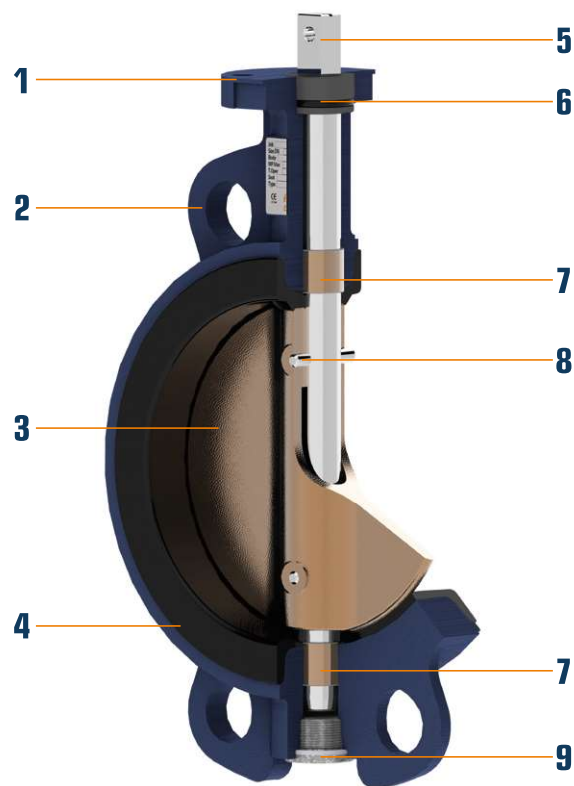


TECHNICAL INFORMATION

DESIGN FEATURES

Alfa Europe 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.



1. Topflange

Actuation Flange according ISO 5211

2. Valvebody

Minimum GGG40 body

Available in several materials

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

S.S. PAP bearing bush vulcanised to the liner.

No use of o-rings on the shaft

8. Pin

Conical pin

9. Stop plug

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

MATERIALS

BODY MATERIALS (internally body is fully rubberlined and protected against corrosion)

Ductile Iron	GGG40, DIN 1691 60-40-18, ASTM A536 400-18, BS 1452
Carbon Steel	ASTM A216, GS-C 25, BS 1504
Stainless Steel	1.4408, A351-CF8M
Aluminium Bronze	BS1400, ASTM B148 AB2, G-CuAl10Ni
Bronze Casting	C-CuSn10Zn, DIN 1705 (RG10), ASTM B584 LG1

DISC

Ductile Iron 300 µm Rilsan coated	EN 1563 EN-GJS-400-15
Aluminium Bronze	BS1400, ASTM B148 AB2, G-CuAl10Ni
Stainless Steel (316)	ASTM A743, 1.4408, A351-CF8M
Duplex	ASTM A276, 1.4462,
Monel (K400)	ASTM A494 M35
Other materials on request	

SHAFT

Stainless Steel	S.S.431
Duplex stainless steel	1.4462, SAF 2205
Monel(K500)	BS3076, NA18
Aluminium Bronze	ASTM B150, DIN17665
Other materials on request	

LINERS

NBR	Temp. 0 to 80°C
EPDM	Temp -30 to 110°C
FPM (B)	Temp 0 to 200°C
Other liner materials on request	

PINS

Monel (K500)	BS3076, NA18
Stainless Steel	1.4462
Aluminium Bronze	C63000

MATERIAL SELECTION

ELASTOMER TYPES

- BUNA-N
- EPDM
- HYPALON
- SILICONE
- VITON

	GGG40	Al-Br	AISI-316	Buna-N	EPDM	Hypalon	Silicone	Viton
Acetone	●	●	●	●	●	●	●	●
Acetylene	●	●	●	●	●	●	●	●
Acetic acid	●	●	●	●	●	●	●	●
Boric acid	●	●	●	●	●	●	●	●
Butyric acid	●	●	●	●	●	●	●	●
Carbonic acid	●	●	●	●	●	●	●	●
Chromic acid	●	●	●	●	●	●	●	●
Formic acid	●	●	●	●	●	●	●	●
Hydrochloric acid	●	●	●	●	●	●	●	●
Maleic acid	●	●	●	●	●	●	●	●
Nitric acid	●	●	●	●	●	●	●	●
Oleic acid	●	●	●	●	●	●	●	●
Phosphoric acid	●	●	●	●	●	●	●	●
Salicylic acid	●	●	●	●	●	●	●	●
Sulphuric acid	●	●	●	●	●	●	●	●
Tartaric acid	●	●	●	●	●	●	●	●
Air	●	●	●	●	●	●	●	●
Ethyl alcohol	●	●	●	●	●	●	●	●
Methyl alcohol	●	●	●	●	●	●	●	●
Aniline	●	●	●	●	●	●	●	●
Liquid asphalt	●	●	●	●	●	●	●	●
Benzol	●	●	●	●	●	●	●	●
Potassium Bichromate	●	●	●	●	●	●	●	●
Potassium Biphosphate	●	●	●	●	●	●	●	●
Borax	●	●	●	●	●	●	●	●
Potassium bromide	●	●	●	●	●	●	●	●
Butane	●	●	●	●	●	●	●	●
Calcium carbonate	●	●	●	●	●	●	●	●
Potassium carbonate	●	●	●	●	●	●	●	●
Sodium carbonate	●	●	●	●	●	●	●	●
Potassium chlorate	●	●	●	●	●	●	●	●
Barium chloride	●	●	●	●	●	●	●	●
Calcium chloride	●	●	●	●	●	●	●	●
Ferric chloride	●	●	●	●	●	●	●	●
Magnesium chloride	●	●	●	●	●	●	●	●
Mercury chloride	●	●	●	●	●	●	●	●
Potassium chloride	●	●	●	●	●	●	●	●
Sodium chloride	●	●	●	●	●	●	●	●
Zinc chloride	●	●	●	●	●	●	●	●
Chlorine	●	●	●	●	●	●	●	●
Chlorobenzene	●	●	●	●	●	●	●	●
Chloroform	●	●	●	●	●	●	●	●
Potassium cyanide	●	●	●	●	●	●	●	●
Acetic anhydride	●	●	●	●	●	●	●	●
Carbon dioxide	●	●	●	●	●	●	●	●
Sulphur dioxide	●	●	●	●	●	●	●	●
Ether	●	●	●	●	●	●	●	●
Sodium fluoride	●	●	●	●	●	●	●	●

● - excellent ● - good ● - middeling ● - not to be used

DISC

- Ductile Iron
- Aluminium Bronze
- Stainless steel AISI 316
- GGG-40
- Al.Br
- AISI 316

	GGG40	Al-Br	AISI-316	Buna-N	EPDM	Hypalon	Silicone	Viton
Formaldehyde	●	●	●	●	●	●	●	●
Furfural	●	●	●	●	●	●	●	●
Gasoline	●	●	●	●	●	●	●	●
Glucose	●	●	●	●	●	●	●	●
Glycerol	●	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	●	●	●
Heptane	●	●	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●	●	●
Barium Hydroxide	●	●	●	●	●	●	●	●
Calcium Hydroxide	●	●	●	●	●	●	●	●
Sodium Hydroxide	●	●	●	●	●	●	●	●
Sodium Hypochlorite	●	●	●	●	●	●	●	●
Kerosene	●	●	●	●	●	●	●	●
Juices	●	●	●	●	●	●	●	●
Methane	●	●	●	●	●	●	●	●
Milk	●	●	●	●	●	●	●	●
Naphta	●	●	●	●	●	●	●	●
Naphtalene	●	●	●	●	●	●	●	●
Ammonium nitrate	●	●	●	●	●	●	●	●
Silver nitrate	●	●	●	●	●	●	●	●
Animal oil	●	●	●	●	●	●	●	●
Diathermic oil	●	●	●	●	●	●	●	●
Emulsifiable oil	●	●	●	●	●	●	●	●
Lubricating oil	●	●	●	●	●	●	●	●
Mineral oil	●	●	●	●	●	●	●	●
Vegetable oil	●	●	●	●	●	●	●	●
Oxygen	●	●	●	●	●	●	●	●
Sodium perborate	●	●	●	●	●	●	●	●
Hydrogen peroxide	●	●	●	●	●	●	●	●
Petroleum	●	●	●	●	●	●	●	●
Ammonic phosphate	●	●	●	●	●	●	●	●
Sodium phosphate	●	●	●	●	●	●	●	●
Pickling sol	●	●	●	●	●	●	●	●
Propane	●	●	●	●	●	●	●	●
Solvent	●	●	●	●	●	●	●	●
Ammonic sulfate	●	●	●	●	●	●	●	●
Barium sulfate	●	●	●	●	●	●	●	●
Ferric sulfate	●	●	●	●	●	●	●	●
Zinc sulfate	●	●	●	●	●	●	●	●
Potassium sulphide	●	●	●	●	●	●	●	●
Sodium sulphide	●	●	●	●	●	●	●	●
Steam	●	●	●	●	●	●	●	●
Sulphur	●	●	●	●	●	●	●	●
Tetraethyl lead	●	●	●	●	●	●	●	●
Turpentine	●	●	●	●	●	●	●	●
Urea	●	●	●	●	●	●	●	●
Sea Water	●	●	●	●	●	●	●	●
Soft Water	●	●	●	●	●	●	●	●

