

# TOP CARTRIDGE

TOP is a cartridge product range created to be THE BEST IN CLASS, outstanding its competitors in all fields and offering the manufacturer a perfectly balanced cartridge with an extraordinary endurance: 3x standard life cycling tests. It is also available with TRN technology for water and energy saving.

*TOP*

**x3**  
LIFE CYCLE



# FEATURING



## Higher flow rate

TOP has a 5% more flow rate than the average in its market segment. It also has **up to 5% more flow rate** than its closest competitor and it is substantially higher than the standard cartridges.



## The best in sensitivity

TOP has a **10% more sensitivity** than its closest competitor, and more than 20% of sensitivity than the average cartridges in the market.



## Lower noise level

TOP fits NF class 3 <15dB, class 2 <20dB, **20% less noise** than the average in its market segment and less than its closest competitor.



## Extraordinary comfort

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



## Mechanical strength

TOP offers a **25% more mechanical strength** than standard 35 mm cartridges in the market.



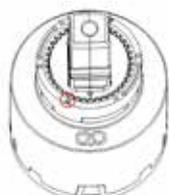
# ADVANTAGES

## Temperature limiter function

Allows **limiting maximum temperature in 10 selectable stops** (every 9°), enabling an anti-scalding safety feature.



Open at 0°



Open at 27°

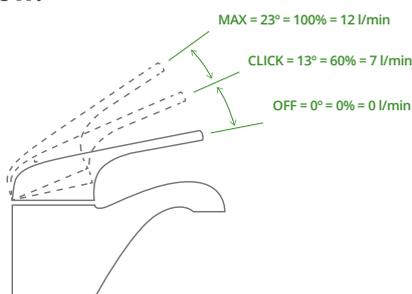
## Flow limiter function

Allows **water saving** at the same time thanks to a flow limiter.



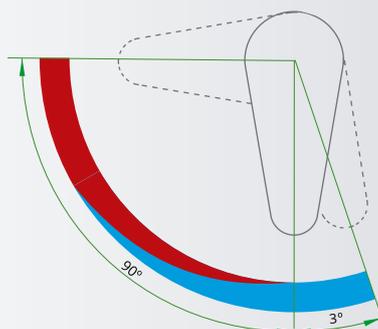
## Due Technology **NEW**

For an easier control of water flow, this feature presents a slight resistance to indicate that the fitting is **using approximately a 50% of its flow.**



## Cold Technology **NEW**

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



# VERSIONS



EX-28

- Standard
- Due
- Cold
- Cold Due



EN-35 TOP  
STANDARD

- Standard
- Due
- Cold
- Cold Due
- Cold Mirror



EX-35 TOP  
COMPACT

- Standard
- Due
- Cold
- Cold Due



G-35 TOP  
UPPER SEAL

- Standard
- Due
- Cold
- Cold Due



CC-35 TOP

- Standard
- Due
- Cold
- Cold Due

Sedal's TOP cartridge range is compliant to the following standards (according to versions-features):

C1, C2, C3, NF ECAU

# TECHNICAL SPECIFICATIONS

	EX-28 TOP	EN-35 TOP	EX-35 TOP COMPACT	G-35 TOP UPPER SEAL	CC-35 TOP
Nut torque/Pitch M1,5	7-8 Nm	10-12 Nm	10-12 Nm	10-12 Nm	10-12 Nm
Opening angle	22°	23°	23°	23°	23°
Rotation angle	90°	100°	100°	100°	100°
Working pressure (recommended)	1 - 5 bar	1 - 5 bar	1 - 5 bar	1 - 5 bar	1 - 5 bar
Burst pressure	50> bar	>50 bar	>50 bar	>50 bar	>50 bar
Life cycle- x2 ASME	1,000,000 cycles	1,000,000 cycles	1,000,000 cycles	1,000,000 cycles	1,000,000 cycles
EN 817 (NF-077 U3)	175,000 cycles	175,000 cycles	175,000 cycles	175,000 cycles	175,000 cycles
x2 GB-18145	140,000 cycles	140,000 cycles	140,000 cycles	140,000 cycles	140,000 cycles
Sensitivity <sup>(1)</sup> (EN 817)	>12°	>12°	>12°	>12°	>12°
Fidelity <sup>(1)</sup> (NF-077)	<5°C	<5°C	<5°C	<5 °C	<5 °C
Constant 63°C & 50°C (6 l/min - 3 l/min)	<4°C - <6°C	<4°C - <6°C	<4°C - <6°C	<4°C - <6°C	<4°C - <6°C
Max. hot water limit	90°C	90°C	90 °C	90 °C	90 °C
<b>Flow rate at 3 bar <sup>(1)</sup></b>					
Free flow <sup>(1)</sup>	13.9 l/min	28.1 l/min (C/D) (29.5) 27.5 l/min (S/D) (29.0)	28.2 l/min (C/D)	28.5 l/min	26.5 l/min
<b>Operation Torque</b>					
Open-close	0,15 - 0,30 Nm	0,20 ÷ 0,40 Nm	0,20 ÷ 0,40 Nm	0,20÷0,40 Nm	0,20÷0,40 Nm
Turn left-right	0,15 - 0,30 Nm	0,20 ÷ 0,40 Nm	0,20 ÷ 0,40 Nm	0,20÷0,40 Nm	0,20÷0,40 Nm
Noise level Group I EN 817 Class A2/A3 NF077	Acoustic Group I <20 dB	Acoustic Group I <20 dB	Acoustic Group I <20 dB	Acoustic Group I <20 dB	Acoustic Group I <20 dB

-Hammer test NF-077.  
-High temp. pressure test AS-NZS

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



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**sedal**  
THE FAUCET'S HEART

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