

► Our technology. Your success.

Pumps • Valves • Service



## DUALIS – Combined Check Valve



### Applications:

- Pumps, turbines, pipelines protection
- Water transport
- Cooling system
- All industrial applications

### More information:

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

# DUALIS – Combined Check Valve



## Advantages

- Cost effective solution  
One valve instead of one isolation valve and one check valve
- Easy commissioning and use  
thanks to a compact and weight saving design
- Low maintenance risks thanks to mechanical design  
with reduced number of pieces
- Long design life – about 20 years
- Energy saving system  
thanks to low pressure drop at fully opened position
- Optimum matching to customer requirements  
thanks to a modular design and various options
  - Electrical cabinet
  - Sunshade
  - Specific instrumentations
  - Control box
- Numerous functionalities on HPU for valve  
operating and control

## Composition

DUALIS ensures with one product the functions of an isolation valve and a check valve usually offered separately. This “2 in 1” product is composed of

- a butterfly valve
- an electro hydraulic single acting actuator (Counter weight)
- an integrated hydraulic power unit (HPU) connected to customer DCS

## Purpose

DUALIS enables to:

- Close 100% tightly your hydraulic installation (category A of ISO 5208 / EN 12266-1)
- Act as stop valve and water hammer damper for hydraulic turbine
- Protect pumps, turbines, pipelines against reverse flow, water hammer and overflow

## Principle of working

HPU pilots the opening process. Closing cycle is done mechanically by the drop of the counter weight with gravity

## Technical data\*

standard versions for valve control DN 500 – 1400 / PN 6 – 40

One motor – One pump: 3-phase 400 VAC 50 Hz-Motor protection IP 55

One emergency hand-operated pump

- Stop and go
- Adjustable operating time within a range of values
- One opening speed, two closing speeds

- One pressure switch with two to four adjustable thresholds
- One dry contact for oil level alarm
- One limit switch box with two dry contacts for open and closed position
- One junction box for electrical connection
- Other accessories on request

\*Higher ratings on request