



**ARMATUREN**

[ari-armaturen.com](http://ari-armaturen.com)

# SHAPE UP

**AND BOOST YOUR  
ENERGY EFFICIENCY**



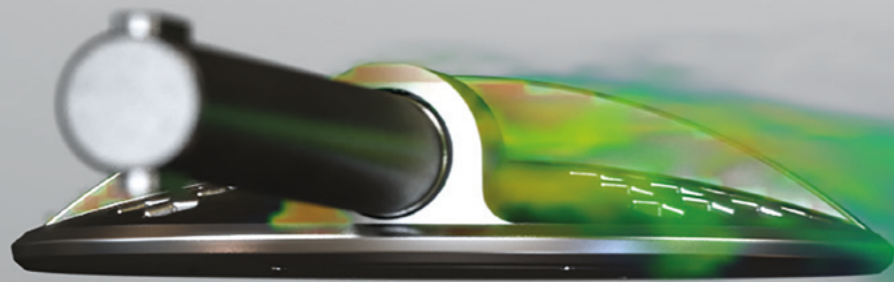
**ZEDOX<sup>®</sup> HEXO**

The first double offset butterfly valve ARI ZEDOX<sup>®</sup> HEXO with a unique honeycomb disc design.

[zedox-hexo.com](http://zedox-hexo.com)

# INNOVATIVE HEXO HONEYCOMB DISC TECHNOLOGY

**Optimise your KVS values by up to 35%\*** with the new double eccentric butterfly valve ARI ZEDOX® HEXO and its unique honeycomb disc design.



The innovative HEXO honeycomb disc technology enables up to 35 % higher KVS (flow co-efficient) values compared to standard High Performance valves. It ensures a significant reduction of pressure losses in the entire system and proves to be a real efficiency booster. This is an important step towards energy saving. The registered HEXO honeycomb disc design increases the stiffness of the entire disc construction and guarantees maximum process reliability while reducing weight.

„The first double eccentric butterfly valve with honeycomb disc design worldwide“

Another advantage: the innovative technology has a positive effect on the flow characteristics of the ZEDOX® High Performance butterfly valve, as turbulences behind the valve are reduced to a minimum. The ZEDOX® HEXO thus enables significantly shorter downstream pipe sections than standard double eccentric butterfly valves. This offers a clear advantage in limited space conditions as well as the possibility of building more compact systems and thus reducing the total costs of ownership. The optimized flow characteristic also reduces vibrations in the system, which in turn reduces wear and tear and consequently increases the maintenance intervals, hence saves costs.

**NEW**  
AND ONLY  
AT ARI!



## INNOVATIVE HONEYCOMB DESIGN

New and innovative – the HEXO honeycomb disc design is registered and worldwide unique.



## HIGH STIFFNESS

The honeycomb disc technology increases the stiffness of the entire disc construction and guarantees maximum process reliability while reducing weight.



## OPTIMISED FLOW CHARACTERISTICS

The flow-optimised design ensures a significantly shorter downstream pipe sections. Therefore, the ZEDOX® is particularly advantageous for more compact systems and limited space.



### ZEDOX® HEXO Honeycomb Disc Design

Find an animated comparison with the comparison to standard High Performance valves under [zedox-hexo.com](http://zedox-hexo.com)

\*Compared to standard high performance valves.

# ZEDOX® HEXO

## HIGH PERFORMANCE BUTTERFLY VALVE

## DOUBLE ECCENTRIC

Reliable tightness even under challenging operating conditions

In contrast to centric butterfly valves, the double-eccentric sealing principle of the new ZEDOX® HEXO (double shift of the pivot point) reduces the angle of the disc when it enters into contact with the seat sealing ring and relieves that metallic sealing when opening. The minimised frictional pressure of the disc with the metallic sealing ring extends the durability of the entire valve.

### OPTIMISE YOUR FLOW

Turbulences after the valve are reduced to a minimum by the optimised disc shape. This ensures significantly shorter downstream pipe sections for smoothing the flow than is usually recommended on the market.



### SAVE ENERGY COSTS

Optimised KVS values for reduced pressure losses within the system prove to be a real efficiency booster.



### IMPROVE YOUR PROCESS SAFETY

The optimised flow characteristics reduce vibrations that can occur. This reduces wear and tear and increases the maintenance intervals.

### YOUR ADVANTAGES

- Functional safety even under challenging operating conditions (reliably tight at temperatures from -40°C to +260°C, PN 10 to PN 40 as well as ANSI Class 150)
- By reducing the contact pressure and minimizing friction, ZEDOX® HEXO offers a long service life
- The streamlined bearing and shape of the valve disc stands for a high-energy efficiency
- The protection of the seat-sealing ring against the influence of negative medium flow creates a long service-life of the ZEDOX® HEXO
- The low torques guarantees a perfect handling
- Easily automated via actuation interface acc. to ISO 5211
- ZEDOX® HEXO accomplishes leakage rate A acc. to EN 12266, API 598 (bi-directional), soft-sealing (type TS), metallic sealing (type CS) with leakage rate B
- Blow-out proof shaft provides extra safety
- Pressure-temperature rating acc. EN 1092, company standard
- Approvals acc. to Firesafe and ATEX



### ZEDOX® HEXO PERFORMANCE FEATURES AT A GLANCE:

- **Design:**
  - EN 12516
  - PED
  - API 609
- **Flange connection:\***
  - EN 1092
  - ASME 16.5
  - ASME 16.47
  - GOST
- **Butt weld ends:\***
  - DIN EN 12627
  - ASME B16.25
  - GOST
- **Nominal diameter:\***
  - Double flange: DN 200-1400 / 8" up to 56"
  - Wafer type: DN 80-800 / 3" up to 32"
  - Butt-weld ends: DN 200-1600 / 8" up to 64"
  - Fully Lugged Type: DN 80-800 / 3" up to 32"
- **Nominal pressure:\***
  - PN 10-40 / Class 150
- **Material:\***
  - Cast carbon steel (1.0619+N; SA216WCB)
  - Cast stainless steel (1.4408; SA351CF8M)
- **Temperature:\***
  - 40°C up to +260°C
- **Flow media:**
  - Liquids
  - Gases
  - Vapours
- **Actuators:**
  - Manual gearbox
  - pneumatic actuators
  - electric actuators
  - hydraulic actuators



ZEDOX® HEXO  
High Performance Valve

More information regarding ZEDOX® HEXO can be found here [zedox-hexo.com](http://zedox-hexo.com)

# ZEDOX® HEXO

## AREAS OF APPLICATION

**ZEDOX® HEXO** is the optimal choice for planners, plant constructors and operators for a wide range of applications with water and steam.

MORE  
**ENERGY  
EFFICIENCY**  
FOR YOUR  
APPLICATION



## AQUA GLIDER

For Your Water Applications

**Typical Areas of Application:**

- Heat Supply / District Heating
- HVAC Applications
- Steel Industry
- Paper Industry
- Food and Beverage Industry, Sugar Industry

## STEAM WHISPERER

For Your Steam Applications

**Typical Areas of Application:**

- Heat Supply
- Power and Steel Plants
- Textile, Paper and Tyre Industry
- Food and Beverage Industry, Sugar Industry
- Shipbuilding and Airports
- Chemical and Pharmaceutical Industry



**ZEDOX® HEXO  
Applications**

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ZEDOX® HEXO can be found  
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# ARI PRODUCT DIVERSITY



ari-armaturen.com

## Control



**Control valves**  
STEVI® Pro  
(BR 422/462, 470/471)



STEVI® Vario  
(BR 448/449)



STEVI® Smart (BR 423/463,  
425/426, 440/441, 450/451)



**Control without auxiliary power**  
PREDU® / PREDEX® /  
PRESO® / TEMPTRON®

## Isolation



**Process Valves**  
ZETRIX®  
**High Performance-Valves**  
ZEDOX®



**Butterfly valves**  
ZESA®/GESA®/ZIVA®



**Bellows sealed valves**  
FABA® Plus, FABA® Supra I/C



**Stop valves with gland seal**  
STOBUs®

## Safety



**Safety valves (DIN)**  
SAFE



**Safety valves**  
SAFE TCP



**Safety valves (API 526)**  
ARI-REYCO®



**Safety valves (ANSI)**  
ARI-REYCO® RL-series

## Steam Trapping



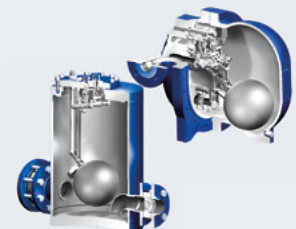
**Steam traps CONA®**  
(mechanical ball float /  
thermostatic bimetallic and  
membrane / thermodynamic), **monitoring systems**  
CONA® Control



**Manifolds**  
CODI® for collecting  
and diverting purpose



**Steam traps with multi-  
valving technology CONA®**  
"All-in-One" (incl. stop valve,  
inside strainer, back-flow  
protection, drain valve)

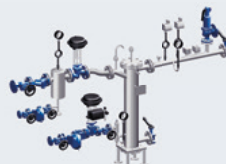


**Mechanical pump systems**  
CONLIFT®, CONA® P

## Engineered Systems



e.g. pressure reducing station  
PREsys®



e.g. heat exchanger  
ENCOsys®



e.g. condensate return  
system CORsys®



e.g. feedwater tank  
with deaerator dome