

# ISORIA – Soft-seated, Centred-disc Butterfly Valve



ISORIA + ACTAIR EVO  
+ SMARTRONIC U



### Applications:

- Water supply, water treatment, irrigation, drainage, desalination
- Food and beverage industries
- Building services
- Power stations and cooling circuits
- Shipbuilding
- Desulphurisation
- Energy sector
- Chemical industry
- Steel industry
- Sugar industry

### More information:

[www.ksb.com/products](http://www.ksb.com/products)

amri



Levers



Manual gearboxes



Pneumatic actuators



Electric actuators



Hydraulic actuator



Automation

# ISORIA – Soft-seated, Centred-disc Butterfly Valve

## 1 Flexible

- Broad application range
- Diverse configuration options: Design engineered for optimum adaptation to various processes
- Large range of variants: body type, dimensions, materials for demanding environments
- Special designs for special requirements available on request

## 2 Tight shut-off

- Liner developed and manufactured by KSB in France
- The spherically machined valve disc and the matching spherically moulded liner ensure perfectly tight sealing to atmosphere.
- Sealing at the flanges is effected by the liner only.

## 3 High safety/reliability

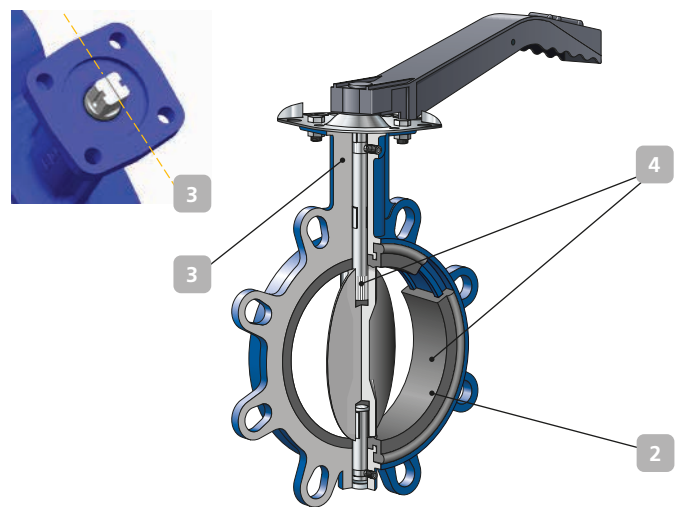
- The position of the valve disc can be seen at the shaft end.
- Square shaft ends to ISO 5211 for universal use
- Mechanical coding for the lever
- Blowout-proof actuating shaft
- Corrosion protection by various coatings for body and valve disc

## 4 Long service life

- Only the valve disc and liner are in contact with the fluid handled.
- Positive-locking connection of shaft and valve disc by splined or keyed connection for optimum torque transmission
- Shaft optimally guided in self-lubricating, coated bearings

## 5 Service-friendly

- Liner freely mounted, enabling removal and replacement without dismantling the valve
- Easy and economic maintenance



### Versions available

Levers	SR+, SP+, S+, CR+, CM+
Manual gearboxes	MA+, MS, MC
Pneumatic actuators	ACTAIR EVO / DYNACTAIR EVO
Electric actuators	GS-SA, SQ, AQ, AQL
Hydraulic actuators	HQ EVO
Position indication	AMTROBOX
Open/close control unit	AMTRONIC U
Positioner	SMARTRONIC U

\* Other configurations possible on request. Certificate on request.

#### Note:

Product information as per Directive 2014/34/EU (ATEX): The valves do not have a potential internal source of ignition. In accordance with ATEX 2014/34/EU, they can be used in potentially explosive atmospheres, Group II, category 2 (zones 1+21) and category 3 (zones 2+22). The products are PED-compliant. The valves meet the requirements of Commission Regulation (EU) 2021/2030 (REACH).

Product information as per UK Pressure Equipment (Safety) Regulations 2016: The valves satisfy the safety requirements of the UK Pressure Equipment (Safety) Regulations 2016 (PER) for fluids in Group 1 and 2.

### Technical data

Nominal diameter	DN 40 – 1000
Operating pressure	10 – 25 bar
Connection*	PN 6/10/16 with flanges to EN, ISO, AWWA, ASME, MSS, JIS
Shaft end	ISO 5211 square
Operating temperature	-30 °C to +200 °C
Body design	Wafer-type body (T1), semi-lug body (T2), full-lug body (T3/T4), flanged body with flat faces (T5)

### Materials

Body*	Lamellar graphite cast iron, cast steel, nodular cast iron
Actuating shaft*	Stainless steel
Valve disc*	Nodular cast iron, stainless steel / aluminium bronze / cast iron with anti-corrosive coating
Liner*	EPDM (ACS), nitrile, CSM (Hypalon®), Viton®, epichlorohydrin, high-temperature silicone, HNBR, polybutadiene



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