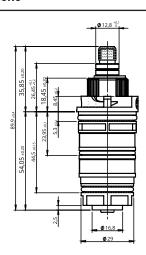
TM001 HP has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

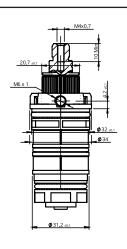
TM001 HP REF.07TM0102 (STD)

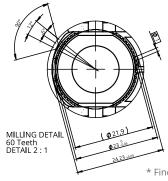


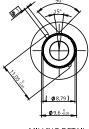


DIMENSIONS









MILLING DETAIL 24 Teeth DETAIL 2 : 1

* Find machinig requirements on pages 174-175

RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS*









General	TM001 HP/ NSF/ 4MS
	EN-1111
Standards*	ASSE#1016
	QB/T5418-2019
Burst pressure	>35 bar
2x Life cycle - EN-1111	100,000 cycles
ASSE#1016	100,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB

Operation torque	TM001 HP/ NSF/ 4MS
Turn left-right	0.10 - 0.35 Nm
Sensitivity (36-40°C) (handle 20mm)	14 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 HP / NSF/ 4MS
at 0.1 bar	6 l/min
at 0.5 bar	10 l/min
at 3 bar	23 l/min
at 5 bar	29 l/min

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

^{*} Ready for KTW

THERMOSTATIC TM001 LP

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



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



ECO

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



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM001 LP 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 antiscalding 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.

DIFFERENT CERTIFIED VERSIONS

We have adapted our TM001 LP 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.

LOW PRESSURE VERSIONS

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

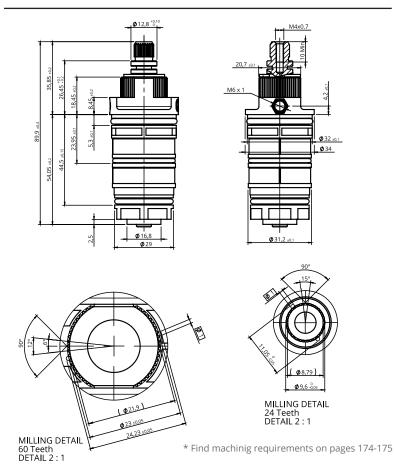
TM001 LP

REF.07TM0131





DIMENSIONS



RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS*







^{*} Ready for KTW

General	TM001 / TM001 4MS
Standards *	EN-1287
Burst pressure	>25 bar/min
Life cycle - EN-1287	50,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB

Operation torque	TM001 / TM001 4MS
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

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

THERMOSTATIC TM001 BASIC

DESCRIPTION

Basic thermostatic cartridge, combining entrylevel product with high-reliability.

FEATURES



THERMOSTATICThermostatic functions allow water delivery at the desired temperature.



Cartridges identified with an ECO icon offer at least one environmental

sustainability feature.



LEAD FREESuitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM001 BASIC is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anty-scalding safety feature for the maximum comfort to the user.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

- BURST PRESSURE
 - Withstands a burst pressure up to 25bar.
- HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

LEAD FREE

Lead free and chloramine resistant options.

TM001 BASIC

REF.07TM0119



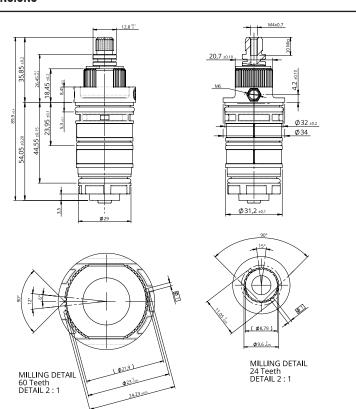


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OTHER VERSIONS CD

TM001 basic 4MS REF. 07TM0136

DIMENSIONS



* Find machinig requirements on pages 174-175

RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS







General	TM001 BASIC
Standards*	EN-1111
	QB/T5418-2019
Burst pressure	>25 bar
Life cycle - EN-1111	100,000 cycles
Max. hot water	90°C
Noise level	18.8 - 21.1 dB

Operation torque	TM001 BASIC
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 0.1 bar	6 l/min
at 0.5 bar	10 l/min
at 3 bar	22 l/min
at 5 bar	29 l/min

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

THERMOSTATIC TM001 C

DESCRIPTION

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

FEATURES



THERMOSTATICThermostatic functions

Thermostatic functions allow water delivery at the desired temperature.



ECO

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



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM001 C is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anty-scalding safety feature for the maximum comfort to the user.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

- BURST PRESSURE
 Withstands a burst pressure up to 35bar.
- HIGH STABILITY MATERIALS
 High stability thermoplastic materials help reducing limescale.
- LEAD FREE
 Lead free and chloramine resistant options.

DIFFERENT CERTIFIED VERSIONS

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

CONCEALED VERSION

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

DOUBLE LIFE CYCLE

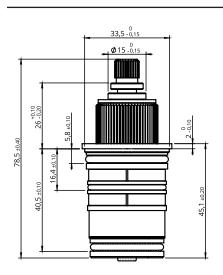
TM001 C has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

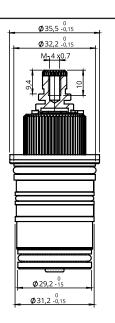
TM001 C REF.07TM0112 (STD)

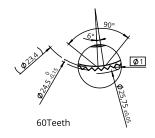


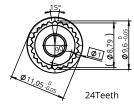


DIMENSIONS









^{*} Find machinig requirements on pages 174-175

RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS*









General	TM001 C
	EN-1111
Standards*	ASSE#1016
	QB/T5418-2019
Burst pressure	>35 bar
2x Life cycle - EN-1111	100,000 cycles
ASSE#1016	100,000 cycles
Max. hot water	90°C

Operation torque	TM001 C
Turn left-right	0.30 - 0.50 Nm
Sensitivity (36-40°C) (handle 20mm)	15 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM001 C
at 0.1 bar	4.5 l/min
at 0.5 bar	10 l/min
at 3 bar	26 l/min
at 5 bar	33 l/min

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

^{*} Ready for KTW

THERMOSTATIC TM006

DESCRIPTION

Standard thermostatic cartridges with smaller diameter for compact shower bodies, complying with EN-1111 specifications. With a life cycle of 50,000 cycles, it suits all the design and quality requirements of the market, providing high reliability and high response, with specific anti-scalding safety measures.

FEATURES



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



ECO

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



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM006 is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding 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 EREE

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 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

DOUBLE LIFE CYCLE

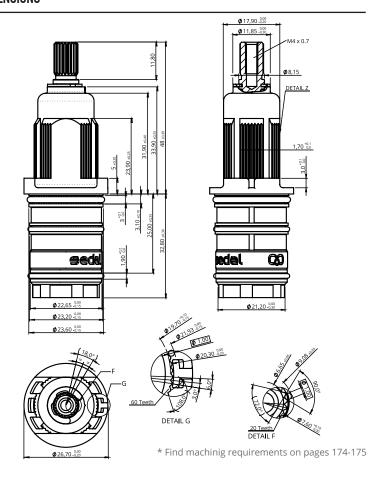
TM006 has 2x EN-1111 cycles, allowing the cartridge and the system to have a longer life.

TM006REF.07TM0614 (STD)





DIMENSIONS



RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS*









* Ready for KTW

General	TM006/ NSF/ 4MS	
	EN-1111	
Standards*	ASSE#1016	
	QB/T5418-2019	
Burst pressure	>35 bar	
2x Life cycle - EN-1111	100,000 cycles	
ASSE#1016	100,000 cycles	
Max. hot water	90°C	
Noise level	17.8 - 21.1 dB	

Operation torque	TM006/ NSF/ 4MS
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 / TM001 4MS	
at 0.1 bar	3 l/min	
at 0.5 bar	7.8 l/min	
at 3 bar	21 l/min	
at 5 bar	26.4 l/min	

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

THERMOSTATIC TM006 K

DESCRIPTION

Thermostatic cartridge with an axial click system, which allows high precision movement of the handle.

This cartridge has been designed according to EN-1111 and NF-1111 standards.

FEATURES



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



ECO

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



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM006 K is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anty-scalding safety feature for the maximum comfort to the user.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

BURST PRESSURE

Withstands a burst pressure up to 35bar.

HIGH STABILITY MATERIALS

High stability thermoplastic materials help reducing limescale.

LEAD FREE

Lead free and chloramine resistant options.

DIFFERENT CERTIFIED VERSIONS

We have adapted our TM006 materials to create new versions according to 4MS, NSF, ACS, WRAS or KTW regulation in acceptance of metallic materials used for products in contact with drinking water, using authorised materials.

SLIM VERSION

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

CLICK VERSION

The TM006 K includes a click on the lever that indicates to the user the change of the set temperature.

DOUBLE LIFE CYCLE

TM006 K has 2x EN-111 cycles, allowing the cartridge and the system to have a longer life.

TM006 K

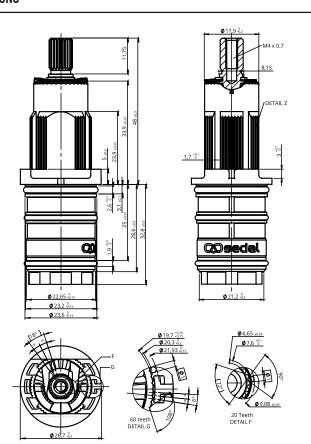
REF.07TM0608 (STD)





OWNLOAD

DIMENSIONS



* Find machinig requirements on pages 174-175

RECOMMENDED APPLICATIONS



BATH-SHOWERS

Specially designed for bath showers.

CERTIFICATIONS*









* Ready for KTW

General	TM006 K	
	EN-1111	
Standards*	ASSE#1016	
	QB/T5418-2019	
Burst pressure	>35 bar	
2x Life cycle - EN-1111	100,000 cycles	
ASSE#1016	100,000 cycles	
Max. hot water	90°C	
Noise level	17.8 - 21.1 dB	

Operation torque	TM006 K
Turn left-right	0.03 - 0.18 Nm
Sensitivity (36-40°C) (handle 20mm)	27-31 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM006 K
at 0.1 bar	3 l/min
at 0.5 bar	7.8 l/min
at 3 bar	21 l/min
at 5 bar	26.4 l/min

^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

THERMOSTATIC TM006 BASIC

DESCRIPTION

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

FEATURES



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



FLU

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



LEAD FREE

Suitable for low-lead applications.

ADVANTAGES

TEMPERATURE CONTROL

TM006 BASIC is a thermostatic regulation system that allows the user to set and easily adjust the desired temperature of the shower, while ensuring the steadiest mixed outlet water temperature. This control of the outlet temperature also allows an anty-scalding safety feature for the maximum comfort to the user.

ANTI-SCALDING FEATURE

This thermostatic cartridge allows an antiscalding safety feature for the maximum comfort to the user. In case of cold water supply failure, the valve automatically shutdowns the waterflow.

- BURST PRESSURE
 Withstands a burst pressure up to 25bar.
- HIGH STABILITY MATERIALS
 High stability thermoplastic materials help reducing limescale.
- LEAD FREE
 Lead free and chloramine resistant options.

SLIM VERSION

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

TM006 BASIC

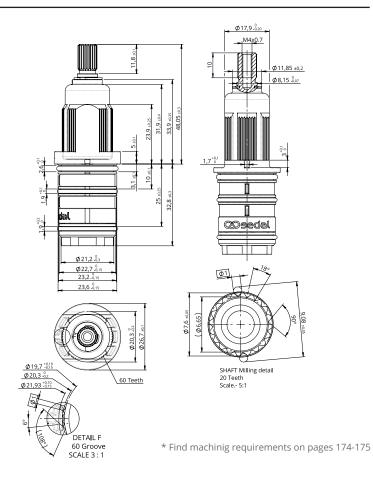
REF.07TM0613





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DIMENSIONS



RECOMMENDED APPLICATIONS



BATH-SHOWERSSpecially designed for bath showers.

CERTIFICATIONS *



General	TM006/ NSF/ 4MS
Standards*	EN-1111
Standards"	QB/T5418-2019
Burst pressure	>25 bar
Life cycle - EN-1111	50,000 cycles
Max. hot water	90°C
Noise level	17.8 - 21.1 dB

Operation torque	TM006/ NSF/ 4MS
Turn left-right	0.03 - 0.18 Nm
Sensitivity (36-40°C) (handle 20mm)	18-21 mm
Cold water supply failure test	Perfect cutting

Flow rate (free flow)	TM006 / TM001 4MS	
at 0.1 bar	3 l/min	
at 0.5 bar	7 l/min	
at 3 bar	20 l/min	
at 5 bar	26.4 l/min	

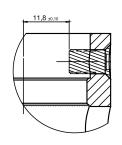
^{*} Different references. The compliance of standards does not only depend on the thermostatic cartridge but also on the construction of the faucet body and other elements.

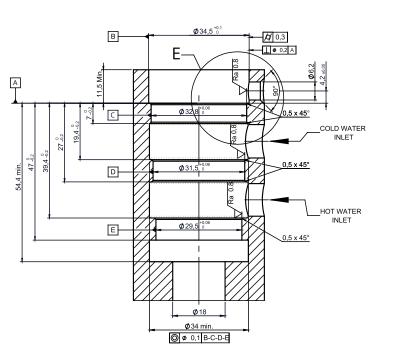
MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

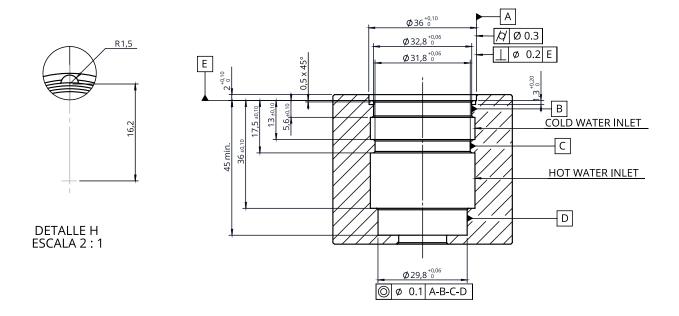
MACHINING TIP

DIAMETER	CARTRIDGE	REFERENCE	PAGE
	TM001	07TM00100	158
24	TM001 HP	07TM0102	160
34 mm	TM001 LP	07TM0131	162
	TM001 BASIC	07TM0119	164





DIAMETER	CARTRIDGE	REFERENCE	PAGE	MACHINING TIP
34 mm	TM001 C	07TM0112	166	



DIAMETER	CARTRIDGE	REFERENCE	PAGE
	TM006	07TM0101	168
27 mm	TM006 K	07TM0606	170
	TM006 BASIC	07TM0607	172

ACHINING TIP ## ACCURATE INLET ## ACCURATE INL



CERAMIC HEADWORKS

Complete range of ceramic headworks with plastic, brass or inox bodies suitable for all applications in which high performance valves are required, withstanding great mechanical requirements and providing the same water flow. Plastic versions are suitable for low-lead applications.

BRASS HEADWORKS

19MC 90°

DESCRIPTION

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

FEATURES



ADVANTAGES

- LONG LIFE YCLE
 1.000.000 ASME cycles life test.
- COMPLETE RANGE
 Complete range of ceramic and conventional headworks.
- BODY MATERIALS
 High-resistant thermoplastics, brass and stainless steel bodies available.
- VERSIONS
 Right and left to close versions and different rotation angles (90° and 180°)

DIFFERENT LENGTH SHAFTS

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

OEM CUSTOMIZATION

Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet their specific requirements and needs.

19MC 90°

REF.19MC01 (right·blue) REF.19MC04 (left·red)







19MC 90°

HIGH FLOW

REF.19MC090R81 (right·blue) REF.19MC090L55 (left·red)



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS





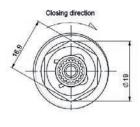


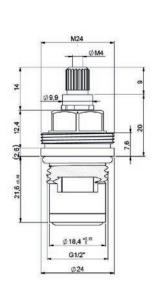


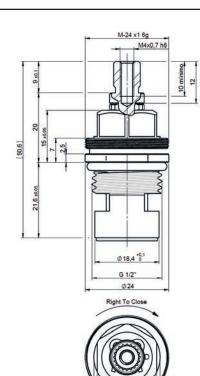


* Ready for NF

DIMENSIONS







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

Operation Torque	19MC 90°	19MC 90° HF
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90°	19MC 90° HF
at 0.1 bar	3.8 l/min	6.10 l/min
at 1 bar	13.5 l/min	21.3 l/min
at 3 bar	23.9 l/min	37.2 l/min
at 5 bar	30.8 l/min	48.4 l/min

^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

BRASS HEADWORKS

19MC 90°

3/8

REF.19MC090L20 REF.19MC090R29

19MC 90°

3/4

REF.19MC090R64

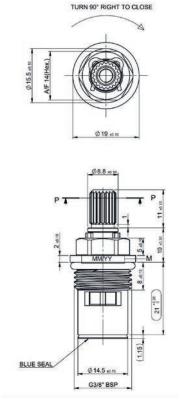


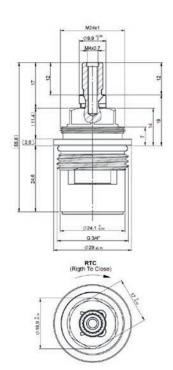




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DIMENSIONS





DESCRIPTION

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

FEATURES



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.

RECOMMENDED APPLICATIONS







CERTIFICATIONS









* Ready for NF

General	19MC 90° SQ	19MC 90° 3/4
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - EN 200	25 bar	25 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MC 90° SQ	19MC 90° 3/4
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90° SQ	19MC 90° 3/4
at 0.1 bar	2.7 l/min	4.4 l/min
at 1 bar	10.9 l/min	14.5 l/min
at 3 bar	18.5 l/min	25.9 l/min
at 5 bar	25 l/min	-

^{*} Find machinig requirements on page 189. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

19MC 90°

(

REF.19MC090L21

19MC 90°

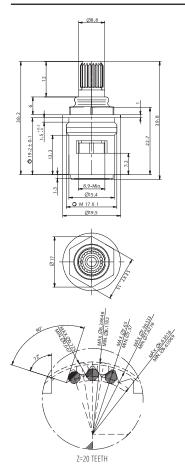
WH

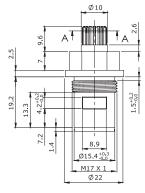
REF.19MC090R30



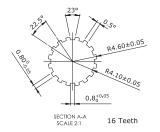


DIMENSIONS









DESCRIPTION

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

FEATURES



ROTATION ANGLE Headwork with 90°

rotation angle.

ADVANTAGES

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

RECOMMENDED APPLICATIONS







CERTIFICATIONS









* Ready for NF

General	19MC 90° C	19MC 90° WH
Installation torque	10-12 Nm	10-12 Nm
(recommended)	10-12 NIII	IU-IZ MIII
Rotation angle	90°	90°
Working pressure	1.5.5	1 5 5
(recommended)	1-5 bar	1-5 bar
Pressure resistance -	25 bar	25 bar
EN 200	23 501	23 501
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MC 90° C	19MC 90° WH
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MC 90° C	19MC 90° WH
at 0.1 bar	3 l/min	3 l/min
at 1 bar	11.8 l/min	11.8 l/min
at 3 bar	21.7 l/min	21.7 l/min
at 5 bar	28.1 l/min	28.1 l/min

^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

BRASS HEADWORKS

19MC 180°

REF. 19MC03 (Right-Blue) REF. 19MC05 (Left-Red)

19MC 2 180°

HIGH FLOW REF. 19MC018R12



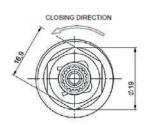


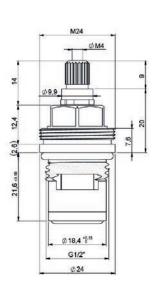


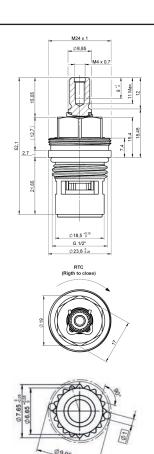
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DIMENSIONS







DETAIL 20 TEETH

SCALE 4:1

DESCRIPTION

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

FEATURES



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.

RECOMMENDED APPLICATIONS





CERTIFICATIONS







Ready for NF

General	19MC 180°	19MC 2 180°
Installation torque (recommended)	10-12 Nm	10-12 Nm
Rotation angle	180°	180°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME A112	500,000 cycles	500,000 cycles
Max. hot water	90°C	90°C
Operation Torque	19MC 180°	19MC 2 180°
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm
Flow rate (free flow)	19MC 180°	19MC 2 180°
at 0.1 bar	3.8 l/min	5.8 l/min
at 1 bar	9.9 l/min	13.6 l/min
at 3 bar	17.6 l/min	24.0 l/min
at 5 bar	22.6 l/min	-

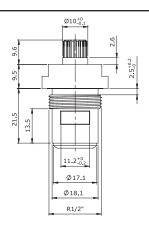
^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

19MC 90° FH CHROMED

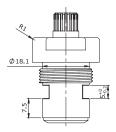
REF.19MC090R32



DIMENSIONS







DESCRIPTION

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

FEATURES



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.

RECOMMENDED APPLICATIONS

CERTIFICATIONS



TECHNICAL OF ECH ICATIONS			
General	19MC 90° FH		
Installation torque (recommended)	10-12 Nm		
Rotation angle	90°		
Working pressure (recommended)	1-5 bar		
Pressure resistance - ASME A 112	25 bar		
Burst pressure	-		
Life cycle - EN 200 ASME A112	200,000 cycles		
Max. hot water	90°C		
Operation Torque	19MC 90° FH		
Turn left-right	0.100-0.200 Nm		
Flow rate (free flow)	19MC 90° FH		
at 0.1 bar	3.8 l/min		
at 1 bar	13.5 l/min		
at 3 bar	23.9 l/min		
at 5 bar	30.8 l/min		

^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

BRASSCONVENTIONAL HEADWORKS

DESCRIPTION

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

FEATURES



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. **19MN**

REF. 19MN01

19MN

15

REF. 19MN015







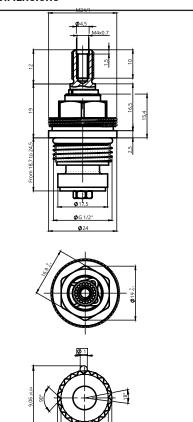
RECOMMENDED APPLICATIONS

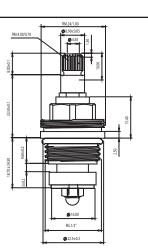
CERTIFICATIONS

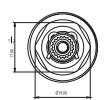


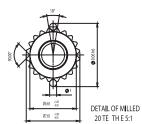


DIMENSIONS









General	19MN	19MN LS
Installation torque (recommended)	10-12 Nm	10-12 Nm
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - EN 200	25 bar	25 bar
Burst pressure	>50 bar	>50 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MN	19MN LS
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MN	19MN LS
at 0.1 bar	4.5 l/min	4.5 l/min
at 1 bar	16.3 l/min	16.3 l/min
at 3 bar	29 l/min	29 l/min
at 5 bar	35.5 l/min	35.5 l/min

^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

STAINLESS STEEL HEADWORKS

19MC 90°

DESCRIPTION

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

FEATURES



ADVANTAGES

- LONG LIFE YCLE
 500.000 ASME cycles life test.
- COMPLETE RANGE
 Complete range of ceramic and conventional headworks.
- BODY MATERIALS
 High-resistant thermoplastics, brass and stainless steel bodies available.
- VERSIONS
 Right and left to close versions and different rotation angles (90° and 180°)

DIFFERENT LENGTH SHAFTS

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

OEM CUSTOMIZATION

Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet their specific requirements and needs.

19MC 90°

IX

REF.19MC090R103 (Right-Blue) REF.19MC090L70 (Left-Red)





DOWNLOAD Nata sheft

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

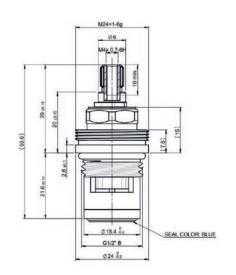
Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

DIMENSIONS



0.184 as

Turn right to closing direction

General	19MC 90° IX
Assembly torque	10-12 Nm
Rotation angle	90°
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°C
Max. Hot water recommended	65°C
Flow rate at 3 bar (free flow)	23,9 l/min
Turn left – right	0.100 - 0.200 Nm

^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

PLASTIC HEADWORKS

19MCP 90°

DESCRIPTION

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

FEATURES



LEAD FREE

Suitable for low-lead applications.



ADVANTAGES

- LONG LIFE YCLE
 1.000.000 ASME cycles life test.
- COMPLETE RANGE
 Complete range of ceramic and conventional headworks.
- BODY MATERIALS
 High-resistant thermoplastics, brass and stainless steel bodies available.
- LEAD FREE
 Chloramine resistant lead free brass body and stem options. Plastic versions are suitable for low-lead applications.
- VERSIONS
 Right and left to close versions and different rotation angles (90° and 180°)

DIFFERENT LENGTH SHAFTS & GEOMETRIES

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

OEM CUSTOMIZATION

Sedal offers to the manufacturer the possibility of designing and producing OEM headworks that meet their specific requirements and needs.

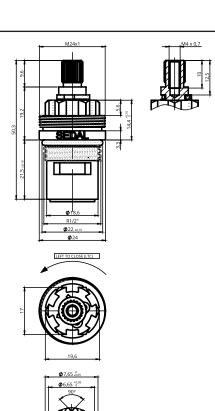
19MCP 90°

REF.19MCP90R27 (right·blue) REF.19MCP90L20 (left·red)





DIMENSIONS



RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS







^{*} Ready for NF

General	19MCP 90°	19MCP 90° LS
Installation torque (recommended)	8-10 Nm	8-10 Nm
Rotation angle	90°	90°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Life cycle - EN 200 ASME A112	200,000 cycles 500,000 cycles	200,000 cycles 500,000 cycles
Max. hot water	90°C	90°C

Operation Torque	19MCP 90°	19MCP 90° LS
Turn left-right	0.100-0.200 Nm	0.100-0.200 Nm

Flow rate (free flow)	19MCP 90°	19MCP 90° LS
at 0.1 bar	3.6 l/min	3.6 l/min
at 1 bar	12.7 l/min	12.7 l/min
at 3 bar	22.4 l/min	22.4 l/min
at 5 bar	29.1 l/min	29.1 l/min

^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

PLASTIC HEADWORKS

19MCP 180°

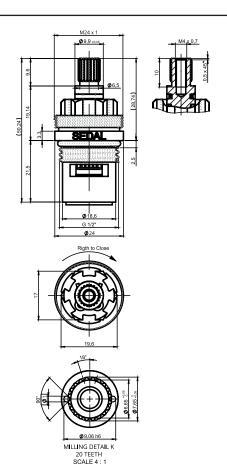
REF.19MCP18R01 (right·blue) REF.19MCP18L01 (left·red)





DOWNLOAI Data shee

DIMENSIONS



DESCRIPTION

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

FEATURES





ROTATION
ANGLE
Headwork with
180° rotation
angle.

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







* Ready for KTW & NF

General	19MCP 180°	19MCP 180° LS
Installation torque (recommended)	8-10 Nm	8-10 Nm
Rotation angle	180°	180°
Working pressure (recommended)	1-5 bar	1-5 bar
Pressure resistance - ASME A 112	35 bar	35 bar
Life cycle - EN 200	200,000 cycles	200,000 cycles
ASME A112	500,000 cycles	500,000 cycles
Max. hot water	90°C	90°C

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

Flow rate (free flow)	19MCP 180°	19MCP 180° LS
at 0.1 bar	3.8 l/min	3.8 l/min
at 1 bar	13.4 l/min	13.4 l/min
at 3 bar	23.3 l/min	23.3 l/min
at 5 bar	30.2 l/min	30.2 l/min

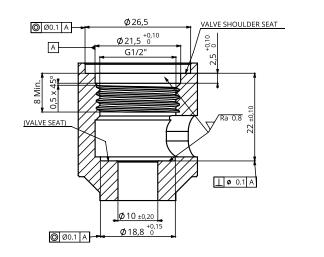
^{*} Find machinig requirements on page 191. Only applies to officially listed products. Tested at Sedal's lab with Sedal's standard faucet

MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

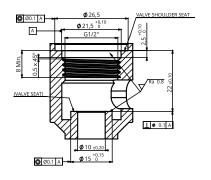
PRODUCT	REFERENCE	PAGE
19MC 90°	19MC01 (Right-Blue) 19MC04 (Left-Red)	178
19MC 90° HF	19MC090R81 (right·blue) 19MC090L55 (left·red)	178
19MC 90° C	19MC090L21	181
19MC 90° WH	19MC090R30	181
19MC 180°	19MC03 (Right-Blue) 19MC05 (Left-Red)	182
19MC 2 180° HF	19MC018R08	182
19MC 90° FH	19MC090R32	183
19MC 90° IX	19MC090R33	186
19MCP 90°	19MCP90R01 (Right-Blue) 19MCP90L01 (Left-Red)	188
19MCP 180°	19MCP18R01 (Right-Blue) 19MCP18L01 (Left-Red)	190

MACHINING TIP

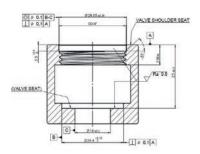


PRODUCT	REFERENCE	PAGE
19MN	19MN01	184
19MN LS	19MN015	184

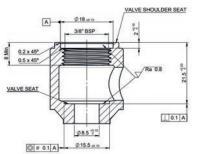
MACHINING TIP



PRODUCT	REFERENCE	PAGE	MACHINING TIP
10MC 00° 2/4	10MC000P64	190	



PRODUCT	REFERENCE	PAGE	MACHINING TIP	
19MC 90° 3/8	19MC090L20 19MC090R29	180		VALVE SHOULDER SEAT





SHOWER DIVERTERS

Diverters with automatic return specially designed for bath showers because allows to have two different outlets while keeping slim designs.

SHOWER DIVERTERS

COMPACK

REF.09CKCR00





COMPACK

+RREF.09CKCR10





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 entersinlet 3 and exits either outlet 1 or 2.

FEATURES



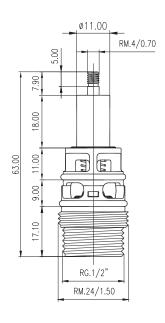
RECOMMENDED APPLICATIONS

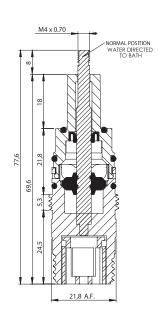


SHOWERS DIVERTERS

Specially designed for showers with diverters.

DIMENSIONS





CERTIFICATIONS



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

SEDAL

REF.09SGCR01





DOWNLOAD DATA SHEET

USA

REF.09TUCR00





DOWNLOAD DATA SHEET

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 entersinlet 3 and exits either outlet 1 or 2.

FEATURES

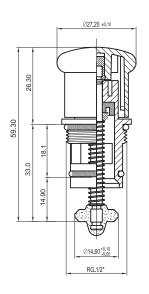


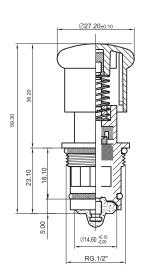
RECOMMENDED APPLICATIONS



SHOWERS DIVERTERSSpecially designed for showers with diverters.

DIMENSIONS



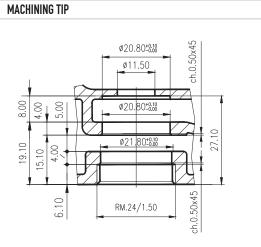


General	Sedal	USA
Operative	Manual and	Manual and
operative	automatic	automatic
Torque	5-8 Nm	5-8 Nm
Pressure resistance	max. 12 bar	max. 12 bar
Working pressure	12 bar	12 bar
Max. temperature	90 °C	90 °C
Endurance test	>30,000 cycles	>30,000 cycles

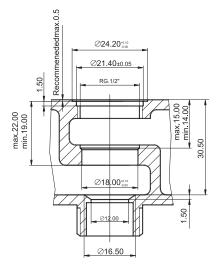
MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

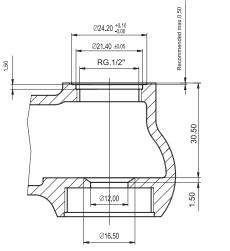
PRODUCT	REFERENCE	PAGE
COMPACK	09CKCR00	212
COMPACK +R	09CKCR10	212



PRODUCT	REFERENCE	PAGE	MACHINING TIP
SEDAL	09SGCR01	213	



PRODUCT	REFERENCE	PAGE	MACHINING TIP
USA	09TUCR00	213	







SELF-CLOSING **VALVES**

BASIN

REF. 19MTB0C05 (cold) REF. 19MTB0H05 (mix)







DOWNLOAD

DATA SHEET



M26 and M28.

FEATURES

DESCRIPTION



AUTOMATIC SHUT-OFF Shuts off automatically after a limited period

of time.



AUTO-**CLEANING** Auto-cleaning system to avoid lime scale.

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



URINAL **BASIN**

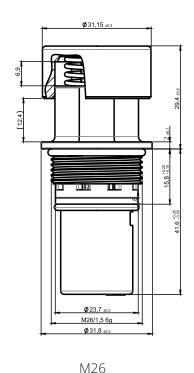
M26

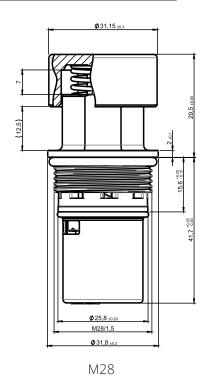
REF. 19MTU0C06

REF. 19MTB0C06 (cold) REF. 19MTB0H06 (mix)

DIMENSIONS

OTHER VERSIONS





RECOMMENDED APPLICATIONS **URINALS WASHBASINS** Recommended Specially designed for public for public urinaries. washbasins **PUBLIC HOTELS VENUES** Reccomended Suitable for for hotels airports, schools, libraries, etc.

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		

SHOWER REF. 19MTS0C05

ADJUSTABLE

REF. 19MTA0C05







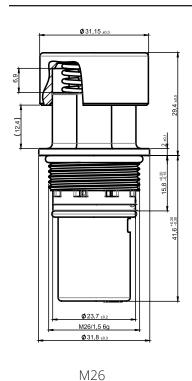
DOWNLOAD DATA SHEET

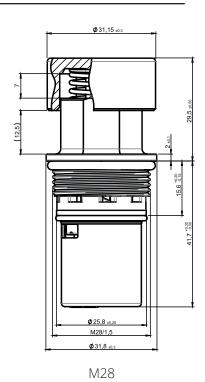
OTHER VERSIONS	SHOWER	ADJUSTABLE

M26 REF.19MTS0C06

REF. 19MTA0C06

DIMENSIONS





DESCRIPTION

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

FEATURES



EC0

Environmental sustainability feature.



ADJUSTABLE

The user can limit the time of use of meltering valve,



AUTOMATIC Shut-off

Shuts off automatically after a limited period of time.

RECOMMENDED APPLICATIONS



SHOWERS

Recommended for public showers.



WASHBASINS

Specially designed for public basins.



URINALS

Recommended for public urinaries.



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.



HOTELS

Reccomended for hotels.

General	SHOWER	ADJUSTABLE		
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	30 <u>+5</u> s	15 ± 5 s		

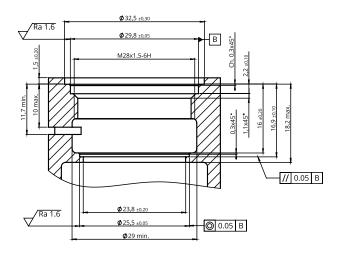
^{*} Find machinig requirements on page 202.

MACHINING REQUIREMENTS

CHART OF MACHINING REQUIREMENTS

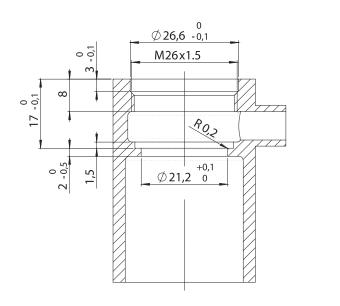
PRODUCT	REFERENCE	PAGE
URINAL	19MTU0C05	218
BASIN	19MTB0C05 (cold) 19MTB0H05 (hot)	218
SHOWER	19MTS0C05	219
ADJUSTABLE	19MTA0C05	219

MACHINING TIP



PRODUCT	REFERENCE	PAGE
URINAL	19MTU0C06	218
BASIN	19MTB0C06 (cold) 19MTB0H06 (hot)	218
SHOWER	19MTS0C06	219
ADJUSTABLE	19MTA0C06	219

MACHINING TIP





FLEXIBLE HOSES

SEDAL's flexible hoses are manufactured according to the most demanding safety standards. 100% tested, flexible hoses are available in different combinations of materials and sizes.



FLEXIBLE HOSES

FLEXIBLE HOSES FOR TAPS







DESCRIPTION

Flexible hoses for Flexible hoses for sanitary installations: taps, wash-basins, bidets, water heaters, water vessels, water storage tanks, solar water heaters and air conditioning.

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

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS







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	Stainless steel AISI 304
Hose	E.P.D.M. sanitary hose or PEX	E.P.D.M. sanitary hose or PEX
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stainless steel AISI 304 wire
Ø Internal diameter	6mm - 8mm	8mm
Ø External diameter	10mm -12mm	12mm
Max. temperature	90°C	90℃
Drinking H ₂ O	Yes	Yes
Burst pressure	100 kg/cm ²	100 kg/cm ²
Work pressure	25 kg/cm ²	25 kg/cm ²
Curvature radius	35mm - 40mm	40mm
Nominal flow	20 l/min -25 l/min	25 l/min

STANDARD FLEXIBLE HOSES







DESCRIPTION

Flexible hoses for Flexible hoses for sanitary installations: taps, wash-basins, bidets, water heaters, water vessels, water storage tanks, solar water heaters and air conditioning.

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

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

General	Standard flexible hoses DN13	Standard flexible hoses DN19 & DN25		
End fittings	Brass	Brass		
Nuts	1/2" - 3/4"	3/4" - 1"		
Sleeve	Stainless steel	Stainless steel		
Hose	E.P.D.M. sanitary hose	E.P.D.M. sanitary hose		
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stainless steel AISI 304 wire		
Ø Internal diameter	13mm	19mm - 25mm		
Ø External diameter	19mm	27mm - 33mm		
Max. temperature	90°C	90°C		
Drinking H ₂ O	Yes	Yes		
Burst pressure	90 kg/cm ²	-		
Work pressure	15 kg/cm ²	10 kg/cm ²		
Curvature radius	50mm	70mm - 100mm		
Nominal flow	70 l/min	120 l/min - 200 l/min		

FLEXIBLE HOSES

FLEXIBLE HOSES WITH BICONE DN8







DESCRIPTION

Flexible hoses for Flexible hoses for sanitary installations: taps, wash-basins, bidets, water heaters, water vessels, water storage tanks, solar water heaters and air conditioning.

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

RECOMMENDED APPLICATIONS



WASHBASINS

Specially designed for washbasins.



BATH-SHOWERS

Specially designed for bath showers.



KITCHENS

Suitable for use in kitchens.

CERTIFICATIONS







General	Flexible hoses with bicone DN8	Flexible hose	Flexible hoses with elbow					
End fittings	Brass	Brass	Brass					
Elbow	-	Brass	Brass					
Bicone	Ø 10 Ø 12 Ø 14	-	-					
Sleeve	Stainless steel	Stainless stee	Stainless steel					
Hose	E.P.D.M. sanitary hose	E.P.D.M. sanit	E.P.D.M. sanitary hose					
Mesh	Mesh in stainless steel AISI 304 wire	Mesh in stain	Mesh in stainless steel AISI 304 wire					
Nuts	3/8" - 1/2"	3/8" - 1/2"	1/2" - 3/4"	3/4"	1"			
Ø Internal diameter	8mm	8mm	13mm	19mm	25mm			
Ø External diameter	12mm	12mm	19mm	27mm	33mm			
Max. temperature	90°C	90°C	90°C	90°C	90°C			
Drinking H ₂ O	Yes - No	Yes	Yes	Yes	Yes			
Burst pressure	100 kg/cm ²	100 kg/cm ²	80 kg/cm ²	60 kg/cm ²	35 kg/cm ²			
Work pressure	25 kg/cm ²	25 kg/cm ²	20 kg/cm ²	15 kg/cm ²	15 kg/cm ²			
Curvature radius	40mm	40mm	45mm	40mm	40mm			
Nominal flow	25 l/min	25 l/min	65 l/min	120 l/min	200 l/min			

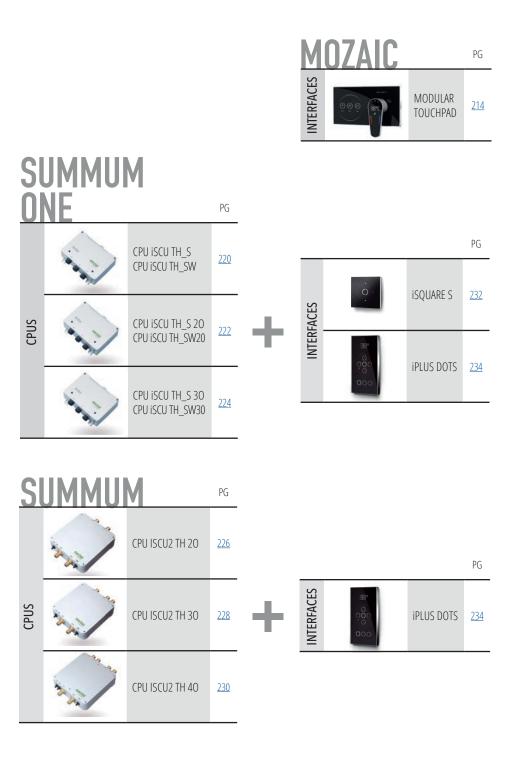






Summum is a Smart showering system consisting on 3 main component families: Digital Mixers, User Interfaces and Connectivity with APP and Cloud structures.

Summum One and Pro are SDS's high end shower system. These range are made up of thermostatic and flow-static mixing devices that together with digital interfaces offer the highest performance in the shower.



MOZNIC

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.



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.

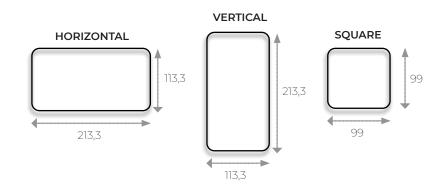
Different components: select the components that you want your digital shower system to have.



1 DIFFERENT SHAPES OF HOUSING

We give you a choice between three different **shapes of housing:** horizontal, vertical or square.

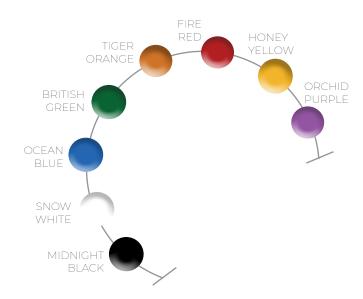
In addition, you can also select the type of trim between black, gray and white.



(2)

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.





DIFFERENT OF COMPONENTS

With buttons, with screen, with handle or rotary. 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 dislay.



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

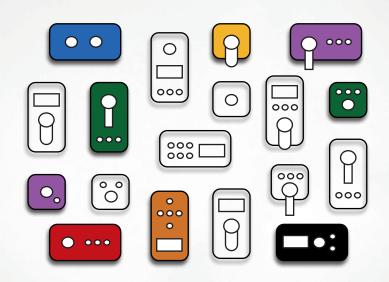
Rotary device that transforms the angle selection into digital information to operate a digital mixer.



ENDLESS COMBINATIONS

You can choose it simple, classic or with the maximum number of components. Our digital system for showers ends up becoming the protagonist of all bathrooms, whether in private or public settings.

MOZAIC, Sedal's configurable Digital Shower System with which **you can choose from an infinite number of combinations** so you never have to give up your style and needs in record time and with a little investment.





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!**

MODULAR TOUCHPAD INTERFACE FOR SHOWERS

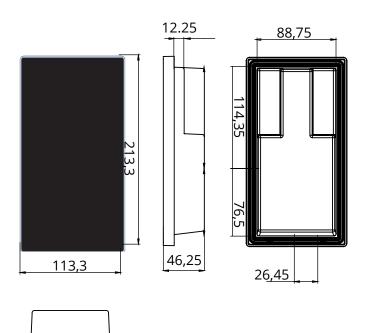
MOZAIC INTERFACE REF. 27E1008005



Polycarbonate colors Trim finishes



DIMENSIONS





CERTIFICATIONS





* Ready for UL.

TECHNICAL SPECIFICATIONS

Control
Temperature wheel with click feedback
Flow rate wheel with click feedback
Dot display with flow and temperature
1 to 3 outlets
User memory (initial user + 3 users)

Pause Touchpad blocking function Reset Warm-up Start-up program

Maintenance programs	
Cleaning of impurities	
Cleaning against legionella	
Maintenance alarms and error diagnosis	

	ce alarms and t water leakage		
	t water failure	-	
	hot water temp	nerature	
	emperature hi		
	e malfunction	<u> </u>	
Communica	tion error		

TechnologyCapacitive

MOZNIC

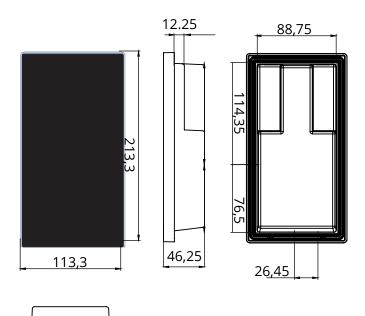
MOZAIC INTERFACE REF. 27EI008009

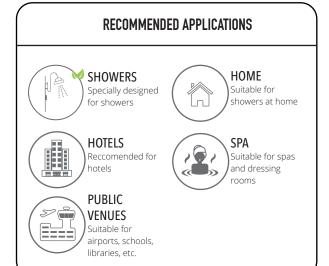


Polycarbonate colors Trim finishes



DIMENSIONS





CERTIFICATIONS



* Ready for UL.

TECHNICAL SPECIFICATIONS

Temperature & flow by electronic handle with led feedback on handle

Dot display with flow and temperature

1 to 3 outlets

User memory (initial user + 3 users)

Pause

Touchpad blocking function

Reset

Warm-up

Start-up program

Maintenance programs

Cleaning of impurities

Cleaning against legionella

Maintenance alarms and error diagnosis

Cold and hot water leakage

Cold and hot water failure

Insufficient hot water temperature

Cold water temperature high

Temperature malfunction

Communication error

Capacitive

MODULAR TOUCHPAD INTERFACE FOR SHOWERS

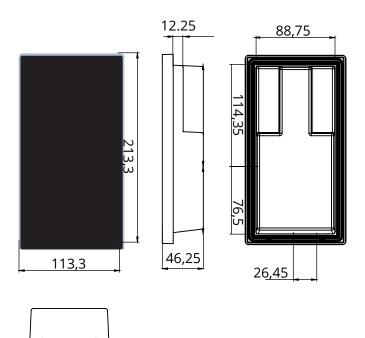
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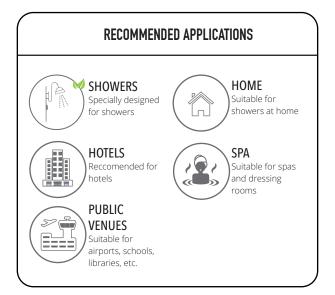


Polycarbonate colors Trim finishes



DIMENSIONS





CERTIFICATIONS





* Ready for UL.

TECHNICAL SPECIFICATIONS

Control

Temperature & flow by electronic handle with led feedback on handle Temperature & flow by electronic handle with led feedback on handle

iHandle dot display

1 to 3 outlets

User memory (initial user + 3 users)

Functions

Pause

Touchpad blocking function

Reset

Warm-up

Start-up program

Maintenance programs

Cleaning of impurities

Cleaning against legionella

Maintenance alarms and error diagnosis

Cold and hot water leakage

Cold and hot water failure

Insufficient hot water temperature

Cold water temperature high

Temperature malfunction

Communication error

Technology

Capacitive

MOZNIC

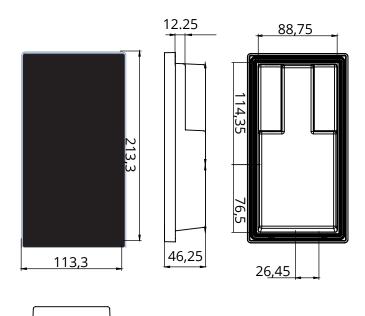
MOZAIC INTERFACE REF. 27EI008006



Polycarbonate colors Trim finishes



DIMENSIONS





CERTIFICATIONS



* Ready for UL.

TECHNICAL SPECIFICATIONS

Temperature & flow by electronic handle with led feedback on handle

iHandle dot display

1 to 3 outlets

User memory (initial user + 3 users)

Pause

Touchpad blocking function

Reset

Warm-up

Start-up program

Maintenance programs

Cleaning of impurities

Cleaning against legionella

Maintenance alarms and error diagnosis

Cold and hot water leakage

Cold and hot water failure

Insufficient hot water temperature

Cold water temperature high

Temperature malfunction

Communication error

Technology

Capacitive

CPU ISCU TH S 1 OUTLET

THERMOSTATIC MIXER FOR SHOWERS

DESCRIPTION

Summum One is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH S is the thermostatic box with 1 outlet that controls the system.

FEATURES & FUNCTIONS



OUTLET

Mixing box with one outlet.



WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



SHOWER SEQUENCES

Customize and run water sequences combining temperature, flow, time and outlets.



LEAKAGE DETECTION

Summum detects small leakages of the system.



CONNECTIVITY

Optional model with WIFI-bluetooth to control functionalities with an app.



PAUSE

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



SHOWER SET-UP

Set up parameters such as temperature, flow and time of your device.



ANTI-SCALDING

Anti-scalding safety warning when using the shower.



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



SUPER-ECO MODE

The system offers an Eco mode function to save water and energy.



USER PROFILES

Store preferred settings of temperature, flow for 3 different users.



THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



SMART BATH FILL

Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.



NORMALLY CLOSED

In case of power outage, the system closes automatically.



AUTO-CLEANING

Water is flushed through all outlets to avoid lime scale.



START-UP

System learns environmental conditions during installation.



CHILDREN SAFETY

Set up temperature, flow and time desired for your child daily shower.



CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

APP SPECIAL FUNCTIONS ACTIVATION

The app allows set and run the functionalities of the system.

CIOLID SERVICE

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework. Cloud for OEM and cloud for final user.

OEM CUSTOMIZATION

- Pre-defined settings available under customer requirements
- Tailor made APP layout according to OEM specifications.

INTELLIGENT MIXING VALVES

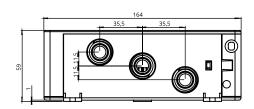
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.

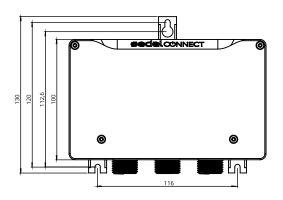
DETECTS SYSTEM & INSTALLATION WARNINGS

Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.



DIMENSIONS





RECOMMENDED APPLICATIONS



SHOWERS
Recommended
for eco-



Reccomended for hotels



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



SHOWERS COLUMN

Specially designed for shower columns



Suitable for simple showers at home

CERTIFICATIONS











Patented
<15W*1 / Stand by <1W
12 V DC
IP53
1/2" & 3/8" M-GAS, John
Guest
0.4 Kg

Temperature	
Recommended Input hot	Min. 48°C - Max.65°C
water range	WIII. 48°C - Wax.65°C
Recommended Input cold	Min.5°C - Max.28°C
water range	MIII.5-C - Max.28-C
Mixed maximum	44°C *2
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar

Flow rate (3 bar free flow with diverter DN13)		
Cold/ Hot water	Min. 4 l/min - Max. 13 l/min	
Mix flow rate	Min. 4 l/min - Max. 24 l/min	

^{*1} without deviator (NC solenoid)

^{*} Ready for KTW, UL and NSF.

 $^{^{\}star}2$ up to full hot temperature on OEM demand

CPU ISCU TH S 2 OUTLETS

THERMOSTATIC MIXER FOR SHOWERS

DESCRIPTION

Summum One is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH S 20 is the thermostatic box with 2 outlets that controls the system.

FEATURES & FUNCTIONS



OUTLET

Mixing box with one outlet and one additional outlet thanks to an external valve.



WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



SHOWER SEQUENCES

Customize and run water sequences combining temperature, flow, time and outlets.



LEAKAGE DETECTION

Summum detects small leakages of the system.



CONNECTIVITY

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



PAUSE

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



SHOWER SET-UP

Set up parameters such as temperature, flow and time of your device.



ANTI-SCALDING

Anti-scalding safety warning when using the shower.



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



SUPER-ECO MODE

The system offers an Eco mode function to save water and energy.



USER PROFILES

Store preferred settings of temperature, flow and outlets for 3 different users.



THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



SMART BATH FILL

Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.



NORMALLY CLOSED

In case of power outage, the system closes automatically.



AUTO-CLEANING

Water is flushed through all outlets to avoid lime



START-UP

System learns environmental conditions during installation.



CHILDREN SAFETY

Set up temperature, flow, outlets and time desired for your child daily shower.



CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

ADVANTAGES

APP SPECIAL FUNCTIONS ACTIVATION

The app allows set and run the functionalities of the system.

CLOLID CEDUICI

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework. Cloud for OEM and cloud for final user.

- OEM CUSTOMIZATION
 - Pre-defined settings available under customer requirements
 - Tailor made APP layout according to OEM specifications.
- INTELLIGENT MIXING VALVES

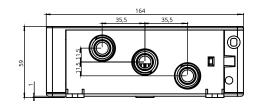
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.

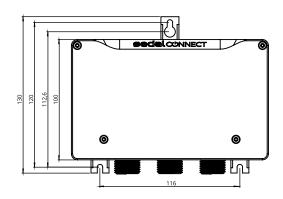
DETECTS SYSTEM & INSTALLATION WARNINGS

Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.



DIMENSIONS





RECOMMENDED APPLICATIONS



SHOWERS Recommended

for ecoshowers



HOTELS

Reccomended for hotels



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.



SHOWERS COLUMN

Specially designed for shower columns



Suitable for showers at home













^{*} Ready for KTW, UL and NSF.

General		
Technology	Patented	
Maximum load	<15W*1 / Stand by <1W	
Rated impulse Voltage	12 V DC	
Ingress Protection Rating	IP53	
Hydraulic connections	1/2" & 3/8" M-GAS, John	
	Guest	
Weight	0.4 Kg	

Temperature	
Recommended Input hot	Min. 48°C - Max.65°C
water range	
Recommended Input cold	Min.5°C - Max.28°C
water range	Willi.5 C - Wax.26 C
Mixed maximum	44°C *2
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar

Flow rate (3 bar free flow with diverter DN13)		
Cold/ Hot water	Min. 4 l/min - Max. 13 l/min	
Mix flow rate	Min. 4 l/min - Max. 22 l/min	

^{*1} without deviator (NC solenoid)

^{*2} up to full hot temperature on OEM demand

CPU ISCU TH S 3 OUTLETS

THERMOSTATIC MIXER FOR SHOWERS

DESCRIPTION

Summum One is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH S 30 is the thermostatic box with 3 outlets that controls the system.

FEATURES & FUNCTIONS



OUTLET

Mixing box with one outlet and two additional outlets thanks to external valves



CONNECTIVITY

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



THERMOSTATIC

allow water delivery at the desired temperature.



Thermostatic functions



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



START-UP

System learns environmental conditions during installation.



CHILDREN SAFETY

WARM-UP

PAUSE

Preheats the shower

by flushing out water

until the desired pre-set

temperature is reached.

temperature and flow that

the user was using before

The system offers an Eco

mode function to save

Remembers water

SUPER-ECO MODE

water and energy

SMART BATH FILL

Fill up your bathtub

automatically at the

desired temperature until

reaching pre-set volume.

Set up temperature. flow, outlets and time desired for your child daily shower.



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SHOWER SEQUENCES

Customize and run water sequences combining temperature. flow, time and outlets.



LEAKAGE DETECTION

Summum detects small leakages of the system.





ANTI-SCALDING

Anti-scalding safety warning when using the shower.





THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



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NORMALLY CLOSED

In case of power outage, the system closes automatically.



AUTO-CLEANING

Water is flushed through all outlets to avoid lime





AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

ADVANTAGES

- APP SPECIAL FUNCTIONS ACTIVATION The app allows set and run the functionalities of the system.
- CLOUD SERVICE

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework. Cloud for OEM and cloud for final user.

OEM CUSTOMIZATION

via app.

- · Pre-defined settings available under customer requirements
- Tailor made APP layout according to OEM specifications.
- INTELLIGENT MIXING VALVES

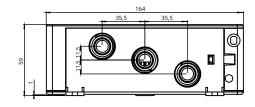
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various highprecision sensors.

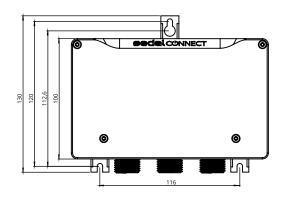
DETECTS SYSTEM & INSTALLATION WARNINGS

Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.



DIMENSIONS





RECOMMENDED APPLICATIONS



SHOWERS Recommended

for ecoshowers



SHOWERS COLUMN

Specially designed for shower columns



Reccomended for hotels



HOME

Suitable for showers at home



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

CERTIFICATIONS











General		
Technology	Patented	
Maximum load	<36W / Stand by <1W	
Rated impulse Voltage	12 V DC	
Ingress Protection Rating	IP54	
Hydraulic connections	1/2" M-GAS	
Weight	1.5-2 Kg	

Temperature	
Recommended input hot water	Min.48°C - Max.65°C
range	
Recommended input cold water	Min.5°C - Max.28°C
range	Willi.5 C - Wax.26 C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow with diverter DN13)	
Cold/ Hot water 1 out	Min. 6 l/min - Max. 16.2 l/min
Mix water 1out	Min. 6 l/min - Max. 22.1 l/min
Cold/hot water 2 out	64 min 16,54 min
Mix water 2 out	64 min - 29,54 min
'	

^{*1} up to full hot temperature on OEM demand

 $^{^{}st}$ Ready for KTW, UL and NSF.

CPU ISCU2 2 OUTLETS

THERMOSTATIC MIXER FOR SHOWERS

DESCRIPTION

Summum is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU2 TH 20 is the thermostatic box with 2 outlets that controls the system.

FEATURES & FUNCTIONS



OUTLET

Mixing box with two outlets.



WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



SHOWER SEQUENCES

Customize and run water sequences combining temperature, flow, time and outlets.



LEAKAGE DETECTION

Summum detects small leakages of the system.



CONNECTIVITY

Optional module with WIFI-bluetooth to control functionalities with an app



PAUSE

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



SHOWER SET-UP

Set up parameters such as temperature, flow and time of your device.



ANTI-SCALDING

Anti-scalding safety warning when using the shower.



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



2 OUTLETS SAME TIME

Allows to work 2 outlet simultany.



USER PROFILES

Store preferred settings of temperature, flow and outlets for 3 different users.



THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



SMART BATH FILL

Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.



NORMALLY CLOSED

In case of power outage, the system closes automatically.



AUTO-CLEANING

Water is flushed through all outlets to avoid lime



START-UP

System learns environmental conditions during installation.



CHILDREN SAFETY

Set up temperature, flow, outlets and time desired for your child daily shower.



CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

ADVANTAGES

- APP SPECIAL FUNCTIONS ACTIVATION
 The app allows set and run the functionalities of the system.
- CLOUD SERVICE

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework

- OEM CUSTOMIZATION
 - Pre-defined settings available under customer requirements
 - Tailor made APP layout according to OEM specifications.

INTELLIGENT MIXING VALVES

Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.

PRESSURE BALANCING BEHAVIOUR

It incorporates an intelligent auto-callibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.

DETECTS SYSTEM & INSTALLATION WARNINGS

Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

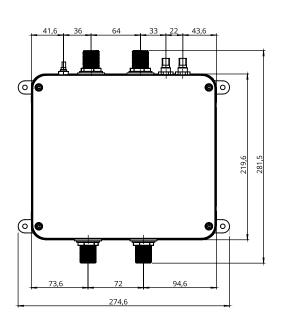
CPU ISCU2 TH 20

THERMOSTATIC MIXER

REF. 27EV000006



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RECOMMENDED APPLICATIONS



SHOWERS

Specially designed for showers



HOME

Suitable for showers at home



HOTELS

Reccomended for hotels



SPA

Suitable for spas and dressing rooms



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

CERTIFICATIONS













* Ready for KTW, NSF and UL.

General	
Technology	Patented
Maximum load	<36W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP54
Hydraulic connections	1/2" M-GAS
Weight	1.5-2 Kg

Temperature	
Recommended input hot water	Min 48°C - Max 65°C
range	William to C. Max.os C
Recommended input cold water	Min.5°C - Max.28°C
range	IVIIII.5 C - IVIAX.28 C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow with diverter DN13)	
Cold/ Hot water 1 out	Min. 6 l/min - Max. 16.2 l/min
Mix water 1 out	Min. 6 l/min - Max. 22.1 l/min
Cold/Hot water 2 out	64 min - 16.5 l/min
Mix water 2 out	64 min - 29.5 l/min

CPU ISCU2 3 OUTLETS

THERMOSTATIC MIXER FOR SHOWERS

DESCRIPTION

Summum is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU2 TH 30 is the thermostatic box with 3 outlets that controls the system.

FEATURES & FUNCTIONS



OUTLET

Mixing box with three outlets.



WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



SHOWER SEQUENCES

Customize and run water sequences combining temperature, flow, time and outlets.



LEAKAGE DETECTION

Summum detects small leakages of the system.



CONNECTIVITY

Optional module with WIFI-bluetooth to control functionalities with an app



PAUSE

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



SHOWER SET-UP

Set up parameters such as temperature, flow and time of your device.



ANTI-SCALDING

Anti-scalding safety warning when using the shower.



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



2 OUTLETS SAME TIME

Allows to work 2 outlet simultany.



USER PROFILES

Store preferred settings of temperature, flow and outlets for 3 different users.



THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



SMART BATH FILL

Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.



NORMALLY CLOSED

In case of power outage, the system closes automatically.



AUTO-CLEANING

Water is flushed through all outlets to avoid lime scale



START-UP

System learns environmental conditions during installation.



CHILDREN SAFETY

Set up temperature, flow, outlets and time desired for your child daily shower.



CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

ADVANTAGES

- APP SPECIAL FUNCTIONS ACTIVATION
 The app allows set and run the functionalities of the system.
- CLOTID SERVICE

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework

- OEM CUSTOMIZATION
 - Pre-defined settings available under customer requirements
 - Tailor made APP layout according to OEM specifications.

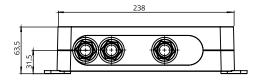
INTELLIGENT MIXING VALVES

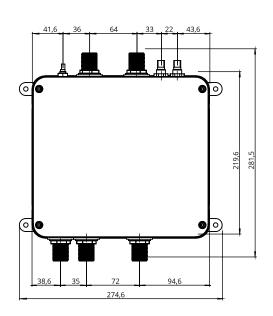
Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.

- PRESSURE BALANCING BEHAVIOUR
 - It incorporates an intelligent auto-callibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.
- DETECTS SYSTEM & INSTALLATION WARNINGS

Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

CPU ISCU2 TH 30 THERMOSTATIC MIXER REF. 27EV000007 PAIRS WITH 8 000 MOZAIC IPLUS OPTIONAL WIFI MODULE VOICE REF. 020115 CONTROL OPTION amazon alexa DOWNLOAD DATA SHEET works with the Google Assistant **DIMENSIONS**





RECOMMENDED APPLICATIONS





HOME Suitable for showers at home



HOTELS Reccomended for

hotels



SPA Suitable for spas and dressing



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

CERTIFICATIONS











 st Ready for KTW, NSF and UL.

General	
Technology	Patented
Maximum load	<36W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP54
Hydraulic connections	1/2" M-GAS
Weight	1.5-2 Kg

Temperature	
Recommended input hot water	Min.48°C - Max.65°C
range	MIII.48°C - Max.65°C
Recommended input cold water	Min 5°C - Max 28°C
range	Willi.5°C - Wax.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow with diverter DN13)		
Cold/ Hot water 1 out	Min. 6 l/min - Max. 16.2 l/min	
Mix water 1 out	Min. 6 l/min - Max. 22.1 l/min	
Cold/hot water 2 out	64 min 16,54 min	
Mix water 2 out	64 min - 29,54 min	

^{*1} up to full hot temperature on OEM demand

CPU ISCU2 4 OUTLETS

THERMOSTATIC MIXER FOR SHOWERS

DESCRIPTION

Summum is an smart system for showers consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU2 TH 40 is the thermostatic box with 4 outlets that controls the system.

FEATURES & FUNCTIONS



OUTLET

Mixing box with four outlets



WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



SHOWER SEQUENCES

Customize and run water sequences combining temperature, flow, time and outlets.



LEAKAGE DETECTION

Summum detects small leakages of the system.



CONNECTIVITY

Optional module with WIFI-bluetooth to control functionalities with an app



PAUSE

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



SHOWER SET-UP

Set up parameters such as temperature, flow and time of your device.



ANTI-SCALDING

Anti-scalding safety warning when using the shower.



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



2 OUTLET SAME TIME

Allows to work 2 outlet simultany.



USER PROFILES

Store preferred settings of temperature, flow and outlets for 3 different users.



THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



SMART BATH FILL

Fill up your bathtub automatically at the desired temperature until reaching pre-set volume.



NORMALLY CLOSED

In case of power outage, the system closes automatically.



AUTO-CLEANING

Water is flushed through all outlets to avoid lime scale



START-UP

System learns environmental conditions during installation.



CHILDREN SAFETY

Set up temperature, flow, outlets and time desired for your child daily shower.



CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

ADVANTAGES

APP SPECIAL FUNCTIONS ACTIVATION
 The app allows set and run the functionalities of the system.

CLOTID SERVICE

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework

- OEM CUSTOMIZATION
 - Pre-defined settings available under customer requirements
 - Tailor made APP layout according to OEM specifications.

INTELLIGENT MIXING VALVES

Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.

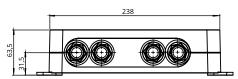
PRESSURE BALANCING BEHAVIOUR

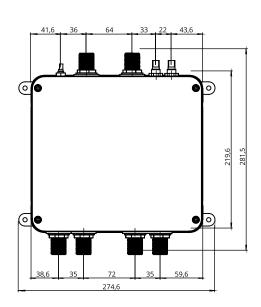
It incorporates an intelligent auto-callibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.

DETECTS SYSTEM & INSTALLATION WARNINGS

Summum One provides error detection and maintenance alarms, which remain stored in memory for report generation.

CPU ISCU2 TH 40 THERMOSTATIC MIXER REF. 27EV000008 PAIRS WITH 8 000 MOZAIC IPLUS OPTIONAL WIFI MODULE REF. 020115 VOICE CONTROL OPTION amazon alexa DOWNLOAD DATA SHEET works with the Google Assistant **DIMENSIONS**





RECOMMENDED APPLICATIONS



SHOWERSSpecially designed for showers



HOME Suitable for showers at home



HOTELS

Reccomended for hotels



SPA

Suitable for spas and dressing rooms



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

CERTIFICATIONS













General	
Technology	Patented
Maximum load	<36W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP54
Hydraulic connections	1/2" M-GAS
Weight	1.5-2 Kg

Temperature	
Recommended input hot water	Min 48°C - Max 65°C
range	WIII.48°C - Wax.65°C
Recommended input cold water	Min.5°C - Max.28°C
range	Willi.5°C - Max.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

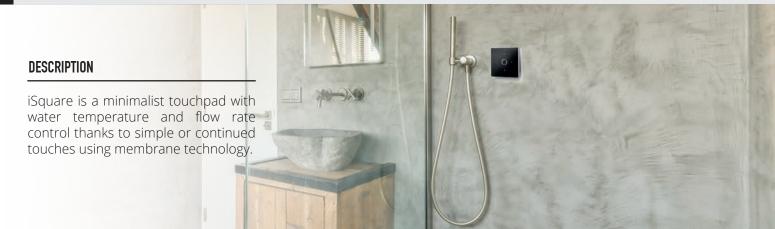
Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1.5 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow with diverter DN13)	
Cold/ Hot water 1 out	Min. 6 l/min - Max. 16.2 l/min
Mitx water 1 out	Min. 6 l/min - Max. 22.1 l/min
Cold/ Hot 2 out	64 min - 16.5 l/min
Mix water 2 out	64.5 min - 29.5 l/min

^{*1} up to full hot temperature on OEM demand

 $^{^{\}ast}$ Ready for KTW, NSF and UL.

ISQUARE S INTERFACE FOR SHOWERS



FEATURES & FUNCTIONS



OUTLET

Touchpad prepared to work with one outlet.



TEMPERATURE CONTROL

The user can control the water temperature.



PAUSE

Remembers water temperature and flow that the user was using before.



THERMAL DISINFECTION

Flowstatic functions allow water delivery of the desired water quantity.



START-UP

The user can start the start-up process.



FLOW CONTROL

The user can control the water flow.

ADVANTAGES

WATERPROOF TOUCH TECHNOLOGIES

Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water.

The manufacturer can select one touchpad and combine with its preferred thermostatic mixer.

- DESIGN AND ADAPTABILITY
 - Functional configurations
 - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)

- RELIABLE AND PRECISE
 - Suppression of interferences
 - Precise and intuitive touch commutation
- CUSTOMIZABLE PANELS

Customizable panels to reach customer needs according requirements.

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

ISQUARE S

INTERFACE REF. 27EI000029





Polycarbonate colors Trim finishes



RECOMMENDED APPLICATIONS





HOME

Suitable for simple showers at home



HOTELS

Reccomended for hotels



Suitable for spas and dressing



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

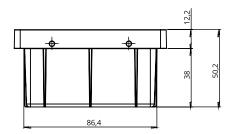
CERTIFICATIONS

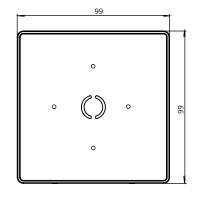


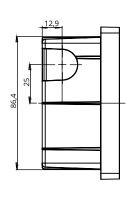


* Ready for UL.

DIMENSIONS







Control

Temperature

Flow rate

Functions

Pause

Warm-up

Start-up program

Thermal disinfection

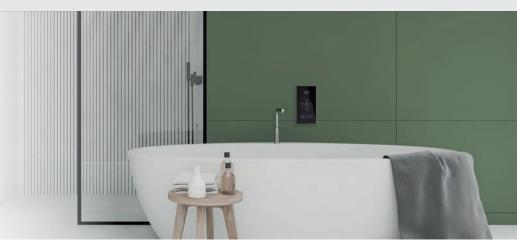
Technology

Membrane

IPLUS DOTS INTERFACE FOR SHOWERS

DESCRIPTION

Rectangular touchpad with antiscratch and water-proof surface. It includes a complete interface with water and temperature control along with multiple outlet selection using capacitive technology.



FEATURES & FUNCTIONS



OUTLET

Touchpad can change between 3 outlets when installed



PAUSE

Remembers water temperature and flow that the user was using before.



USER PROFILES

Store preferred settings of temperature, flow and outlets for 3 different users.



ALARMS

iPlus touchpad displays warnings and alarms.



TEMPERATURE CONTROL

The user can control the water temperature.



WARM-UP

Preheats the shower by flushing out water until the desired pre-set temperature is reached.



THERMAL DISINFECTION

USer can start thermal desinfect process.



FLOW CONTROL

The user can control the water flow.



START-UP

User can start start-up



WARNING

Anti-scalding safety warning when using the shower.



AUTO-CLEANING

User can start cleaning process.

ADVANTAGES

WATERPROOF TOUCH TECHNOLOGIES

Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water.

The manufacturer can select one touchpad and combine with its preferred thermostatic mixer.

- DESIGN AND ADAPTABILITY
 - Functional configurations
 - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)

- RELIABLE AND PRECISE
 - Suppression of interferences
 - Precise and intuitive touch commutation
- CUSTOMIZABLE PANELS

Customizable panels to reach customer needs according requirements.

- ROBUSTAND DURABLE
 - · Resistance in harsh environments
 - · Water-resistance devices
 - Usage-protected graphs

IPLUS DOTS

INTERFACE

REF. 27EI000005

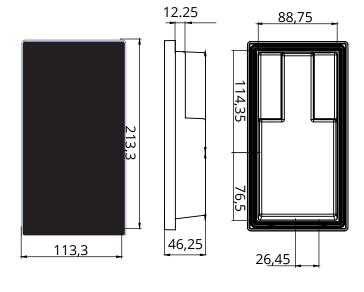


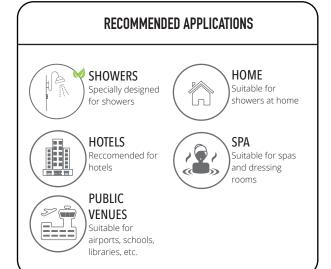


Polycarbonate colors Trim finishes



DIMENSIONS





CERTIFICATIONS





* Ready for UL.

TECHNICAL SPECIFICATIONS

Temperature	
Flow rate	
1 to 3 outlets	
User memory (initial user + 3 users)	

User memory (initial user + 3 users) Functions Pause Touchpad blocking function Reset Warm-up Start-up program Maintenance programs Cleaning of impurities

Cleaning of impurities
Cleaning against legionella
and the second s

Maintena	ince alarms and error diagnosis
Cold and h	not water leakage
Cold and h	not water failure
Insufficien	nt hot water temperature
Cold water	r temperature high
Temperati	ure malfunction
Communi	cation error

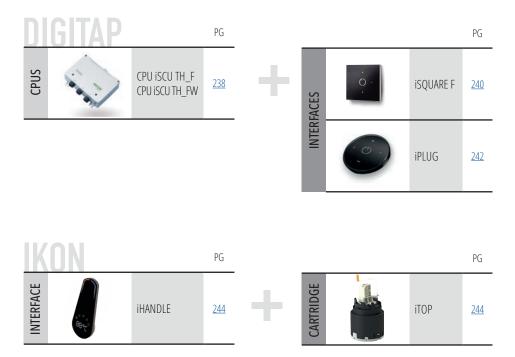
Technology	
Capacitive	



DIGITAP consists of a iSCU_TH_F valve combined with one of our touchpads: iSQUARE or PLUG. These systems are specially designed to make it easier for the manufacturer to adopt new technologies into its products.

Digitap has no mechanical parts, small electric motors or other similar pieces that need to be recalibrated or replaced, lengthening the product life.

Digitap range includes wall-mounted and counter-top touchpads, retrofit interfaces and customized solutions to fulfill manufacturers requirements.



CPU ISCU TH F

THERMOSTATIC MIXER FOR FAUCETS

DESCRIPTION

Digitap is an smart system for faucets consisting on a CPU electronic thersmostatic mixer with one outlet and a touchpad to control it. CPU ISCU TH F is the thermostatic box that controls the system.

FEATURES & FUNCTIONS



CONNECTIVITY

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



SMART AUTO DISPENSING FUNCTION

Tooth brush function or automatic water fill.



FAUCET SET-UP

Set up parameters such as temperature, flow and time of your device.



LEAKAGE DETECTION

Summum detects small leakages of the system.



THERMOSTATIC

Thermostatic functions allow water delivery at the desired temperature.



FLOW RATE QUICK-ACCESS

Mixed water memory at high flow and low flow with a button.



NORMALLY CLOSED

In case of power outage, the system closes automatically.



THERMAL DISINFECTION

Thermal disinfection in all shower outlets.



FLOWSTATIC

Flowstatic functions allow water delivery of the desired water quantity.



PAUSE

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



CONSUMPTION STATISTICS

The user can see consumption of water and energy statistic via app.



AUTO-CLEANING

Water is flushed to avoid lime scale.



START-UP

System learns environmental conditions during installation.



SUPER-ECO MODE

The system offers an Eco mode function to save water and energy.



ANTI-SCALDING

Anti-scalding safety warning when using the faucet.



AUTOMATIC SHUT-OFF

Shower shuts off automatically after a limited period of time.

ADVANTAGES

APP SPECIAL FUNCTIONS ACTIVATION

The app allows set and run the functionalities of the system.

CLOUD SERVICE

The system monitor, evaluates and reports components and system conditions in a cloud platform to allow predictive diagnosis: Leverage the extracted data from your connected devices to detect and diagnose problems before they occur, helping minimize variability and rework

- OEM CUSTOMIZATION
 - Pre-defined settings available under customer requirements
 - Tailor made APP layout according to OEM specifications.

INTELLIGENT MIXING VALVES

Innovative thermostatic mixing technology, completely electronic. It includes electro valves and various high-precision sensors.

PRESSURE BALANCING BEHAVIOUR

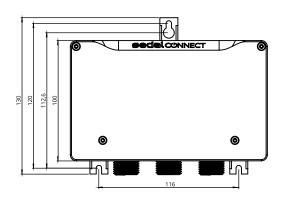
It incorporates an intelligent auto-callibration mode that corrects and stabilises both flow rate and temperature in response to unexpected changes in water supply pressure.

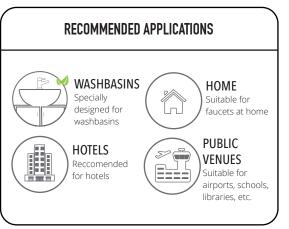
DETECTS SYSTEM & INSTALLATION WARNINGS

Digitap provides error detection and maintenance alarms, which remain stored in memory for report generation.

CPU ISCU TH F THERMOSTATIC MIXER REF. 27EV000018 REF. 27EV000019 (WIFI) PAIRS WITH · 000 IKON ISQUARE IPLUG VOICE CONTROL OPTION WORKS WITH DOWNLOAD DATA SHEET amazon alexa works with the Google Assistant **DIMENSIONS**

35,5 35,5





CERTIFICATIONS













General	
Technology	Patented
Maximum load	<15W / Stand by <1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP53
Hydraulic connections	1/2" & 3/8" M-GAS, John
	Guest
Weight	0.4 Kg

Temperature	
Recommended input hot	Min. 48°C - Max.65°C
water range	Willi. 48°C - Wax.65°C
Recommended input cold	Min.5°C - Max.28°C
water range	Willi.5°C - Wax.28°C
Mixed maximum	44°C *1
Mixed minimum	Full cold

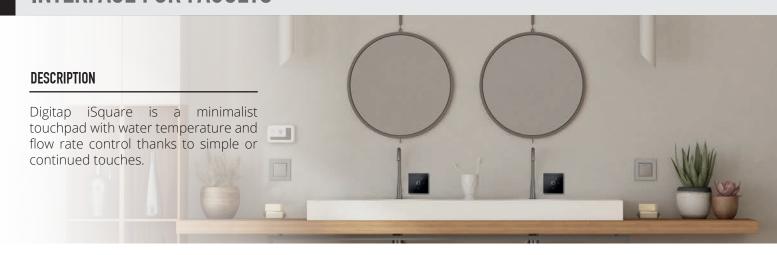
Pressure	
Maximum dynamic	6 bar
Minimum dynamic	1 bar
Recommended dynamic	3 bar
Maximum differential supply	4.5 bar
(Durability) Burst	>35 bar
(Durability) Leakage	>20 bar

Flow rate (3 bar free flow with diverter DN8)		
Cold/ Hot water	Min. 2 l/min - Max. 12 l/min	
Mix flow rate	Min. 2 l/min - Max. 22 l/min	

^{*1} Up to 80°C less than 20 min.

^{*} Ready for KTW, UL. and NSF.

ISQUARE INTERFACE FOR FAUCETS



FEATURES & FUNCTIONS



TEMPERATURE CONTROL

The user can control the water temperature.



START-UP

System learns environmental conditions during installation.



MEMORY SETTING

Special lighting when setting the memory.



FLOW CONTROL

The user can control the water flow.



PAUSE

Remembers water temperature and flow that the user was using before.



THERMAL DISINFECTION

Flowstatic functions allow water delivery of the desired water quantity.

ADVANTAGES

WATERPROOF TOUCH TECHNOLOGIES

Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water.

The manufacturer can select one interface and customize some of their features.

- DESIGN AND ADAPTABILITY
 - Functional configurations
 - Different technological options and variety of materials (polycarbonate, glass, aluminium, etc.)

- RELIABLE AND PRECISE
 - Suppression of interferences
 - Precise and intuitive touch commutation
- CUSTOMIZABLE PANELS

Customizable panels to reach customer needs according requirements.

- ROBUSTAND DURABLE
 - Resistance in harsh environments
 - Water-resistance devices
 - · Usage-protected graphs

ISQUARE F

INTERFACE

REF. 27EI000025



RECOMMENDED APPLICATIONS



WASHBASINS Specially designed for washbasins



HOTELS Reccomended for hotels



HOME Suitable for faucets at home



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



Front Panel
Polycarbonate colors
Trim finishes



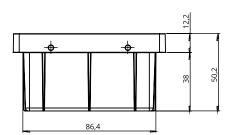
CERTIFICATIONS

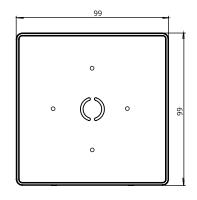


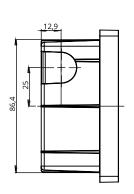


* Ready for UL.

DIMENSIONS







TECHNICAL SPECIFICATIONS

Control

Temperature

Flow rate

Functions

Pause

Start-up program

Thermal disinfection

Smart glass fill

Flow rate quick access

Technology

Membrane

DIGITAP INTERFACE



FEATURES & FUNCTIONS



TEMPERATURE CONTROL

The user can control the water temperature.



START-UP

System learns environmental conditions during installation.



SMART AUTO DISPENSING FUNCTION

Automatic water fill of a glass.



MEMORY SETTING

Special lighting when setting the memory.



FLOW CONTROL

The user can control the water flow.



PAUSE

Remembers water temperature and flow that the user was using before.



FLOW RATE QUICK-ACCESS

Mixed water memory at high flow and low flow with a button.



THERMAL DISINFECTION

Flowstatic functions allow water delivery of the desired water quantity.

ADVANTAGES

WATERPROOF TOUCH TECHNOLOGIES

Sedal Connect works with different touch technologies depending on technical requirements and functionalities of each project. All our touchpads have an efficient protection against water.

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- DESIGN AND ADAPTABILITY
 - · Functional configurations
 - Different technological options and variety of materials (polycarbonate, glass, polyester, etc.)

- RELIABLE AND PRECISE
 - Suppression of interferences
 - Precise and intuitive commutation
- CUSTOMIZABLE PANELS

Customizable panels to reach customer needs according requirements.

- ROBUSTAND DURABLE
 - · Resistance in harsh environments
 - Water-resistance devices
 - · Usage-protected graphs



REF. 27EI000026







RECOMMENDED APPLICATIONS







HOME Suitable for faucets at home



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

VERSIONS

Full capacitive

REF. 27EI000049

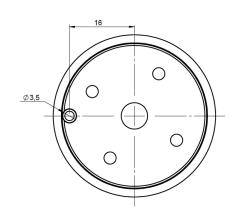
CERTIFICATIONS

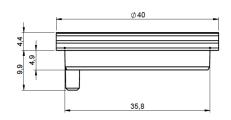




* Ready for UL.

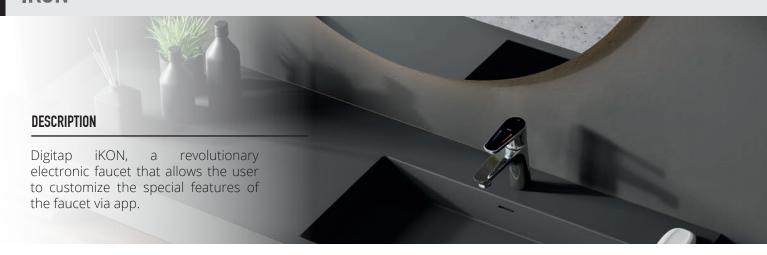
DIMENSIONS





General	Full capacitive
Rated voltage	12 V DC
Ingress Protection Rating	IP65
Number of buttons	5
Connectors	1 x 4 way connector
Panel material	PMMA (Hard Coated)
Touch splashing protection	Yes
Technology	Capacitive
Sustained push contrtol	Yes
Temnperature color indicator	Yes

DIGITAP INTERFACE



FEATURES & FUNCTIONS



WIFI COMMUNICATION

It activates when the system is correctly connected to WIFI.



ECO MODE

The operation is being ecologic according to the quantity of water in use.



ALARM

It activates when the system detects a problem.



CONTROL VIA APP

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

BATHROOM



GLASS FILL

A preset quantity of water to automatically fill a glass.



TOOTH BRUSH

The water flows during 5 seconds to wet the brush.



KITCHEN

GLASS FILL

A preset quantity of water to automatically fill a glass.



POT FILL

The faucet dispenses a preset quantity of water to automatically fill a pot.

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
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Customizable panels to reach customer needs according requirements.

- ROBUSTAND DURABLE
 - · Resistance in harsh environments
 - · Water-resistance devices
 - Usage-protected graphs

ITOPDIGITAL CARTRIDGE



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 iSCU digital 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 self-return 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.

IHANDLE DIGITAL INTERFACE



iHandle is the new user interface designed, 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.

iHandle works in combination with iTOP digital cartridge and iSCU digital thermostatic mixer by Sedal.

DIGITAP INTERFACE IHANDLE

IHANDLE DIGITAL INTERFACE REF. 27EI000030







RECOMMENDED APPLICATIONS



WASHBASINS Specially designed for washbasins



HOTELS Reccomended for hotels



HOME Suitable for faucets at home



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

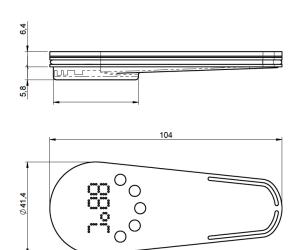
CERTIFICATIONS





* Ready for CE & UL.

DIMENSIONS



General	
Maximum load	<4 W / Stand by <0,1W
Rated impulse Voltage	12 V DC
Ingress Protection Rating	IP65
Panel Material	PMMA (Hard Coated)
Display	Dot Matrix
Icons	Color LED

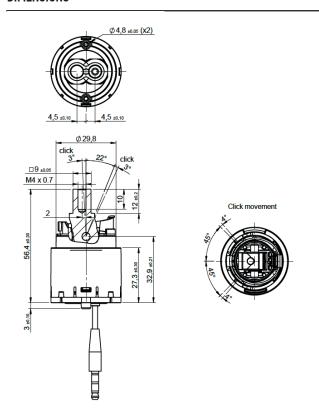
Functions	
	Warming signal, eco mode, wifi communication, glass fill, pot fill

ITOP DIGITAL CARTRIDGE REF. 48EN35S0001





DIMENSIONS



RECOMMENDED APPLICATIONS





Reccomended

for hotels

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

HOME

Suitable for

CERTIFICATIONS





* Ready for CE & UL.

General	
Maximum load	
Rated voltage	12 V DC
Ingress Protection Rating	IP53

Functions	
Operation torque	0,15-0,30 Nm
Click operation torque	0,30-0,40 Nm
Available clicks direction	Up/Down/Left/Ritght*
Communication cable with handle	Yes
Life Cycle	EN-817 ASME A112.18.1

^{*}Available options under customer request.



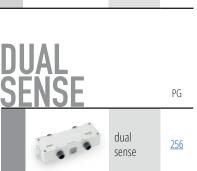
Hydron is a ange of electronic systems including infrared and capacitive technology for commercial and hospitality applications.

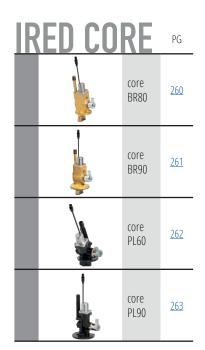
Touchless operation with infrared sensors or activate a touch sensitive faucet with a slight touch of an arm help reduce germs and bacteria contamination.

Built-in filters to avoid impurities that could affect water flow and performance. Valves are protected by an IP65 casing to resist thorough facility cleaning.

Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.









HYDRON

DESCRIPTION

On-off control for faucets featuring infrared detection technology with fixed distance arrangement. The standard detection distance can be factory adjusted to any OEM requirement.

FEATURES



ECO MODE

The system saves water thanks to its automatic shut-off.



AUTOMATIC SHUT-OFF Faucet shuts off

automatically after a limited period of time.



INFRA-RED

System activates thanks to an infra-red sensor.

ADVANTAGES

- WATER SAVING Infra-red sensor activation with automatic shut-off time.
- CLEAN&HYGIENIC Faucet activation is done by entering the hand into the sensor zone.
- RELIABILITY Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.

EASY MAINTENANCE

Built-in filter to avoid impurities which could affect the proper water flow.

VERSIONS

All models are available with battery and/ or power supply.

COMPATIBLE SENSORS





Infrared sensor for curved body faucet.



body faucet.





S3 Infrared sensor for wide base faucets.





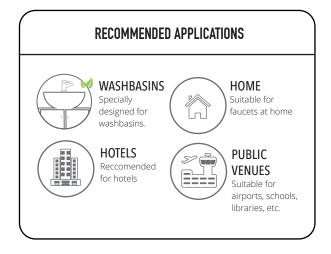
Infrared sensor for round spout, located after the outlet.





S6 Infrared sensor for square spout, located after the outlet.







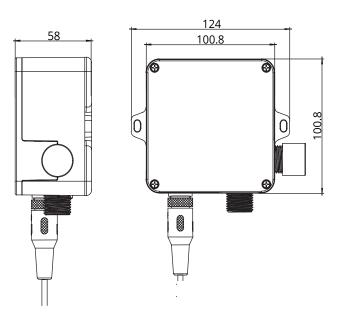
CERTIFICATIONS







DIMENSIONS



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

HYDRON IRED+

DESCRIPTION

On-off control for faucets featuring infrared detection technology with integrated distance adjustment with a single push of a button.

FEATURES



ECO MODE

The system saves water thanks to its automatic shut-off.



AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



INFRA-RED

System activates thanks to an infra-red sensor.



SELF-ADJUSTING

Self-adjusting feature to set the distance between the infra-red sensor and

ADVANTAGES

- WATER SAVING
 Infra-red sensor activation with automatic shut-off time
- CLEAN&HYGIENIC
 Faucet activation is done by entering the hand into the sensor zone.
- RELIABILITY

Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.

EASY MAINTENANCE

Built-in filter to avoid impurities which could affect the proper water flow.

VERSIONS

All models are available with battery and/ or power supply.

SELF-ADJUSTING

HYDRON i·RED+ system also includes self-adjusting feature to set the distance between the infra-red sensor and the user.

COMPATIBLE SENSORS KIT



\$1 PLUS
Infrared sensor for curved body



S7 SENSOR KIT

Round Infrared Sensor to be placed at the outlet of the spout including top performance areator.



S8 SENSOR KIT

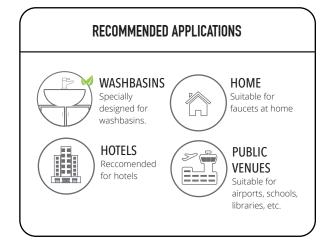
Semi-circular Infrared Sensor to be placed at the outlet of the spout.



S9 SENSOR KIT

Squared Infrared sensor to be placed at the spout outlet of a squared faucet.







DOWNLOAD DATA SHEET

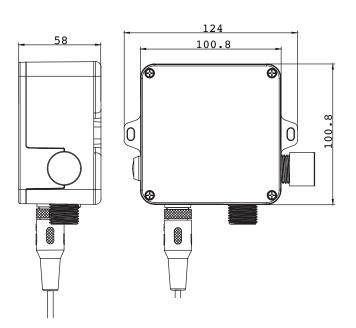
CERTIFICATIONS







DIMENSIONS



General	
Voltage gunnly	DC-6V and/or AC: 230V
Voltage supply	(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	IP 65
box)	
Sensor detection distance (IRED+)	Adjustable (button)
Dower consumption (stand by)	AC <4W
Power consumption (stand by)	DC <0.2mW
Dower concumption (fluching)	AC <5W
Power consumption (flushing)	DC <3W
Mater caving function	Auto off adjustable up to
Water saving function	1 min.
Thread	G1/2-14
Battery type (not included)	4xAA 1.5V

HYDRON IRED LP

DESCRIPTION

Electronic system for faucets including sensor technology.

FEATURES



ECO MODE

The system saves water thanks to its automatic shut-off.



AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



INFRA-RED

System activates thanks to an infra-red sensor.



AUTO-CLEANING

System activates every 72h to avoid water contamination

ADVANTAGES

- WATER SAVING Infra-red sensor activation with automatic shut-off time.
- CLEAN&HYGIENIC Faucet activation is done by entering the hand into the sensor zone.
- RELIABILITY Hydron electronic systems have been designed to work in harsh environments. Packed into a rugged case, our valves and sensors have a service life of over 500.000 cycles.

EASY MAINTENANCE

Built-in filter to avoid impurities which could affect the proper water flow.

VERSIONS

All models are available with battery and/ or power supply

COMPATIBLE SENSORS

i-red LP compatible



Infrared sensor for curved body



Infrared sensor for straight body



Infrared sensor for wide base faucets.



S5 Infrared sensor for round spout, located after the outlet.



S6 Infrared sensor for round spout, located after the outlet.

i·red+ LP compatible



S1 PLUS Infrared sensor for curved body faucet.



S7 SENSOR+ KIT Round Infrared sensor to be placed at the spout



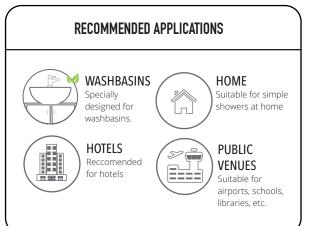
S8 SENSOR+ KIT Semi-circular Infrared sensor to be placed at the spout outlet.



S9 SENSOR + KIT Rectangular Infrared sensor to be placed at the spout outlet.







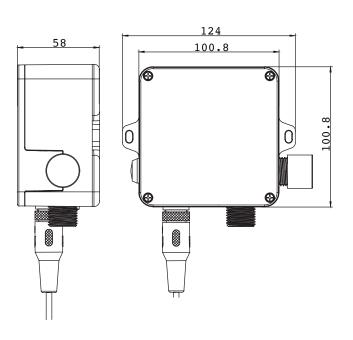
CERTIFICATIONS







DIMENSIONS



DC-6V and/or AC: 230V (50Hz) / 110-120 (60Hz) 0,2 - 7 bar 35 500,000 cycles
(50Hz) / 110-120 (60Hz) 0,2 - 7 bar 35
35
500,000 cycles
75°C
10.8 l/min
<1s
IP 65
IP 67
Adjustable <35 cm
AC <4W
DC <0.2mW
AC <5W
DC <3W
Auto off adjustable up to
1 min.
G1/2-14
4xAA 1.5V
15° (conical)
Waterproof button
Time adjustable (factory setting as 72h)

HYDRON DUAL SENSE

DESCRIPTION

Electronic system for kitchen faucets including sensor technology. The faucet will open and close with a simple touch and the user will be able to set desired temperature and flow thanks to the handle.

FEATURES



ECO MODE

The system saves water thanks to its automatic shut-off.



AUTOMATIC SHUT-OFF

Faucet shuts off automatically after a limited period of time.



CAPACITIVE

A simple touch anywhere on the body faucet activates the flow of water.



TOUCH EXPERIENCE

With a simple touch on the spout or the body you will open and close the faucet and dispense water. Single lever equipped with a second sensor which ensures mechanical cartridge priority.

COMBINATION OF TECHNOLOGIES

Digital technology combined with a mechanical cartridge to allow push and pull movements. In addition, like SENSE model, it adapts itself to the installation environment and has two built-in filters.

EASY TO USE

New features without any learning curve.

■ MANUAL OPENING BUTTON

In case of electric power supply failure, the user can open manually the faucet by pushing the button on the box.

EMERGENCY SHUT-OFF

In case of electric power supply failure the device will auto shut-off all valves.

HYDRON DUAL SENSE



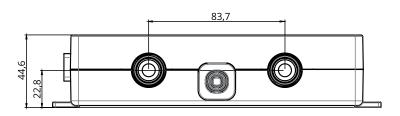


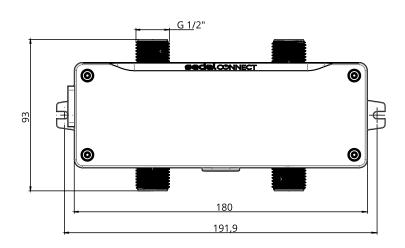
DOWNLOAD DATA SHEET

VERSIONS

REF. 27EG005004 Dual Sense - AC/DC REF. 27EG005003 Dual Sense - AC Dual Sense - DC REF. 27EG005001

DIMENSIONS





RECOMMENDED APPLICATIONS



KITCHENS Specially designed for kitchens



HOTELS Reccomended for hotels



HOME Suitable for faucets at home



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

CERTIFICATIONS







General	
Voltage supply	DC 6V
Working pressure	1 -7 bar
Pressure resistance closed (1 min.)	35 bar
Life test	500,000 cycle
Max. hot water	55°C
Flow rate (Class A)	8 l/min
Sensor activation time	<1 s
Power consumption (stand by)	<0.5 mW
Power consumption (flushing)	<10W
Water saving function	Auto off adjustable
	(factory setting 30 min)
Thread	Quick fitting
Battery type (not included)	4 X AA 1.5V

HYDRON IRED CORE

DESCRIPTION

i-RED CORE is a complete infrared system in a single body that combines a mixing valve, IR sensor, high grade solenoid on-off valve, battery pack (optional AC adaptor) and a plastic or brass body that acts as the main structural component.

The faucet is built around the body making the design extremely simple and easy to cast and machine.

Installation becomes more simple as there is no external valve box under the sink.



ADVANTAGES & FEATURES



TOUCH FREE

No need to touch any handle nor button to activate.



WATER MIXER

Mixing cartridge with ceramic disks inside.



LOW POWER CONSUMPTION

Long battery life thanks to it's low consumption hardware



HYGIENIC

Ideal for high hygienic requirmenet enviroments



INTEGRATED BODY

No need of external mixing box.



ANTI VANDALIC Shut-off

Internal timer to shut off flow after defined period of time.



EASY INSTALL

No need of special tools to install.

COMPATIBLE SENSORS



S3 CORE

Infrared sensor for conical body faucet with round window.



S13 CORE

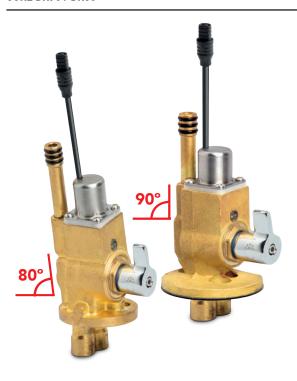
Infrared sensor for cilindric body faucet with round window fixed with metal bracket.



S14 CORE

Infrared sensor for cilindric body faucet with long shape window.

CORE BR90 / BR80



BATTERY HOLDER
Prepared for 4x AA type
batteries, optional AC
adaptor available.



CERAMIC CARTRIDGE
Brass Core features a
ceramic mixing cartridge
for extended life
expectancy.



CORE BR90 / BR80



SAFE HOSE FIXING
Plastic Core include a set
of 600mm stainless steel
hoses with safety bracket.







HYDRON IRED CORE

HYDRON *IRED CORE BRASS 80°*





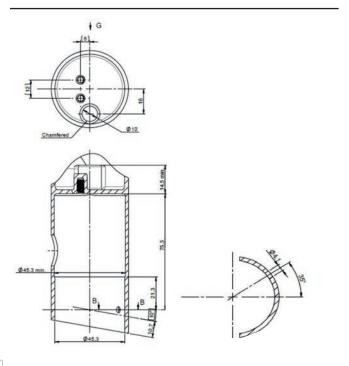
VERSIONS

 iRed Core Brass 80° - S13C - AC/DC - 4MS
 REF. 27ES000078

 iRed Core Brass 80° - S13C - AC/DC
 REF. 27ES000073

 iRed Core Brass 80° - S1C - AC/DC
 REF. 27ES000081

DIMENSIONS



RECOMMENDED APPLICATIONS



KITCHENS Specially designed for kitchens





HOME

Suitable for faucets at home



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

POWER SUPPLY

Hybrid solution:

- Batteries
- AC wall mounted power supply

General	
Technology	ON-OFF bistable latch valve and mechanical temperature selection
Angle of the faucet body with the horizontal	80°
Hydraulic connections	M10

Temperature	MINIMUM	MAXIMUM
Recommended input water range	5 °C	65°C
Maximum inlet temperature	75 °C	
Minimum inlet temperature	>5 °C	

Dynamic pressure	MINIMUM	MAXIMUM
Limits of use	0,5 bar	10 bar
	(0.05 MPa)	(1 MPa)
Recommended limits	1 bar	8 bar
of operation	(0.1 MPa)	(0,8 MPa)
Recommended	2 har (0.2 MDa)	
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/min

HYDRON *IRED CORE BRASS 90°*



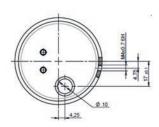


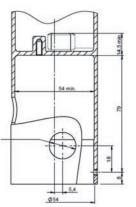


iRed Core Brass 90° - S3C - AC/DC - 4MS iRed Core Brass 90° - S3C - AC/DC

REF. 27ES000077 REF. 27ES000071

DIMENSIONS





RECOMMENDED APPLICATIONS



KITCHENS



HOTELS Reccomended for hotels



HOME

Suitable for faucets at home



PUBLIC VENUES

Suitable for airports, schools, libraries, etc.

POWER SUPPLY

Hybrid solution:

- Batteries
- AC wall mounted power supply

General	
Technology	ON-OFF bistable latch valve and mechanical temperature selection
Angle of the faucet body with the horizontal	90°
Hydraulic connections	M10

Temperature	MINIMUM	MAXIMUM
Recommended input water range	5 °C	65°C
Maximum inlet temperature	75 °C	
Minimum inlet temperature	>5 °C	

Dynamic pressure	MINIMUM	MAXIMUM
Limits of use	0,5 bar	10 bar
	(0.05 MPa)	(1 MPa)
Recommended limits	1 bar	8 bar
of operation	0.1 MPa)	(0,8 MPa)
Recommended	3 bar (0,3 MPa)	
pressure		
Burst (closed valve)	>35 bar (3.5Mpa)	

FLOW RATE @ 3 bar	DN8, without aerator
Mixed water	11,3 l/min

HYDRON IRED CORE

HYDRON *IRED CORE PLASTIC 60°*



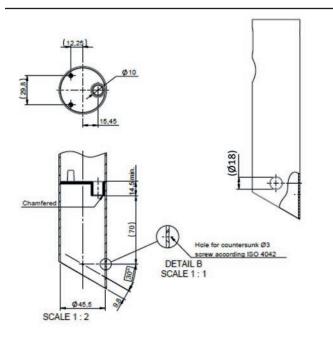


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VERSIONS

iRed Core Plastic 60° - S14C - AC/DC - 4MS REF. 27ES000083 iRed Core Plastic 60° - S14C - AC/DC REF. 27ES000072

DIMENSIONS





Suitable for airports, schools, libraries, etc.

POWER SUPPLY

Hybrid solution:

- Batteries
- AC wall mounted power supply

for hotels

General	
Technology	ON-OFF bistable latch valve with infrared sensor and mechanical temperature selection
Angle of the faucet body with the horizontal	60°
Hydraulic connections	G1/2

Temperature	MINIMUM	MAXIMUM
Recommended input water range	5 °C	65°C
Maximum inlet temperature	75 °C	
Minimum inlet temperature	>5 °C	

Dynamic pressure	MINIMUM	MAXIMUM
Limits of use	0,5 bar	10 bar
	(0.05 MPa)	(1 MPa)
Recommended limits	1 bar	8 bar
of operation	(0.1 MPa)	(0,8 MPa)
Recommended	3 bar (0,3 MPa)	
pressure		
Burst (closed valve)	>35 bar (3.5N	1pa)

FLOW RATE @ 3 bar	DN8, without aerator
Mixed water	14,0 l/min

HYDRON *IRED CORE PLASTIC 90°*

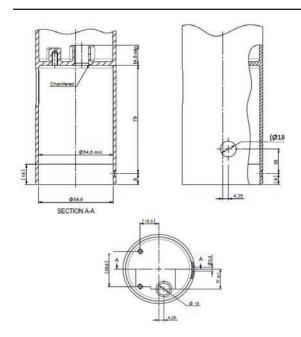


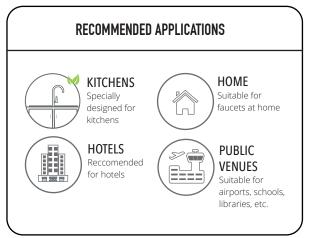


VERSIONS

iRed Core Plastic 90° - S3C - AC/DC - 4MS REF. 27ES000082 iRed Core Plastic 90° - S3C - AC/DC REF. 27ES000070

DIMENSIONS





POWER SUPPLY

Hybrid solution:

- Batteries
- AC wall mounted power supply

General	
Technology	ON-OFF bistable latch valve with infrared sensor and mechanical temperature selection
Angle of the faucet body with the horizontal	90°
Hydraulic connections	G1/2

Temperature	MINIMUM	MAXIMUM
Recommended input water range	5 °C	65°C
Maximum inlet temperature	75 °C	
Minimum inlet temperature	>5 °C	

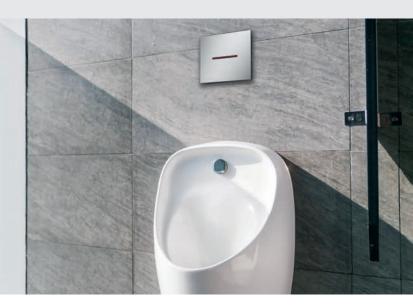
Dynamic pressure	MINIMUM	MAXIMUM	
Limits of use	0,5 bar	10 bar	
	(0.05 MPa)	(1 MPa)	
Recommended limits	1 bar	8 bar	
of operation	0.1 MPa)	(0,8 MPa)	
Recommended	2 har (0 2 MD	2)	
pressure	3 bar (0,3 MP	d)	
Burst (closed valve)	>35 bar (3.5N	>35 bar (3.5Mpa)	

FLOW RATE @ 3 bar	DN8, without aerator
Mixed water	14,3 l/min

HYDRON IRED FLUSH

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.



FEATURES & FUNCTIONS



WATER SAVING

Intelligent flush system with adjustable flush times.



TOUCH FREE

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



HYGIENIC

The system automatically discharges every 24 hours as a bacteria prevention system.



LOW POWER CONSUMPTION

For Dc power,4AA alkaline batteries of 108000 cycles.



TRAP SEAL PROTECTION

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



POWER CUT AVALABLE

In the event of power failure, this product will automatically switch to battery power.



INTELLIGENT

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

HYDRON *IRED FLUSH*





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HOTELS Reccomended for hotels PUBLIC VENUES Suitable for airports, schools, libraries, etc.

RECOMMENDED APPLICATIONS

VERSIONS	BRASS	PLASTIC
Valve AC+DC	REF. 27EG004003	REF. 27EG004008
Valve AC	REF. 27EG004002	REF. 27EG004007
Valve DC	REF. 27EG004001	REF.27EG004006

Valve DC REF. 2/EGUU4UU

DIMENSIONS

21/2

CERTIFICATIONS







General	
Power	AC: 220V-240V;50/60HZ
- OWEI	DC:4AA Alkaline battery
Power Consumption	<0.3mW
Sensing Distance	75-80cm
Water Pressure	0.5Bar-7Bar
Temperature	1-45°C
Dia.of inlet pipe	G 1/2"
Dia.of outlet pipe	G 1/2"

HYDRON INFRARED SENSORS



DESCRIPTION

Sedal has designed and developed a collection of off-the-shelf sensors covering most applications in the market, including main body and spout fitting, which are ready to take and integrate in touchless faucets. The Infrared Sensors by Sedal work perfectly synced with our Hydron on-off Valve Range with easy maintenance features.

OEM shapes and specifications can be developed on demand, as well as special functions such wireless connectivity or BMS capability.

ADVANTAGES



DIFFERENT SHAPES

Alternative shapes for different faucet designs available.



ADJUSTABLE DISTANCE

Sensor distance adjustable for different faucet types and applications.



EASY FITTING

Assembly friendly sensors for easier manufacturing process.



SPOUT AND MAIN BODY INSTALL

Variants for faucet spout and body location.



IP CONNECTOR

IP65 connectors for reliable assembly and function during product life.



ANTI-VANDALIC

In the event of power failure, this product will automatically switch to battery power.



FALSE ACTIVATION FREE

Smart function to recognise false.

HYDRON SENSORS FOR IRED

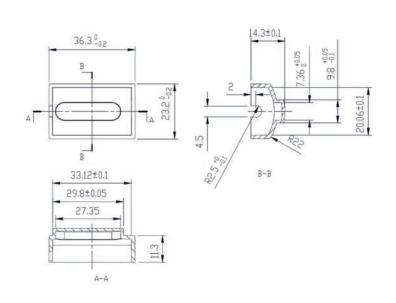
\$1 for iRED & iRED+



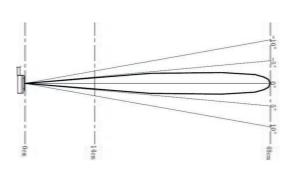


RECOMMENDED APPLICATIONS KITCHENS HOME Specially Suitable for designed for faucets at home kitchens **HOTELS PUBLIC** Reccomended **VENUES** for hotels Suitable for airports, schools, libraries, etc.

DIMENSIONS



General	
Voltage supply	DC 6V
Detection Distance	14-48 cm (Adjustable)
Water Saving Function	Auto closed after 30s (iRED*) Auto closed after 60s (iRED)
Life test	500,000 cycle
Opening time	< 1 s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when < 3.9V



HYDRON SENSORS FOR IRED

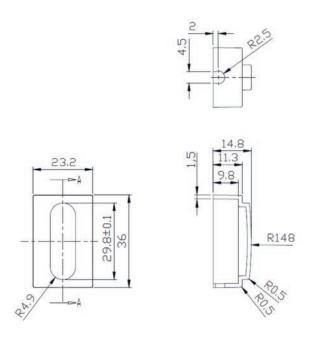
S2 for IRED



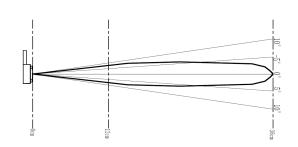


RECOMMENDED APPLICATIONS **KITCHENS HOME** Specially Suitable for designed for faucets at home kitchens **HOTELS PUBLIC** Reccomended **VENUES** for hotels Suitable for airports, schools, libraries, etc.

DIMENSIONS



General	
Voltage supply	DC 6V
Detection Distance	12-38 cm (Adjustable)
Water Saving Function	Auto closed after 60s
Life test	500,000 cycle
Opening time	<1s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when < 3,9V



S3 for IRED

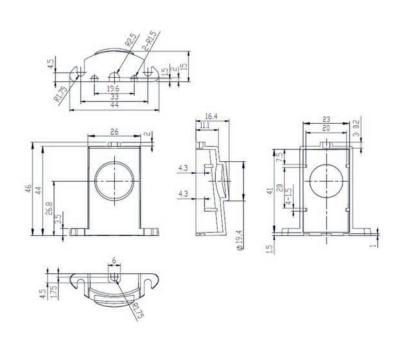




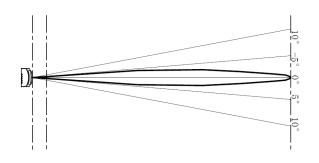
RECOMMENDED APPLICATIONS KITCHENS Specially designed for kitchens HOTELS Reccomended for hotels PUBLIC VENUES Suitable for Suitable for

airports, schools, libraries, etc.

DIMENSIONS



General	
Voltage supply	DC 6V
Detection Distance	2-37 cm (Adjustable)
Water Saving Function	Auto closed after 60s
Life test	500,000 cycle
Opening time	< 1 s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	Indicator light when < 3,9V



HYDRONSENSORS FOR IRED

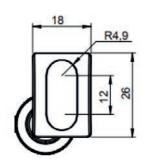
S5for IRED

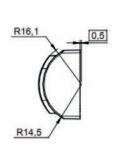


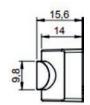


RECOMMENDED APPLICATIONS **KITCHENS** HOME Specially Suitable for designed for faucets at home kitchens **HOTELS PUBLIC** Reccomended **VENUES** for hotels Suitable for airports, schools, libraries, etc.

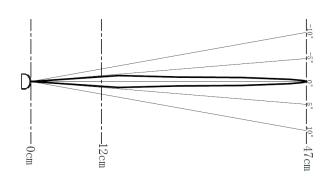
DIMENSIONS







General	
Voltage supply	DC 6V
Detection Distance	12-47 cm (Adjustable)
Water Saving Function	Auto closed after 60s
Life test	500,000 cycle
Opening time	<1s
Closing time	< 1,5 s
Detection angle	10 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when < 3,9V



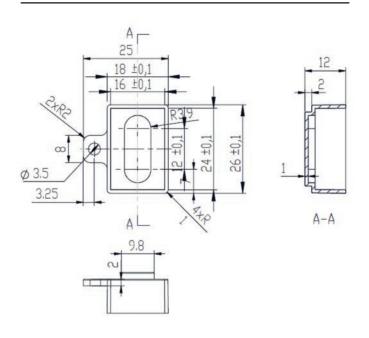
S6 for IRED



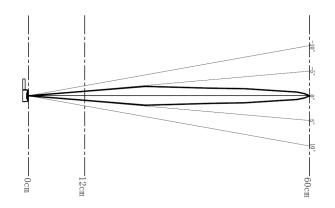


RECOMMENDED APPLICATIONS KITCHENS Specially designed for kitchens HOTELS Reccomended for hotels PUBLIC VENUES Suitable for airports, schools, libraries, etc.

DIMENSIONS



General	
Voltage supply	DC 6V
Detection Distance	12-60 cm (Adjustable)
Water Saving Function	Auto closed after 60s
Life test	500,000 cycle
Opening time	< 1 s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	Indicator light when < 3,9V



HYDRON SENSORS FOR IRED+

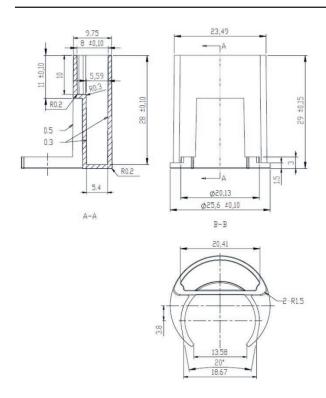
S7 SENSOR KIT

for IRED+





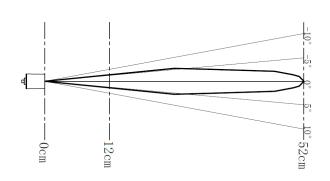
DIMENSIONS



COMPONENTS



General	
Voltage supply	DC 6V
Detection Distance	12-52 cm (Adjustable)
Water Saving Function	Auto closed after 60s
Life test	500,000 cycle
Opening time	< 1 s
Closing time	< 1,5 s
Detection angle	10 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when
	< 3,9V



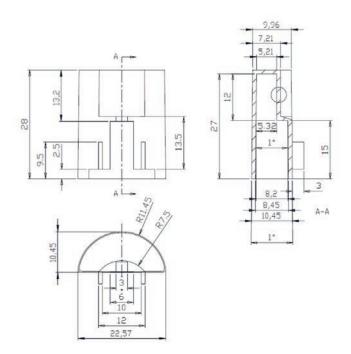
S8 SENSOR KIT

for IRED+





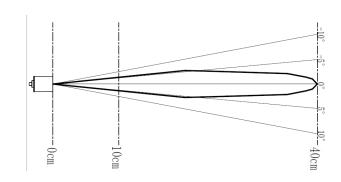
DIMENSIONS



COMPONENTS



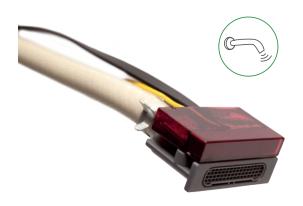
General	
Voltage supply	DC 6V
Detection Distance	10-40 cm (Adjustable)
Water Saving Function	Auto closed after 30s
Life test	500,000 cycle
Opening time	<1s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when < 3,9V



HYDRON SENSORS FOR IRED+

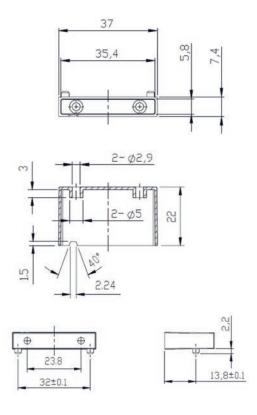
S9 SENSOR KIT

for IRED+





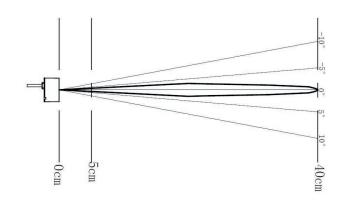
DIMENSIONS



COMPONENTS



General	
Voltage supply	DC 6V
Detection Distance	5-40 cm (Adjustable)
Water Saving Function	Auto closed after 30s
Life test	500,000 cycle
Opening time	<1s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	Indicator light when < 3,9V



HYDRON SENSORS FOR IRED CORE

S3 COREfor IRED CORE

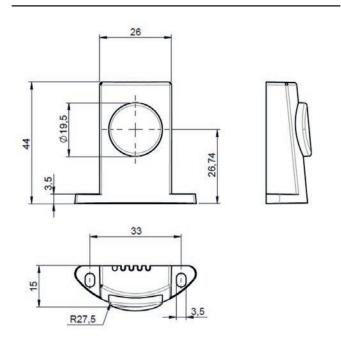




RECOMMENDED APPLICATIONS KITCHENS Specially designed for kitchens HOTELS Reccomended for hotels PUBLIC VENUES Suitable for airports, schools,

libraries, etc.

DIMENSIONS



General		
Voltage supply	DC 6V	
Maximum power	≤4 W	
Standby power	≤0,2 mW	
Detection Distance	12-60 cm (Adjustable)	
Pre-adjusted detection	22.2	
distance	32±2cm	
Water Saving Function	Auto closed after 60s	
Life test	500,000 cycle	
Opening time	<1s	
Closing time	< 1,5 s	
Detection angle	15 deg (conical)	
Protection against intrusion	IP 67	
Static power consumption	DC <0.5mW, AC <2W;	
Under voltage protection	LED blinks twice when < 3,9V	

HYDRONSENSORS FOR IRED CORE

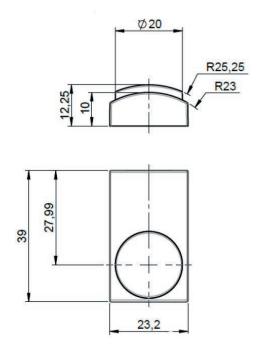
S13 CORE for IRED CORE





RECOMMENDED APPLICATIONS **KITCHENS** HOME Suitable for Specially designed for faucets at home kitchens **HOTELS PUBLIC** Reccomended **VENUES** for hotels Suitable for airports, schools, libraries, etc.

DIMENSIONS



General	
Voltage supply	DC 6V
Maximum power	≤4 W
Standby power	≤0,2 mW
Detection Distance	12-47 cm (Adjustable)
Pre-adjusted detection	20.2
distance	28±2cm
Water Saving Function	Auto closed after 30s
Life test	500,000 cycle
Opening time	< 1 s
Closing time	< 1,5 s
Detection angle	10 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when
Under voltage protection	< 3.9V

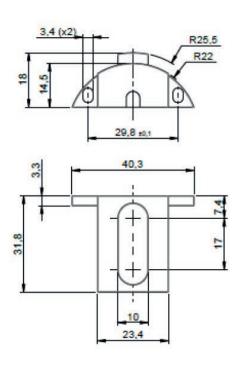
S14 COREfor IRED CORE





RECOMMENDED APPLICATIONS **KITCHENS** HOME Specially Suitable for designed for faucets at home kitchens HOTELS **PUBLIC** Reccomended **VENUES** for hotels Suitable for airports, schools, libraries, etc.

DIMENSIONS



General	
Voltage supply	DC 6V
Maximum power	≤4 W
Standby power	≤0,2 mW
Detection Distance	12-60 cm (Adjustable)
Pre-adjusted detection distance (white card)	21±3cm
Water Saving Function	Auto closed after 60s
Life test	500,000 cycle
Opening time	< 1 s
Closing time	< 1,5 s
Detection angle	15 deg (conical)
Protection against intrusion	IP 67
Static power consumption	DC <0.5mW, AC <2W;
Under voltage protection	LED blinks twice when < 3,9V

HYDRON INFRARED SENSORS

VALVE & SENSOR KIT PART NUMBER

REFERENCE	COMPONENT	POWER SUPPLY	SENSOR
27ES000001	iRED	DC	S1
27ES000002	iRED	AC	S1
27ES000003	iRED	AC/DC	S1
27ES000046	iRED	DC	S2
27ES000047	iRED	AC	S2
27ES000048	iRED	AC/DC	S2
27ES000049	iRED	DC	S3
27ES000050	iRED	AC	S3
27ES000051	iRED	AC/DC	S3
27ES000052	iRED	DC	S5
27ES000053	iRED	AC	S5
27ES000054	iRED	AC/DC	S5
27ES000055	iRED	DC	S6
27ES000056	iRED	AC	S6
27ES000057	iRED	AC/DC	S6
27ES000004	iRED+	DC	S1
27ES000005	iRED+	AC	S1
27ES000006	iRED+	AC/DC	S1
27ES000058	iRED⁺	DC	S7
27ES000044	iRED+	AC	S7
27ES000059	iRED+	AC/DC	S7
27ES000060	iRED+	DC	S8
27ES000045	iRED+	AC	S8
27ES000061	iRED+	AC/DC	S8
27ES000062	iRED+	DC	S9
27ES000063	iRED⁺	AC	S9
27ES000064	iRED⁺	AC/DC	S9
27EG002003	iRED+	DC	S6
27EG002004	iRED+	AC	S6
27EG002005	iRED+	AC/DC	S6



HYDRON ROTARY MIXING VALVE

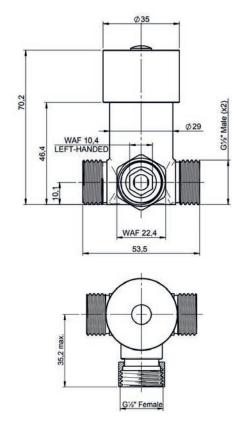
ROTARY MIXING VALVE

with CERAMIC CARTRIDGE
REF. 09ST02





DIMENSIONS



DESCRIPTION

Mechanical mixing valve that allows selecting a preset water temperature. The typical application is placing the valve upstream of a single pipeline terminal fitting, such as infrared-controlled electro valve, headwork, self-closing valve, spray nozzle, etc.

FEATURING

- Chrome-plated brass body and knob
- Rotary mixing cartridge with ceramic disks provides superb operation comfort and durability.
- Check valves placed at both inlets for backflow protection.
- Rubber seal include mesh filters for particles retention.

General	
Technology	Rotary ceramic cartridge
Turning angle	90°
Operating torque @ 3 bar	≤0,2 mW
Hydraulic connections	12-60 cm (Adjustable)
Life test resistance EN 200	21±3cm
Weight	Auto closed after 60s

Temperature	
Maximum inlet temperature	65 °C *(1)
Minimum inlet temperature	>0 C

Pressure		
Recommended dynamic	3 bar (0.3 MPa)	
Burst	>35 bar (3,5 MPa)	

Flow Rate (3 bar, DN8)	Free Flow	Class A
Mixed water	16 L/min	10 L/min
Full Cold or Full Hot	14 L/min	9 L/min

HEADQUARTERS Sedal, S.L.U.

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The values that appear in the catalogue have been tested in our laboratory using master faucets. The values may change depending on conditions of installation. Sedal reserves the right to change the catalogue without notice.