A HIGH-PERFORMANCE HYGIENIC DESIGN

The DPX3 line of butterfly valves benefits from a high-performance hygienic design thanks to its component geometry without a retention zone, combined with new-generation seals.

**NEW GENERATION DPX3 BUTTERFLY VALVE**

**EHEDG CERTIFIED SOLUTION**
EHEDG certified valve and seal

**NEW CERTIFIED SEAL**

<table>
<thead>
<tr>
<th>EPDM</th>
<th>FKM</th>
<th>HNBR</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
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</tbody>
</table>

**SIMPLIFIED IDENTIFICATION**
- Seal marking:
  
  DEFINOX - DN - DPX3 - production date and seal reference

**OPERATING DEVICES**
- Manual version: full stainless-steel handle, customizable sleeve
- Other versions: micrometric: with detection - lockable - multiposition handle
- Automatic version: pneumatic actuator ready to transform into NO: Normally Open - NC: Normally Closed or Double Acting

**CONNECTION OPTIONS**
- Liner part + nut
- Threaded part
- Solid machined clamp according to DIN standard 11851 or DIN aseptic 11864
- Norms for tube DIN DIN11850 Serie 2
- US ASME BPE 2009
- SMS EN10357 Serie D

**NEW GENERATION DPX3 BOUTTERFLY VALVE**
INTERCHANGEABLE SEAL
IMPROVED RESISTANCE 
AND PERFORMANCE
EXCELLENT SERVICE LIFE
EASIER MAINTENANCE

**INNOVATION**
NEW-GENERATION SEAL
- Seal life improved: optimizing actuating torque
- Tightness under pressure to 18 bar depending on diameter

**EASIER MAINTENANCE**
- Interchangeable seals (for valves produced after 2009)
- Seal maintenance made easier by chamfered external profile

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**Elastomer resistance**

<table>
<thead>
<tr>
<th>FKM (provided by) DEFINOX</th>
<th>COMPARISON TO FKM AND FFKM AVAILABLE ON THE MARKET</th>
</tr>
</thead>
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**Resistance to elastomers** EPDM and HNBR

**Fat**

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**Simulation of mechanical constraints to optimize seal performance**

**Butterfly valve NM-039**

**Components dimensions**

<table>
<thead>
<tr>
<th>NDT-145</th>
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</thead>
</table>
EXEMPLARY OPERATING PERFORMANCE

3 SEAL TYPES to cover any need in the food, pharmaceutical or cosmetic industry.

DFX3 seals have an excellent service life. The quality of the latest generation elastomers improve their chemical resistance.

The body (fluid) now can support thermal distortion stresses associated with welds.

The seal profile is designed to support distortion stresses on the full temperature range.

EPDM

Excellent resistance to oils, fats and chemical products (concentrated acids, bases and peroxides). Good resistance to high temperatures.

FKM

Excellent resistance to oils, fats and chemical products (concentrated acids, bases and peroxides). Good resistance to high temperatures.

HNBR

Good resistance to oils and fats. Average resistance to CIP/SIP.

EVALUATION

INTEGRATION PERFORMANCES

GOOD OPERATING PERFORMANCES

EXCELLENT OPERATING PERFORMANCES

TEMPERATURE

GREAT MAX. PRESSURE

LOW MAX. PRESSURE

CIP / SIP up to 140°C up to 160°C up to 125°C

MAX.press.

7 bar 4.5 bar

Max. continuous temperature

140°C 120°C 150°C 130°C 125°C 100°C

Max. temperature flash (15-20 min)

160°C - 170°C - 145°C - 120°C - 105°C

* for a water flow based on a speed of 2 m/s

CHARACTERISTICS / RESISTANCE

Essential oils and concentrated perfumes

Max. temperature (°C)

-30°C -10°C 0°C 1°C -30°C -10°C

Min. temperature (°C)

Vacuum resistance (static only)

Low temperatures

0.66 x p(bar) Nl

Air consumption DN100/150

0.33 x p(bar) Nl

Air consumption DN25/80

Operating time DN100/150

3 sec

Operating time DN25/80

6 sec

SERVICE CONDITIONS

MAX. PRESSURE

PREVIOUS HALF-BODY VERSIONS (BEFORE 2016)

HALF-BODY, DISCS AND BUTTERFLY SEALS

COMPONENT

DIMENSIONS

REFERENCES

DN DIMENSIONS REFERENCES DIMENSIONS REFERENCES DIMENSIONS REFERENCES

SMS DIN US Ø A Ø B Ø C D E HALF-BODY Ø F G Ø H Ø I FKM EPDM HNBR Ø J DISC

PREVIOUS HALF-BODY VERSIONS (BEFORE 2016)
THE DEFINOX APPLICATION
FOR AUGMENTED REALITY

DEFINOX is revolutionizing valve maintenance and monitoring.

• Easier identification of valves and spare parts
• Saves time on valve fleet management
• Safe maintenance with tutorials
• Immediate access to all information
• Reduced risk of error

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• SCAN the Definox ID on the valve
• ACCESS all the useful information
• IDENTIFY, verify, manage, memorize and more