



VALVE SOLUTIONS
FOR WATER TREATMENT PLANT
AND DESALINATION PLANTS





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AVK OPTIMAL VALVE SOLUTIONS

AVK DELIVERS ADVANCED VALVE SOLUTIONS BASED ON APPLICATION KNOWLEDGE AND UNDERSTANDING, COMPETENT LOCAL SUPPORT AND INTERNATIONAL COORDINATION.

BACKED UP BY THE LEADING COMPANIES AND MANUFACTURERS OF INDUSTRIAL VALVES, YOU CAN EXPECT HIGH AND CONSISTENT QUALITY AND SERVICE

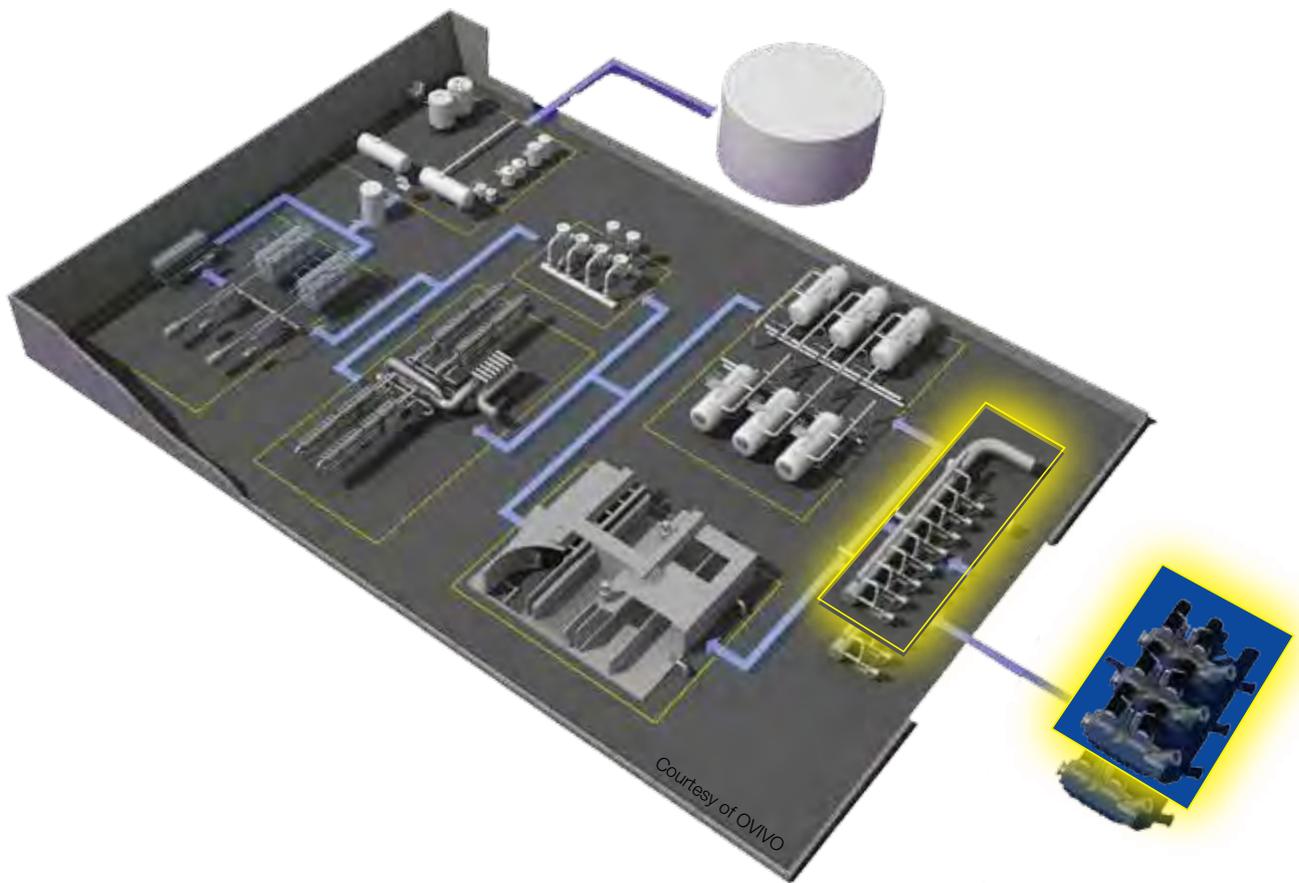
01 | EXPECT APPLICATION KNOWLEDGE AND UNDERSTANDING

02 | EXPECT COMPETENT LOCAL SUPPORT

03 | EXPECT INTERNATIONAL COORDINATION



AVK WATER TREATMENT PLANT



SEAWATER IN

						
Full bore ball valves						
Duo and tilted check valves						
Plastic ball valves						
Butterfly valves						



Full bore ball valves

Body and ball in stainless steel. Seats in PTFE. Manually pneumatically or electrically operated.

Specifications:

Size:
DN 10 - DN 100

Pressure:
Up to 63 bar

Temperature:
Up to +650°C



Check valves

Metal and rubber seated check valves

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C



VKDIV Plastic ball valve

Material PVC-U, PP, PVDF

Wafer/lug type:

Size:
DN10 – DN100

Pressure:
DN16

Temperature:
Up to +140°C



Triple eccentric butterfly valves

Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve, - Flanged, lug, wafer

Specifications:

Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 – 600



Fabricated tilting check valve

Carbon or stainless steel fabricated body and disc, metal or elastomer seat and optional hydraulic damper and counterweight.

Specifics:

Size:
Up to DN2000

Pressure:
Up to 16 Bar

Temperature:
Ambient



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard

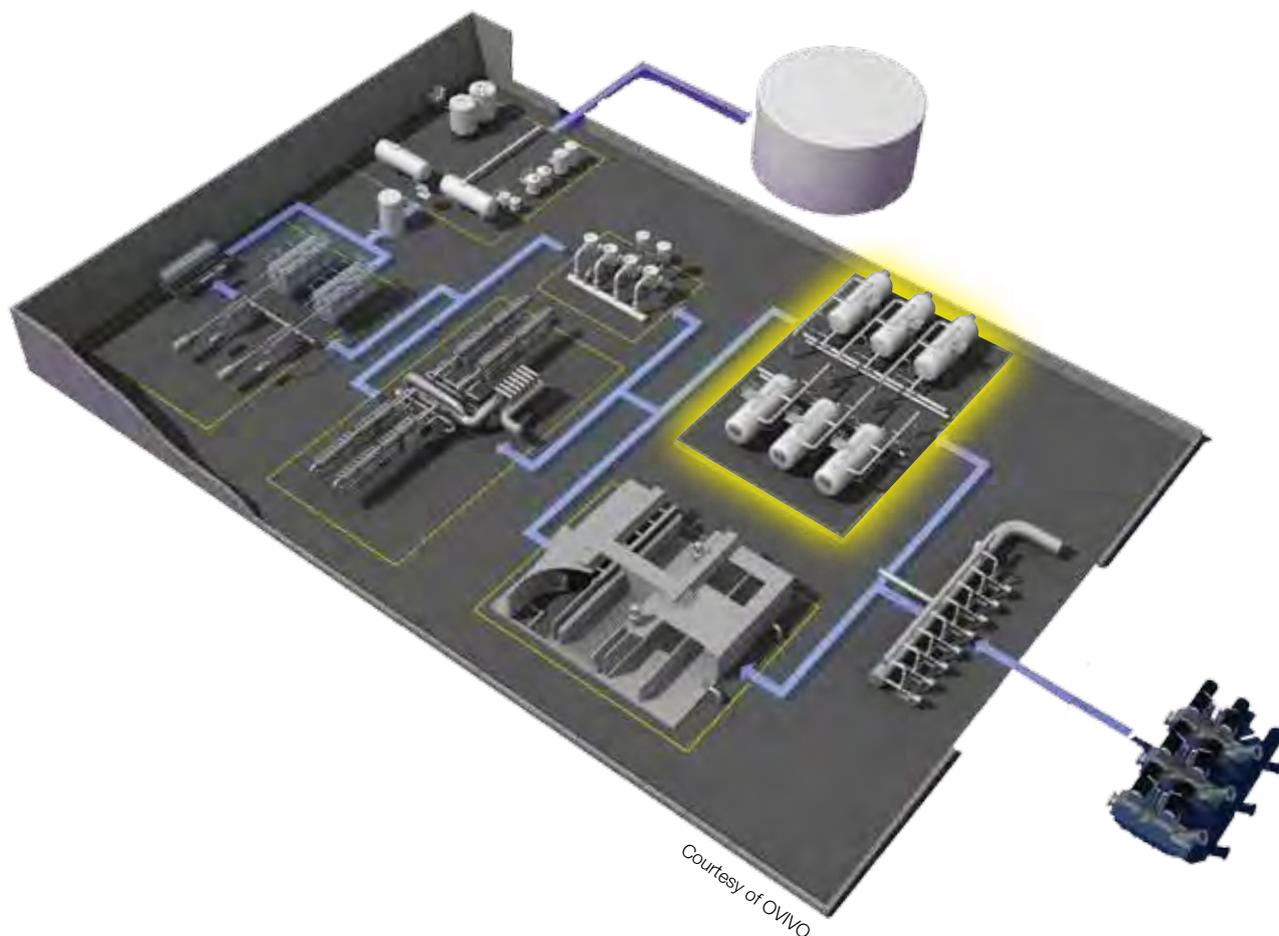
Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C

DESALINATION PLANTS



DUAL MEDIA FILTERS

						
Full bore ball valves						
Duo check valves						
Plastic ball valves						
Butterfly valves						



Full bore ball valves

Body and ball in stainless steel. Seats in PTFE. Manually pneumatically or electrically operated.



Check valves

Metal and rubber seated check valves



VKDIV Plastic ball valve

Material PVC-U, PP, PVDF



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

Specifications:

Size:
DN 10 - DN 100

Pressure:
Up to 63 bar

Temperature:
Up to +650°C

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C

Specifications:

Size:
DN10 – DN100

Pressure:
PN16

Temperature:
Up to +140°C

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard

Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C



Triple eccentric butterfly valves

Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve, - Flanged, lug, wafer

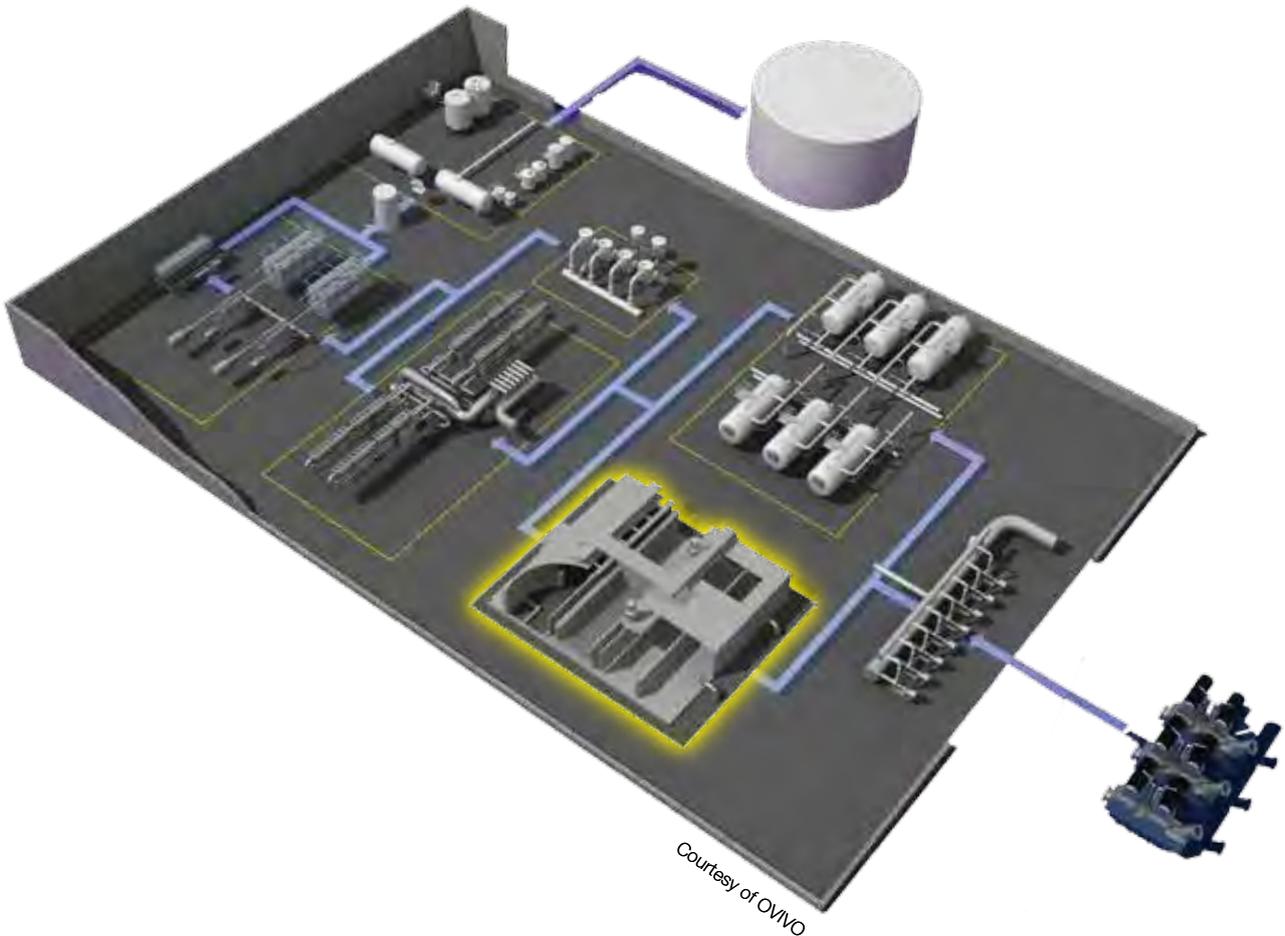
Specifications:

Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 – 600



DESALINATION PLANTS



FLOCCULATION AND DISSOLVED AIR FLOWTATION

						
Duo check valves						
Penstocks						
Butterfly valves						



Check valves

Metal and rubber seated check valves



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard



Triple eccentric butterfly valves

Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve, - Flanged, lug, wafer

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C

Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C

Specifications:

Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 – 600



Wall mounted penstock

Four-side sealing. Stainless steel frame and gate, EPDM seals, HMWPE guides and various actuation solutions (manual, pneumatic, electric, etc.)



Channel penstock

Three-side sealing. Stainless steel full frame and gate, EPDM seals, HMWPE guides and various actuation solutions (manual, pneumatic, electric, etc.)



Weir penstock

Three- or four-side sealing downward opening. Stainless steel frame and gate, EPDM seals and HMWPE guides, bidirectional and with various actuation solutions (manual, pneumatic, electric, etc.)

Specifications:

Size:
Up to 3000 x 3000 mm

Pressure:
1 Bar On / 0,6 Bar Off

Temperature:
0 to +70°C

Specifications:

Size:
Up to 3000 x 3000 mm

Pressure:
Gate height

Temperature:
0 to +70°C

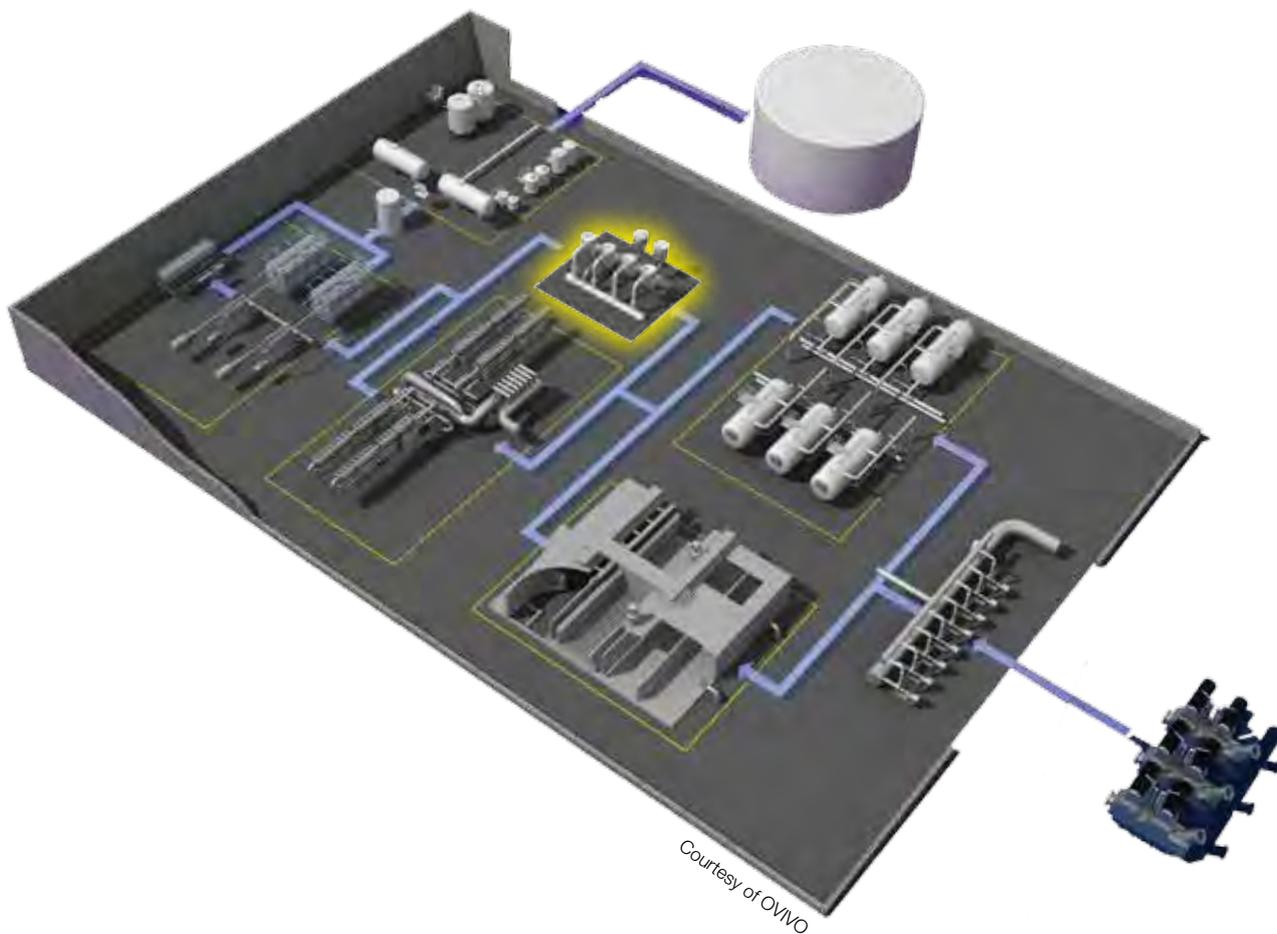
Specifications:

Size:
Up to 3000 x 3000 mm

Pressure:
Gate height

Temperature:
0 to +70°C

DESALINATION PLANTS



CARTRIDGE FILTER

						
Duo check valves						
Butterfly valves						



Check valves

Metal and rubber seated check valves

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C



Eurovalve check valve

Flangeless wafer type.
EN 1092 PN6 and 16
ASME B16.5 cl. 150
MMS SP 44 cl. 150
Face to face: EN558-1/2 Series 16
Seat bonded to the body

Specifications:

Size:
DN 50 – 600

Pressure:
Up to 16 Bar

Temperature:
-40 to +200°C



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard

Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C



Triple eccentric butterfly valves

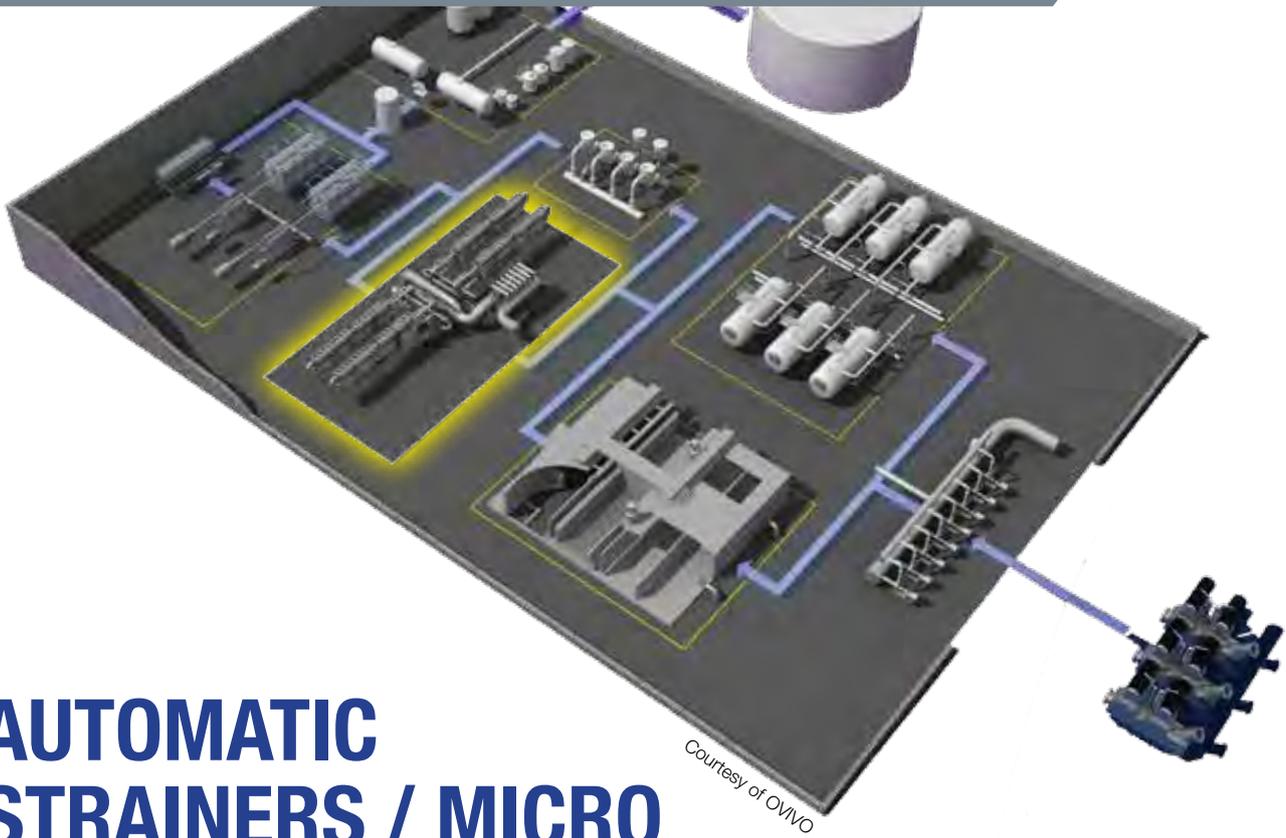
Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve,
- Flanged, lug, wafer

Specifications:

Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 – 600





AUTOMATIC STRAINERS / MICRO & ULTRA FILTRATION / MF & UF CLEANING AND TESTING FACILITIES

						
Full bore ball valves						
Duo check valves						
High performance butterfly valves						
Plastic ball valves						
Butterfly valves						



Full bore ball valves

Body and ball in stainless steel. Seats in PTFE. Manually pneumatically or electrically operated.

Specifications:

Size:
DN15 – DN100

Pressure:
Up to 63 Bar

Temperature:
Up to +650°C



Check valves

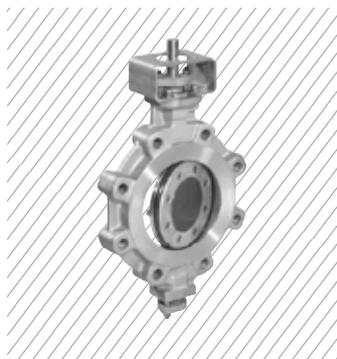
Metal and rubber seated check valves

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C



High performance butterfly valves

Double eccentric design. Available in many high-quality materials. Available as wafer, lugged and double flanged type.

Specifications:

Size:
DN50 – DN900

Pressure:
20 Bar (class 150)
50 Bar (class 300)

Temperature:
Up to +425°C



VKDIV Plastic ball valve

Material PVC-U, PP, PVDF

Specifications:

Size:
DN10 – DN100

Pressure:
PN16

Temperature:
Up to +140°C



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard

Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C



Triple eccentric butterfly valves

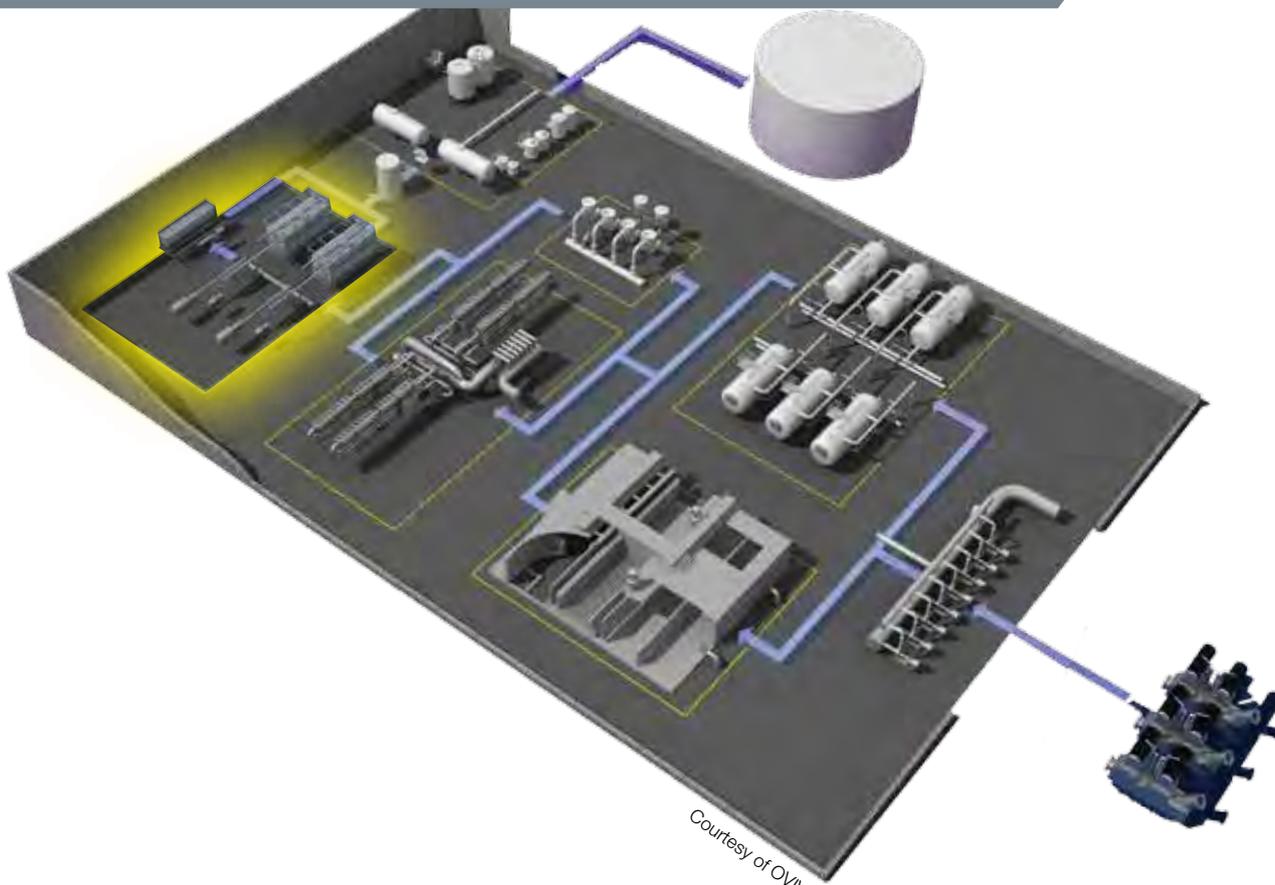
Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve, - Flanged, lug, wafer

Specifications:

Size:
DN40 to DN2000

Pressure:
PN 6 - PN 64, Class 150 – 600

DESALINATION PLANTS



Courtesy of OVIVO

REVERSED OSMOSIS

						
Check valves						
Full bore ball valves						
High performance butterfly valves						
Plastic ball valves						
Globe valves						
Butterfly valves metal discs / Halar discs						



Full bore ball valves

Body and ball in stainless steel. Seats in PTFE. Manually pneumatically or electrically operated.

Specifications:

Size:
DN 10 - DN 100

Pressure:
Up to 63 bar

Temperature:
Up to +650°C



Check valves

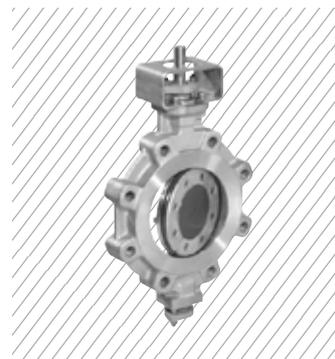
Metal and rubber seated check valves

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C



High performance butterfly valves

Double eccentric design. Available in many high-quality materials. Available as wafer, lugged and double flanged type.

Specifications:

Size:
DN50 – DN900

Pressure:
20 Bar (class 150)
50 Bar (class 300)

Temperature:
Up to +425°C



VKDIV Plastic ball valve

Material PVC-U, PP, PVDF

Specifications:

Size:
DN10 – DN100

Pressure:
PN16

Temperature:
Up to +140°C



2/2 Way Angle Seat Valves

2/2-way angle seat valve body and a pneumatically operated piston actuator. Suitable for shut off, dosing, control and regulating liquid or gaseous media.

Specifications:

Size:
DN8 – DN80

Pressure:
25 bar

Temperature:
-10 to +90°C



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard

Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C



Triple eccentric butterfly valves

Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve, - Flanged, lug, wafer

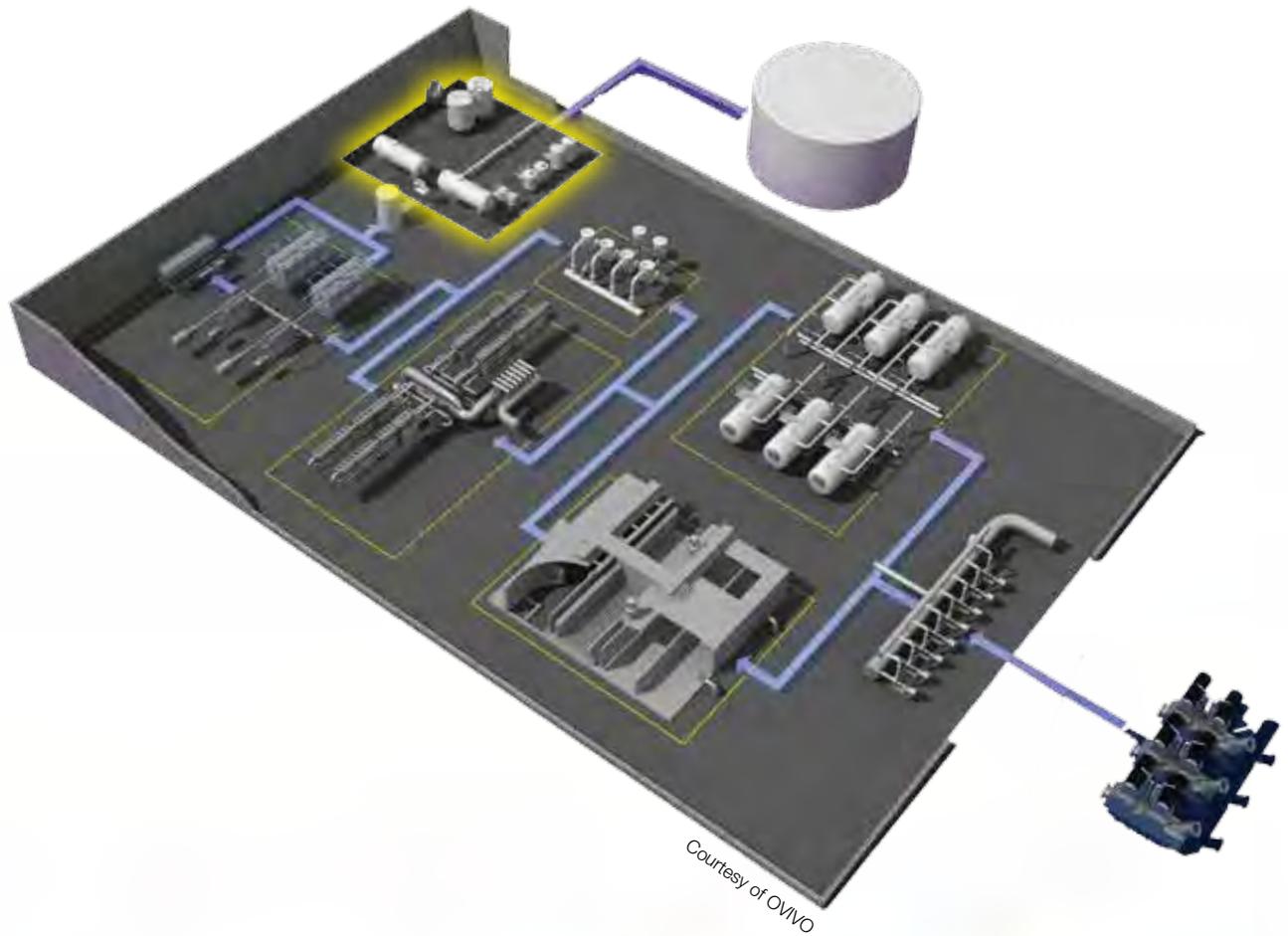
Specifications:

Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 – 600

CHEMICAL AREA

						
Plastic check and ball valves						
Handoperated plastic ball valves						
Handoperated plastic butterfly valves						
Plastic diaphragm valves						
Stainless steel angle seated globe valves						
Full bore ball valves						
Duo check valves						
Butterfly valves						



DESALINATION PLANTS



**VRUIV
Check Valve**

Angle seat check valve, with weighted PVC piston, that permits fluid to flow in one direction only.

Specifications:

Size:
DN10 – DN50

Pressure:
Up to 16 Bar

Temperature:
Up to +60°C



**SXEIV
Check Ball Valve**

Check ball valve that permits fluid to flow in one direct only.

Specifications:

Size:
DN65 – DN100

Pressure:
Up to 16 Bar

Temperature:
Up to +60°C



Wafer Check Valve

Swing check valve designed to be directly installed between stubs and flanges according to ISO/DIN. The valve is automatically held in central position by flange connection screws.

Specifications:

Size:
DN40 – DN300

Pressure:
Up to 5 Bar

Temperature:
Up to +60°C



**2/2 Way Angle
Seat Valves**

2/2-way angle seat valve body and a pneumatically operated piston actuator. Suitable for shut off, dosing, control and regulating liquid or gaseous media.

Specifications:

Size:
DN8 – DN80

Pressure:

Temperature:
-10 to +90°C



**Manual operated
plastic ball valve
3-way**

3-way dual block ball valve

Specifications:

Size:
DN15 – DN50

Pressure:
Up to 16 Bar

Temperature:



**Manual operated
plastic ball valve**

The valve, when closed, can be easily removed downstream from the pipe system with no fear of leakage.

Specifications:

Size:
DN15 – DN50

Pressure:
DN16

Temperature:



**Manual operated
plastic lever
butterfly valve**

Flange body and oval holes designed to fit with flanges in a variety of standards

Specifications:

Size:
DN40 – DN200

Pressure:
Up to 16 Bar

Temperature:



Plastic diaphragm valves

Diaphragm valve manually or pneumatic operated in various material combinations and connections

Specifications:

Size:
DN 15 - DN100

Pressure:
Up to 10 Bar

Temperature:
Up to +120°C



Full bore ball valves

Body and ball in stainless steel. Seats in PTFE. Manually pneumatically or electrically operated.

Specifications:

Size:
DN 10 - DN 100

Pressure:
Up to 63 bar

Temperature:
Up to +650°C



Check valves

Metal and rubber seated check valves

Specifications:

Size:
DN32 - DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type.

Wafer/lug type:

Size:
DN25 - DN1600 /
DN25 - DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

Full vacuum. High duty. Bonded to the body. trim of alubronze, duplex, superduplex or halar coated. Lining: EPDM, NBR and VITON.

Specifications:

Size:
DN50 - DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C



Triple eccentric butterfly valves

Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve, - Flanged, lug, wafer

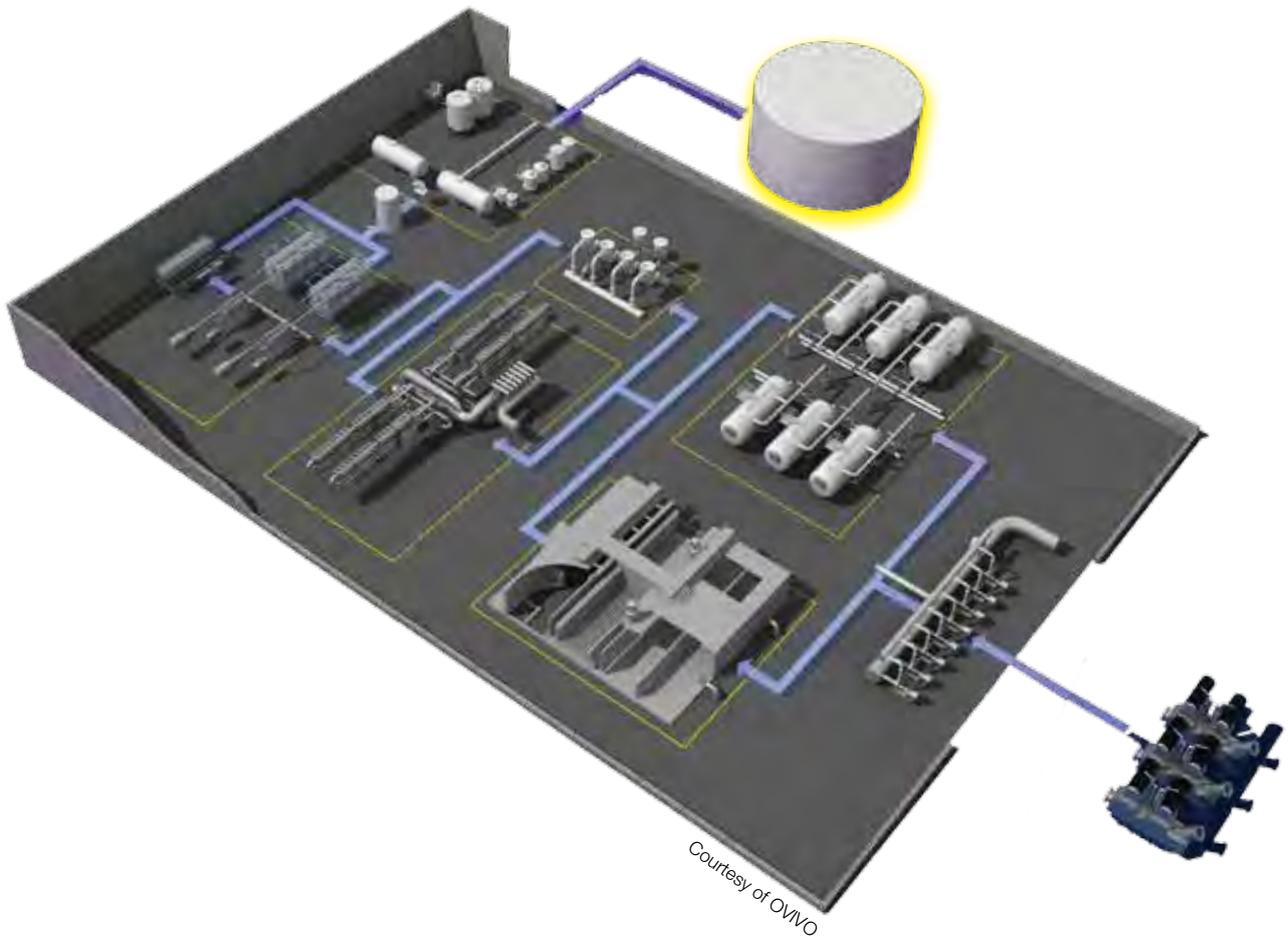
Specifications:

Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 - 600



AVK DESALINATION PLANTS



PRODUCT WATER STORAGE + WATER DISTRIBUTION

						
Full bore ball valves						
Duo check valves						
Plastic ball valves						
Butterfly valves						



Full bore ball valves

Body and ball in stainless steel.
Seats in PTFE.
Manually pneumatically or electrically operated.

Specifications:

Size:
DN 10 - DN 100

Pressure:
Up to 63 bar

Temperature:
Up to +650°C



Check valves

Metal and rubber seated check valves

Specifications:

Size:
DN32 – DN600

Pressure:
Up to 16 Bar

Temperature:
-10 to +400°C



Eurovalve check valve

Flangeless wafer type.
EN 1092 PN6 and 16
ASME B16.5 cl. 150
MMS SP 44 cl. 150
Face to face: EN558-1/2 Series 16
Seat bonded to the body

Specifications:

Size:
DN 50 – 600

Pressure:
Up to 16 Bar

Temperature:
-40 to +200°C



VKDIV Plastic ball valve

Material PVC-U, PP, PVDF

Specifications:

Size:
DN10 – DN100

Pressure:
PN16

Temperature:
Up to +140°C



Centric butterfly valves

Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

Wafer/lug type:

Size:
DN25 – DN1600 /
DN25 – DN600

Pressure:
Up to 16 Bar /
Up to 20 Bar

Temperature:
-50 to +140°C /
-40 to +200°C



Centric rubberlined butterfly valves

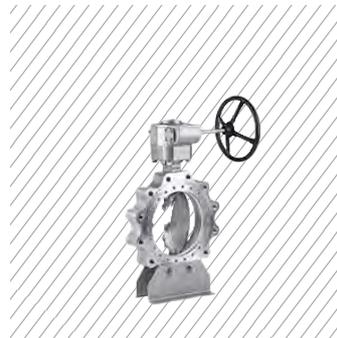
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Specifications:

Size:
DN50 – DN2200

Pressure:
Up to 25 Bar

Temperature:
-40 to +200°C



Triple eccentric butterfly valves

Body, trim and seat materials to customer requirements. Double & triple eccentric, high performance HP butterfly valve,
- Flanged, lug, wafer

Specifications:

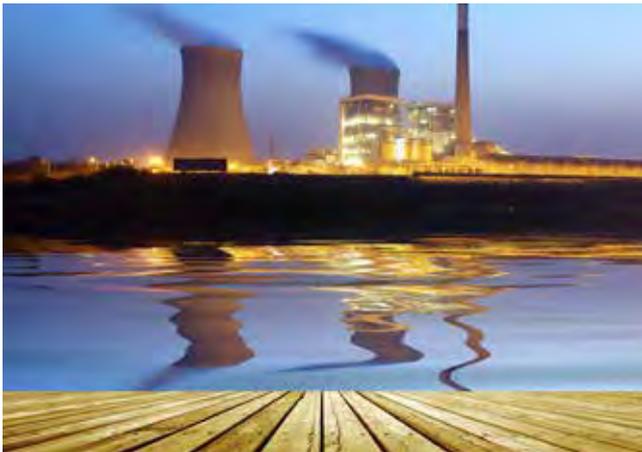
Size:
DN40 to DN600

Pressure:
PN 6 - PN 64, Class 150 – 600

WATER TREATMENT PLANTS



AT AVK, WE FOCUS ON **FOUR MAIN TARGET SEGMENTS**. IN THIS WAY WE ARE ABLE TO HIGHTEN THE QUALITY OF OUR SOLUTIONS, AND BE CLOSER TO OUR CUSTOMERS AT ALL TIMES.



OPTIMAL **VALVE SOLUTIONS**
FOR POWER GENERATION



OPTIMAL **VALVE SOLUTIONS**
FOR OIL AND GAS PLANTS



OPTIMAL **VALVE SOLUTIONS**
FOR THE MINING INDUSTRY



OPTIMAL **VALVE SOLUTIONS**
FOR WATER TREATMENT

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