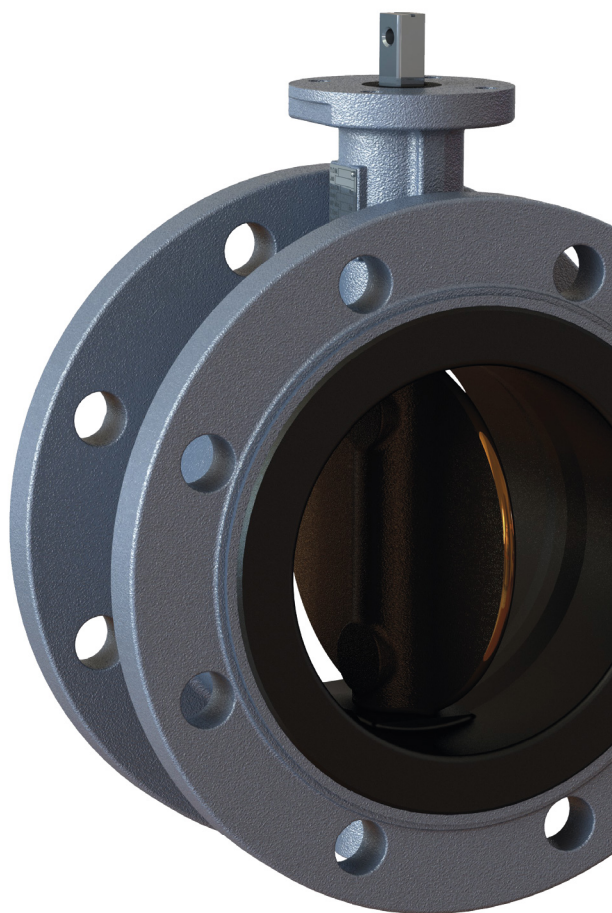




The way to a perfect fit





The way to a perfect fit

It all began in 2004 when the first butterfly valve rolled off the production line. This was also the time when the management set the company's code of professional ethics and, together with the dynamic production team, began its drive to make the name ALFA Valves Europe synonymous with bonded liner concentric butterfly valves extended later on with high performance eccentric butterfly valves.

It is no wonder that in such a relatively short period the company has become a household of name in industries that use butterfly valves. It all comes down to basics. From the very beginning, the rules were set, total dedication to the industry, the very best service, unsurpassed quality and a close eye on the latest technological developments.

The dynamic workforce at ALFA Valves Europe designs standard and custom-made valves, manufactures them to international standards, tests and certifies them and dispatches them all over the world. On the manufacturing side, ALFA Valves Europe offer an extensive range of standard-size butterfly valves in any configuration and suited to any industry. Yet what we at ALFA Valves Europe pride ourselves on most is our own valve design and the custom designs we produce to client specifications, materials and certification, including actuating devices ranging from mechanical to remote control.





DESIGN / BONDED LINER CONCEPT

With our manufacturing - casting and vulcanisation experience Alfa Valves has created a full line of concentric highly reliable and efficient butterfly valves. All our valve liners are vulcanised with a bonded liner to reduce maintenance and to give with a high flow performance.

The Alfa Valves bonded liner butterfly valves a traditional way of construction with many years of experience in a variety of applications a 100% tight shut-off between disc and liner on all sizes due to precision machining of internal parts (Disc, Bronze bearings bushes and Shaft) and transfer moulding vulcanisation process with prevision tooling.

Due to accurate and repeatable liner dimensions in combination with the precision machined internal parts this bonded liner valve is very reliable and provides constant low torque and tight shut-off during many years of operation.

The Alfa Valves butterfly valves have a 100% tight shut-off on top and bottom shaft seal due to primary and secondary stem seal within the precision bonded liner. We do not use the traditional o-ring construction on the drive shaft, which could weaken the shaft.

The bonded liner creates a 100% tight-off on the process connections due to extended rubber lining beyond the flanges facing, no flange gasket required.

The bonded liner concept will create a corrosion proof design, complete elimination between body and liner. Bonded liner fully covers the valve body internally.

Due to the vulcanisation process all Alfa Valves valve bodies are extremely strong and are vulcanised at ± 150 Bar and can be used as fully pressure rated dead-end service valves for Wafer S 57, MONO S 60 and S 61, Double flange S 46 and LUG S 64.

All our valves are suitable for vacuum (negative pressure) services and high fluid velocity applications. (Liner cannot be sucked into the pipeline).

Alfa Valves Bonded liner concept ensures that the liner cannot move around as a result of which;

- No tearing and distortion of the liner
- Very low wear of the seat
- Reliable low torque figures
- Exceptionally long seat life up to 3 x longer than replaceable liner valves
- Permanent dry lubrication free design due to stainless steel stem and bronze bearings
- Uniform sealing, bi-directional flow
- Low torque due to one shaft design



RING TYPE SERIES S57 BONDED LINER

DN 40 up to DN 1200
 Flange connection: DIN 2501 PN 6-10-16
 (PN25 up to DN 400)
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 160 degrees C
 Short face to face acc. EN 558 row 20
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute

FLANGE TYPE SERIES S46 BONDED LINER

DN 40 up to DN 1200
 Flange connection: DIN 2501 PN 6-10-16
 (PN25 up to DN 400)
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 160 degrees C
 Short face to face acc. EN 558 row 13
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute

TAPPED LUG TYPE SERIES S64 BONDED LINER

DN 40 up to DN 1200
 Flange connection: DIN 2501 PN 6-10-16
 (PN25 up to DN 400)
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 160 degrees C
 Short face to face acc. EN 558 row 20
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute

SINGLE FLANGED WAFER TYPE SERIES S60 BONDED LINER

DN 50 up to 400
 Flange connection: DIN 2501 PN 6-10-16-25
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 160 degrees C
 Short face to face acc. EN 558 row 20
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute

SINGLE FLANGED WAFER TYPE SERIES S61 BONDED LINER

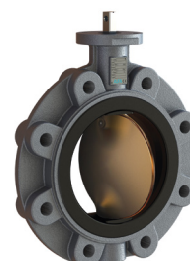
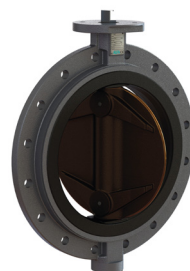
DN 50 up to 400
 Flange connection: DIN 2501 PN 6-10-16-25
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 160 degrees C
 Short face to face acc. EN 558 row 16
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute

FLANGE TYPE SERIES S58 BONDED LINER

2 SHAFT SYSTEM
 DN 40 up to DN 300
 Flange connection: DIN 2501 PN 6-10-16
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 200 degrees C
 Short face to face acc. EN 558.1 row 20
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute

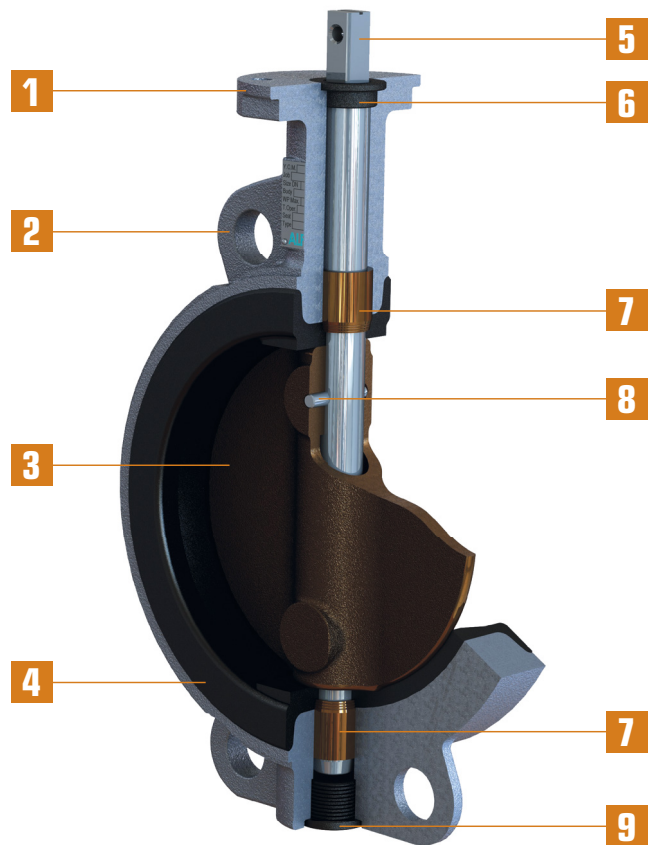
TAPPED TYPE SERIES S65 BONDED LINER

2 SHAFT SYSTEM
 DN 40 up to DN 300
 Flange connection: DIN 2501 PN 6-10-16
 ANSI B 16.5, Class 150
 JIS B 2211-5K and 10K
 Temperature range -10 to + 200 degrees C
 Short face to face acc. EN 558.1 row 20
 Top flange acc. EN ISO 5211
 Vacuum to 0,2 bar absolute



DESIGN FEATURES

Alfa Valves supplies a full range of butterfly valves, compact in design and streamlined disc design a high Kv/Cv values, low pressure loss and energy cost. The vulcanised bonded liner for longer lifetime, no corrosion between body and liner. Because of the limited number of parts our valves are maintenance friendly and easy in use.



TECHNICAL INFORMATION

1. Topflange

Actuation Flange according ISO 5211

2. Valve body

3. Disc

Streamlined centric disc to reduce pressure loss and lower energy costs available in several materials

4. Liner

Vulcanised Lining bonded to the Body, no corrosion between valve body and liner for:

- Suitable for dry conditions
- Longer life time
- For end of line service
- Low torque
- No flange gaskets required

Available in several materials

5. Shaft

Centric One piece shaft system, 100% bi-directional tight shut off

6. Support bearing

Extra support bearing for lower valve torque

7. Bearing bush

Bronze bearing bush vulcanised to the liner.
No use of o-rings on the shaft

8. Pin

Cylindrical pin

9. Stop plug

To seal bottom side of the valve and to guide stem/shaft



HIGH PERFORMANCE

S96 HIGH PERFORMANCE BUTTERFLY VALVE

Wafer type, suitable for flanges DIN PN10/PN16 & ANSI 150#
 Design standard EN 593 / API 609
 Face to face acc. EN 558.1 row 20
 Pressure class. PN10, PN16, PN20, ANSI 150#
 Size DN50 – DN400
 Materials Cast steel, Stainless steel, and other exotic materials
 Seats PTFE (-20~180 °C), RPTFE/SS(-40~230 °C),
 metal seated(-40~450 °C)
 Fire safe according API 607 5th certified

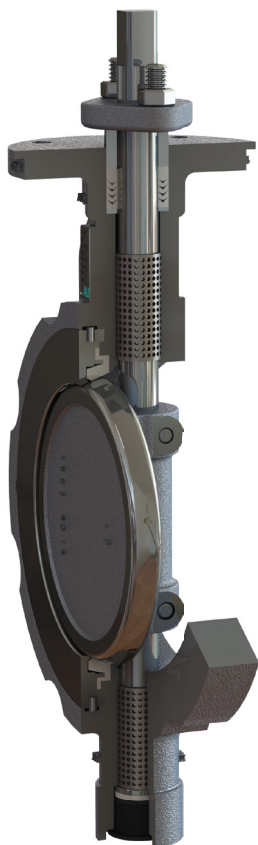
S97 HIGH PERFORMANCE BUTTERFLY VALVE

LUG type, flanges JIS, DIN PN10/PN16 & ANSI 150#
 Design standard EN 593 / API 609
 Face to face acc. EN 558.1 row 20
 Pressure class. PN10, PN16, PN20, ANSI 150#
 Size DN50 – DN400
 Materials Cast steel, Stainless steel, and other exotic materials
 Seats PTFE (-20~180 °C), RPTFE/SS(-40~230 °C),
 metal seated(-40~450 °C)
 Fire safe according API 607 5th certified

S98 HIGH PERFORMANCE BUTTERFLY VALVE

Double flanged type, flanges JIS, DIN PN10/PN16 & ANSI 150#
 Design standard EN 593 / API 609
 Face to face acc. EN 558.1 row 13
 Pressure class. PN10, PN16, PN20, ANSI 150#
 Size DN50 – DN400
 Materials Cast steel, Stainless steel, and other exotic materials
 Seats PTFE (-20~180 °C), RPTFE/SS(-40~230 °C),
 metal seated(-40~450 °C)
 Fire safe according API 607 5th certified





VALVE SIZE

From DN 50 (2") up to DN 400 (16")
Larger sizes on request

END CONNECTION

Wafer
Lug
Double Flange

FLANGES

JIS B 2211-5K and BB 2212-10K
ANSI B 16.5 - Class 150 and 300
DIN 2501 PN-10 and 16

FACE TO FACE

EN 558-1
ISO 5752
API 609 A
BS 5155

TOPFLANGE

ISO 5211

TIGHTNESS

PTFE-R Seat - DIN 3230-B0 (Rate 1)
Inconel Seat - DIN 3230-BN (Rate 1)

DIFFERENTIAL PRESSURE

DN 50 until DN 400 max. 25 bar

VACUUM

0 bar absolute

TEMPERATURE

From -50°C up to +450 °C

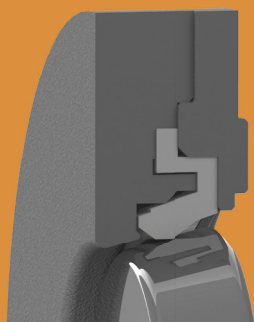
MAX W.P

PN10 / PN16 and Class 150 / PN 20
JIS 10K / 16K

MAX FLUID VELOCITY AT MAX W.P

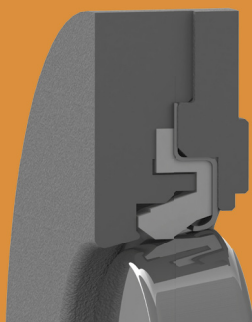
4 m/s for liquids
50 m/s for clean gases

PRACTICAL INFORMATION



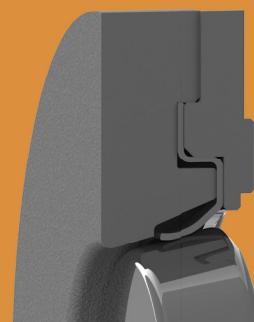
SOFT SEAT

Elasticity of the PTFE or PTFE(R) seat and fluid pressure assures perfect "bubble tight" sealing.



FIRE SAFE SEAT

After a fire when the PTFE seat has burned away, the supplementary metal sealing seat activates automatically and prevent from excessive flop.



METAL SEAT

This version offers very high sealing capability with an unusually low leakage rate.

QUALITY ASSURANCE

1. Quality assurance system

Alfa butterfly valves are designed and manufactured in accordance with ISO 9001/EN 29001 and module H of the European legislation for Pressure Equipment

2. Type approvals

Alfa butterfly valves are approved for application in a number of market areas by international classifications societies. The most important ones are listed in the following table.

| MARKET AREA | TYPE APPROVALS |
|---|--|
| Water supply | WRAS KIWA |
| Ship building | Lloyds RS Det Norske Veritas Bureau Veritas China Classification Society American Bureau of Shipping |
| Fire protection systems | TUV |
| General approval confirming for standard compliance | EN 593 API609 |

3. Product certificate

| MARKET AREA | PRODUCT CERTIFICATE |
|---------------|---|
| Ship building | NKK RINA Lloyds RS Bureau Veritas Korean Register Germanischer Lloyd Russian Maritime Register China Classification Society American Bureau of Shipping |

4. Material inspection certificates

Valve parts, eg body, disc, can be supplied on request with inspection certificates of the material supplier (foundry, forge) according EN 10204, 3.1.B. subject to material type. Other specifications are possible.

5. Testing inspection certificates

All valves are pressure and functional tested after assembly according to internal quality procedures which comply with international standards. Inspection certificates according EN 10204, 3.1.B, 3.1.C can be submitted on request.



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