Coreline

Product presentation
Wastewater

Danish Manufacturer
High-quality and engineering

www.coreline.dk

CONTENT

WE LIVE FOR VALVES

Coreline is a different player in the Danish market. We don't just sell valves and ball valves. We also design, develop, and manufacture ball valves, butterfly valves, check valves, and assembly solutions at our own factory. With decades of experience in the industry, we ensure the highest possible quality and longevity of our products. This is a crucial parameter in our DNA.

At Coreline, we have high ambitions. We aim to deliver the best valves and continuously develop our range to achieve the highest possible standards in the market. At our workshop in Fredericia, we assemble and test each delivery. No goods leave our warehouse without inspection. We always strive for the shortest possible delivery time. With a large inventory, we usually offer next-day delivery.

Additionally, we have added new, patented details to our products, providing your company with the best and most sustainable solution. We have all the certificates and approvals expected, but perhaps more importantly, we have undergone audits. Large, recognized companies in the global market have approved Coreline based on in-depth reviews of, among other things, products, quality management, personnel conditions, and environmental policy.

Our skilled staff, who are specialists in valves and accessories, are always ready to advise and serve you. Use our extensive product knowledge and technical expertise to get serious advice on the most optimal solutions. We take pride in providing you with the best service around the clock, so the industry can keep running.

With a focus on delivery reliability, product quality, and competitive prices, we look forward to a dialogue about a good collaboration.

Coreline A/S

VALVES

Fig.41C | Knife gate valve

Dimension: DN50 - DN600
Pressure: PN2,5 - PN40
Material: Cast iron, ductile iron, stainless steel, Duplex, Superduplex
Sealing: NBR, EPDM, PTFE, Metallic
Tightness: Unidirectional, Bidirectional
Operation: Hand wheel, pneumatic, electric, hydraulic

”Many options
- let us advise you.”

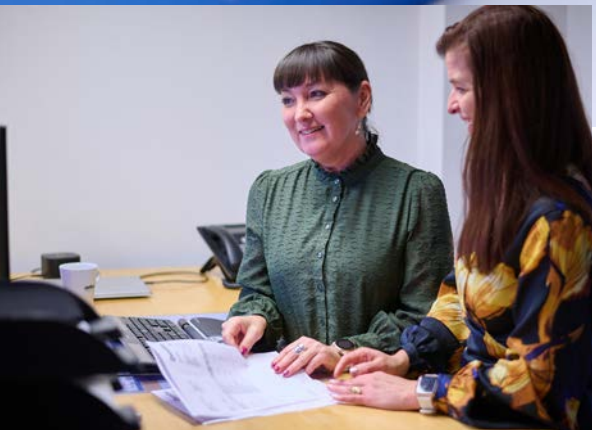
Fig.41D| Knife Gate Valve

Connection:	Lug
Nominal diameter:	DN50–DN1000
Standard differential pressure:	10 bar for DN50–DN250 6 bar for DN300–DN400 5 bar for DN450 4 bar for DN500–DN600 2 bar for DN700–DN1000
Flange connection:	EN1092 PN10, PN16. ASME B16.5 Class 150
Body:	Steel, stainless steel, and special materials
Gate:	Stainless steel and special materials
Seat:	EPDM, metal
Seals:	PTFE/synthetic fibers, PTFE, graphite, ceramic
Operation:	Hand wheel, gearbox, pneumatic actuator, electric actuator, hydraulic actuator

- Optimized to minimize deposits
- Full bore for optimal flow capacity
- Simple, compact design with short face-to-face length reduces weight impact on the piping system
- Automatic scraping function for impurities ensures excellent sealing performance
- The gate is polished on both sides to prevent sticking and damage to the seals
- The bottom edge of the gate is machined to provide a knife effect, cutting through the medium and ensuring improved sealing in the closed position
- Various seat designs available for different applications
- Upon request, the thickness or material of the gate can be modified for applications with higher temperature or pressure

”Products with long service life and innovative solutions for your needs.”

”Many years of experience in the world of valves.”



Documentation and reliable delivery are a given at Coreline.

Fig.41J | Resilient Seated Gate Valve

- Body, bonnet, and wedge made of ductile iron EN-GJS 400-15
- Full bore gate valve
- EPDM/NBR fully vulcanized wedge
- Use of low-friction sliding elements
- Wedge nut made of forged brass – replaceable
- Stainless steel stem with rolled thread
- Double stem bearing with low friction, operating both horizontally and vertically
- O-ring stem sealing with stuffing box protected from contact with the medium
- Stuffing box protected against ingress of dirt
- Body and bonnet bolts zinc-plated and protected with wax
- Epoxy coating minimum 250 microns in accordance with EN 14901, GSK RAL certified
- Product in accordance with EN 1074-1, EN 1074-2; EN 1171
- Flange connection in accordance with EN 1092-2 (DIN 2501), pressure PN10; PN16
- Face-to-face dimension according to EN 558-A1 F5 (DIN 3202) – catalogue no. 2002
- Face-to-face dimension according to EN 558-A1 F4 (DIN 3202) – catalogue no. 2111
- Product marking according to EN 19; EN 1074

Fig.68J | Ball Check Valve

- DN50–500
- Full bore
- Simple and compact design – high durability
- Flange connection in accordance with EN 1092-2 (DIN 2501), pressure PN10; PN16
- Face-to-face dimension (series 48) according to EN 558+A1 (DIN 3202)
- Body and cover made of ductile iron EN-GJS 400-15, EN 1563 (DIN 1693)
- NBR/EPDM fully coated ball (made of aluminum alloy or cast iron)
- O-ring seal between body and cover: NBR/EPDM
- Designed for use in pump system installations to prevent backflow
- Epoxy coating minimum 250 microns in accordance with EN 14901
- Body and cover with zinc-plated or stainless steel bolts protected with wax or plastic caps
- Products in accordance with EN 12050-4; EN 1074-1 and EN 1074-3
- Product 6516 designed for pump/pressurized installations
- Product 6526 designed for gravity-based installations
- Product marking according to EN 19; EN 1074
- Temperature: up to 70°C

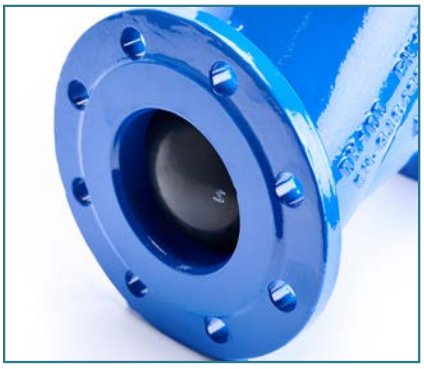


Fig.82UD | Strainer

Connection:	EN 1092-2 PN10/PN16
Size:	DN40–500
Pressure rating:	PN10, PN16
Face-to-face:	DIN 3202-F1
Material:	GGG50 / CF8M, SS304 / SS316
Design standard:	DIN 3356
Max. allowable temperature:	GGG50: ≤ 90°C
WCB / CF8M:	≤ 300°C

”Wide product range
– inquire about options.”

”Feel the quality
Explore the
difference.”

BUTTERFLY VALVES

Fig.211 | Rubber seat butterfly valve
Fig.211M | Rubber seat butterfly valve - Marine approved

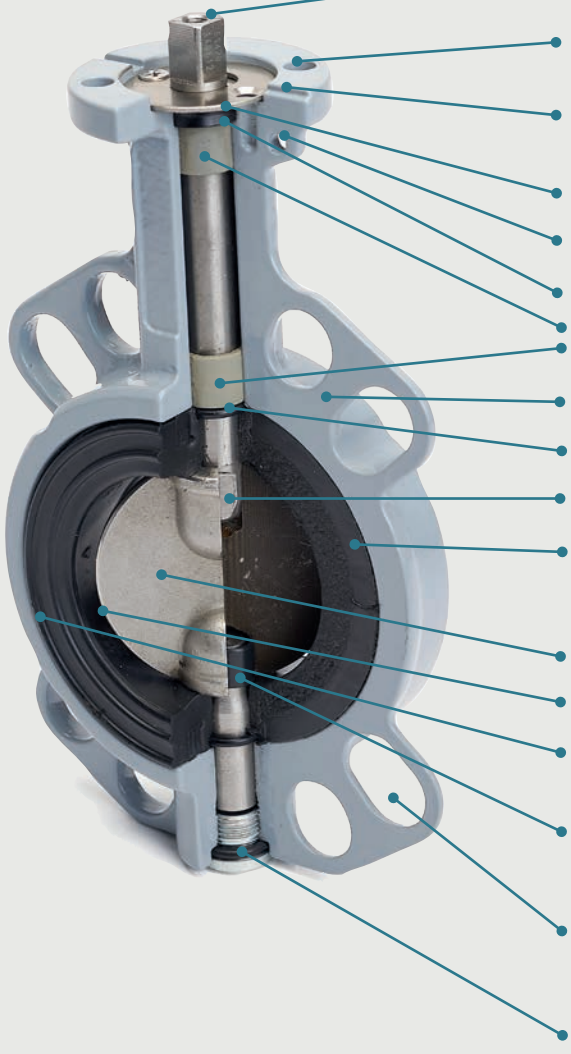
Connection:	Wafer, lug
Size range:	DN25-DN300
Pressure rating:	16 BAR: DN25-DN150 10 BAR: DN200-DN300
End connection:	EN1092 PN6, PN10, PN16 ANSI B16.5 Class150 JIS B2239 10K, 16K BS10 Table D, Table E
Face to face:	EN558 Series 20, API 609 Table 1
Tightness test:	ISO 5208 rate A, API 598 table 5 (medium: water)
Body:	GGG40, CF8M, CF8
Disc:	SS316, SS304, SS201, 2507/2205, Nylon/Halar coated Dl, C95800
Seat:	NBR, EPDM, FPM

- Can offer marine approved type.
- Without pin design: Double D transmission between disc and shaft is strong and reliable.
- Stainless steel retainer preventing stem blow-out.
- Hard back ring keeping the rubber from seat distortion.
- Multi-standard alignment holes suitable for various standard of flanges.

CE Ex ABS

Fig.223/224 | Rubber seat butterfly valve

Connection:	Fig. 223 wafer, Fig. 224 lug	
Size range:	DN25-DN2000	
Pressure rating:	Vacuum 0,01 bar absolute; 16 BAR: DN25-DN200 10 BAR: DN250-DN2000	
End connection:	DN40 - DN300	EN1092 PN10, PN16; ANSI B16.5 CLASS150; JIS B 2239 10K, 16K; BS10 Table D, Table E
Face to face:	EN558 Series 20, API 609 Table 1	
Tightness test:	ISO 5208 Rate A, API 598 Table 5 {medium: water)	
Body:	GGG40, SS316	
Disc:	SS201, SS304, SS316, SS316L, 2507, 2205, Nylon coated Dl	
Seat:	NBR, EPDM-H, FPM-A, FPM-B {steam resistant), PTFE, NBR-DVGW, HNBR, FEPM, FDA-EPDM, Silicone	



1. Groove to show direction of the disc. Heat number and material certificate. Threaded to make safe mounting of hand lever.
2. Top flange according to ISO5211, together with square stem, makes it suitable for direct mounting of actuators, without using bracket .
3. Relief track on the assembly flange protect the actuator if over pressure or wear makes the valve leak.
4. Stainless steel retainer preventing stem blow-out.
5. Unique detail make it convenient for adding identification or tag mark.
6. Weather sealing.
7. RPTFE/ graphite bearings provide excellent support.
8. GGG40 Ductile iron body, provides high mechanical properties.
9. O-rings by upper and lower shaft, are extra ordinary sealing to prevent leakage.
10. Square transmission between disc and shaft is strong and reliable.
11. UPR hard back ring for the seat, ensure good tolerances of sealing point, keep the rubber stationary even under vacuum conditions and let you mount the valve between flanges without seat displacement.
12. Streamlined disc for better Kv.
13. Unique curve sloop reduce the torque and increase life time.
14. Wider sealing diameter together with the centering eyes of the valve, makes safe sealing for all kind of flanges.
15. Patented solution on disc turning point with reinforced bearing inside the disc, where rotation occurs. This reduces friction and ensure perfect centering and long lifetime together with the strong fixing shaft.
16. Multi-standard alignment holes suitable for various standard of flanges: EN1092, PN10, PN16, ANSI B16.5 Class150, JI5 B2239 l0K, 16K, B510 table D, Table 10E.
17. Plug with O-ring as wheather and secondary sealing.

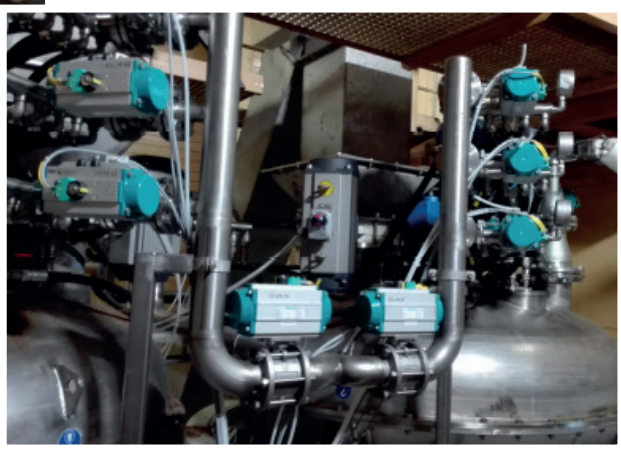
ACTUATORS

Fig.540 | Double acting pneumatic actuator
Fig.541 | Spring return pneumatic actuator

Principle: Rack and Pinion
Output/ 6bar: 7Nm to 9300Nm for Fig.540
6Nm to 3800Nm for Fig.541
Operating temp.: -20°c ~ +80°C : standard (NBR O-ring)
-40°C ~ +80°C : Low temperature (Silicone O-ring)
-20°c ~ +150°C: High temperature (FPM O-ring)
Air supply: 2,5 bar - 8 bar

- CE, ATEX and SIL approved.
- ISO5211, VDE/VDI and NAMUR connection standards.
- Visual indicator prepared for inductive sensor as standard.
- Patented pistons for longer life time.

ATEX, CE and SIL



ELECTRIC ACTUATORS

Fig.555 | Electric actuator

Torque:	30Nm - 6000Nm
Ambient temperature:	-25 ~ +70°C
Shell:	IP67. NEMA 4 og 6 Optional: IP68, Exd II CTS
Voltage:	220VAC/1ph (Standard) 380V/440V 3ph, 50/60Hz, ±10% 24/110/220VDC
Limit switch:	2 × open/close, SPDT, 250VAC 10A
Auxiliary limit switch:	2 × open/close, SPDT, 250VAC 10A
Travel (Standard):	Standard 90° ± 10°; 0° ± 270° on request

Fig.556 | Compact electric actuator

Torque:	30Nm - 5000Nm
Ambient temperature:	-25 ~ +70°C
Shell:	IP67. NEMA 4 and 6
Voltage:	220VAC/1ph (Standard); 380V/440V 3ph, 50/60Hz, ±10% 24/110/220VDC
Limit switch:	2 × open/close, SPDT, 250VAC 10A
Auxiliary limit switch:	2 × open/close, SPDT, 250VAC 10A
Travel:	Standard: 90° ± 10°; 0° ± 270° on request.

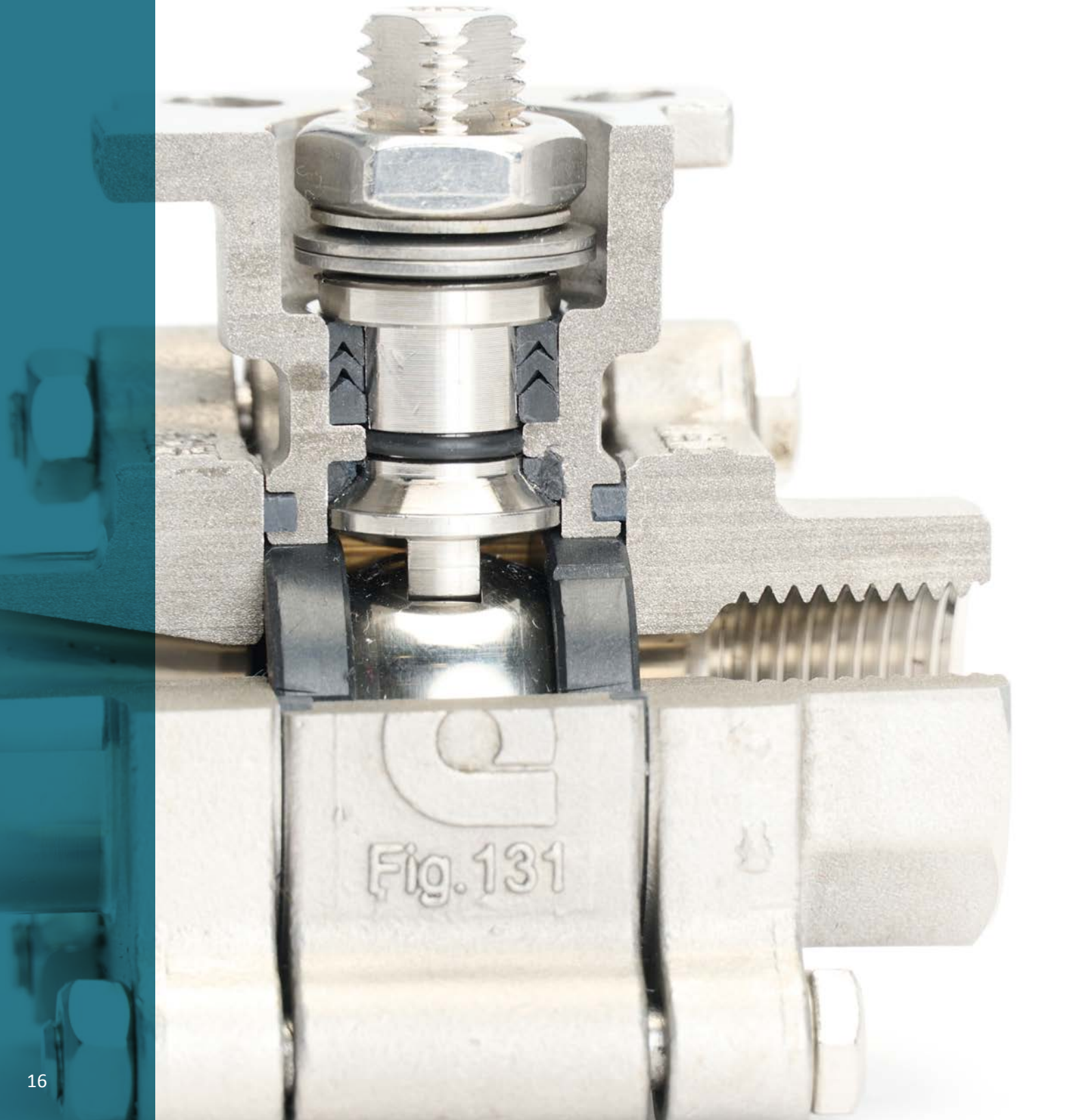
"Products manufactured in the right materials and quality."

Fig.55D | Electric actuator with supercapacitors for closing/opening in case of power failure

Torque:	130 – 2800 Nm
Ambient temperature:	-20°C - + 60°C
Switch time:	9~s60 second for 90° movement
Shell:	IP67. Optional IP68
Corrosion protection:	On request
Duty classification:	Class C according to EN15714-2
Voltage:	24 V DC, 230 V AC, 115 V AC, 360-460 V AC
Regulation:	4-20 mA built-in
Control protocols:	Modbus RTU, Profibus DP, CANopen, Profinet etc.

”Reliable technical support is a given at Coreline.”

”Focus on Details.”



SPECIAL SOLUTIONS

”Focus on reliability and customized solutions.”

BALL VALVES

Fig.120 | 2pc thread ends ball valve

Connection: Threaded ends BSPP - ISO228/1. Alternative NPT, BSPT
Size range: ¼"- 3
Pressure rating: ¼" - 2": PN63
2 ½" - 3": PN40
Face to face: DIN3202 M3
Body: Stainless steel SS316
Seat: PTFE
Operation: L-handle with or without safety lock T-handle

- Standard DIN3202 M3 face to face dimension.
- Full bore for better Kv/Cv value.
- Anti-blow out stem design.

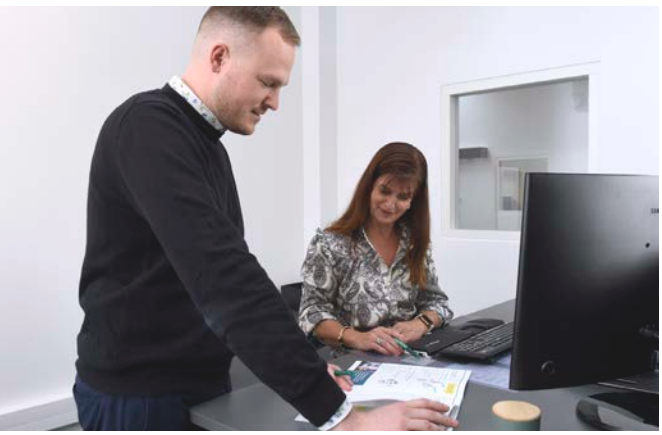
CE SIL ATEX, CE, SIL and EU1935/2004 (European food approval) for Coreline ball valves.

Fig.125 | 2pc thread ends ball valve with ISO5211 top flange

Connection: Threaded ends BSPP - ISO228/1. Alternative NPT, BSPT
Size range: ½" - 3"
Pressure rating: ½" - 2": PN63
2 ½" - 3": PN40
Pressure rating: DIN3202 M3
Body: Stainless steel SS316. Other materials available on request
Seat: PTFE. Other materials available on request RPTFE
Operation: Hand lever, pneumatic actuator, electric actuator
Top flange: ISO5211

- Standard DIN3202 M3 face to face dimension.
- Full bore for better Kv value.
- Solid ball for high performance tasks.
- Anti-static devices for ball - stem - body.
- Blow-out proof stem.
- Pressure relief hole in ball slot.
- ISO5211 direct mounting pad for easy automation.

CE Ex SIL ATEX, CE, SIL and EU1935/2004 (European food approval) for Coreline ball valves.

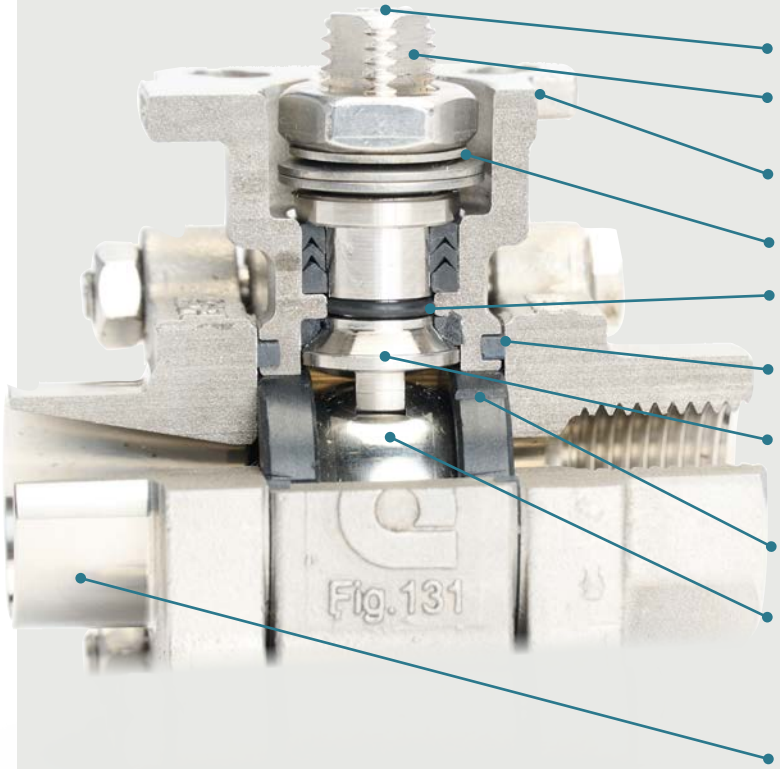


Coreline is building strong relationships with our customers based on delivering quality and reliable advice.

Fig.131 | 3pc high performance ball valve with 1S05211 top flange

Connection:	Threaded ends BSPP. Alternative NPT
	Butt weld ends - WCB: EN12627
	CF3M: DIN2463 / SMS3008 / ISO1127
	flanged ends - EN1092, ASME B16.5
	Socket weld ends - ASME B16.11
Size range:	Full bore:¼" - 4" or DN8 - DN100;
	Reduced bore:½" - 4" or DN10 - DN100;
Pressure rating:	Threaded / BW ends ¼" - 1": FB = 138bar
	1 ¼" - 2": FB = 103bar
	2 ½" - 4": FB = 69bar
	2 ½" - 4": FB = 69bar
	Flange ends DN15 - DN80 PN40
	DN100 - PN16 and PN40
Body:	Carbon steel, stainless steel 316
Ball/stem:	Stainless steel 316
Sealing:	PTFE with 25% carbon(standard)
	PTFE, PEEK, TFM1600 (available on request)
Top flange:	ISO5211

ISO15848-1 TA-LUFT SIL



Grove an the stem show the direction af ball.

Stem is square which is good for automation, having four driving points to increase strength.

Top flange according to ISO5211, together with square stem, makes it suitable for direct mounting af actuators, without using bracket ar coupling.
Lock cap to ensure life loaded sealing af the packing by stem.

FPM O-ring provides excellent sealing by air and vacuum applications.

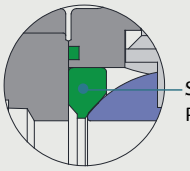
Fully encapsulated body sealings provide safe sealing and directly welding in line without disassembly.

Specially designed 45° slope of stem together with sealing made of PTFE+25% carbon, ensuring very long life time of primary sealing.

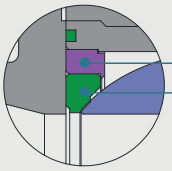
Tracks in seat to relieve pressure, reducing wear and operating torque.

Precisely machined and mirror polished ball surface for bubble tight shutoff with low operating torque.
Relief hole in stem slot af ball to balance the pressure in the body cavity.
Anti-static device for ball-stem-body.

CF8M ball valves with welding ends CF3M material as standard, which reduces inter-granular corrosion by welding.



DN8F-DN50F
(DN10R-DN65R)



DN65F-DN100F
(DN80R-DN100)

Fig.135 | 3pc ball valve with 1SO5211 top flange

Connection:	Threaded ends BSPP - IS0228/1	
	Butt weld ends - ISO1127, EN12627	
	Flanged ends - EN1092-1	
Size range:	¼" - 4" or DN8 - DN100	
Pressure rating:	Threaded / BW ends:	¼" - 2": PN63
		2 ½" - 4": PN40
	Flanged ends:	½" - 2": PN40/PN16
		2 ½" - 4": PN16
Face to face:	Threaded / BW ends:	DIN3202 M3
	Flanged ends:	DIN3202 F1
Body:	Stainless steel, carbon steel	
Seat:	PTFE. Other materials available on request	
Top flange:	ISO5211	

- Pressure relief hole in ball slot.
- Anti-static devices for ball - stem - body.
- Blow-out proof stem.

ATEX, CE, SIL and EU1935/2004

Fig.150 | 2pc flanged ball valve

Connection:	Flanged ends according to DIN EN1092-1	
Size range:	DN15 - DN200	
Pressure rating:	DN15 - DN50:	PN16/PN40
	DN65 - DN200:	PN16 (PN40 available on request)*
	*ANSIlS0/300 available on request.	
Face to face:	DN15 - DN100:	DIN3202 F4;
	DN125 - DN200:	DIN3202 F5
Body:	Stainless steel 316, carbon steel	
Seat:	PTFE with 25% carbon. PTFE, TFM1600 available on request	
Top flange:	ISO5211	

- Anti-static devices for ball - stem - body.
- Blow-out proof stem.
- Pressure relief hole in ball slot.
- Fire safe design.

ATEX, CE, SIL and EU1935/2004

Fig.161 | 3way thread ends ball valve with 1S05211 top flange

Connection:	Thread ends BSPP. Other threads available on request
Size range:	½" - 2"
Pressure rating:	1000psi
Body:	Stainless steel 316
Seat:	PTFE
Operation:	Hand lever, pneumatic actuator, electric actuator

- 4 seats design which allows input flow in all ends without the occurrence of bypass (leakage) behind the ball.
- Traceability: heat numbers on main parts of each valve. Material certificate EN10204-3.1 can be delivered on request

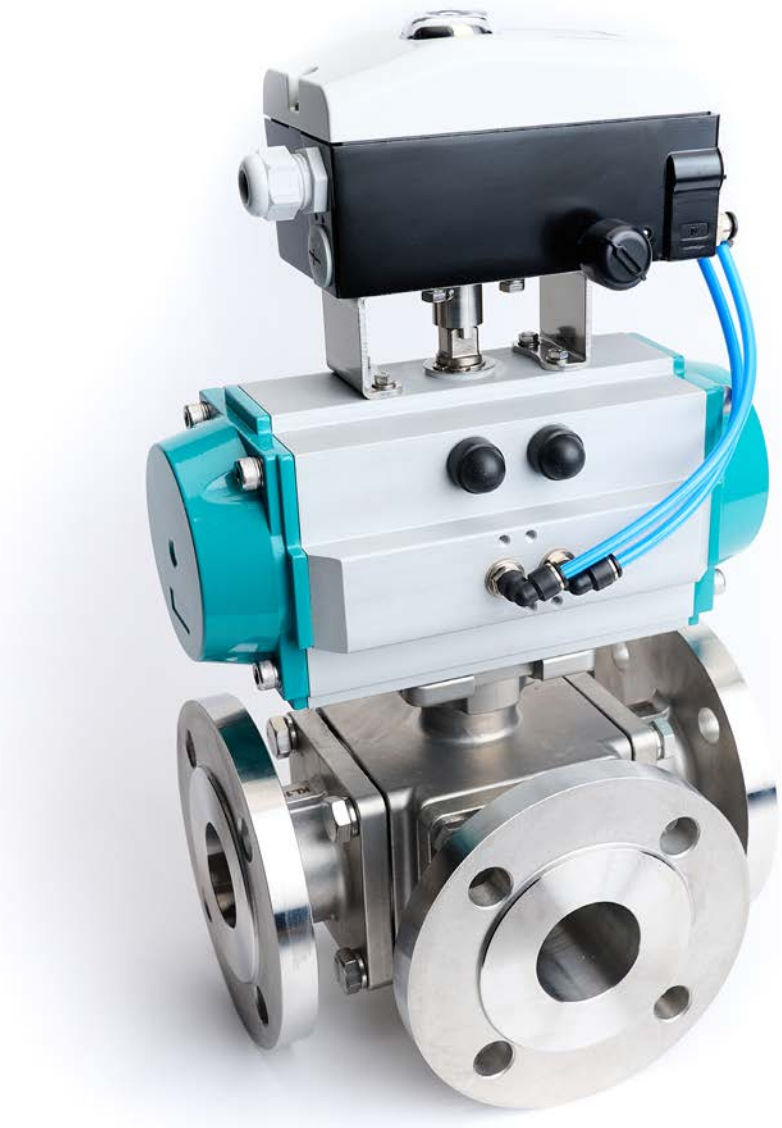
ATEX, CE, SIL and EU1935/2004

Fig.17N | Wafer ball valve

Connection:	Flanged ends according to EN1092-1
Size range:	DN15 - DN150
Pressure rating:	DN15 - DNS0: PN16/PN40 DN65 - DN150: PN16
Body:	Stainless steel, carbon steel
Seat:	PTFE. Alternative RPTFE, TFM1600
Top flange:	ISO5211
Operation:	Hand lever, pneumatic actuator, electric actuator

- Anti-static devices for ball - stem - body.
- Blow-out proof stem.
- Pressure relief hole in ball slot.

CE Ex SIL ATEX, CE, SIL and EU1935/2004



”A ball valve - but many options for the right solution.”


12-C-09
DN200 223 JIS NBR
Gear
2507 Super-Duplex
E-N
Coreline
12-C-06
12-C-03

HOW WE JOINTLY INCREASE YOUR COMPETITIVENESS

In all projects, we will always work with the customers to align expectations and ensure that the conditions where the valves are to be used are considered correctly for the solutions we suggest.

Assembly and testing takes place at our own workshop in Fredericia when all parts are made aviliable.

We do not always in our own range have all solutions, and therefore we utilise our wast knowledge and support of our network of suppliers.

JOIN THE WORKSHOP
In our workshop, we carry out and check all tasks to ensure functionality and that we keep, what we promise. In interaction with the rest of our organization, the workshop function enables us to partly provide you qualified advice but also technical sparring for all types of special solutions.

Together, we focus on increased competitive opportunities with a focus on operationally reliable solutions, a large readiness in relation to service as well as competitive prices at all times.

Contact us for serious and trustworthy sparring on phone 92441690 or mail@coreline.dk

CORELINE A/S

Take us just for the valves, but we can do so much more than that!

At Coreline, we are specialists in valves. Constant focus on quality and well-educated employees make us an attractive and preferred business partner at all times and supplier. A product never stands alone. Therefore, expect lots of know-how, trustworthy sparring and a business partner who focuses on the best solution for you.

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