

VALVES PULP AND PAPER

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



Butterfly Valves



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

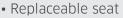
Applications: Water, seawater, waste water with low concentration of

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





Butterfly Valves



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



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





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:
Seal ring

materials:

Inconel®, Stellite, other materials on request
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: Seal ring

materials:

Inconel®, Stellite, other materials on request
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 modifiction 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





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,

cavity balancing hole

Applications: Water, oil, gas, chemicals

Approvals: ATEX





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

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

PN (bar): PN63 DIN EN butt weld ends

long (short on request) /

PN130

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

ends long - PN63

3-piece body

standard

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



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 boreFloating ball

Face to face dimensions:
 EN 558 Series 1 /

Series 27

Cavity balancing hole

nstruction to -196°C oil-

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

Special seats, double packing, Options:

oval handwheel (up to 2"), PN63/PN100

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

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

• Face to face dimensions:

Manufacturer standard

Cavity balancing hole

Full bore

Floating ball



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 Connections: Flanged

Options: Oil- and grease-free

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

Approvals: ATEX, AD2000 W0/A4





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

Manual, shut-off and

Easy to replace seats

without removing the

control valve

Tightness acc. to

ANSI Class V to VI

Full bore

actuator

• 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, oil, chemicals, low pressure steam

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





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)





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 stee

Carbon steel, stainless steel, titanium, Hastelloy®, Monel®

titaliiuiii, Hasteiioy , Monei

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

One- or two-piece bodyCast or forged steel

Full bore

"L" or "T" shapedType FT6/FZ6

for higher pressures

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

Options: 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





Sample Ball Valves (ICP Valves)

DN (mm): 25, 50 / 1", 2"

PN (bar): 63
Body materials: 1.4408
Seat materials: R-PTFE

Connections: Weld-on ends /

pipe elbows 90°

Options: Other diameters on request

Applications: Sampling, e.g. pulp

Approvals: ATEX

3-piece design

• Full bore

 Locking device as standard

 For various pipe diameters





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%

 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)







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 6% 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

Drillings acc. to DIN available

One-piece body

Type HK: Seal ring flange-

Type EX: Seal ring integ-

rated into the body

Uni-directional sealing

mounted from the outside

Seal ring integrated into body

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:

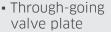
V-port for regulation, flush connections

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

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

(seed magma)

Approvals: ATEX (on request)



- Bi-directional sealing
- TK: Seal ring flangemounted from the outside
- TL: Seal ring integrated

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)

Round inlet and larger rectangular outlet

Hardened gates



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 Double plate knife gate valve enables short opening and closing times and avoids jamming
 UHMW polyethylene

body liner

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

in recycled paper processing and pulper applications

Approvals: ATEX (on request)







Knife Gate 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)



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

valve



Gate Valves



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 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

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





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







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

1.0619 (Type UV226) / Body materials:

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

Gland seal: Graphite packing equipped

with backseat - Type S

Stainless steel bellows with Bellows seal:

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

Pressure balanced plug

Flow characteristic:

Position indicator

from DN200

on/off. linear

• 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 overlay execuCrNiMoTi/CrNiMn, CrNiMoTi/

tions:

Applications:

13Cr/Stellite 6

Connections: Flanged Design standards: DIN

Stellite 6, Stellite 6/Stellite 6,

Steam, water, gas, oil, condensate

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





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



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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

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

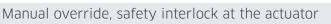
chromed cover plate)

Connections: Wafer

Options:

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



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

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

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

 Short face-to-face dimension acc. to

Reduced bore

Low-Noise: noise

reduction for high

design

EN 558:2008 series 36

Centric (Type KVTW) or

eccentric (Type KVXW)

differential pressures

V-groove (type KVMW)

for high consistency pulp



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

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

TA Luft (on request)



Ball Segment Valves, Basis Weight Valve (Somas)

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

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

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)





2- and 3-Way Control Valves

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

Temperature (°C): -20 up to +500

Body materials: Ductile iron, cast steel,

stainless steel

1.4028/1.4027, 1.4571/1.4581 Seat materials:

1.4021/1.4027, 1.4571/1.4581 Plug materials:

Kvs values: 1.6 - 1000 m³/h

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

Smaller nominal inlet

Based on the Somas ball

special electric actuators

segment valve

Complete unit - with

to outlet size

V-groove

Rangeability 50:1

 Leakage rate Class III/IV acc. to EN 1349

 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

Micro Flow Valves (Badger Meter)

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

PN (bar): up to 340

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

Options: Bellow seal, cooling fins, extended stem,

special packings

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

liquids, gases, steam

Approvals: ATEX, SIL, TA Luft, FDA



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



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

Control and on/off applications

tube design with expansion arches

qualities

ASME

Full bore

Self-cleaning

Patented non-stretch

Wide range of elastomer

• In-line quick tube change

Face-to-face dimensions

according to DIN/EN, ISO,

- 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





Check Valves



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 designMetal 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)

- 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, 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

Special springs for variable opening pressures

Applications: Liquids, gases, steams

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

ChemValve-Schmid
Valve Technology



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

DN (mm): 15 - 100

Options:

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

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





Check Valves



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 request), ATEX

Low pressure lossNon-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, 1.4581, LCB, other

materials on request

Plug/seat: In stainless steel, in hard

overlay execution (CrNiMoTi / CrNiMn, CrNiMoTi / Stellite 6, Stellite 6 / Stellite 6, 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



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

Safety Valves



DIN Safety Relief Valves, Type 1400 DIN (TOSACA)

15x25 - 400x500 DN (mm):

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)

Special materials available on request CR - Cryogenic version



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

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

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 request

CR - Cryogenic version

• LP - Low pressure version

• C - Clamp version



ECTFE coating

Applications: Steam, gases, liquids

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

UV-Stamp (on request)







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 manufacturing

according to customer

European manufacturingShort delivery times

according to customer

Special executions

requirements

Short delivery times

Special executions

requirements

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

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

Approvals: CE, ATEX, ISO 9001:2015



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

request

Mesh screen

material: Stainless steel

Connections: Flanged, female thread,

socket weld ends, butt

weld ends

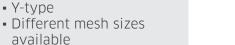
Design standards: DIN / ASME B16.34

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



- Face-to-face length acc. to EN 558-1 Series 1 or ASME B16.34
- Pressure seal design CL 900 - 2500





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 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

102 33 13

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



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 quarter turn): (higher for AB series) **Rotary actuator:** up to max. 500 Nm

(higher for AB series)

Linear actuator: up to max. 35 kN

(higher for AB series)

For on/off and control functions

Adjustable speed and positioning time

Compact, space-saving construction





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

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

Options:

protection: IP65, IP67

Fail-safe with battery, positioning system for

control applications



heating resistor, limit switches, manual override



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

