

VALVESDetailed Overview

Overview of our product portfolio with product details

For any further questions, please feel free to contact our competent sales team. Our inside and outside sales team are always at your service!





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About Us



Flowtec - About Us

We are general agent and partner of leading international manufacturers and specialists in the fields of industrial valves, and systems and components for the pulp and paper industry.

We have already been offering our international customers an extensive product range for many years. Our expertise is based on many years of experience, in-depth know-how and the possibility to offer solution-oriented concepts at a good price-service ratio.



Flowtec - Industrial Valves

Our wide product range covers industrial valves manufactured by internationally leading companies for almost all applications and requests. We will be pleased to advise you and act as your competent partner from the planning phase through product selection to the initial operation. Our employees have more than 30 years of experience within the pulp and paper industry, as well as the general industry.

With Flowtec you have an experienced partner by your side. We are specialized on handling projects of any size professionally and reliably for our customers.



Flowtec - Systems and Components

Our product range covers investment, replacement and wear and tear components for the pulp and paper production.

We work together with renowned and leading manufacturers within the pulp and paper industry.

Next to our wide product range, we will be pleased to support you further by conducting on-site audits of your systems and subsequently presenting you improvement possibilities and methods to increase your efficiency.

Let us be the strong and reliable partner on your side.



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About Us



Overview of our Services

Flowtecoperates mainly in Europe. The sales regions include Austria, with Flowtec's head office, and the Eastern European region.

Apart from Slovakia and the Czech Republic, Flowtec serves customers in Poland, Hungary, Romania, Slovenia, Croatia, Bosnia Herzegovina, Serbia, Bulgaria, etc. You can always count on our competent sales team in the respective country.

We would be glad to assist you! Please contact us.





Consulting and Training

- Advice and assistance from the planning phase through product selection to start-up
- Individual trainings at your site or at one of our offices in Graz or Vienna



Planning and Projects

- Professional partner for small and large sized projects
- Ensuring a smooth progress from the project start to the finalization of the project



Warehouse and Assembly

- Modernly equipped workshop allows customized assembly and testing of the valves according to applicable standards and guidelines
- Extensive warehouse in Graz
- Delivery of standard valves within one working day in Austria



Service and Maintenance

 Professional repair and maintenance work on time





Wafer / Lug Butterfly Valves (TTV Valves)

DN (mm): 32 - 600

(up to 1400 on request)

PN (bar) / ANSI: 10 - 16 / CL 150 Body materials: GGG-50, G-SC 25,

> 1.4301 (AISI 304), 1.4408 (AISI 316), bronze C352, aluminium bronze C415, 1.4462

Seat materials: EPDM, NBR, Viton®,

silicone (food, steam), EPDM-HT, EPDM white, NBR gas, NR (natural rubber), Hypalon

Disc: GGG-50, 1.4301 (AISI 304),

1.4408 (AISI 316), bronze C352, aluminium bronze C415, 1.4462, 1.4408 + Halar®,

Hastelloy® C, Uranus® B6

Connections: Lug type, wafer

Face-to-face: EN 558-R20, API 609 Table 1

Options: Vulcanized, vacuum, special coatings, stainless steel

lever, IP68 gearbox, polished disc, gear with locking

device

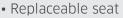
Applications: Water, seawater, waste water with low concentration of

chemicals, process water with low fiber consistency, air,

gas, oil, bulk material, vacuum

Approvals: ATEX, WRAS (on request), ACS (on request), CERTI GAS (on

request), FDA (on request), SIL, AD2000 WO/A4



 Coating Rilsan 250-300 µm (C5M on request)

- Extended body neck
- Full crossing stem







Flanged / Double Flanged Centric Butterfly Valves (TTV Valves)

DN (mm): 50 - 3000

PN (bar) / ANSI: 10 - 16 / CL 150

Body materials: GGG-50, GS-C 25, 1.4301

(AISI 304), 1.4408 (AISI 316), bronze C352. aluminium

bronze C415, 1.4462

Seat materials: EPDM, NBR, Viton®, silicone

(food, steam), EPDM-HT, EPDM white, NBR gas, NR (natural rubber), Hypalon

Disc: GGG-50, 1.4301 (AISI 304),

1.4408 (AISI 316), bronze C352, aluminium bronze C415, 1.4462, 1.4408 + Halar*, Hastelloy* C, Uranus* B6

Connections: Flanged, double flanged Face-to-face: Flanged: EN 558-R20,

API 609 Table 1

Double flanged: EN 558-R13,

API 609 Table 2C

M white, NBR gas, NR

Vulcanized (flanged design), vacuum, special coatings, stainless steel lever, IP68 gearbox, polished disc, gear with locking device

Water, seawater, waste water with low concentration of chemicals, process water with low fiber consistency, air,

ATEX, WRAS (on request), ACS (on request), CERTI GAS (on

Two-pieces shaftDouble eccentric disc

bushings

color black)

in maintenance-free

 Wetted screws made of stainless steel A4

(40-60µ epoxy coating /

Gear standard IP67

request), FDA (on request), SIL, AD2000 W0/A4

Flanged design: Replaceable seat
Double flanged design: Vulcanized seat
Coating Rilsan 250-300 µm (C5M on request)
One-piece body with flanges
Full crossing stem



Double Eccentric Double Flanged Butterfly Valves (TTV Valves)

gas, oil, bulk material, vacuum

DN (mm): 50 - 2000

Options:

Applications:

Approvals:

PN (bar) / ANSI: 10/16/25 / CL 150

Body materials: GGG50, 1.0619, 1.4408

Seat materials: EPDM, NBR

Disc: GGG50, 1.4408, aluminium

bronze, duplex

Stem: made of stainless steel,

material 1.4021

Corrosion Epoxy coating inside and protection body: outside 250-300µ / RAL5012

Corrosion Epoxy coating

protection disc: 250-300µ / RAL5012

Connections: Double flanged

Face-to-face: EN 558, series 13 and 14

Water, waste water, cooling water, drinking water,

desalination plants, gas

Approvals: ATEX, WRAS (on request), CERTI GAS (on request)



Applications:



Butterfly Valves, Type CST, PTFE-, TFM-, UHMPE lined (ChemValve-Schmid)

DN (mm): 50 - 1050

PN (bar): 10 (DN 50 - 600)

6 (DN 650 - 1050)

Temperature (°C): -20 up to +200

Body materials: GGG40.3 epoxy, carbon

steel, stainless steel, thermoset polymer

Seat materials: PTFE, TFM, UHMPE,

electrically conductive

Disc: PFA, PFA cond., 1.4404,

1.4408, 1.4409, 1.4581, polished stainless steel, titanium, Hastellov®

Connections: Lug type, wafer

 To shut off and control corrosive and abrasive liquids or gases

 Design of pressure package ensures longterm zero leakage to the atmosphere

 Ball-shaped disc and liner lead to longer lifetime and tightest shut-off

 Special elastomer backups provide gas tightness

ut-off er



ChemValve-Schmid

Options:

Flexible shaft connection (2-flat parallel, square diagonal

or parallel)

Applications: Corrosive and aggressive liquids and gases, food

Approvals: ATEX, FDA, SIL, TA Luft

Double Offset High Performance Butterfly Valves, Type Colossus (TTV Valves)

DN (mm): 50 - 600

PN (bar) / ANSI: 10/16/25, CL 150 **Body materials**: 1.0619 (A216WCB).

1.4408 (CF8M)

Seat materials: R-PTFE (-50°C up to +220°C),

F316L (-100°C up to +350°C

Disc: R-PTFE seat: CF8M (polishing),

Metal seat: CF8M + hard

chrome (polished)

Connections: Wafer, lug type, flanged

Replaceable / exchangeable seat design

 R-PTFE: Class VI tightness, 0% leakage,

PN 10/16/25,

Metal: Class V tightness,

PN 10/16/25

Bidirectional

Options: Seat materials R-PTFE fire-safe, PTFE Applications: Steam, air, oil, gas, bitumen, chemicals

Approvals: ATEX, fire-safe (on request), FDA (on request),

SIL (on request), AD2000 W0/A4





Hydromat[®] (Tröger + Entenmann)

DN (mm): 50 - 1200 (higher on request) **PN (bar):** 10 - 16 (PN25 on request)

Body materials: GGG50 (ab DN1400:

S235JRG2)

Sealing materials: EPDM
Disc: GGG50
Stem: 1.4021
Connections: Flanged

Face-to-face: DIN EN 558-1, GR14 or

DIN EN 558-1, GR15

 Frictionlocked sealing principle

 No mechanical stop of the disc in the valve body

Massive vulcanized sealing

■ Up to ≤ DN600: Enamel

■ Up to ≤ DN1200: Inside

enamelled

Manufactured entirely

in Germany

 Promptly available from the stock in Germany





Options: Electric or pneumatic actuation

Applications: Water, waste water, cooling water, drinking water

Approvals: DVGW

Shut-off and Control Butterfly Valves



Triple Eccentric High Performance Butterfly Valves, Type MTV (Somas)

DN (mm): 80 - 500

PN (bar) / ANSI: 10 - 25 / CL 150

Temperature (°C): up to +500

Body materials: 1.4408, special materials

Seat materials: Solid stainless steel,

R-PTFE reinforced

Connections: Wafer, double flanged,

lug type

 Solid stainless steel seat due to special geometry

 Suitable for high flow rates and media containing solids

 Ideal shut-off and control valve

Bi-directional tightness

 Friction and torque minimized design

Options: Oil and gas applications

Applications: Hot water and pulp stock up to min. 1%, pulp liquor

applications, solids, steam, oil, gas

Approvals: ATEX, TA Luft (on request), Fire-safe (on request),

FDA (on request), SIL



Triple Eccentric High Performance Butterfly Valves, Type VSS (Somas)

DN (mm): 80 - 1600

PN (bar) / ANSI: 10 - 100 / CL 150 - 600

Temperature (°C): -196 up to +600

Body materials: 1.4408, special materials

Seat materials: Solid stainless steel,

R-PTFE reinforced

Connections: Wafer, lug type

 Solid stainless steel seat due to special geometry

Suitable for high flow

rates and media containing solids

 Ideal shut-off and control valve

Bi-directional tightness

 Friction and torque minimized design

Options: Low-noise design, oil and gas applications, high

temperature design, cryogenic design, combustion

gas applications

Applications: Hot water and pulp stock up to min. 1%, pulp liquor

applications, steam turbine applications, solids,

steam, oil, gas

Approvals: ATEX, TA Luft (on request), Fire-safe (on request),

FDA (on request), SIL





Shut-off and Control Butterfly Valves

Four Offset High Performance Butterfly Valves (Quadax®)

DN (mm): 50 - 1800

PN (bar) / ANSI: 10 - 160 / CL 150 - 900

Temperature (°C): -270 up to +800

Body materials: Carbon steel, stainless steel,

special materials

Valve seat materials: Inconel®, Stellite, other materials: materials on request

Seal ring Graphite/stainless steel lamella, all metal lamella, Inconel® O-ring, other materials on request

Connections: Lug type, wafer, double flanged, butt weld ends.

top entry

 Shut-off and control butterfly valve for highest requirements in four offset design

 Absolute tightness even at extreme temperatures

and pressures







Options:

High temperature and cryogenic design, special materials, safety shut-off function, special face-to-face dimensions

Applications: Technical gases, power generation, thermosolar, oxygen,

LNG/LPG, cryogenic, heating district, pulp and paper, refineries/petrochemicals, tank storage, steel plants

Approvals: PED 2014/68EU, ASME 16.34, ATEX, TA Luft, ISO 15848,

NACE, SIL3, Fire-safe, AD2000 A4, BAM

Four Offset High Performance Butterfly Valves, Gate Valve Replacement (Quadax®)

DN (mm): 50 - 1800

PN (bar) / ANSI: 10 - 160 / CL 150 - 900

Temperature (°C): -270 up to +800

Body materials: Carbon steel, stainless steel,

special materials

Valve seat materials: Inconel®, Stellite, other materials: materials on request

Seal ring Graphite/stainless steel lamella, all metal lamella, Inconel® O-ring, other

materials on request

Connections: Flanged/gate valve

replacement

 Shut-off and control butterfly valve for highest requirements in four offset design

 Slide replacement without modification of the pipeline





Options:

High temperature and cryogenic design, special materials, safety shut-off function, special face-to-face dimensions

Applications: Technical gases, power generation, thermosolar, oxygen,

LNG/LPG, cryogenic, heating district, pulp and paper, refineries/petrochemicals, tank storage, steel plants

Approvals: PED 2014/68EU, ASME 16.34, ATEX, TA Luft, ISO 15848,

NACE, SIL3, Fire-safe, AD2000 A4, BAM

Throttle Valves / Safety Shut-off Valves according to EN 161



On/off and Control Butterfly Valves, Type HRD/HRA / RD/RA (Herberholz)

DN (mm): 32 - 1200 PN (bar) / ANSI: 6 - 16 / CL 150 Temperature (°C): up to +900

Body materials: Cast iron, ductile iron,

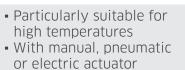
aluminium cast, stainless steel, special materials

Seat materials: Graphite, PTFE, elastomers

Connections: Wafer

Applications: Industrial furnace, shipbuilding, motor test bench,

gas exhaust system, steel plant, chemical industry



For on/off and control applications



Safety Shut-off Valves, Type AK/DVGW, AK/SSK, Series 049/054 (Herberholz)

DN (mm): 50 - 1200 PN (bar): 6 - 10

Body materials: Ductile iron GGG40.3,

steel 1.0570

Seat materials: NBR-DVGW, NBR, EPDM, FPM

(vulcanized), FMQ, CSM, IIR

Closing times: up to DN 500: < 1 sec.,

DN 600 - 1200: < 2 sec.

Connections: Wafer

 Safety shut-off valve acc. to DIN EN 161, class A

- Safety shut-off valve for pipes to burner or multiple burners
- Max. working pressure:2 bar
- Suitable for use in safety related systems as a single safety related subsystem according to DIN EN IEC 61508 and DIN EN IEC 61511 for up to and including SIL3

Applications: For gas trains, biogas plants, wastewater treatment

plants, as double shut-off valve in furnace systems

Approvals: EN 161, DVGW (Gas), SIL, ATEX

HERDERHOLZ







3-Piece Ball Valves (ICP Valves)

DN (mm): 8 - 100 / 1/4" - 4"

PN (bar): 63 (to DN50) / 25 (DN65-100)

Body materials: 1.4408 Seat materials: PTFE

Connections: BSP threads, NPT threads,

socket weld ends, butt weld ends, long butt weld ends

Designs: BSP: Fig. 140/140 ISO, NPT: Fig. 141/141 ISO,

SW: Fig. 142/142 ISO, BW: Fig. 143/143 ISO, acc. ASME B16.25 & DIN3239 part 1, Long BW: Fig. 143L-ISO, acc.

ASME B16.25 & DIN3239 part 1

Applications: Water, oil, gas, chemicals

Approvals: ATEX

3-piece designFull bore

 Locking device as standard



3-Piece Ball Valves, Series 800 (JC Valves)

DN (mm): 10 - 50 / 3/8" - 2"

PN (bar) / PN63 DIN EN butt weld ends ANSI: long (short on request) /

CL800/CL1500 for BSP, NPT

and socket weld ends

Body materials: A105N / F316L / LF2 and

Duplex on request

Seat materials: RPTFE, STANSIT (PTFE-SS),

A479 Tp. 316 + TCC

Connections: Type 800 BSP - CL800

Type 801 NPT - CL800 Type 802 socket weld ends -

CL 800

Type 803 DIN EN butt weld ends - PN63 (on request) Type 803L DIN EN butt weld

ends long - PN63 Type 807 ASME B16.34

Nipples - CL800

■ 3-piece body

- Cavity balancing hole
- Blow out proof stem
- Full bore
- Floating ball



Applications: Water, oil, gas, chemicals, seawater, low pressure steam

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4



Forged Monobloc Ball Valves, Series 400/41500 (JC Valves)

DN (inch): 3/8" - 2"

ANSI: CL 800 (series 400) /

CL 1500 (series 41500)

Body materials: A105N, A479 Type A316L,

other materials on request

Seat materials: RPTFE, STANSIT (PTFE-SS)

Connections: BSP, NPT, SW, BW

Applications: Oil, gas, chemicals, steam, mining

Approvals: ATEX, Fire-safe, AD2000 W0/A4, NACE, TA Luft

Monobloc designReduced bore

Floating ball

Cavity balancing hole



DIN Flanged Ball Valves, Floating, Short Pattern Series 516/540, Long Pattern Series 316/340 (JC Valves)

DN (mm): 15 - 200

PN (bar): 16 (to DN200) / 40 (to DN150)

Body materials: 1.0619, 1.4408, other

materials on request

Seat materials: PTFE, R-PTFE, PTFE glass, DEVLON,

STANSIT (PTFE-SS), PEEK, nylon

Connections: Flanged

2-piece design

- Full bore
- Floating ball
- Face to face dimensions:
 EN 558 Series 1 /

Series 27

Cavity balancing hole



Options: V-port regulation ball, cryogenic construction to -196°C, oil-

and grease-free, cavity fillers, cavity relief seats, double packing, oval handwheel (up to 2"), vacuum design up to 10-4 bar,

PN63/PN100

Applications: Water, seawater, oil, gas, chemicals, low pressure steam **Approvals:** ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, FDA (on request)

DIN Flanged Ball Valves, Semi Trunnion, Short Pattern Series 1516/1540, Long Pattern Series 1316/1340 (JC Valves)

DN (mm): 200 - 300

PN (bar): 16 (DN250-300) /

40 (DN200-300)

Body materials: 1.0619, 1.4408, other

materials on request

Seat materials: PTFE, R-PTFE, PTFE glass,

DEVLON, STANSIT (PTFE-SS),

PEEK, nylon

Connections: Flanged

2-piece design

Full bore

Semi trunnion ball

Face to face dimensions:
 EN 558 Series 27 /

Series 1

Cavity balancing hole





Options: Oil- and grease-free, double packing, vacuum design

up to 10⁻⁴ bar

Applications: Water, seawater, oil, gas, chemicals, low pressure steam

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4





DIN Metal Seated Flanged Ball Valves, Floating, Short Pattern Series 3516/3540 / Long Pattern Series 3316/3340 (JC Valves)

DN (mm): 15 - 150

PN (bar): 16 (up to DN150) /

40 (up to DN100)

Body materials: 1.0619, 1.4408, LCC and

other materials on request

Ball materials: 316 + TCC coating, other

treatments on request

Seat materials: 316 + TCC coating, other

treatments on request

O-rings: FKM, Aflas (up to 250°C),

FFKM-Kalrez (up to 327°C),

Graphite above 327°C

Temperature (°C): up to +500 (depending on material and treatment!)

Connections: Flanged

Leakage rate: Class A with Aflas, FKM, FFKM;

Class D (B on request) with Graphite

Options: Special seats, double packing,

oval handwheel (up to 2")

Applications: Oil, gas, chemicals, steam, mining

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4

- 2-piece design
- Full bore
- Floating ball
- Face to face dimensions:
 EN 558 Series 1 /
 EN 558 Series 27
- Cavity balancing hole



DIN Flanged Ball Valves, PN63-100, Long Pattern/Floating, Series 563 (PN63) / Series 599 (PN100) (JC Valves)

DN (mm): 15 - 100 PN (bar): 63/100

Body materials: A105, F316, LF2, other ma-

terials on request

Seat materials: R-PTFE, PTFE glass, DEVLON,

STANSIT (PTFE-SS), PEEK, nylon

Connections: Flanged

2-piece design

- Full bore
- Floating ball
- Face to face dimensions:
 EN 558 Series 1
- Cavity balancing hole

Options: Oil- and grease-free, cavity relief seats, double packing,

vacuum design up to 10⁻⁴ bar

Applications: Water, seawater, oil, gas, chemicals, low pressure steam

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4





DIN Metal Seated Flanged Ball Valves, PN63-100, Long Pattern/Floating, Series 3563 (PN63) / Series 3599 (PN100) (JC Valves)

2-piece designFull bore

EN 558 Series 1

Cavity balancing hole

3 connectors + cover)

• Face to face dimensions:

Manufacturer standard

Cavity balancing hole

Full bore

Floating ball

• Face to face dimensions:

Floating ball

DN (mm): 15, 20, 25, 40, 50

PN (bar): 63/100

Body materials: A105, F316, LF2, weitere

Materialien auf Anfrage

Seat materials: 316 + TCC Beschichtung, weitere

Beschichtungen auf Anfrage

O-rings: FKM, Aflas (bis 250°C),

FFKM-Kalrez (bis 327°C),

Graphit über 327°C

Temperature (°C): bis +500 (abhängig von

Material und Behandlung!)

Connections: Flansch

Leakage rate: Class A with Aflas, FKM, FFKM;

Class D (B on request) with Graphite

Options: Special seats, double packing,

oval handwheel (up to 2")

Applications: Oil, gas, chemicals, steam, mining

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4

JC VALVES

DIN Flanged 3-Way Ball Valves, Floating, Series 916N (JC Valves)

DN (mm): 25 - 200

PN (bar): 16

Body materials: 1.0619, 1.4408, other

materials on request

Seat materials: PTFE, R-PTFE, PTFE glass.

STANSIT (PTFE-SS)

Port

combinations: L-port, T-port, inverted port

Connections: Flanged

Options: Oil- and grease-free

Applications: Water, seawater, oil, gas, chemicals, low pressure steam

Approvals: ATEX, AD2000 W0/A4









DIN Flanged Ball Valves with Heating Jacket, Long Pattern/Floating, Series 553 (JC Valves)

DN (mm): 15 - 100 PN (bar): 16/40

Body materials: 1.4408 (other materials

on request)

Seat materials: STANSIT (PTFE-SS)

Connections: Flanged

• PN10 steam jacketed

2-piece design

Full bore

Floating ball

Face to face dimensions:
 EN 558 Series 1

Cavity balancing hole

Options: Cavity fillers, cavity relief seats, double packing

Applications: Chemicals, bitumen

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4



ANSI Flanged Ball Valves, Floating, Series 515(B)/530(B) (JC Valves)

DN (inch): 1/2" - 8"

ANSI: CL 150 (up to 8") /

CL 300 (up to 6")

Body materials: A216WCB, A351 CF8M,

352 LCC, other materials

on request

Seat materials: PTFE, R-PTFE, PTFE glass,

DEVLON, STANSIT (PTFE-SS),

PEEK, nylon

Connections: Flanged

2-piece design

- Full bore
- Floating ball
- API 6D
- Cavity balancing hole





Options: V-port regulation ball, cryogenic construction to -196°C,

heating jacket (type 550 / 570), oil- and grease-free, cavity fillers, cavity relief seats, double packing, oval handwheel (up to 2"), vacuum design up to 10-4 bar

Applications: Water, seawater, oil, gas, chemicals, low pressure steam

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, FDA (on request), NACE, API 6D



ANSI Flanged Ball Valves, Semi Trunnion, Series 1515/1530 (JC Valves)

2-piece designFull bore

2-piece designFull bore

Cavity balancing hole

Floating ball

API 6D

API 6D

Semi trunnion ball

Cavity balancing hole

DN (inch): 8" - 12"

ANSI: CL 150 (10"-12") /

CL 300 (8"-12")

Body materials: A216WCB, A351 CF8M,

352 LCC, other materials

on request

Seat materials: PTFE, R-PTFE, PTFE glass,

DEVLON, STANSIT (PTFE-SS),

PEEK

Connections: Flanged

Options: 1-piece design series 715/730, oil- and grease-free,

double packing, vacuum design up to 10⁻⁴ bar

Applications: Water, seawater, oil, gas, chemicals, low pressure steam **Approvals:** ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, NACE, API 6D



ANSI Metal Seated Flanged Ball Valves, Floating, Series 3515/3530 (JC Valves)

DN (inch): ½" - 6"

ANSI: CL 150 (to 6") / CL 300 (to 4")

Body materials: A216 WCV, A351 CF8M, 352

LCC, other materials on request

Ball materials: 316 + TCC coating, other

treatments on request

Seat materials: 316 + TCC coating, other

treatments on request

O-rings: FKM, Aflas (up to 250°C),

FFKM-Kalrez (up to 327°C),

Graphite above 327°C

Temperature (°C): up to +500 (depending on

material and treatment!)

Connections: Flanged

Leakage rate:

Class A with Aflas, FKM, FFKM; Class D (B on request) with Graphite

Options: Ball in slurry design, special seats, double packing,

oval handwheel (up to 2")

Applications: Oil, gas, chemicals, steam, mining

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, NACE, API 6D





ANSI Flanged Ball Valves, Floating, Full Bore Series 560(B) / Reduced Bore Series 660(B) (JC Valves)

2-piece design

2-piece designFull bore

Cavity balancing hole

 5-piece design (body + 3 connectors + cover)

Face to face dimensions:

Manufacturer standard

Cavity balancing hole

Floating ball

API 6D

Full bore

Floating ball

DN (inch): $\frac{1}{2}$ " - 4" ($\frac{1}{2}$ " - 2" Type B = BAR

material)

ANSI: CL 600

Body materials: A216WCB, A351 CF8M, 352

LCC, A105, F316, LF2, other

materials on request

Seat materials: Nylon, R-PTFE, PTFE glass,

DEVLON, STANSIT (PTFE-SS), PEEK

Connections: Flanged

Options: Oil- and grease-free, cavity relief seats, double packing Applications: Water, seawater, oil, gas, chemicals, low pressure steam Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, NACE, API 6D





ANSI Flanged Ball Valves, Floating, Full Bore, Series 590B CL900 / 550B CL1500 (JC Valves)

DN (inch): ½" - 2"

ANSI: CL900 (590B) / CL1500 (550B)

Body materials: A105, F316, LF2, other

materials on request

Seat materials: DEVLON, PEEK

Connections: Flanged

Options: Oil- and grease-free

Applications: Water, seawater, oil, gas, chemicals

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, NACE, API 6D

VALVES

ANSI Flanged 3-Way Ball Valves, Floating, Series 915N (JC Valves)

DN (inch): 1" - 8" **ANSI**: CL 150

Body materials: A216WCB, A351 CF8M, 352

LCC, other materials on request

Seat materials: PTFE, R-PTFE, PTFE glass,

STANSIT (PTFE-SS)

Port combinations: L-port, T-port, inverted port

Connections: Flanged

Options:

Oil- and grease-free, double packing

Applications: Water, seawater, oil, gas, chemicals, low pressure steam

Approvals: ATEX, AD2000 W0/A4, NACE





DIN & ANSI Forged Trunnion Design Flanged Ball Valves, Soft / Metal Seated, Series 6000FB / 7000RB (JC Valves)

3-piece design

• Reduced bore -

Trunnion ball

API 6D

series 7000RB

Spring loaded seats

• Full bore - series 6000FB

DN (mm): 40 - 1050 / 1½" - 42"

PN (bar) / ANSI: 16 - 420 / CL 150 - 2500

(depending on sizes)

Body materials: A105, F316, LF2, Duplex and

other materials on request

Soft seat: PTFE, R-PTFE, PEEK, DEVLON,

nylon, other materials on request

Metal seat: 316 + TCC coating, other

treatments on request

Connections: Flanged

Leakage rate: Class A up to 327° (FFKM-Kalrez O-rings);

Class D (B only on request) for temperatures above 327°C

Options: Construction to -196°C, heating jacket, oil- and grease-free,

cavity fillers, double packing, special face-to-face

dimensions, special flanges

Applications: Liquors, water, seawater, sour gas, oil, gas, chemicals, low

pressure steam

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, NACE, API 6D





ANSI Cast Trunnion Design Flanged Ball Valves, Soft / Metal Seated, Series 2515/2530 (JC Valves)

2-piece designFull bore

Trunnion ball

API 6D

Spring loaded seats

DN (inch): 2" - 16"

ANSI: CL 150 - 900

Body materials: A216WCB, A351 CF8M, 352

LCC, other materials on request

Soft seat: PTFE, R-PTFE, PEEK, DEVLON,

nylon, other materials on request

Metal seat: 316 + TCC coating, other

treatments on request

Connections: Flanged

Leakage rate: Class A up to 327° (FFKM-Kalrez O-rings);

Class D (B only on request) for temperatures above 327°C

Applications: Water, seawater, sour gas, oil, gas, chemicals, low pressure

steam

Approvals: ATEX, SIL, TA Luft, Fire-safe, AD2000 W0/A4, NACE, API 6D







ANSI Double Block and Bleed Ball Valves, Flanged / Threaded, Floating, Series DBB (JC Valves)

1/2" - 4" DN (inch):

ANSI: CL 150 - 2500

Body materials: A216WCB, A351 CF8M, 352

LCC, other materials on request

Seat materials: R-PTFE. other materials on request

Flanged, threaded Connections:

Applications: Oil, gas, chemicals

Approvals: ATEX, SIL, TA Luft/Fugitive emissions, Fire-safe,

AD2000 W0/A4, NACE, API 6D



Double Block and Bleed Valve, Type DBBV (Control Seal)

2" - 42" (larger on request) DN (inch):

ANSI: CL 150 - 2500 **Temperature (°C)**: -196 up to +250

Body materials: A216 WCB, CF8M, wide

choice of other materials on

request, also according to DIN

Seat materials: Viton® A, FFKM, PTFE Design: API 6D, ASME B16.34

Execution: Reduced or full (piggable) port

Connections: Flanged

Face-to-face API 6D, ASME B16.10,

dimension: B16.47

ATEX Cat II 2 G/D, various bleed systems Options:

Applications: Oil and fuel

SIL, TA Luft, Fugitive Emission, SHELL, AD2000 A4, Fire-safe, NACE Approvals:





Non Contact Rising Stem Ball Valve, Type RSBV (Control Seal)

2" - 36" DN (inch):

ANSI: CL 150 - 2500 **Temperature (°C):** -196 up to +538

Body materials: A216 WCB, CF8M, wide

choice of other materials on

request, also according to DIN

Seat materials: Metal

Design: API 6D, ASME B16.34

Execution: Reduced or full (piggable) port

Connections: Flanged

Face-to-face API 6D, ASME B16.10.

dimension:

Sand & slurry option up to 50% particles

Applications: Oil, gas, steam, hydrogen

Approvals: SIL, TA Luft, Fugitive Emission, SHELL, AD2000 A4, Fire-safe, NACE



• 100% tight shut-off Friction-free opening

Actuation: manual or

 Maintenance friendly (less moving parts.

in-line maintenance

Fast opening and closing

and closing

automatic

possible)

- Friction-free opening and closing
- Actuation: manual or
- automatic
- Fast opening and closing
- Maintenance friendly
- Self-cleaning
- Frequent switching



100

Options:



Ball Valves, Type SKV (Somas)

DN (mm): 25 - 500

PN (bar) / ANSI: 25, 50 / CL 150, 300 Temperature (°C): -196 up to +550

Body materials: 1.4408, special materials

Seat materials: HiCo or PTFE/stainless steel

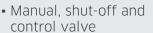
(PTFE 53)

Connections: Flanged

Applications: Fibrous stock, pulp and pulp liquor applications

Approvals: ATEX (on request), SIL (on request), FDA (on request),

TA Luft (on request)



- Full bore
- Easy to replace seats without removing the actuator

One- or two-piece bodyCast or forged steel

Full bore

 Tightness acc. to ANSI Class V to VI



Compact Ball Valves, Type FA1/FB1/FC1/FA2/FB2/FC2 (Adler)

DN (mm): 10 - 50

PN (bar) / ANSI: 10 - 160 / CL 150 - 1500

Body materials: Carbon steel, stainless steel,

titanium, Hastelloy®, Monel®

Seat materials: PTFE, R-PTFE (PTFE glass,

PTFE metal mixture), PEEK

Connections: Flanged

Options: Heating jacket, oil- and grease-free, cryogenic design.

pressure equalizing hole, oval hand lever, cavity filling

in PTFE / metal

Applications: High pressure shower pipes, white water, water, oil,

gases, chemicals, low pressure steam

Approvals: ATEX, FDA, SIL3, TA Luft, Fire-safe



3-Way Ball Valves, Type FT4/FZ4 and FT6/FZ6 (Adler)

DN (mm): 15 - 150

PN (bar) / ANSI: 10 - 40 / CL 150 - 300

(up to DN 50: PN 63)

Body materials: Carbon steel, stainless steel,

titanium, Monel®, Hastelloy®

Seat materials: PTFE, R-PTFE (PTFE glass,

PTFE metal mixture)

Connections: Threaded, block flanges

"L" or "T" shapedType FT6/FZ6

for higher pressures



Heating jacket, oil- and grease-free, cryogenic design,

pressure equalizing hole, oval hand lever, cavity filling

in PTFE

Applications: Water, oil, gas, chemicals

Approvals: ATEX, FDA, SIL3, TA Luft, Fire-safe







Fully-Welded Ball Valves (Peter Meyer)

DN (mm): 10 - 150

PN (bar) / ANSI: 6 - 40 / CL 150 - 300

1.4404, 1.4435, Hastelloy®, Body materials:

> titanium, tantalum (further Full bore

materials on request)

Seat materials: TFM pure, PTFE pure, PTFE-

glass, TFM-glass, BA 130, PEEK mod., TFM 50% VA, metal

Connections: All standard connections.

other connections on customer request

 One-piece body design (with screwed insert) Laser welded, without

body seal

Chambered seats

 Integrated cavity pressure relief system

• Replaceable packing in depressurized, built-in condition

 Low cavity behind the seats

Antistatic device

Minimum weight construction

Options: Double gland packing, heating jacket, flushing bore,

Ra < 0.8 µm in the through bore, locking device, special

face-to-face dimensions

Applications: Chemicals, acids, liquors, industrial gases Approvals: ATEX, FDA, SIL, TA Luft, Fire-safe, SVGW



Two- and Multi-Way Ball Valves for Demanding Applications (Kitz/Perrin)

DN (mm): 15 - 600 / 1/2" - 24"

PN (bar) / ANSI: 10 - 420 / CL 150 - 2500

Temperature (°C): -196 up to +800

Body materials: Carbon steel, stainless steel,

titanium, Hastelloy®, special

materials

Seat materials: PTFE, graphite, PEEK, metal

Connections: Flanged, threaded, butt weld

ends, socket weld ends

 For special applications like abrasion, high temperatures and pressures

 Various materials and coatings

For high switching cycles





Options: Heating/cooling jacket, grid and lock units, special coatings

Applications: Oil, gas, hydrogen, dosing, power stations, mining,

PE-/PP-production

ATEX, FDA, SIL, TA Luft, Fire-safe, DVGW (Gas) Approvals:

Knife Gate Valves



Knife Gate Valves, Type EB (Orbinox)

DN (mm): 50 - 1200 (higher on

request)

PN (bar) / ANSI: up to 10 / CL 150

Body materials: GGG40 (DN 50 - 300),

GG25 (DN 350 - 1200),

epoxy-coated

Seat materials: EPDM, NBR, Viton®

Connections: Wafer

Applications: Especially suitable for water and waste water applications,

sludge, clean pulp stock up to 8% consistency

Approvals: ATEX (on request)



Pulp Knife Gate Valves, Type HK/EX (Orbinox)

DN (mm): 50 - 1200 (higher on

request)

PN (bar) / ANSI: up to 10 / CL 150

Body materials: GG25, GGG40, 1.4408,

special materials

Seat materials: PTFE, EPDM, NBR, Viton®,

metal

Connections: Wafer

Options: Bonnet design, V-port for regulation, flush connections,

type EX with FDA approval available (on request)

Applications: Pulp < 5%, recycled paper pulp, water, waste water,

bulk material, sludge

Approvals: ATEX (on request)



Knife Gate Valve as End-Of-Line Valve, Type ET (Orbinox)

DN (mm): 50 - 750 (higher on request)

PN (bar) / ANSI: up to 10 / CL 150 Body materials: 1.4408, cast iron Seat materials: EPDM, Viton®, NBR,

metal, PTFE

Connections: Lug type

• Acc. to TAPPI Standard

 Bi-directional sealing with exchangeable profile seal

Integrated flange seal ring

One-piece body

Type HK: Seal ring flange-

Type EX: Seal ring integ-

rated into the body

Uni-directional sealing

mounted from the outside

Drillings acc. to DIN available

Seal ring integrated into body

Uni-directional sealing

Options: Bonnet design, V-port for regulation, flush connections

Applications: Pulp < 5%, liquids containing solids, recycled paper pulp,

water, waste water, bulk material, sludge

Approvals: ATEX (on request)





Knife Gate Valves

Pulp Knife Gate Valve, Type TK/TH/TL (Orbinox)

DN (mm): 50 - 1600

PN (bar) / ANSI: up to 25 / CL 300

Body materials: GG25, 1.4408,

special materials

Seat materials: Metal, PTFE, EPDM,

NBR, Viton®, special

materials

Connections: Wafer

Options:

V-port for regulation, flush connections

Applications: Pulp < 18%, liquids containing solids, recycled paper

pulp, waste water, bulk material, sludge, rejects, syrup

(seed magma)

Approvals: ATEX (on request)

 Through-going valve plate

Bi-directional sealing

• TK: Seal ring flangemounted from the outside

• TL: Seal ring integrated

Round inlet and larger

rectangular outlet
Hardened gates

into body

• TH: reinforced construction

up to 25 bar



Reject Valve, Type CR (Orbinox)

DN (mm): 100 - 600 (higher on

request)

PN (bar) / ANSI: up to 10 / CL 150 **Body materials:** GG25, 1.4408

Seat materials: Polyurethane, metal

Connections: Wafer

Options: Transition pieces square/round, bonnet design

Applications: Especially in recycled paper processing, heavy rejects,

glass, clamps, sand, junk traps

Approvals: ATEX (on request)



Knife Gate Valves



Reject Valve, Type DT (Orbinox)

DN (mm): 100 - 600 (higher on

request)

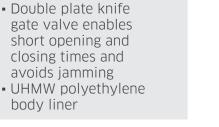
PN (bar) / ANSI: up to 10 / CL 150 Body materials: Steel, stainless steel

Seat materials: Metal
Connections: Wafer

Applications: Heavy rejects, glass, metal parts, junk traps, especially

in recycled paper processing and pulper applications

Approvals: ATEX (on request)



For abrasive mediaWith elastomer sleeves





Lined Knife Gate Valves, Type VG (Orbinox)

DN (mm): 50 - 900 (higher on request)

PN (bar) / ANSI: up to 10 / CL 150

Body materials: GGG40

Seat materials: NR, EPDM, NBR

Connections: Wafer

Options: Splash-guard

Applications: Mining industry, chemical industry, solid-containing and

abrasive sludges and slurries

Approvals: ATEX (on request)





Safety Valves



Safety Relief Valves, Type 1216 B (TOSACA)

DN (inch): 1/2"x1" - 1"x1"

PN (bar) / ANSI: 16, 40 / CL 150, 300 Temperature (°C): -196 up to +350

Body materials: A351 CF3M

Seat materials: Viton®/PTFE, AISI 316L Spring: AISI 302, 17-7 PH

Disc: AISI 316L

Connections: Flanged, treaded,

DIN or ANSI

Design standards: EN12516-1, EN4126-1/7

DIN 259, ANSI B2.1

Options: Lifting device, packed lifting lever, heating jacket,

ECTFE coating

Applications: Steam, gases, liquids

Approvals: CE, ATEX, ISO9001:2008, AD2004 A4 (on request),

UV-Stamp (on request)

available on request **TOSACA**



Safety Relief Valves, Type 1415 (TOSACA)

DN (inch): 1/2"x1" - 12"x16" ANSI: CL 150 - 2500 Temperature (°C): -196 up to +555

Body materials: A216 WCB, A351 CF3M,

duplex

Seat materials: Viton®, PTFE, AISI 316L

Spring: 1.8159, AISI 302

Disc: AISI 316L

Connections: Flanged acc. to ASME/

ANSI B16.5

Design standards: API STD 526,

ASME section VIII

Up to ANSI600: 1/2"x1" - 12"x16"

Special materials

■ ≥ ANSI900: 1 1/2"x2 - 4"x6"

 Special materials available on request

CR - Cryogenic version

LP - Low pressure version



Options: Lifting device, packed lifting lever, open bonnet,

bellow seal, heating jacket, ECTFE coating

Applications: Steam, gases, liquids

Approvals: CE, ATEX, ISO9001:2008, AD2004 A4 (on request),

UV-Stamp (on request)

Safety Valves



DIN Safety Relief Valves, Type 1400 DIN (TOSACA)

DN (mm): 15x25 - 400x500

PN (bar): 16 - 100

Temperature (°C): -196 up to +455

Body materials: Cast iron, carbon steel,

stainless steel, duplex

Seat materials: PTFE, Viton®, AISI 316L,

AISI 316L+Stellite

Spring: 1.8159, AISI 302

Disc: AISI 316L Connections: Flanged (DIN)

Design standards: EN12516-1, EN4126-1/7

Options: Lifting device, packed lifting lever, open bonnet,

bellow seal, heating jacket, ECTFE coating

Applications: Steam, gases, liquids

Approvals: CE, ATEX, ISO9001:2008, AD2004 A4 (on request),

UV-Stamp (on request)





DIN Safety Relief Valves, Threaded, Type 1216 (TOSACA)

DN (Zoll): 1/2"x3/4" - 2"x2"

PN (bar): 40

Temperature (°C): -196 up to +455

Body materials: A351 CF3M

Seat materials: PTFE, Viton®, AISI 316L

Spring: AISI 302, 17-7 PH

Disc: AISI 316L

Connections: BSP/NPT threads

Design standards: EN12516-1, EN4126-1/7

Special materials available on requestCR - Cryogenic version

C Clamp version

LP - Low pressure version

• C - Clamp version



ECTFE coating

Applications: Steam, gases, liquids

Approvals: CE, ATEX, ISO9001:2008, AD2004 A4 (on request),

UV-Stamp (on request)



Safety Valves



DIN High Pressure Safety Relief Valves, Type 1216 HP (TOSACA)

DN (inch): 1/2"x3/4" - 2"x2" PN (bar): 100, 250, 400 Temperature (°C): -196 up to +300

Body materials: A351 CF3M **Seat materials:** AISI 316L

Spring: Inconel X750, 17-7 PH

Disc: 17-4 PH

Connections: BSP/NPT threads

Design standards: EN12516-1, EN4126-1/7

DIN 259, ANSI B2.1

Options: Lifting device, packed lifting lever, heating jacket,

ECTFE coating

Applications: Steam, gases, liquids

Approvals: CE, ATEX, ISO 9001:2008, AD2004 A4 (on request),

UV-Stamp (on request)

PN100:
 1"x2" - 2"x2"
 PN250 - 400:
 1/2"x3/4" - 1"x1"

 TOSACA Safety relief valves



Pressure Reducing Valves (VALFONTA)

DN (mm): 8 - 150 PN (bar): 16 - 40 Temperature (°C): up to +250

Body materials: Ductile iron, cast steel,

stainless steel, bronze,

special materials

Connections: Threaded, flanged (DIN,

ANSI), welded ends

Applications: Steam, water, other liquids, oil, air, other gases

Approvals: CE, ATEX, ISO 9001:2015

European manufacturingShort delivery times

 Special executions according to customer requirements

 Special materials available on request

• CR - Cryogenic version



Excess Pressure Valves (VALFONTA)

DN (mm): 15 - 150 PN (bar): 16 - 40 Temperature (°C): up to +350

Body materials: Ductile iron, cast steel,

stainless steel, bronze, special materials

Connections: Threaded, flanged (DIN,

ANSI), welded ends

Steam, water, other liquids, oil, air, other gases

Approvals: CE, ATEX, ISO 9001:2015

European manufacturingShort delivery times

 Special executions according to customer requirements



Applications:

Plastic Valves



Plastic Butterfly Valves, Series EXTREME (CEPEX)

DN (mm): 65 - 300 **PN (bar):** 6 - 10

Temperature (°C): -30 up to +120

Body materials: PP-H, GR

Seat materials: EPDM, FPM (FKM)

Disc: PVC-U, PVC-C, PP-H, PVDF, ABS Stem: 1.4542 / 17-4 PH / AISI 630

Connections: Wafer, lug type

Applications: Shut-off and control of liquids
Approvals: CE, ACS, WRAS, ISO 9001, ISO 14001

Design acc. to EN ISO 16136





Plastic Ball Valves, Series EXTREME (CEPEX)

DN (mm): 10 - 100 PN (bar): 10 - 16

Temperature (°C): -30 up to +120

Body materials: PVC-U, PVC-C, PP-H, PVDF, ABS

Body O-ring: EPDM, FPM (FKM)

Seat materials: PTFE

Ball materials: PVC-U, PVC-C, PP-H, PVDF, ABS **Stem:** PVC-U, PVC-C, PP-H, PVDF, ABS

Connections: Female / male solvent socket,

female / male threaded, flanged, PE 100, socket weld

ends, butt weld ends

Design acc. to

EN ISO 16135:2007



Options: Lever with throttle plate, pneumatic and electric actuator

Applications: Shut-off and control of liquids
Approvals: CE, ACS, WRAS, ISO 9001, ISO 14001

Plastic Diaphragm Valves, Series EXTREME (CEPEX)

DN (mm): 15 - 50 PN (bar): 6 - 10

Temperature (°C): +5 up to +80

Body materials: PVC-U, PVC-C, PP-H, PVDF

Diaphragm/O-Rings: EPDM, FPM Stem: PPO + GF

Connections: Female / male solvent socket,

female / male threaded, flanged, PE 100, socket weld ends, butt weld ends

Applications: Shut-off and precise control of liquids Approvals: CE, ACS, WRAS, ISO 9001, ISO 14001

 Design acc. to EN ISO 16138:2007





Gate Valves



DIN Small Shut-off Gate Valves, Forged Design (BFE)

DN (mm): 15 - 50 PN (bar): 25/40

Body materials: 1.0460, 1.4571, LF2

Seat/wedge: Metal seat (depending on

body material)

Connections: Flanged Integral flanged ends Solid wedge design DN15-40

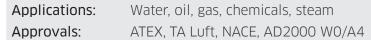
 Flexible wedge design **DN50**

Full bore

Bolted bonnet

 Face-to-face length DN15-32 acc. to EN558-1, basic line 1

• Face-to-face length DN40-50 acc. to EN558-1, basic line 26





ANSI Small Shut-off Gate Valves, Forged Design (JC Valves)

DN (inch): 1/2" - 2"

ANSI: CL 150 - 4500

Body materials: A105, F316, LF2, other

materials on request

Connections: Flanged, socket weld ends,

butt weld ends, threaded

Design standards: ASME B16.34 / API 602

Full bore

 Solid wedge design DN15-40

Flexible wedge design

DN50

Bolted bonnet up to CL 1500

Welded bonnet up to CL 4500

Testing acc. API 598

Options: Bellows seal, oil- and grease-free, cryogenic

Applications: Water, oil, gas, chemicals, steam

ATEX, TA Luft, NACE, AD2000 W0/A4 Approvals:



DIN Metal Seated Flat Gate Valves PN 10/16 and Oval Gate Valves PN 25 (Bombas Borja)

40 - 800 DN (mm): PN (bar): 10/16/25

Body materials: GGG50 (GG25 for PN10

types up to DN300) Epoxy coating RAL5017

Wedge materials: GGG50 (GG25 for PN10

types up to DN300) Epoxy coating RAL5017

seat rings:

Body and wedge Brass EN-12164 (AISI304; for DN350-800 bronze on

request)

Connections: Flanged

PN10/16: EN 558, GR14 Face-to-face:

PN25: EN 558, GR15

With inside steam

Fig. 31 = PN10Fig. 31N = PN16

Fig. 33 = PN25

 With outside steam Fig. 34 = PN10Fig. 34N = PN16 Fig. 36 = PN25

 Standard packing up to 120°C, for higher working temperatures packing will be changed



Options: Stem extensions, square caps, position indicator,

limit switches

Applications: Water, waste water

Gate Valves



DIN Metal Seated Flat Gate Valve Type with Bolted Cover, Fig. 38 ECO (Bombas Borja)

DN (mm): 50 - 300

PN (bar): 10 Body materials: GG25

Epoxy coating RAL5017

Wedge materials: GG25

Epoxy coating RAL5017

Body and wedge

seat rings: Brass EN-12164

Connections: Flanged

Face-to-face: EN 558, GR14

Options: Stem extensions, square caps, position indicator,

limit switches

Applications: Water, waste water

 Standard packing up to 80°C, for higher working temperatures packing will be changed





Rubber Lined Wedge Gate Valves, Fig. 50N (Bombas Borja)

DN (mm): 40 - 800

PN (bar): 10 - 16 (PN 25 Fig. 52)

Body materials: GGG50

Epoxy coating RAL5017

min. 250 μm

Wedge rubber

coating, sealings: EPDM, NBR

Connections: Flanged, socket connection

DN20-50 (Fig. 53)

Face-to-face: EN 558, GR14 or GR15 (Fig. 52)

Options: Stem extensions, square caps, position indicator, limit switches

Applications: Water, waste water

Approvals: WRAS

 Continuous internal and external coating of the body for improved corrosion protection

- Working conditions EPDM:
 - -1 to +16 bar,
- -10 to +100°C
- Working conditions NBR:
 - -1 to +16 bar,
 - -10 to +80°C





DIN Gate Valves, Cast Design (RT Valves)

DN (mm): 50 - 1000 **PN (bar):** 6 - 320

Body materials: 1.0619, 1.4408, LCC, other

materials on request

Temperature (°C): -196 up to +650

Connections: Flanged, welded ends

Design standards: EN12516

- Different face-to-face acc. DIN EN
- Bolted bonnet or pressure sealed
- Double plate, flexible or

solid wedge

Options: Bellows seal, ISO top flange (convertible), live loaded packing,

packing extraction system, stem and/or cryogenic extensions, position indicator, position indicator with limit switches, locking device, drain plug, bypass, pressure relief valve

Applications: Water, oil, gas, chemicals, steam

Approvals: ATEX, TA Luft (on request), AD2000 W0/A4 (on request)





High Pressure Valves

DIN High Pressure Double Plate Wedge Gate Valves (Wakmet)

DN (mm): 50 - 600
PN (bar): 40 - 630
Body materials: Forged steel
Connections: Flanged.

welded ends

Design standards: EN12516

2-plate design

With cover flange: up to PN100

 With self pressure cover lock: PN160 and higher

Forged body and bonnet

 Sealing faces up to PN100 made of Cr-Ni-steel or Stellite; PN160 and higher: Stellite

Options: Live loaded packing, position indicator, position indicator

with limit switches, locking device, drain plug, bypass,

pressure relief valve

Applications: Steam, water, gas, oil, condensate

Approvals: ATEX, TA Luft (on request), AD2000 A4/HPO (on request)



DIN Forged Steel Shut-off and Control Globe Valves with Gland Seal or Bellows Seal (Wakmet)

DN (mm): 15 - 300

PN (bar): 40 - 630 (bellows seal

up to PN160)

Body materials: Forged steel

Connections: Flanged, socket weld

ends, butt weld ends,

threaded

Design standards: DIN

 Graphite packing or bellows seal

- Straight pattern or Y-type
- Shut-off or throttling plug
- With cover flange: up to PN160
- As bayonet lock without cover: PN250 (DN15-50) and higher
- With self press
- With self pressure cover lock: PN250 (DN65) and higher
- Sealing faces up to PN160: Cr-Ni-steel or Stellite; PN250 and higher: Stellite

Applications: Steam, water, gas, oil, condensate

Approvals: ATEX, TA Luft on request, AD2000 A4/HPO on request





High Pressure Valves



DIN Forged Piston Check and Piston Closing Check Valves (Wakmet)

DN (mm): 15 - 300 PN (bar): 40 - 630 Body materials: Forged steel

Connections: Flanged, socket weld

ends, butt weld ends,

threaded

Design standards: DIN

• With cover flange: up to PN160

 With screwed cover: PN250 (DN15-25) and higher

 Self pressure cover lock: PN250 (DN32) and higher

Check disc with closing spring

 Sealing faces up to PN160 made of Cr-Ni-steel or Stellite; PN250 and higher: Stellite



Applications: Steam, water, gas, oil, condensate

Approvals: ATEX, TA Luft on request, AD2000 A4/HPO on request

DIN Swing Check Valves in Forged Design (Wakmet)

DN (mm): 50 - 600 **PN (bar):** 40 - 630

Body materials: Various forged materials **Connections:** Flanged, socket weld ends,

butt weld ends

Design standards: DIN

With cover flange: up to PN100

 With self pressure cover lock: PN160 and higher

 Sealing faces up to PN100 made of Cr-Ni-steel or Stellite; PN160 and higher: Stellite

Applications: Water, steam, gas, oil, condensate

Approvals: ATEX, TA Luft on request, AD2000 A4/HPO on request



Globe Valves



DIN Shut-off and Control Globe Valves with Gland Seal or Bellows Seal (LDM Valves)

DN (mm): 15 - 400 **PN (bar):** 16 - 40

Temperature (°C): -60 up to +400

Body materials: 1.0619 (Type UV226) /

1.4581 (Type UV236), LCB, other materials on request

Gland seal: Graphite packing equipped

with backseat - Type S

Bellows seal: Stainless steel bellows with

safety graphite packing - Type R

Trim material: Stainless steel

Connections: Flanged Design standards: DIN

Gland seal: Series UV226-S & UV236-S

- Bellows seal: Series UV226-R & UV236-R
- Straight through
- Pressure balanced plug from DN200
- Flow characteristic: on/off, linear

Position indicator





Options: Control plug, oil- and grease-free, ASTM body/bonnet

material, non explosive execution

Applications: Water, oil, gas, chemicals, low pressure steam

Approvals: ATEX on request, TA Luft on request, AD2000 A4/W5 on request

DIN Shut-off and Control Globe Valves "Stellite Version" with Gland Seal or Bellows Seal (LDM Valves)

DN (mm): 15 - 400 **PN (bar):** 16 - 40

Temperature (°C): -60 up to +550

Body materials: 1.0619 (Type UV227) /

1.4581 (Type UV237), LCB, other materials on request

Gland seal: Graphite packing equipped

with backseat

Bellows seal: Stainless steel bellows with

safety graphite packing

Plug/seat hard CrNiMoTi/CrNiMn, CrNiMoTi/

overlay execu- Stellite 6, Stellite 6, Stellite 6,

tions: 13Cr/Stellite 6

Connections: Flanged
Design standards: DIN

Gland seal: Series
 UV227-S & UV237-S

 Bellows seal: Series UV227-R & UV237-R

 Straight through, with hard metal overlay seat and spiral-wound cover gasket

 Pressure balanced plug from DN200

 Flow characteristic: on/off, linear

Position indicator



Applications: Steam, water, gas, oil, condensate

Approvals: ATEX on request, TA Luft on request, AD2000 A4/W5 on request

Globe Valves



ANSI Forged Shut-off and Control Globe Valves (JC Valves)

DN (inch): 1/2" - 2"

ANSI: CL 150 - 4500

Body materials: A105, F316, LF2, other

materials on request

Connections: Flanged, socket weld ends,

butt weld ends, threaded

Straight throughReduced bore

Design standard: ASME B16.34 / API 602

Testing acc. API 598

Design standard: ASME B16.34

Straight through

on/off, linear

• Flow characteristic:

With hard metal overlay



Options: Y-type, bellows seal, oil- and grease-free, cryogenic

Applications: Water, oil, gas, chemicals, steam **Approvals:** ATEX, TA Luft, NACE, AD2000 WO/A4

ANSI Shut-off and Control Globe Valves with Gland Seal or Bellows Seal (JC Valves)

DN (inch): 1/2" - 20"

ANSI: CL 150 - 2500 (bellows seal

up to CL 900)

Body materials: A216 WCB, A352 LCB, A351

CF8M, other

materials on request

Connections: Flanged, butt weld ends

Applications: Steam, water, gas, oil, condensate **Approvals:** ATEX, TA Luft, NACE, AD2000 W0/A4



Strainers



DIN and ANSI Strainers in Cast or Forged Design

DN (mm): 15 - 400 / 1/2" - 36"

PN (bar): 16 - 40 / CL 150 - 2500

Body materials: GG25, GGG40, 1.0619 (A216

WCB), A352 LCB, 1.4408 (A351 CF8M), 1.4581, other materials on request; forged body executions on

Y-type

available

ASME B16.34

CL 900 - 2500

• Different mesh sizes

Pressure seal design

• Face-to-face length acc.

to EN 558-1 Series 1 or

request

Mesh screen

material: Stainless steel

Connections: Flanged, female thread,

socket weld ends, butt

weld ends

Design standards: DIN / ASME B16.34

Options: Oil- and grease-free, drain plug

Applications: Water, oil, gas, chemicals, low pressure steam

Approvals: ATEX on request, TA Luft on request, AD2000 A4/W5 on re-

quest, NACE on request





Ball Segment and Globe Control Valves

Ball Segment Valves, Wafer Design, Centric / Eccentric, Type KVTW-A (Somas)

DN (mm): 25/2 - 250

PN (bar) / ANSI: 10 - 100 / CL 150 - 300

Temperature (°C): -196 up to +550 Body materials: 1.4408, Hastelloy® C,

titanium, special materials

Seat materials: PTFE (10% carbon), PTFE 53 (50% 1.4435), HiCo, PEEK

(high temperature resistant plastic), without seat (hard

chromed cover plate)

Connections: Wafer

Options: Manual override, safety interlock at the actuator Applications: Pulp stock up to 10%, steam, water, solid-containing

gases, rejects

Approvals: ATEX, FDA (on request), SIL, TA Luft (on request)



- Centric (type KVTW) or eccentric (type KVXW) design
- Low-Noise: noise reduction for high differential pressures
- V-groove (type KVMW) for high consistency pulp
- Particularly high Kv-values





SOMAS®

Ball Segment Valves, Wafer Design, Short Face-to-Face Dimension, Centric / Eccentric, Type KVTW-D (Somas)

DN (mm): 25/2 - 250

PN (bar) / ANSI: up to 25 / CL 150
Temperature (°C): -196 up to +550
Redy materials: 1.4408 Hastelland

Body materials: 1.4408, Hastelloy® C,

titanium, special materials

Seat materials: PTFE (10% carbon), PTFE 53

(50% 1.4435), HiCo, PEEK (high temperature resistant plastic), without seat (hard

chromed cover plate)

Connections: Wafer

Short face-to-face dimension

 Centric (Type KVTW) or eccentric (Type KVXW) design

 Low-Noise: noise reduction for high differential pressures

 V-groove (type KVMW) for high consistency pulp

 Particularly high Kv-values

Options: Manual override, safety interlock at the actuator

Applications: Pulp stock up to 10%, steam, water, solid-containing

gases, rejects

Approvals: ATEX, FDA (on request), SIL, TA Luft (on request)

Ball Segment and Globe Control Valves



Ball Segment Valves, Flanged Design, Centric / Eccentric, Type KVTF-L / KVTF-B (Somas)

DN (mm): 25/2 - 65 (KVTF-L).

80-700 (KVTF-B)

PN (bar) / ANSI: up to 50 / CL 150 - 300

Temperature (°C): -196 up to +550

Body materials: 1.4408, Hastelloy® C,

titanium, special materials

Seat materials: PTFE (10% carbon),

> PTFE 53 (50% 1.4435), HiCo, PEEK (high temperature resistant plastic), without seat

(hard chromed cover plate)

Connections: Flanged

Options: Manual override, safety interlock at the actuator Pulp stock up to 10%, steam, water, solid-containing Applications:

gases, rejects

Approvals: ATEX, FDA (on request), SIL, TA Luft (on request)

 Face-to-face dimension acc. to EN 558, series 15

Full bore

Centric (Type KVTW) or eccentric (Type KVXW)

design

Low-Noise: noise reduction for high differential pressures

V-groove (type KVMW) for high consistency pulp

 Particularly high Kv-values



Ball Segment Valves, Flanged Design, Short Face-to-Face Dimension, Centric / Eccentric, Type KVTF-C (Somas)

DN (mm): 80 - 400

PN (bar) / ANSI: up to 25 / CL 150 **Temperature (°C):** -196 up to +550

Body materials: 1.4408, Hastelloy® C,

titanium, special materials

Seat materials: PTFE (10% carbon).

PTFE 53 (50% 1.4435), HiCo, PEEK (high temperature resistant plastic), without seat

(hard chromed cover plate)

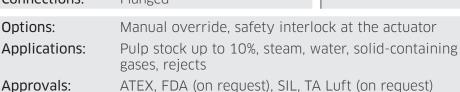
Connections: Flanged Short face-to-face dimension acc. to EN 558:2008 series 36

Reduced bore

• Centric (Type KVTW) or eccentric (Type KVXW) design

Low-Noise: noise reduction for high differential pressures

V-groove (type KVMW) for high consistency pulp







Ball Segment and Globe Control Valves

Ball Segment Valves, Medium and High Consistency Valves (Somas)

DN (mm): 100/150 - 350/400

PN (bar) / ANSI: 25 / CL 150 Body materials: 1.4408, CF8M

Seat materials: PTFE 53 (50% 1.4435), HiCo

Connections: Flanged

Specially designed for high stock consistencies > 10% Applications: Approvals: ATEX (on request), SIL (on request), FDA (on request),

TA Luft (on request)





Ball Segment Valves, Basis Weight Valve (Somas)

DN (mm): 50 - 350 PN (bar): 10 - 25

Temperature (°C): -196 up to +550 Body materials: 1.4408, Hastelloy® C,

titanium, special materials

PTFE (10% carbon). Seat materials:

PTFE 53 (50% 1.4435), HiCo

Connections: Wafer, flanged

Applications: Basis weight regulation, especially constructed

to meet the requirements of the paper industry

Approvals: ATEX (on request), SIL (on request), FDA (on request),

TA Luft (on request)

🗣 SOMAS

2- and 3-Way Control Valves

DN (mm): 15 - 300 PN (bar): 16 - 40

Temperature (°C): -20 up to +500

Body materials: Ductile iron, cast steel,

stainless steel

1.4028/1.4027, 1.4571/1.4581 Seat materials:

Plug materials: 1.4021/1.4027, 1.4571/1.4581

Kvs values: 1.6 - 1000 m³/h

Connections: Flanges acc. to EN 1092 Mixing or diverting function

Rangeability 50:1

 Leakage rate Class III/IV acc. to EN 1349

Based on the Somas ball

special electric actuators

segment valve

Complete unit - with

• Face to face-dimensions acc. to EN 558-1, series 1



Options: Bellow seal, perforated plug, oxygen and food execution Applications: Hot water, steam, power generation, chemical industry,

heating and ventilation

Approvals: CE, ATEX, ISO 9001:2015, TRD 100/110/201, TRB 801,

ISO 14001:2015, OHSAS

Ball Segment and Globe Control Valves



Globe Valves in 2- and 3-Way Design (Flowtec)

DN (mm): 4 - 200 / 1/4" - 8"

PN (bar) / ANSI: 10 - 63 / CL 150, 300

Temperature (°C): -196 up to +350

Body materials: GGG40, 1.0619, 1.4408 **Seat materials:** Stainless steel, stellited,

plastic layer

Connections: Flanged, threaded and

welded ends

Options: Bellow seal, extended stem, cryogenic design

Applications: Water, steam, oil, heat exchanger, gases

Approvals: ATEX



Adaptable Kv-values and characteristicsMixing or diverting

function



Micro Flow Valves (Badger Meter)

DN (mm): 15 - 50 / 1/4" - 2"

PN (bar): up to 340

Options:

Temperature (°C): -70 up to +530 Body materials: Stainless steel

Seat materials: Stainless steel, stellited,

Hastelloy®, tantalum

Kvs range: 0.0000015 - 5.1 Connections: Flanged, threaded

and special connections

Bellow seal, cooling fins, extended stem,

special packings

Applications: General industry, research, development, pilot plants,

liquids, gases, steam

Approvals: ATEX, SIL, TA Luft, FDA

 Variety of combinations of materials, innervalve and other components
 Globe or angle design







Tilting Disc Check Valves, Type RM (Orbinox)

DN (mm): 40 - 900 PN (bar): 10 - 40 Temperature (°C): up to +400

Body materials: 1.4408, special materials

Seat materials: Metal Connections: Wafer Robust design

Metal sealing

Eccentric design

 Quick closing reaction due to oblique sealing

Short face-to-face dimension

 Also suitable for low differential pressures





Options: Auxiliary spring, counterweight, hydraulic damping

device

Applications: White water, pulp < 5%, sludge, wastewater treatment

plants, food and beverage, water, steam, gas, air

Approvals: ATEX (on request)

Wafer Swing Check Valves, Type CSC / CSCF (ChemValve-Schmid)

DN (mm): 50 - 1000

PN (bar) / ANSI: 10 - 16 / CL 150

Body materials: 1.0619, 1.4408, 1.4404,

bronze, duplex, super

duplex, PP, PTFE + 25% glass

Seat materials: Metal, NBR, EPDM, Viton[®],

PTFE

Cast disc with opening limit

 Tight-closing already in case of low pressure difference by additional spring (DN50-200)

 Ring screw for mounting (standard)

(standard)

 Centering by outer diameter of body

 Short weight-saving overall length

Applications: Liquids, gases, steams

Approvals: AD2000 W0, FDA (on request), ATEX





Dual Plate Check Valves, Type DDC (ChemValve-Schmid)

DN (mm): 50 - 1000

PN (bar) / ANSI: 10 - 100 / CL 150 - 600 Body materials: 1.4301, 1.0038, 2.1090.

1.4404

Seat materials: Metal, NBR, EPDM, Viton®,

PTFE

 Eccentric disc for low zeta values and a minimum of pressure drop

 Equipped with special springs for minimal opening pressures and short closing times

Favorable for hydraulic installations

 Available in API overall lengths and according to ASTM materials

Applications: Liquids, gases, steams

Approvals: AD2000 W0, FDA (on request), ATEX





Check Valves



Check Valves, Type CSD / CVD (ChemValve-Schmid)

DN (mm): 15 - 350

PN (bar) / ANSI: 6 - 40 / CL 150 - 300 Body materials: 1.0619, 1.4408, 1.4404,

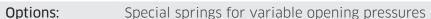
bronze, duplex, super duplex, Hastelloy®, titanium, Uranus®, etc.

Seat materials: Metal, NBR, EPDM, Viton[®],

PTFE

- Up to DN100: Cast-on centering collar with wide flange connection faces
- DN125-350: Centering through body (external diameter) or optionally with centering ring
- Guiding of valve plate by body ribs
- Protected spring bearing quality
- Body made of investment casting
- Broad connection faces secure optimal holding of the flange

sealings



Applications: Liquids, gases, steams

AD2000 WO, FDA (on request), ATEX Approvals:

ChemValve-Schmid



Check Valves, Forged Design, Type DSF (ChemValve-Schmid)

DN (mm): 15 - 100

PN (bar) / ANSI: 10 - 250 / CL 150 - 2500

Body materials: 1.0619, 1.4408

Seat materials: Metal, NBR, EPDM, Viton®,

PTFE

- From bar material
- Broad flange connection on both sides
- Guiding of valve plate by body ribs
- Centering through body (external diameter)

Applications: Liquids, gases, steams

AD2000 WO, FDA (on request), ATEX Approvals:









Non Return Nozzle Check Valves, Type CSL streamLiner (ChemValve-Schmid)

DN (mm): 15 - 100 (DN125-350 made

of solid material)

PN (bar) / ANSI: 10 - 250 / CL 150 - 2500 Body materials: Stainless steel casting as

well as special materials in

solid material

Seat materials: Metal, NBR, EPDM, Viton®, PTFE

Applications: Liquids, gases, steams

Approvals: AD2000 W0, FDA (on reguest), ATEX

Low pressure loss

Non-slam closure



PTFE Lined Check Valves, Type DTEF (ChemValve-Schmid)

DN (mm): 15 - 150 PN (bar) / ANSI: 10 / CL 150

Body materials: PTFE + 25% glass,

TFM/PTFE cond. FDA

Valve plate: PTFE + 25% glass,

TFM/PTFE cond. FDA

Seat materials: Without sealing, Viton[®],

EPDM, NBR

Connections: Mounting between flanges

acc. to DIN EN 1092-1

Applications: Corrosive and aggressive liquids and gases, food

Approvals: ATEX, FDA, SIL

 Hastelloy® spring coated with PTFE/PFA tube and welded on the ends





DIN Piston Check and Piston Closing Check Valves

DN (mm): 15 - 200 PN (bar): 16 - 40

Temperature (°C): -10 up to +400

Body materials: 1.0619 (Type ZV226/ZV227) /

1.4581 (Type ZV236/ZV237), LCB, other materials on request

Plug/seat

Type ZV226/236: In stainless steel

Plug/seat In hard overlay execution Type ZV227/237: (CrNiMoTi / CrNiMn,

CrNiMoTi / Stellite 6, Stellite 6 / Stellite 6.

Stellite 6 / Stellite 13Cr / Stellite 6)

Connections: Flanged Design standards: DIN

 Different design options available (with spring, without spring, check closing, check closing without spring)



Options: Oil- and grease-free, ASTM body/bonnet material Applications: Water, oil, gas, chemicals, low pressure steam

Approvals: ATEX on request, TA Luft on request, AD2000 A4/W5 on request

Check Valves



ANSI Forged Piston Check Valves (JC Valves)

DN (inch): 1/2" - 2"

ANSI: CL 150 - 2500

Body materials: A105, F316, LF2, other ma-

terials on request

Connections: Flanged, socket weld ends,

butt weld ends, threaded

Design standards: ASME B16.34 / API602

Options: Y-type, oil- and grease-free, welded bonnet

Applications: Water, oil, gas, chemicals, steam

Approvals: ATEX, TA Luft, NACE, AD2000 W0/A4





ANSI Swing Check Valves (JC Valves)

DN (inch): 2" - 40"

ANSI: CL 150 - 4500

Body materials: Cast body materials A216

WCB, A352 LCB, A351 CF8M, other materials on request Forged body executions on

request

Connections: Flanged, socket weld ends,

butt weld ends

Design standards: ASME B16.34

Options: Lever and weight

Applications: Water, oil, gas, chemicals, steam

Approvals: ATEX, TA Luft, NACE, AD2000 W0/A4



Bolted bonnetStraight pattern

• Testing acc. API 598

CL 900 - 2500



Check Valves



Ball Check Valves, Fig. 40 (Bombas Borja)

DN (mm): 40 - 600

PN (bar): 10

Body materials GG25, epoxy coating RAL5017, min. 250 µm

Body materials DN350-600: GGG50, epoxy coating RAL5017, min. 250 µm

Ball materials: NBR rubberized

Connections: Flanged, socket connection

DN25-80 (Fig. 44)

Face-to-face: EN 558-1 Series F48

Applications: Water, waste water

 Continuous internal and external coating of the body for improved corrosion protection

Working conditions NBR:

-1 to +16 bar,

Epoxy coating for

protection

improved corrosion

-10 to +80°C



DIN Swing Check Valves, Fig. 13 / 13N / 13N-F48 (Bombas Borja)

DN (mm): 40 - 700 **PN (bar):** 10/16/25

Body materials: GG25, epoxy coating

RAL5017 (Type 13), GGG40, epoxy coating RAL5017 (Type 13N)

Connections: Flanged

Face-to-face: 13+13N acc. manufacturer

standard

13N-F48: EN558-1 Series F48

Options: Hydraulic damper, counterweight, by-pass pipe

Applications: Water, waste water



DIN Swing Check Valves in Cast Design (RT Valves)

DN (mm): 50 - 1000 **PN (bar):** 6 - 320

Body materials: 1.0619, 1.4408, LCC,

other materials on request

Temperature (°C): -196 up to +650 Connections: Flanged, welded ends

Design standards: DIN EN12516

 Different face to face acc. DIN EN

 Bolted bonnet or pressure sealed

Options: Position indicator, position indicator with limit switches,

hydraulic brake, bypass, pressure relief valve, stop device

with handwheel

Applications: Water, oil, gas, chemicals, steam

Approvals: ATEX, TA Luft (on request), SIL, AD2000 W0/A4



Ceramic Valves, Wear Protection, System Solutions



All-Ceramic and Partially Ceramic Modular Ball Valves (Cera System)

Ball valves and sliding disc valves are getting highly wear-resistant due to the strategic use of ceramic components. These valves are mainly used for control and on/off applications for abrasive, corrosive, and solid-containing media like fly ash, lime milk, lime mud, kaolin, titanium dioxide, acids, alkaline solutions, pigments, etc. Due to its modular design, "Cera Valve" provides numerous different designs for many different application possibilities.

DN (mm): 15 - 300

PN (bar): up to 40 (higher pressures possible)

Temperature (°C): -30 up to +950

Compact or flanged design

Control and on/off valve

Flow rates from 1m³/h up to 2,800m³/h

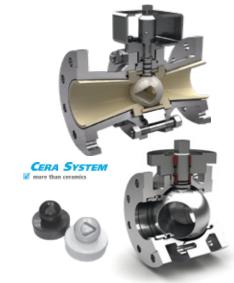
Spring-loaded sealing system with trunnion mounted and floating ball, also hardened metal or tungsten carbide ball available

Used ceramics: Aluminium oxide, zirconium oxide, silicon

carbide, silicon nitride

Approvals: TA Luft, SIL, ATEX

Applications: where corrosion, temperature and abrasion meet; chemical industry, pulp and paper industry, steel mills, power plants, waste incineration plants, pneumatic conveyor systems, liquors, MgO, fillers, rejects, sand, TiO₂, corrosive vapours.



Sliding Disc Valves (Cera System)

The sliding disc valve is dead space-free and gas tight and is particularly suitable for regulation of low volumes as well as dosing tasks. In the case of type SSC, the medium flows solely through ceramic (no metallic contact). Suitable for control and on/off applications.

Kev data:

DN (mm): 1 - 200 PN (bar): up to 40

Temperature (°C): up to +450 (higher on request)

Designs:

Design for chemical industry (type SSC)

Light-weight design (type SDL)

4-plate design (type SVC)

Applications:

Where corrosion, temperature and abrasion meet; highly corrosive media, pharmaceutical products, products for microelectronics (pure silicon), liquors, MgO, fillers, TiO₂, corrosive vapours.



Wear Protection of Pipes, Pipe Elbows, T/Y-Pieces, Orifice Plates, Reducers (Cera System)

The pipe elbows made of one-piece cast ceramic are nominal size conform. These pipe elbows are characterized by the use of premium ceramics, low weight, and step-free transition. The components can also be adapted to existing systems, without changing the pipelines.



Pinch Valves



Pinch Valves RF VALVE, Type BE / BO (RF Valves)

DN (mm): 25 - 1500 **PN (bar):** up to 20

Temperature (°C): -50 up to +150

Body materials: Cast iron, ductile iron,

cast steel, stainless steel,

aluminium

Sleeve materials: NR, SBR, EPDM, IIR, NBR, CR,

FPM, CSM

Actuation: Manual, pneumatic,

electric, hydraulic

Connections: Flanged

Options: SMART Valve wear monitoring sensor, opening tags,

conical tubes, fail close systems

Applications: Abrasive, corrosive, scaling or coating slurries, liquids and

powders, liquors in pulp production

Approvals: ATEX, PED, ISO 9001, FDA



- tube design with expansion arches
- Wide range of elastomer qualities
- In-line quick tube change
- Face-to-face dimensions according to DIN/EN, ISO, ASME
- Full bore
- Self-cleaning



Pinch Valves, Type aiRFlex® (RF Valves)

DN (mm): 25 - 1500 **PN (bar):** up to 4

Temperature (°C): -50 up to +150

Body materials: Cast iron, aluminium,

stainless steel on request

Sleeve materials: NR, SBR, EPDM, IIR, NBR, CR,

FPM, CSM

Actuation: Compressed air/liquids

Connections: Flanged

- Control and on/off applications
- Patented non-stretch tube design with expansion arches
- Wide range of elastomer qualities
- Simple and cost-effective solution for low pressures
- In-line quick tube change
- Face-to-face dimension according to ASME B16.1
- Full bore
- Self-cleaning

Options: SMART Valve wear monitoring sensor, fail close and

quick opening systems

Applications: Abrasive, corrosive, scaling or coating slurries, liquids and

powders

Approvals: ATEX, PED, ISO 9001, FDA





Bulk Solid Valves



Silo Outlet Valves, Type XC (Orbinox)

DN (mm): 50 - 600

PN (bar) / ANSI: up to 10 / CL 150 **Body materials:** GG25, 1.4408

Seat materials: EPDM, PTFE, Viton®,

silicone, metal

Connections: Wafer

Options: Bonnet design

Applications: As silo outlet valve, bulk material applications, bentonite,

starch, powder

Approvals: ATEX (on request), FDA (on request)

ORBINOX

Swing Disc Valves, Type SD (Orbinox)

DN (mm): 80 - 300 / 3" - 12"

PN (bar): up to 3

Body materials: Cast iron, stainless steel **Seat materials:** Soft seat, metal seat

Connections: Wafer

Applications: Highly abrasive media (e.g. bottom ashes), cleaner rejects

Approvals: ATEX (on request)

ORBINOX THE VEHICLE SAID THE SAID THE

Swing Knife Gate Valves, Type SG (Orbinox)

DN (mm): 80 - 400 / 3" - 16"

PN (bar): up to 3

Body materials: Stainless steel, steel **Seat materials:** Metal seat, soft seat

Connections: Flanged

Applications: Bulk material applications, bottom ashes, granulates,

starches, dusts

Approvals: ATEX (on request)



Square Port Knife Gate Valves, Type BC (Orbinox)

DN (mm): 150x150 - 600x600

(higher on request)

PN (bar): 1 (higher on request)

Body materials: Carbon steel, stainless steel **Seat materials:** EPDM, Viton®, silicone, metal

Connections: Flanged

Applications: Powdery media **Approvals:** ATEX (on request) Rectangular / square port low-pressure knife gate valve in welded construction

Special design of the bodyIdeal for use as silo outlet

Uni-directional sealing

 For particularly high switching cycles

conveyor systems

Rotary shaft feedthrough

For pneumatic

Dirt traps

valve





Bottom Outlet Valves

Bottom Outlet Valves (Guichon)

DN (mm): 20 - 400

PN (bar) / ANSI: 10 - 150 / CL 150 - 900

Body materials: Steel, stainless steel,

titanium, zirconium, Uranus® B6, Hastelloy®, Monel®, (super)duplex, carbon steel, Incoloy® (Reg.), Inconel® (Reg.)

Actuation: Manual, pneumatic,

electric, hydraulic

Options: Crust-breaking function, bellow sealed stem, flush

connections, surface polished inside and/or outside (CIP/SIP), heating jacket, injection control, dead space free

Applications: Liquids with/without solids, gases, powders, powdery media,

viscous and highly viscous media, liquors in pulp production

Approvals: ATEX, FDA, SIL, TA Luft, Fire-safe



Bottom Outlet Valves, Type KVBW / KVBF (Somas)

DN (mm): 80 - 400

PN (bar): 6

Temperature (°C): up to +200 Body materials: 1.4408

Seat materials: PTFE 53, Hostaflone® (FDA)

Connections: Flanged, wafer

Options: Flush connections, surface roughness Ra < 0.8 μm Applications: Liquids with/without solids, gases, powdery and

viscous media

Approvals: ATEX (on request), FDA (on request), SIL (on request),

TA Luft (on request)

Specially adapted inlet flange

 Shaft is manufactured in one piece to guarantee a backlash-free transfer of the turning movement

 Very flexible in design, adaptable to customer

requirements



Bottom Outlet Valves (Peter Meyer)

DN (mm): 40 - 150

PN (bar) / ANSI: 6 - 40 / CL 150 - 300

Temperature (°C): -60 up to +400

Body materials: 1.4404, Hastelloy®

Seat materials: PTFE, TFM glass, metal

Connections: Flanged, welded ends, threaded

Low cavity behind the seats

Antistatic device

Full bore

One-piece, laser welded body design

body design

Without body seal

Options: Double gland packing, heating jacket, flushing bore,

integrated cavity pressure relief system, pressure

equalizing hole

Applications: Liquids with/without solids, gases, powdery and

viscous media

Approvals: ATEX, FDA, SIL, TA Luft, SVGW, Fire-safe



Sampling Valves



Sampling Valves (Guichon)

DN (mm): 10 - 200 **PN (bar):** 10 - 100

Body materials: Steel, stainless steel,

titanium, zirconium, Uranus® B6, Hastelloy®, Monel®, (super)duplex, carbon steel, Incoloy® (Reg.),

Inconel® (Reg.)

Actuation: Manual, pneumatic, electric, hydraulic

Options: Crust-breaking function, bellow sealed stem, flush

connections, surface polished inside and/or outside (CIP/SIP), fire-safe design, heating jacket, injection

control, dead space-free

Applications: Liquids, solid-containing liquids, gases, powders,

powdery media, viscous and highly viscous media

Approvals: ATEX, FDA, SIL, TA Luft, Fire-safe



Sampling Valves, Type TP (Orbinox)

DN (mm): 25/40 PN (bar): 10

Temperature (°C): up to +120 Body materials: 1.4408

Seat materials: Soft seat (O-ring NBR),

others on request

Connections: Welding connection,

screw connection

• DN 25 for consistency of 0-5%

 Very flexible in design, adaptable to customer

requirements

 DN 40 for consistency of > 3-5% in case of high reject content or long fiber pulp (without flush connection)

 DN 40 for consistency of > 5-8% (with flush

connection)

Options: Pneumatic actuator, flush connections

Applications: Sampling for pulp stock

Approvals: ATEX (on request)





Pneumatic and Hydraulic Actuators

Pneumatic Actuators "Rack-and-pinion" (Actreg)

Body materials: Aluminium

Torques: up to 6,500 Nm

Temperature range: -30°C up to +100°C

Low temperature

version: -40°C up to +80°C

Extremely low tem-

perature version: -60°C up to +80°C

High tempera-

ture version: -15°C up to +150°C

 Aluminium body is hard anodized (outside and inside)

 Standard mounted travel stops for valve position adjustment in open and close position (+/- 5° at each end)

Multi-function position

indicator



Pneumatic and Hydraulic Actuators "Scotch-yoke" (Actreg)

Body materials: Aluminium

Torques: up to 250,000 Nm Temperature range: -20°C up to +80°C

Low temperature

version: -40°C up to +80°C

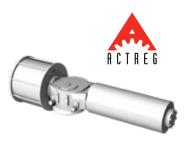
Extremely low tem-

perature version: -60°C up to +80°C

High tempera-

ture version: -20°C up to +120°C

 Due to a modular design, the actuator modules can be combined for different variations



Pneumatic and Hydraulic Linear Actuators (Actreg)

Body materials: Cast steel

Hydraulic

pressure: up to 140 bar

Pneumatic

pressure: up to 8 bar

Thrust: up to 400,000 N

Standard

temperature range: -20°C up to +80°C Low temperature: -45°C up to +80°C High temperature: -20°C up to +120°C Double or spring return action

 Weatherproof carbon steel housing

PTFE coated pneumatic cylinder



Pneumatic and Hydraulic Actuators



Pneumatic Actuators "Scotch-yoke" (Somas)

Body materials: Aluminium

Torques: up to 19.925 Nm Temperature range: -40°C up to +90°C

High tempera-

ture version: +120°C

 Standard mounted travel stops for valve position adjustment in open and close position (+/- 5° at each end)

Patented backlash-free torque transmission

- Low friction seals
- Optimized torque curve
- Mounting block for all accessories acc. to VDI/ VDE 3845



Options: Hand operated, locking device, larger air connections

Approvals: ATEX



Electric Actuators

Electric Actuators, Fail Safe, Type FS-FSQT (Schiebel)

Voltage: 24 V - 400 V AC/DC

Positioning time

Fail Safe: 1 - 10 sec.

90° turn actuator FSQT (Fail safe

Options:

quarter turn): up to max. 32,000 Nm Linear actuator FS: up to max. 190 kN

For on/off and control functions

 Easy to change positioning time

 Modulating operation possible due to decoupled fail-safe unit

For on/off and control

Adjustable speed and

Compact, space-saving

positioning time

construction

functions



Electric Actuators, Type CM (Schiebel)

Voltage: 24 V - 400 V AC/DC

(special voltages on request)

90° turn actuator

FSQT (Fail safe up to max. 15,000 Nm (higher for AB series)

Rotary actuator: up to max. 500 Nm

(higher for AB series)

or: up to max. 35 kN

Linear actuator: up to max. 35 kN (higher for AB series)

Options: Fail-safe, ATEX version, analog position

feedback signal 4-20 mA, bus connection

ATEX version, analog position feedback

signal 4-20 mA, bus connection, handwheel





Electric Actuators (AUMA)

Voltage: 24 V - 690 V AC/DC

90° turn actuator: up to max. 675,000 Nm **Rotary actuator:** up to max. 32,000 Nm **Linear actuator:** up to max. 270 kN

For on/off and control functions

 Standardized control technology for DCS

Construction acc. to ISO 5211 / DIN 3337

heating resistor,

manual override

limit switches,

Design:

Options: ATEX version, analog position feedback

signal 4-20 mA, bus connection



Electric Part-Turn Actuators (J+J)

Torque: 10 - 300 Nm

Voltage: 12 V - 230 V AC/DC

Ambient

temperature (°C): -20 up to +70 Body materials: Polyamide (PA6),

polypropylene (PP)

Degree of

protection: IP65, IP67

Options: Fail-safe with battery, positioning system for

control applications



Positioners



Digital Positioners

Design: Digital

Supply air

pressure: up to 10 bar

High air capacity at

minimum air consumption

Software: Diagnosis solutions for

maintenance, integration into existing diagnostic systems via DTM device

Auto-calibration (digital)

Modular construction

 Compact, well-proven, and flexible design

 Exhaust opening with thread connection







Options: HART, profibus, foundation field bus, partial stroke,

contactless sensor

Approvals: ATEX, SIL2

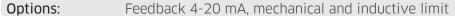
Analog Positioners, Type V200 (VAC)

Design: Analog

Supply air

pressure: up to 8 bar

- Optimized pilot valves for reduced air consumption and better air capacity
- Feedback units or option modules can be installed easily, even later, in the standard housing
- Simple calibration, external zero and span adjustment
- High gain pilot valve and super high gain pilot valve
- Built in gauge ports
- Bright visible indicator, flat or Dome style
- Stainless steel cam



switches, intrinsically safe, potentiometer, nickel coated,

TUFRAM® coated

Approvals: Nema 4X







Accessories



Limit Switches, Limit Switch Boxes

Portfolio: Available from all well-known manufacturers

Design: Mechanical, inductive, etc.

Mounting: Directly at the actuator/valve or via limit switch box at

the actuator



Solenoid Valves

Portfolio: Available from all well-known manufacturers

Design: NAMUR or Inline
Function: 3/2-, 5/2- or 5/3-way
Voltage range: up to 230 V AC/DC
Options: ATEX, cryogenic design



Pneumatic Accessories

Filter regulators
Throttle plates and silencers
Quick exhaust and booster valves
Valve islands



Mounting Accessories

Mounting kits for automation Mounting kits for manual valves Reducing sleeves and adapters Stem extensions



Filter Systems



KTF Filter Systems (Kapotek)

KTF filter systems are fully automated mechanical self-cleaning filter systems that are equipped with slotted, sintered mesh or perforated elements.

Туре	Capacity*	Separation size	Connections	Max. Pressure	Dimensions
	[m³/h]	[µm]	[mm]	[bar]	[cm]
KTF04-SP	30	25 - 1500	50	40	51 x 53 x 100
KTF09-TP	90	25 - 1500	50, 80	10	49 x 56 x 154
KTF16-TP	125	25 - 1500	80, 100	10	49 x 56 x 221
KTF32-TP	260	25 - 1500	150	10	49 x 56 x 339

*depending on medium / viscosity

KTF filters are designed for the filtration of a wide variety of different media, including high- and low-viscosity liquids, as well as abrasive or sticky media (e.g. coating colors, size, starch, paints, inks, adhesives, pigments and water).

KTF filter systems are successful in the market for years. They are suitable for new installations as well as for the conversion of existing filters.



Dango & Dienenthal Filter Systems

The Dango & Dienenthal filter range includes fully automatic, self-cleaning backwash filter systems as well as separation systems for liquid filtration. The systems that are built in Germany are based on a carefully developed design.

Туре	Capacity	Separation size	Connections	Max. Pressure
	[m³/h]	[µm]	[mm]	[bar]
DDF	5 - 10,500	≥ 5	50 - 1,000	63
RTF	80 - 4,000	≥ 5	100 - 1,000	63
RTF-S	3 - 100	≥ 5	40 - 100	63
JET-S	1 - 25	≥ 50	R 2"	10
JET	1 - 25,000	≥ 50	50 - 3,000	63
SPR	2 - 250	≥ 5	50 - 200	63
EF	5 - 10,000	≥ 10	15 - 1,000	63
DF	5 - 10,000	≥ 10	15 - 500	63



The main applications include power plants, building installations, the steel industry, paper industry, chemical industry, foodstuff industry, sewage plants and snow-making systems.

Dango & Dienenthal filter systems convince through a reliable filtration of solids, trouble-free operation and minimal cost of operation and maintenance.





BSW Filter Systems (SPA Filterteknik)

The BSW gravity strainer is a self-cleaning system, which works under atmospheric conditions for water flows up to 12,000 l/min. Typical applications are the mill's spray water supply, purification of sealing water from vacuum pumps, polishing of water from flocculation plants and cooling towers. The filter is also used for purification of intake water from lakes and rivers.

Type	Capacity	Separation size	Dimensions	
Туре	[m³/h]	[µm]	[cm]	
BSW10	36 - 96	63	64 x 108 x 120	
BSW14	48 - 132	80	89 x 142 x 154	
BSW17	90 - 210	100	110 x 172 x 184	
BSW22	120 - 360	140	135 x 221 x 232	
BSW25	180 - 450	180	145 x 252 x 265	
BSW30	240 - 700	250	175 x 298 x 311	



Due to the bottom-up cleaning technique, the BSW gravity strainer achieves an exceptionally high operational reliability and is more effective and efficient in retaining solids and fibres, which results in an improved final filtrate. Large differences in contamination as well as fibrous contaminants are easily handled by the BSW gravity strainer.

BSW filter solutions are available in a variety of sizes and a wide range of media options.