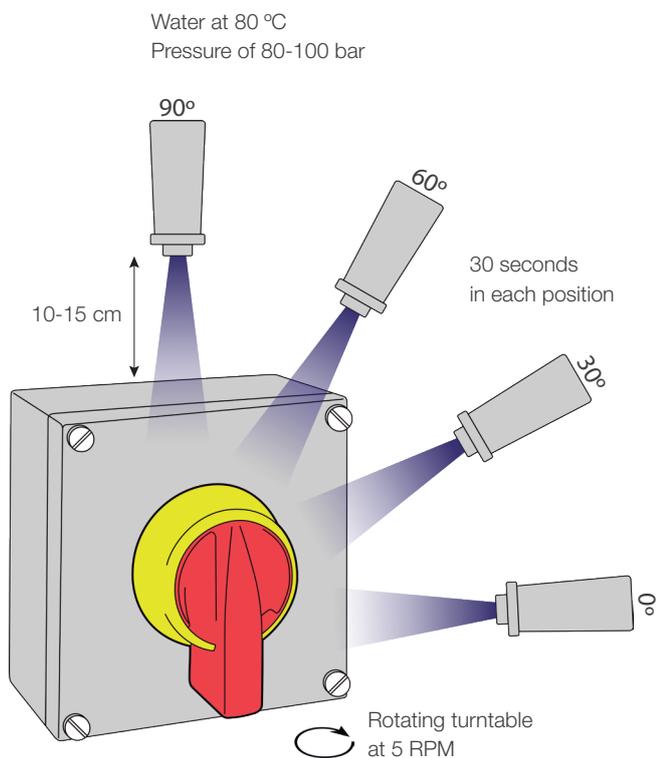


Gawe



New range of IP69K handles





## What is involved in the IP69K test?

The IP69K test according to **IEC 60529 standard** was designed to ensure that products can withstand high temperature washdown applications characteristic of food industry.

### How is the test carried out?

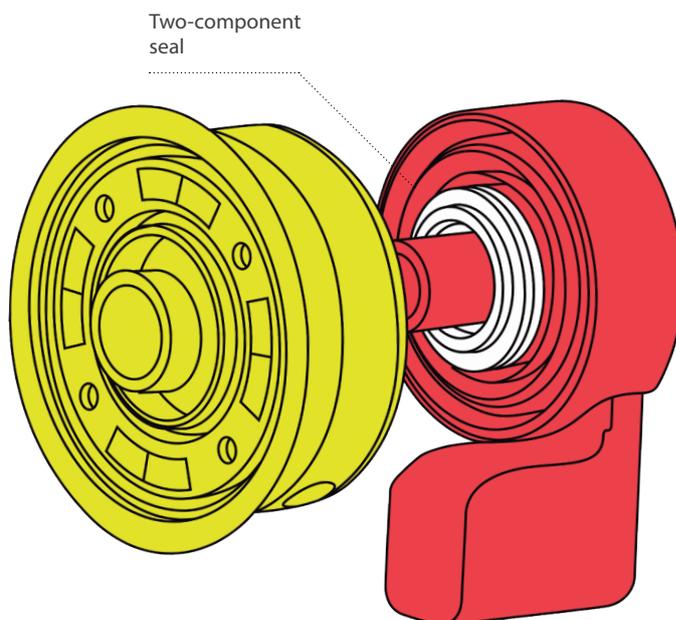
- Enclosed switch is mounted on a turntable that rotates once every 12 seconds (5 rpm).
- A jet nozzle placed 10–15 cm away sprays the product with 80 °C water at 80-100 bar of pressure at a flow rate of 14–16 liters per minute.
- The test is carried out with the jet nozzle at angles of 0° (horizontal), 30°, 60° and 90° (vertical) for 30 seconds in each position.

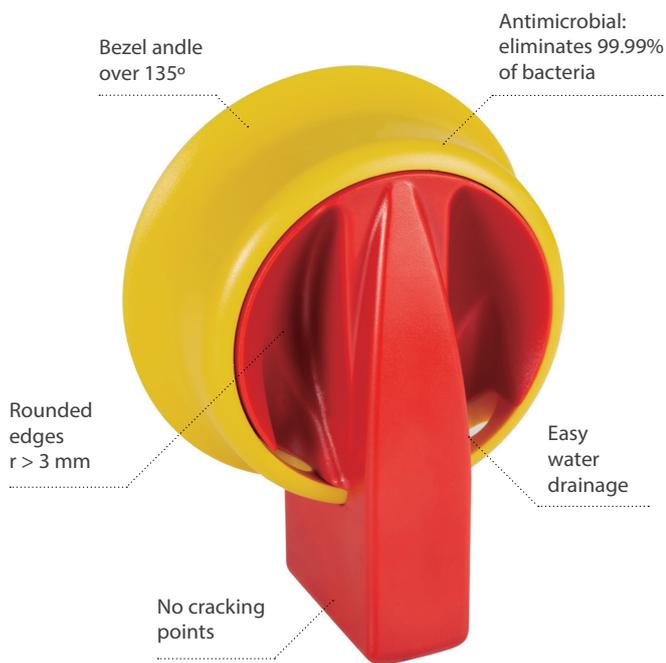
## How do we guarantee effectiveness over time?

Gawe has developed a **unique solution** based on a two-component seal that overcomes the challenges of conventional joints subject to cracks due to mechanical erosion and temperature changes.

The **two-component seal** consists of a hard part made from heat-resistant plastic and a soft part made from water-repellent grease.

The plastic part provides pressure resistance and has grooves that are filled in with a special grease to prevent liquid penetration and the appearance of cracks where dirt and bacteria can be deposited.





## New IP69K handles

*A solution for environments subject to heavy-duty cleansing*

Food processing machine safety has been a constant concern in the **food industry**. This was reflected in the **EN 1672-2 standard**, which establishes design requirements related to food processing machine hygiene and cleaning.

The new range of IP69K handles incorporate the standard's **design requirements** and are ready to withstand the heavy-duty cleansing operations carried out in the food industry, characterised by their high aggressiveness and verified according to IEC 60529 - IP69K test procedure.



### Antimicrobial technology

Silver ions (type 1 and 2) are added to the product's raw material to inhibit the proliferation of microorganisms.



### Hygienic design

Rounded edges ( $r > 3$  mm) and an angle of over  $135^\circ$  between the mounting surface and the handle prevent particle adhesion.



### Shock-resistant

The IP69K handle has been designed with ultra-shock-resistant plastic material.



### IP69K Certification

The IP69K test of the IEC 60529 standard ensures resistance to pressure washing and high temperatures at four different angles.

### Retrofitting of facilities

Facilities can be upgraded to **higher safety levels** using IP69K handles without needing to replace the switch. We will select the right reference depending on the shaft of the switch (5 mm or 8 mm), compatible with all existing assemblies.

The front piece was designed to come pre-assembled in order to prevent any installation errors.

Handle and plate sets

References	Size	Shaft
AK12H0523	D0 and D1	5 mm
AK12H0526	D2 and D3	8 mm
AK12H0143	D0 and D1	5 mm
AK12H0146	D2 and D3	8 mm

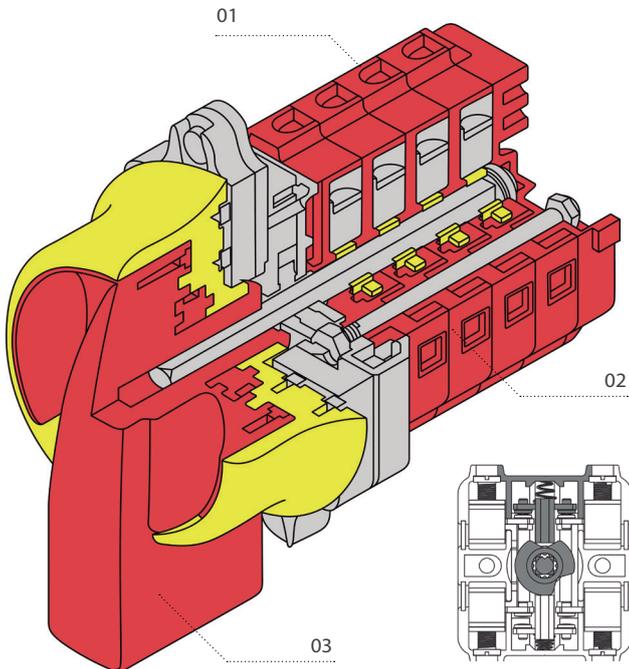


## Designed for industrial requirements

The IP69K handle is **highly robust**, just like A5/L5 switches series that were designed including a number of intrinsic features that ensure maximum product reliability in industrial applications.

The body of the switch is made of temperature-resistant materials with high levels of dielectric performance. The shape and alloys of the contacts offer great performance in both normal and overload conditions. **Cam technology** adds flexibility to electrical schemes and stands out by its high levels of **electromechanical endurance**.

- 01 The shaft made of galvanized steel with high resistance to bending and torsion ensures optimal contacts opening and closing.
- 02 Contact cells with deep inlet locking system that provides great strength to the assembly.
- 03 Metal rods extending longitudinally through the breaking mechanism and contact cells provide high robustness to the complete set.



**Cam technology**  
The best electrical and mechanical endurance.

## IP69K handle in stainless steel enclosure

### *Safety and hygiene in exposed environments*

These environments are characterised by the presence of acidic corrosive elements in the air and solvents during cleaning operations. It also must be considered the exposure to accidental shocks that risk producing bites on the enclosure surface.



#### **Corrosion-resistant**

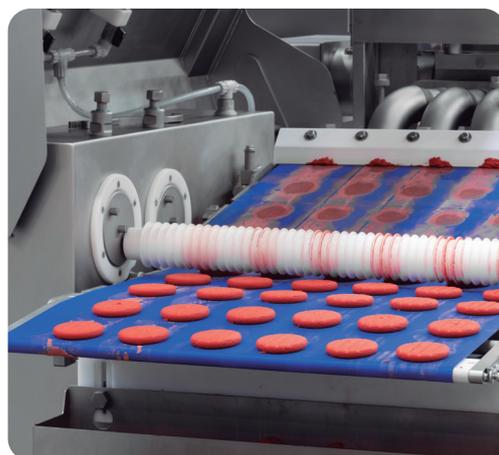
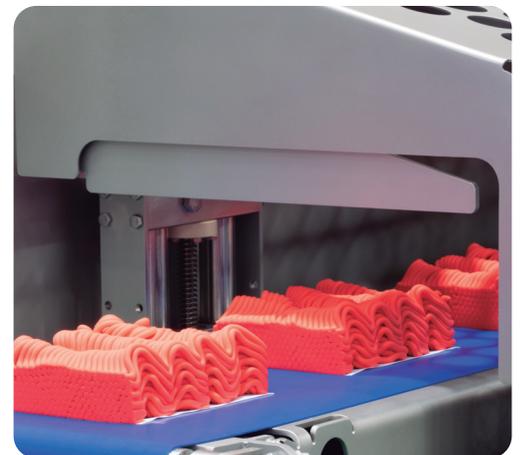
The INOX 316L stainless steel enclosure is highly resistant to corrosion as well as acidic and saline environments.



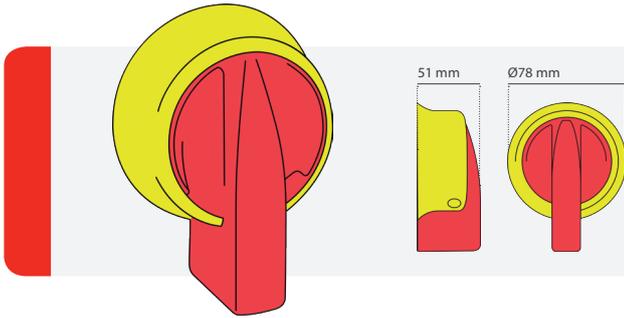
## Applications in a wide variety of environments

The **IP69K certification** is the highest degree of protection that exists. For that reason, the new range of IP69K handles is most suitable for a wide variety of **hostile environments** exposed to harsh safety and cleaning conditions.

This is particularly true for the **food industry**, which is characterised by extreme safety levels for the cleaning and hygiene of machines, as considered in the EN 1672-2 "Food Machinery - General Design Principles - Part 2: Hygiene Requirements".

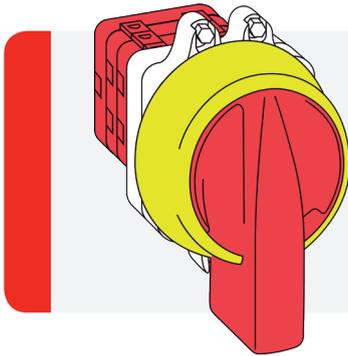


## IP69K padlockable safety handles



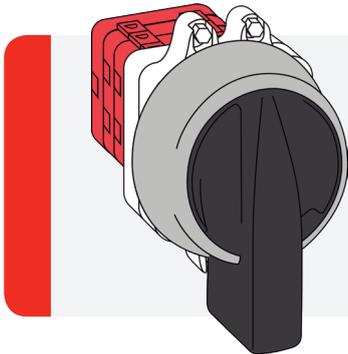
Description	Color	Reference
Sizes D0 and D1	Red/yellow ●●	AK12H0523
Sizes D2 and D3	Red/yellow ●●	AK12H0526
Sizes D0 and D1	Black/grey ●●	AK12H0143
Sizes D2 and D3	Black/grey ●●	AK12H0146

## IP69K switches with red/yellow padlockable handles



Poles	Cells	Scheme	Size D0			Size D1			Size D2		
			25 A	32 A	40 A	63 A	100 A	125			
2 poles	1	AB551	AB5512000H	AB5513100H	AB5514100H	AB5516100H	AB5517100H	AB5519100H			
3 poles	2	AB552	AB5522000H	AB5523100H	AB5524100H	AB5526100H	AB5527100H	AB5529100H			
3 poles + aux 1NA + 1NC	2+1	ABG52	ABG522000H	ABG523100H	ABG524100H	ABG526100H	ABG527100H	ABG529100H			
4 poles	2	AB553	AB5532000H	AB5533100H	AB5534100H	AB5536100H	AB5537100H	AB5539100H			
4 poles + aux 1NA + 1NC	2+1	ABG53	ABG532000H	ABG533100H	ABG534100H	ABG536100H	ABG537100H	ABG539100H			

## IP69K switches with black/grey padlockable handles



Poles	Cells	Scheme	Size D0			Size D1			Size D2		
			25 A	32 A	40 A	63 A	100 A	125			
2 poles	1	AC551	AC5512000H	AC5513100H	AC5514100H	AC5516100H	AC5517100H	AC5519100H			
3 poles	2	AC552	AC5522000H	AC5523100H	AC5524100H	AC5526100H	AC5527100H	AC5529100H			
4 poles	2	AC553	AC5532000H	AC5533100H	AC5534100H	AC5536100H	AC5537100H	AC5539100H			

