

ALL GOOD THINGS COME IN **3S**

ZESA®/GESA® NEXTG3**N**
FOR OPTIMIZED PERFORMANCE
AT EVERY DIAMETER.



ZESA®/GESA®
SINGLE SHAFT



ZESA®/GESA®
CURVED



ZESA®/GESA®
HEXO

ZESA®/GESA® NEXTG3N SOFT-SEALING BUTTERFLY VALVES



OPTIMISED FLOW

Due to the optimised disc design, leading to a shorter outlet section.



OPTIMISED SAFETY

Due to the polygon connection, stiffer disc and blow-out protection.



OPTIMISED EFFICIENCY

Due to the optimised Kvs values and ease of servicing, enabling more compact systems. Can be fully insulated.



ZESA®/GESA® NEXTG3N
Soft-sealing butterfly valves

For more information on the ZESA®/GESA® NEXTG3N, please visit zesa-gesa-nextg3n.com

THE NEW GENERATION WITH MANY ADVANTAGES

For significant optimisation and a flow with less turbulence and vibration.

- Optimised disc in three different designs (single shaft, curved, HEXO honeycomb).
- The improved design of the liner contour ensures a firm grip inside the body, and both the disc and the liner are replaceable.
- A wide range of appropriately certified liner materials are available for a variety of applications and temperature ranges.
- The shaft end is designed as a square. Thanks to the standardised connection to ISO 5211, users profit from an uncomplicated design with a gearbox and either an electric or a pneumatic actuator.
- Up to DN 200, the hollow spindle for an optional thermal gauge is standard.
- Blow-out protection according to DIN EN 593 and API609 is provided as standard in the form of a stem lock washer, which is screwed tight to the top flange.
- The connection between the shaft and the disc is designed as a form-fitting polygon for optimum torque transmission.
- Special options:
 - Body made from EN-JS1049 (5.3103)
 - Chiller version down to -20°C
 - Cast lever and metal notched plate up to DN 200
 - Seawater version with NBR liner and CuAl10Ni disc
 - Special paint finishes



Single Shaft Design
DN 20-50



Curved Design
DN 65-200



HEXO Honeycomb Design
DN 250-600

ZESA®/GESA® NEXTG³N PERFORMANCE FEATURES AT A GLANCE:

- **Construction:**
 - **EPDM**
for water, drinking water and water-glycol mixtures with DVGW registration for drinking water, -10 to +130°C
 - **NBR**
for water, oily media and compressed air with DVGW registration for gas, -10 to +80°C
 - **FPM**
for fluids and gases, 0 to +150°C (not for hot water)
 - **EPDM**
with DVGW registration for drinking water, PN 10, -10 to +130°C
 - **NBR**
with DVGW registration for gas up to DN 300, PN 10, -10 to +80°C
- **Body material:**
 - Nodular cast iron 5.3106 (EN-JS1030)
 - Optionally 5.3103 (EN-JS1049)
- **Pressure ratings:**
 - ZESA® PN 6/10/16
 - GESA® PN 10/16
- **Nominal diameters:**
 - DN 20 to DN 600
- **Connections:**
 - Face-to-face according to DIN EN 558 FTF-20
 - Flange connection according to DIN EN 1092-1/-2
 - Top flange according to DIN EN ISO 5211

ALL GOOD THINGS COME IN 3S

The first soft-sealing butterfly valve
with 3 optimised disc designs means
less turbulent flow.



ZESA®/GESA® NEXTG3N APPLICATIONS

- Air conditioning and cold water applications,
e.g. in data centres
- Heating systems
- Drinking water systems
- Compressed air systems
- Swimming pool systems
- Solar thermal power plants
- Biogas plants
- Seawater applications
- Various industrial applications



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PRODUCT OVERVIEW

ZESA®/GESA® SINGLE SHAFT

DN 20 TO DN 50 – SINGLE SHAFT DESIGN

- Lower friction and pressure losses for optimised Kvs values.
- Optimised disc design means less turbulence and a shorter outlet section – just 2 x DN – downstream of the valve.
- Less turbulence also has the advantage of less noise and vibration in the system.
- Less dirt deposits.



ZESA®/GESA® CURVED

DN 65 TO DN 200 – INNOVATIVE CURVED DESIGN

- Lower friction and pressure losses for optimised Kvs values.
- Optimised disc design means less turbulence and a shorter outlet section – just 2 x DN – downstream of the valve.
- Less turbulence also has the advantage of less noise and vibration in the system.
- Less dirt deposits.
- The curved design is protected by a utility model and as such is unique worldwide.
- The curved design results in increased stiffness and adds stability to the entire shaft-and-disc structure.



ZESA®/GESA® HEXO

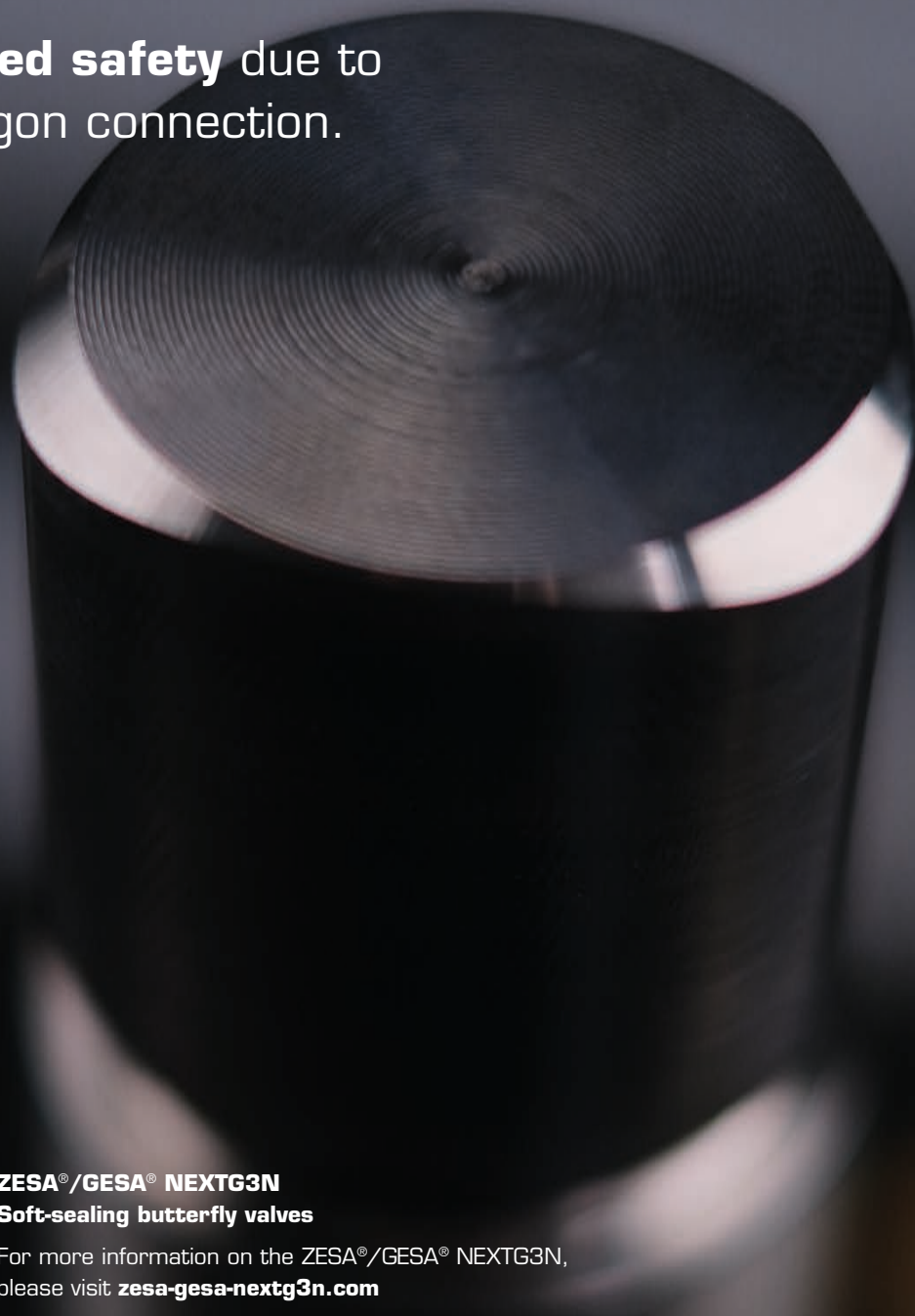
DN 250 TO DN 600 – INNOVATIVE HEXO HONEYCOMB DISC DESIGN

- The HEXO honeycomb disc design is protected by a utility model and as such is unique worldwide.
- Lower friction and pressure losses for optimised Kvs values.
- Optimised disc contour means less turbulence and a shorter outlet section – just 2 x DN – downstream of the valve.
- Less turbulence also has the advantage of less noise and vibration in the system.
- Less dirt deposits.
- Weight advantage of the new disc design simplifies handling in the system.
- The HEXO design results in increased stiffness and adds stability to the entire shaft-and-disc structure.



POLYGONAL SHAFT-DISC CONNECTION

Optimised safety due to
the polygon connection.



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Soft-sealing butterfly valves

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INNOVATIVE & FORM-FITTING

The polygonal shaft-disc connection for optimum torque transmission.

NEW!

With form-fitting, polygonal shaft-disc connection

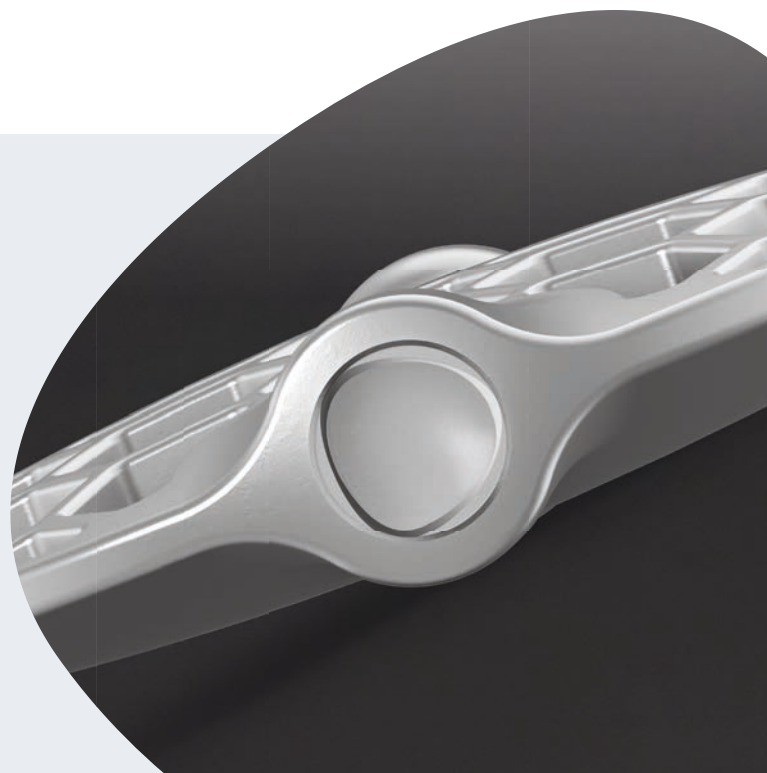


The connection between the shaft and the disc is designed as a form-fitting polygon for optimum torque transmission. The disc and liner are simple to replace because the poly-

gon is self-centring and no additional fixing pin is required. A flat surface ensures the discharging of air when the shaft is inserted into the disc, for even easier installation.

BENEFITS FOR YOU

- New polygonal connection guarantees maximum reliability.
- Designed as a form-fitting polygon for optimum torque transmission.
- Design rules out any notching effect.
- Easy servicing because the liner and disc are simple to replace.



ARI WIDE PRODUCT RANGE



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® / TEMPTROL®

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
STOBU®

Safety



Safety valves (DIN)
SAFE



Safety valves
SAFE TCP



Safety valves (API 526)
REYCO® R



Safety valves (ANSI)
REYCO® RL

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)

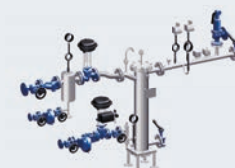


Mechanical pump systems
CONLIFT®, CONA® P

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