

AVK FLOW CONTROL

OPTIMAL **VALVE SOLUTIONS** FOR DESALINATION PLANTS



ORBINOX



InterApp



World Valve



Wouter Witzel



TEC artec



AVK





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AVK FLOW CONTROL OPTIMAL VALVE SOLUTIONS

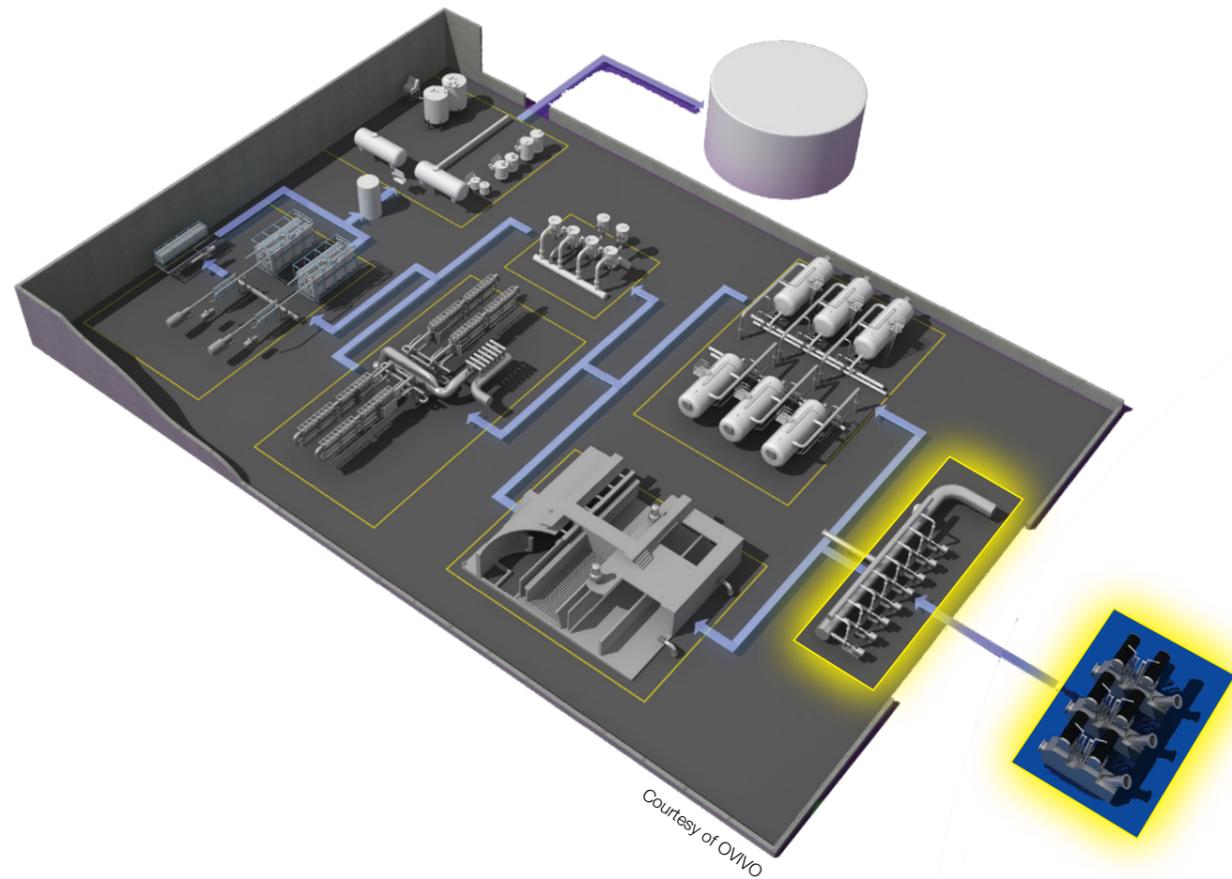
AVK FLOW CONTROL DELIVERS ADVANCED VALVE SOLUTIONS BASED ON APPLICATION KNOWLEDGE AND UNDERSTANDING, COMPETENT LOCAL SUPPORT AND INTERNATIONAL COORDINATION. BACKED UP BY THE LEADING COMPANIES AND MANUFACTURERS OF INDUSTRIAL VALVES, YOU CAN EXPECT HIGH AND CONSISTENT QUALITY AND SERVICE

01 | EXPECT APPLICATION KNOWLEDGE AND UNDERSTANDING

02 | EXPECT COMPETENT LOCAL SUPPORT

03 | EXPECT INTERNATIONAL COORDINATION





Courtesy of OVIVO

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

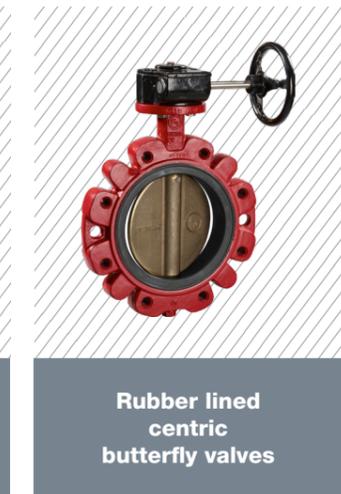
Material PVC-U, PP, PVDF

Wafer/lug type:

Size: DN10 – DN100

Pressure: DN16

Temperature: Up to +140°C



Rubber lined centric butterfly valves

Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

Specifications:

Size: Up to DN2000

Pressure: Full vacuum to 20 Bar

Temperature: -30 to +200°C



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

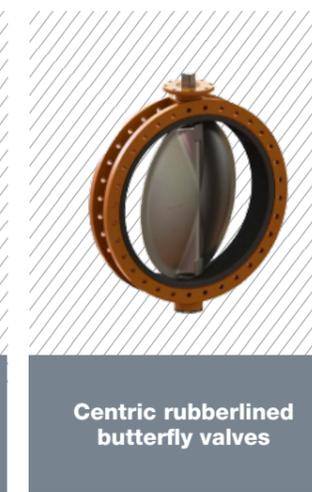
Wide range of materials for disc and loose liner, with ductile iron or carbon steel body in wafer, lug or u-section type

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

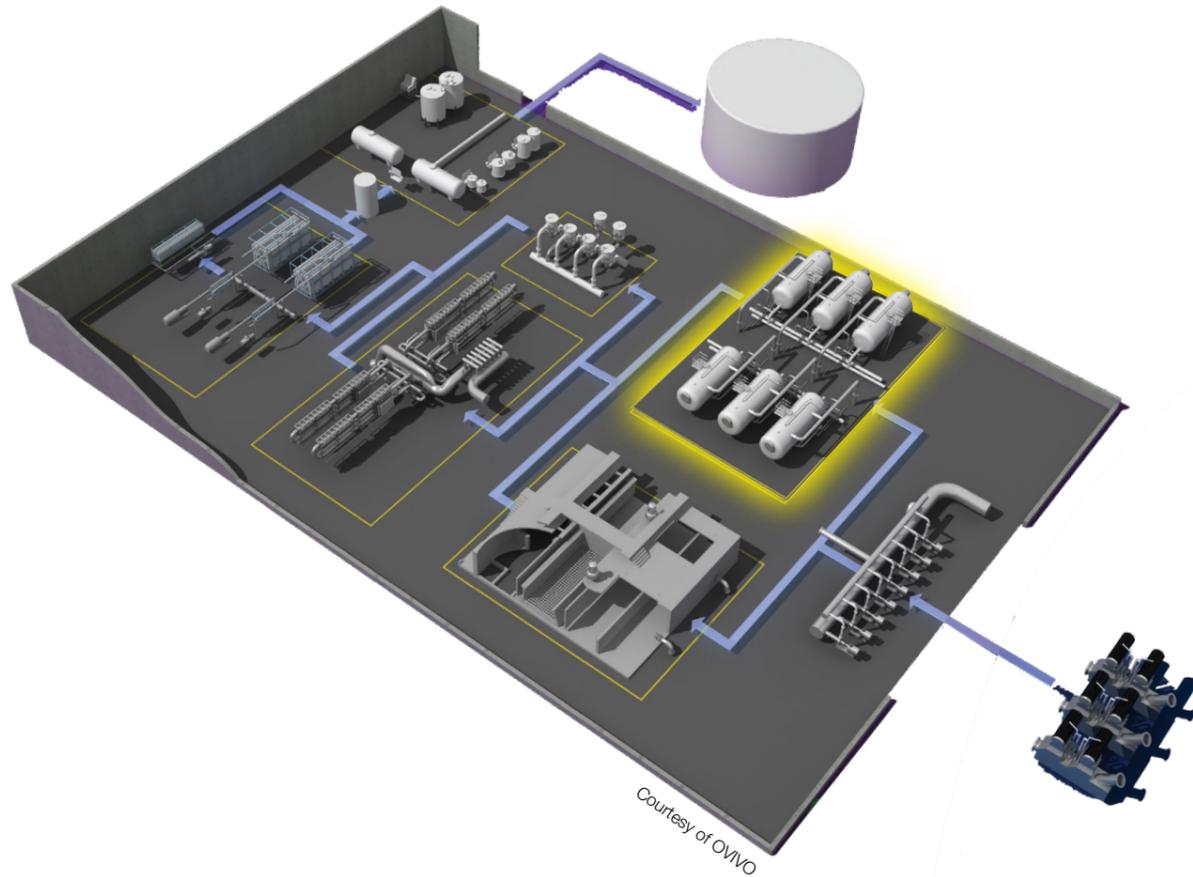
Full vacuum. High duty. Bonded to the body. Lining: EPDM, NBR and VITON. Body types: wafer, lug, single, double flanged body types. Available in EN and ANSI CL 150 standard

Specifications:

Size: DN50 – DN2200

Pressure: Up to 25 Bar

Temperature: -40 to +200°C



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

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

DUAL MEDIA FILTERS

	AVR	IA InterApp	WOUTER WITZEL	WV World-Valve	ORBINOX	tec artec
Full bore ball valves						
Duo check valves						
Plastic ball valves						
Butterfly valves						



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



Rubber lined centric butterfly valves

Body, trim and seat materials to customer requirements. Wafer, lug type, monoflanged and doubleflanged.

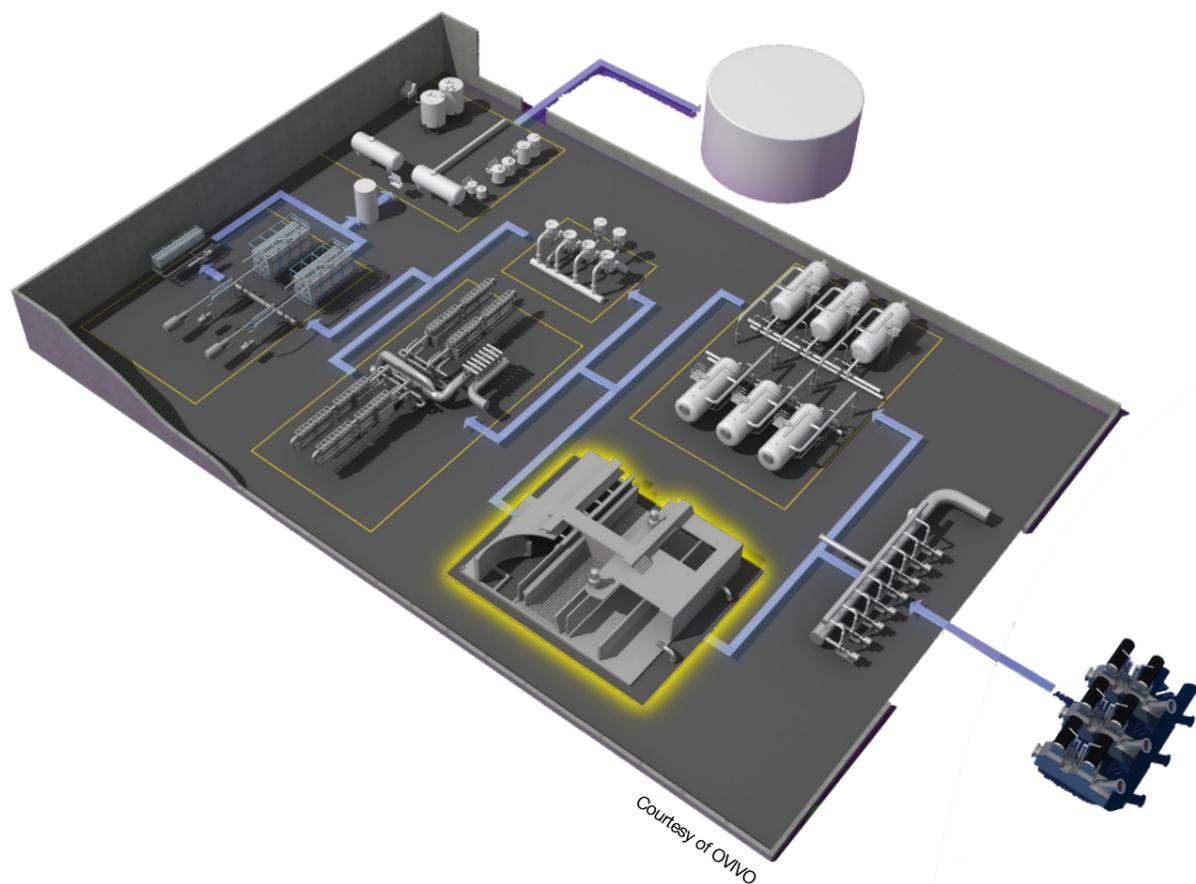
Specifications:

Size: Up to DN2000

Pressure: Full vacuum to 20 Bar

Temperature: -30 to +200°C





Courtesy of OVIVO

FLOCCULATION AND DISSOLVED AIR FLOWTATION

Duo check valves						
Penstocks						
Butterfly valves						

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. 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

Rubber lined centric butterfly valves

Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

Specifications:
 Size: Up to DN2000
 Pressure: Full vacuum to 20 Bar
 Temperature: -30 to +200°C

Wall mounted penstock

Four-side sealing. Stainless steel frame and gate, EPDM seals, HMWPE guides and 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

Channel penstock

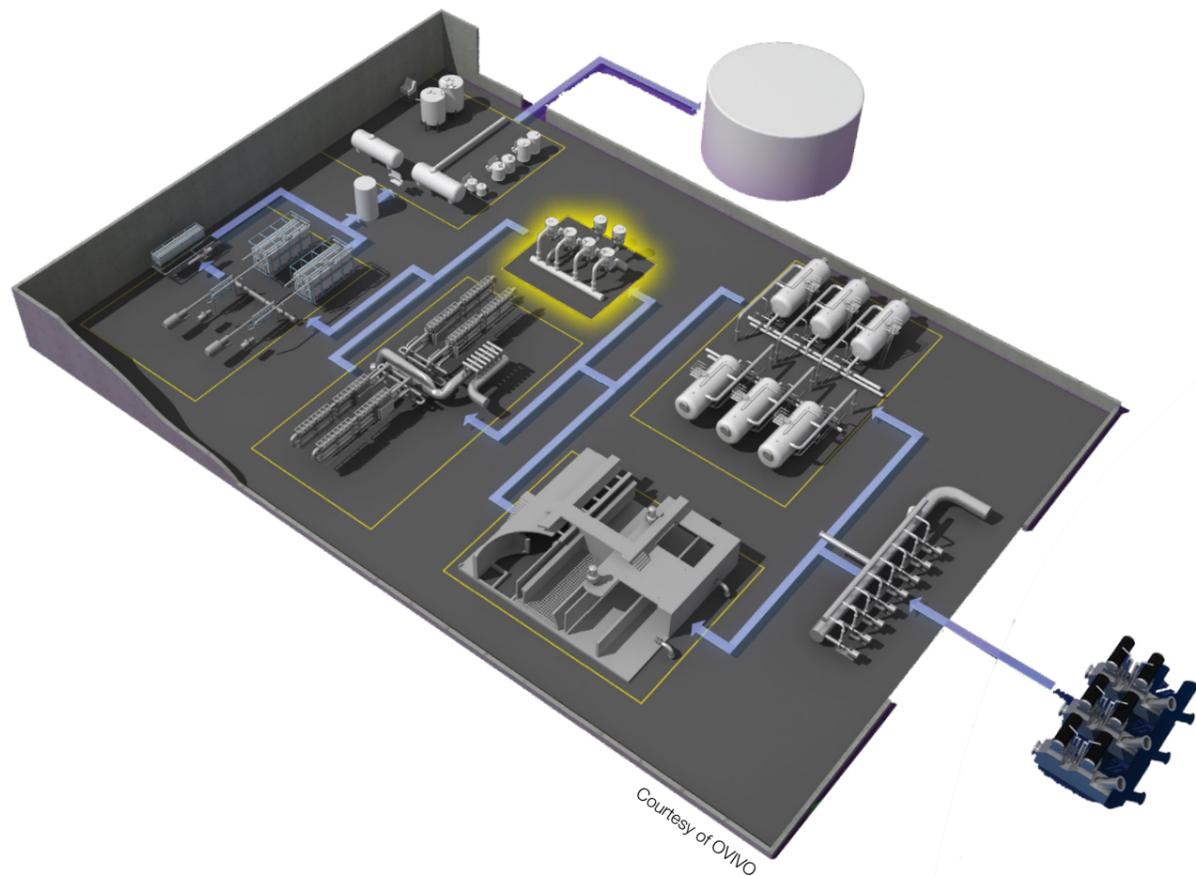
Three-side sealing. Stainless steel frame and gate, EPDM seals, HMWPE guides and various actuation solutions (manual, pneumatic, electric, etc.)

Specifications:
 Size: Up to 3000 x 3000 mm
 Pressure: Gate height
 Temperature: 0 to +70°C

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: Gate height
 Temperature: 0 to +70°C



Courtesy of OVVO

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



Rubber lined centric butterfly valves

Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

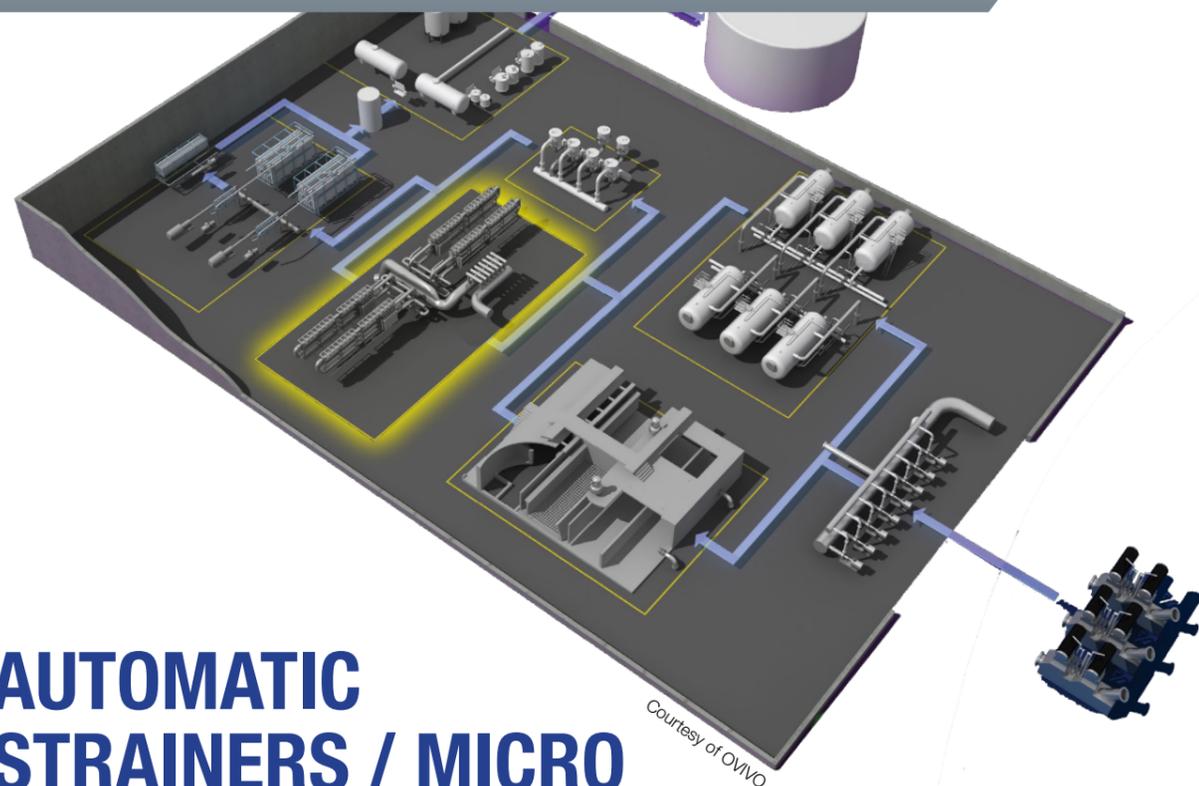
Specifications:

Size:
Up to DN2000

Pressure:
Full vacuum
to 20 Bar

Temperature:
-30 to +200°C





Courtesy of OWVO

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



Rubber lined centric butterfly valves

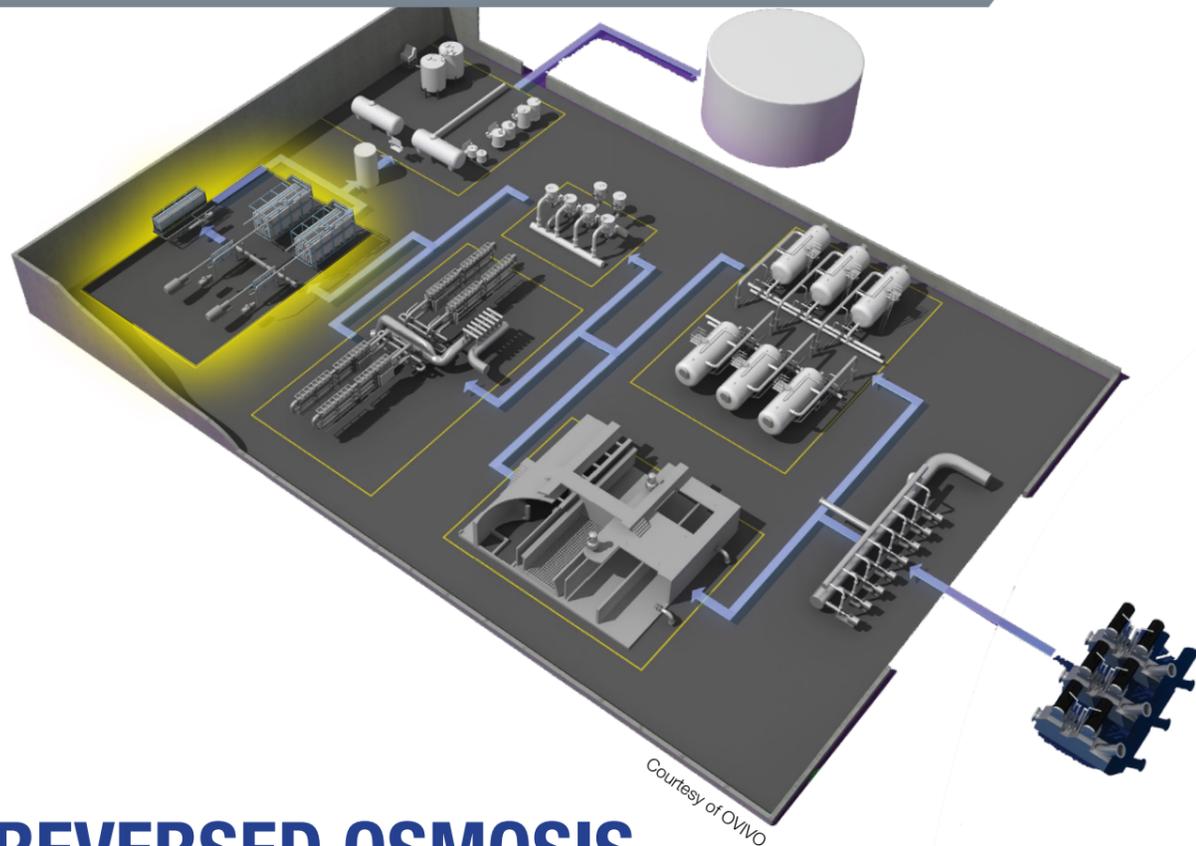
Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

Specifications:

Size: Up to DN2000

Pressure: Full vacuum to 20 Bar

Temperature: -30 to +200°C



Courtesy of OVIVO

REVERSED OSMOSIS

	AVR	IA InterApp	WOUTER WITZEL	WV World-Valve	ORBINOX	tec artec
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



Rubber lined centric butterfly valves

Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

Specifications:

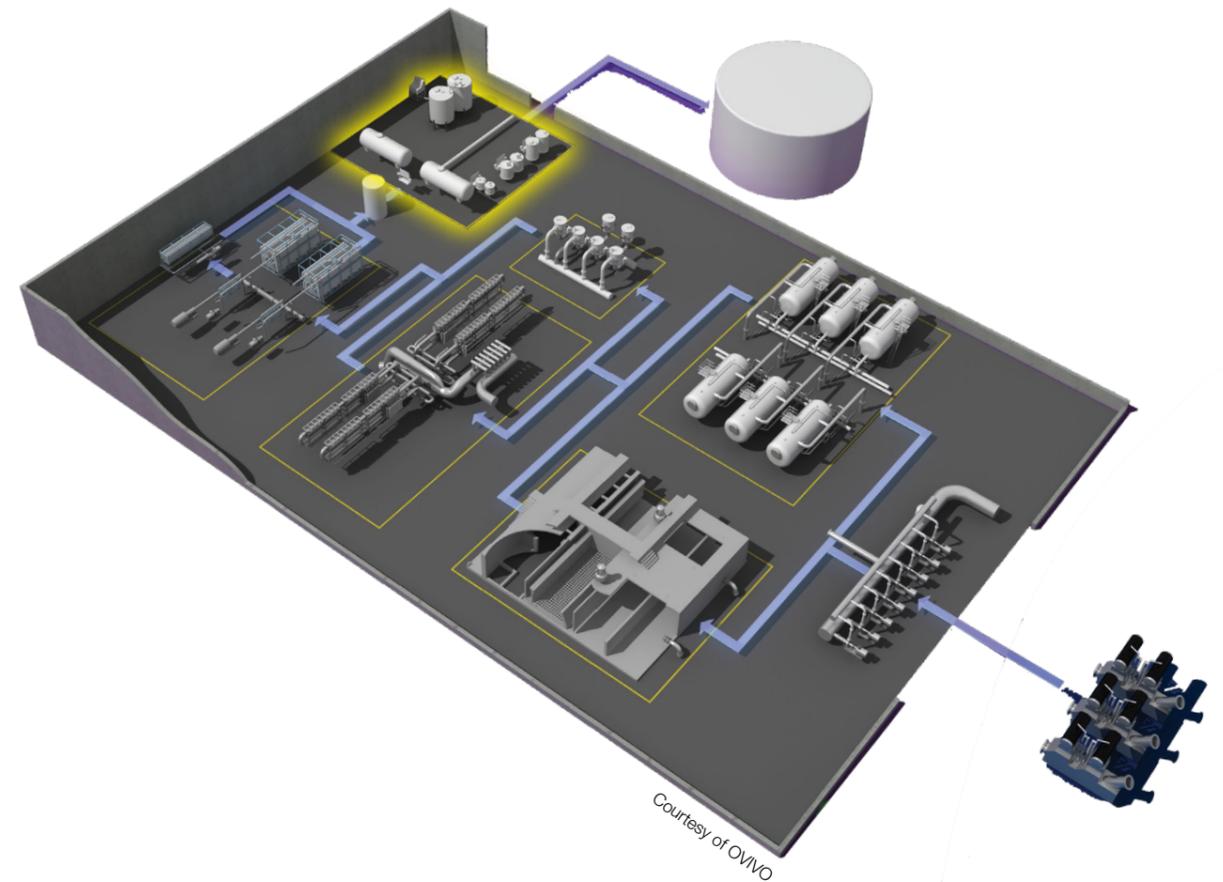
Size: Up to DN2000

Pressure: Full vacuum to 20 Bar

Temperature: -30 to +200°C

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						



AVK FLOW CONTROL | DESALINATION PLANTS



**VRUIV
Check Valve**

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



**SXEIV
Check Ball Valve**

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



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.



**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:
DN10 – DN50

Pressure:
Up to 16 Bar

Temperature:
Up to +60°C

Specifications:

Size:
DN65 – DN100

Pressure:
Up to 16 Bar

Temperature:
Up to +60°C

Specifications:

Size:
DN40 – DN300

Pressure:
Up to 5 Bar

Temperature:
Up to +60°C

Specifications:

Size:
DN8 – DN80

Pressure:

Temperature:
-10 to +90°C



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

3-way dual block ball valve



**Manual operated
plastic ball valve**

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



**Manual operated
plastic lever
butterfly valve**

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



Plastic diaphragm valves

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

Specifications:

Size:
DN15 – DN50

Pressure:
Up to 16 Bar

Temperature:

Specifications:

Size:
DN15 – DN50

Pressure:
DN16

Temperature:

Specifications:

Size:
DN40 – DN200

Pressure:
Up to 16 Bar

Temperature:

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



**Rubber lined
centric
butterfly valves**

Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

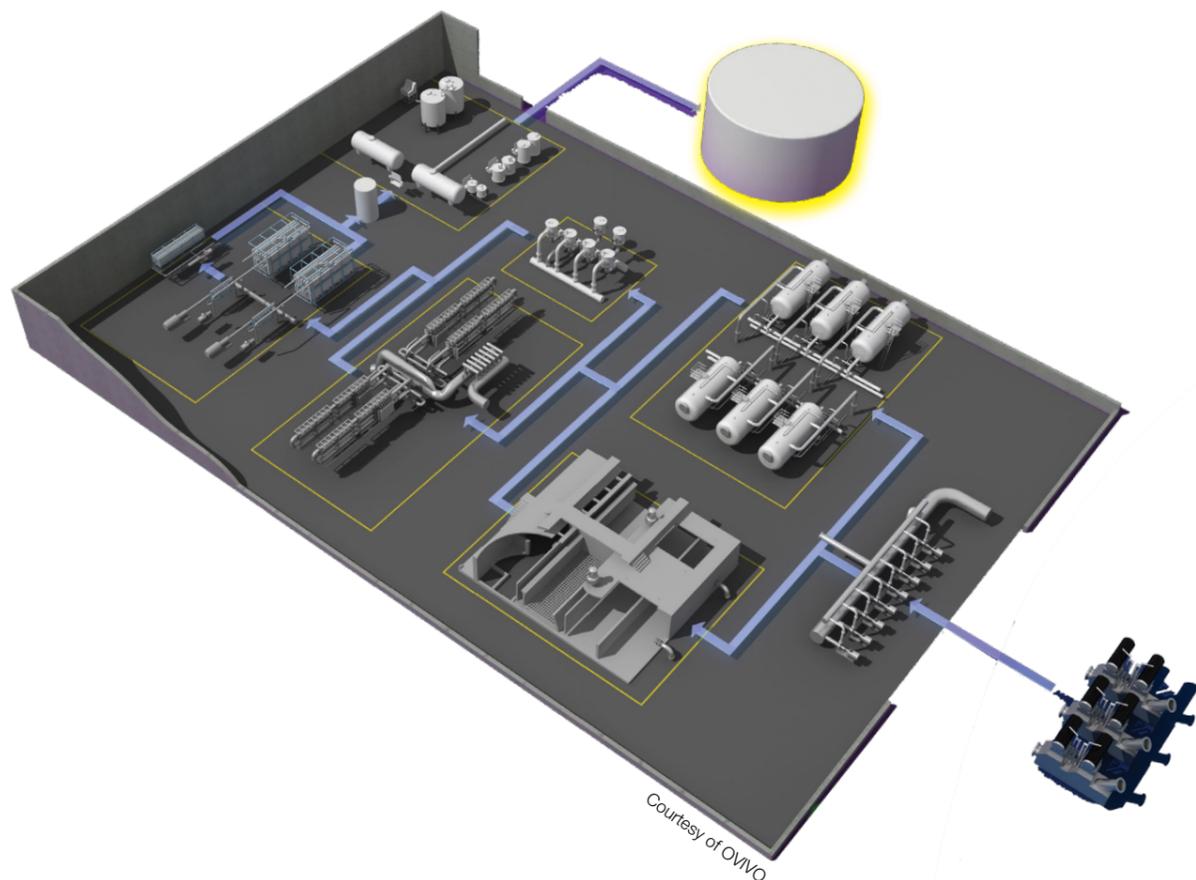
Specifications:

Size:
Up to DN2000

Pressure:
Full vacuum
to 20 Bar

Temperature:
-30 to +200°C





Courtesy of OVVO

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

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

Rubber lined centric butterfly valves

Body, trim and seat materials to customer requirements. Wafer, lugtype, monoflanged and doubleflanged.

Specifications:
 Size: Up to DN2000
 Pressure: Full vacuum to 20 Bar
 Temperature: -30 to +200°C



AVK FLOW CONTROL SEGMENTS

AT AVK FLOW CONTROL, 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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