



Coreline

Product Presentation

Danish factory in China
Quality at competitive price



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ABOUT US

Coreline is a 100% Danish factory located in Ma'anshan, known for its extensive expertise, quality production, and competitive costs.

Coreline started the factory in Wuxi in 2007, and step by step, we have developed new products and new markets. On Dec-1st-2023, we relocated to a brand new factory in Ma'anshan, south of Nanjing, which is a better position for our future development.

Coreline new factory represents a significant milestone for us. This upgraded facility includes:

- New painting facility, state of Art, imported from Denmark.
- New production line for ball valves.
- New automatic mounting machines for butterfly valves.
- New compressor for air supply.
- New automatic cleaning machine.
- New wastewater system.
- Production/warehouse from 3600sqm to 5000sqm; office from 900sqm to 1100sqm.

These investment ensures that Coreline can continue to produce and deliver quality products at competitive prices while maintaining environmentally responsible production and safe working conditions for our staff.

Coreline specialize in producing high-quality valves, catering to an international clientele. Our product range includes:

- Butterfly valves
- High performance ball valves
- Check valves

Additionally, Coreline has developed complementary products by cooperating with professional engineering team. All our products meet international technical and test specifications, and we ensure 100% product inspection to maintain optimal quality control.

Our technical expertise enables us to provide innovative solutions that benefit our customers, complemented by professional advice and service.

We recognize the importance of human resources and prioritize excellent working conditions for our staff. This focus enhances the mood, motivation, and service quality, benefiting both our employees and our clients.

Coreline sincerely expresses our gratitude for your cooperation and support. We will do our utmost to serve you, and together, we can be strong and successful.

You are always welcome to explore our production, quality and organization.



Ole Bjørn Jensen
Owner / Director

CERTIFICATES AND APPROVALS



CE approval



ATEX approval



ABS marine approval: American Bureau of Shipping



EU1935/2004 approved: EU Food Contact Regulations



FDA approved: U.S. Food and Drug Administration

**ISO15848-1
TA-LUFT**

Fugitive emission test according to ISO15848-1 / Attestation of TA-LUFT

**API607
ISO10497 Fire-safe**

API607/ISO10497 fire-safe qualification

SIL3

SIL3 approval

ISO27895

ISO27895 sealing performance test for vacuum application



ISO9001 quality management system



ISO14001 environmental management system



ISO 45001 — Occupational Health and Safety Management System



ISO50001 — Energy Management System



Efficient ERP

Coreline has implemented an efficient German ERP system to manage inquiries, quotations, orders, purchase, warehouse and production.

Barcodes in warehouse, production and quality control, ensure strictly organized flow, reliable delivery time and quality.

Warehouse

Coreline has many shelves, which are of great importance for expanding stock of components and finished goods, to improve delivery time and ensure better time for quality control.

Together with new ERP with barcode system, this investment make the whole flow from purchase to order sufficient and lead to better service.

QA

To avoid time consuming and expensive claims, Coreline focus continuously on quality. We want to have an outstanding reputation and we can only achieve this by delivering error-free products and good service.

INCOMING INSPECTION

Besides visual, functional and dimensional examinations, we also inspect the rubber shore hardness, rubber thickness, and analyze the metal and rubber chemical composition.

PROCESSING INSPECTION

In the production line, educated and qualified staffs follow the instructions to ensure quality is according to requirements. Quality assurance employees support the operators. Painting thickness is measured for every layer.

PRESSURE & FUNCTION TEST

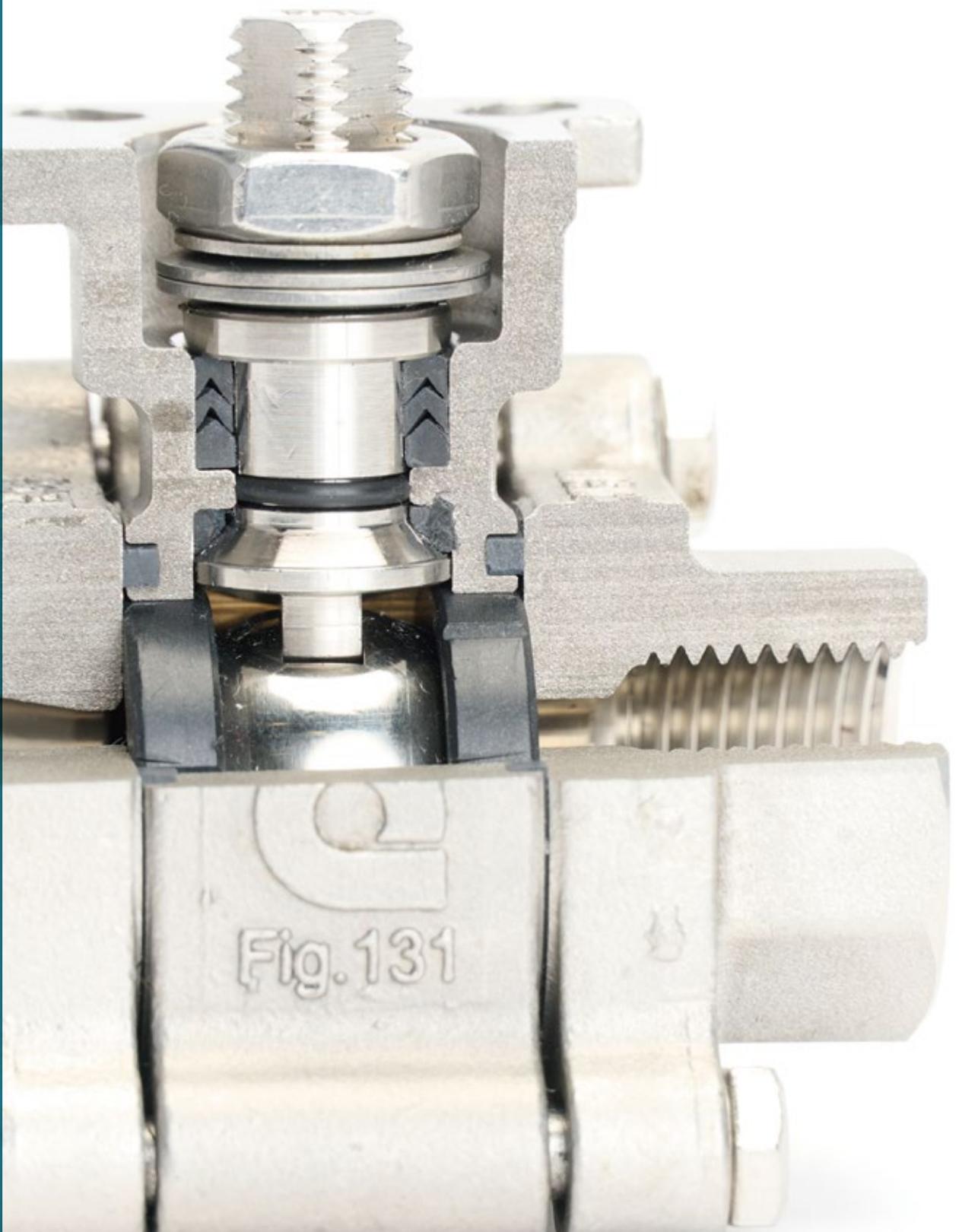
All mounted valves have to pass the pressure test. We also make 100% torque test and have records, which are saved in our company documentation for more than 10 years.

FINAL INSPECTION

All valves pass the final inspection. In the final inspection section, the finished valves are inspected for conformity to the customers' requirements. Hereafter the valves are approved and released for the shipping section.



Focus on
DETAILS



BALL VALVES

Fig.120 | 2pc thread ends ball valve

Connection: BSPP/BSPP, BSPP/BSPT (external). Alternative NPT
Size range: ¼" - 3"
Pressure rating: ¼" - 2": PN63
 2 ½" - 3": PN40
Face to face: DIN3202 M3
Body: Stainless steel 316
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.



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

Connection: BSPP/BSPP. Alternative NPT
Size range: ½" - 3"
Pressure rating: ½" - 2": PN63
 2 ½" - 3": PN40
Face to face: DIN3202 M3
Body/ball/stem: Stainless steel 316. Other materials available on request
Seat: PTFE. Other materials available on request
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.



Coreline ball valves:

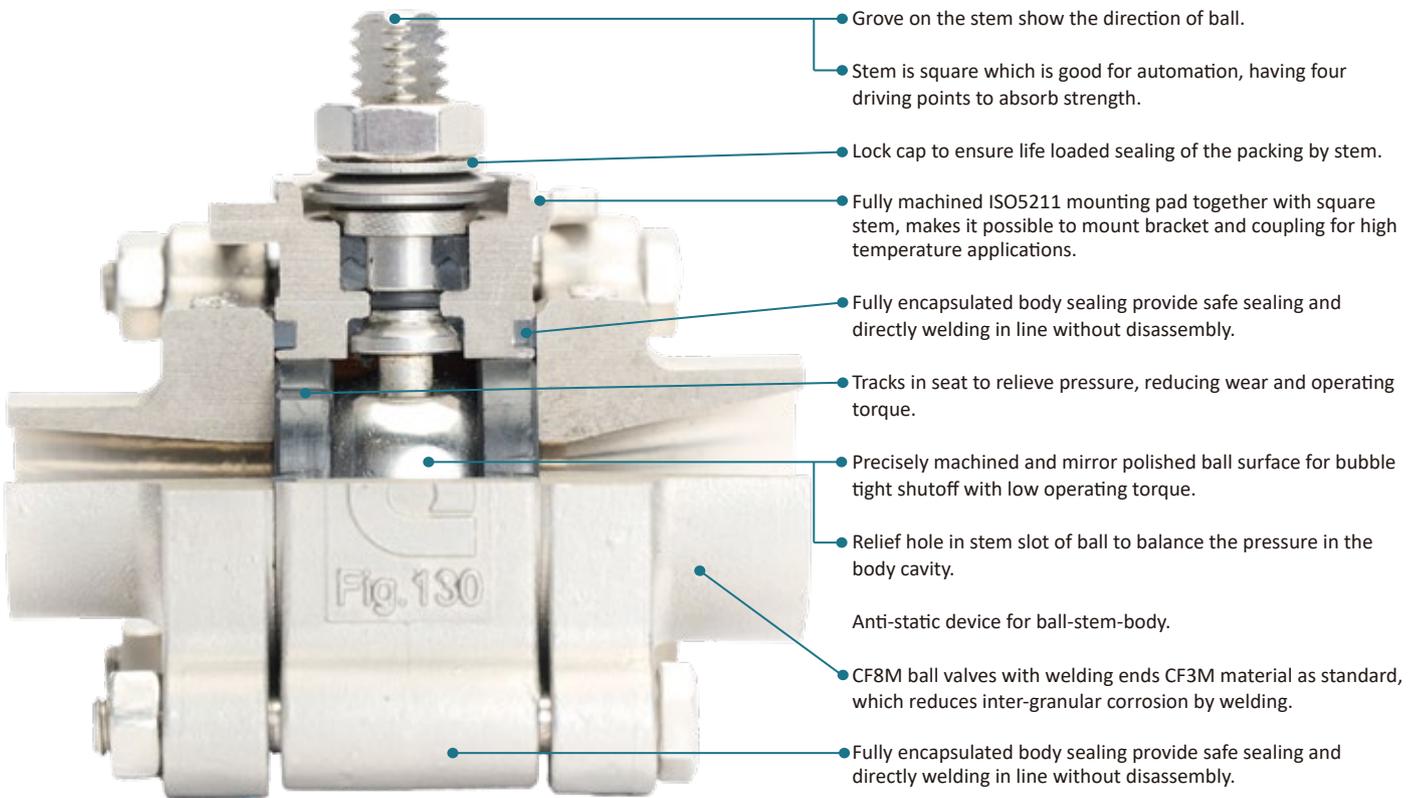
- Drawings designed by Coreline;
- Moulds invested/owned by Coreline;
- Foundry/machining sub-suppliers approved by Coreline;
- Assembled and tested by Coreline's OEM suppliers;
- 100% double quality control by Coreline.

Fig.130 | 3pc high performance ball valve

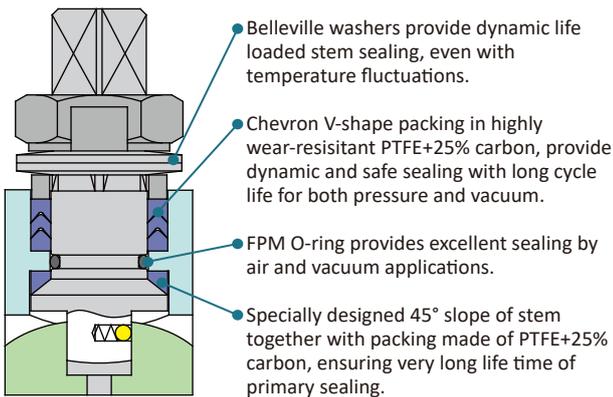
- Connection:** Thread ends BSPP - ISO228/1
Butt weld ends - WCB: EN12627
CF3M: DIN2463 / SMS3008 / ISO1127
- Size range:** Socket weld ends - ASME B16.11
Full bore: ¼" - 2" or DN8 - DN50
Reduce bore: ½" - 2 ½" or DN15 - DN65
- Pressure rating:** ¼" - 1": FB = 138bar / 2000psi
1 ¼" - 2": FB = 103bar / 1500psi
2 ½": RB = 103bar / 1500psi
- Body:** Carbon steel, stainless steel 316
- Ball/stem:** Stainless steel 316
- Sealing:** PTFE with 25% carbon. PTFE, TFM1600, PEEK available on request
- Operating:** Hand lever, pneumatic actuator, electric actuator



CE ISO10497 FDA API607 ISO15848-1 ISO10497 TA-LUFT ISO27895 SIL3



Sealing system



Seat and body sealing

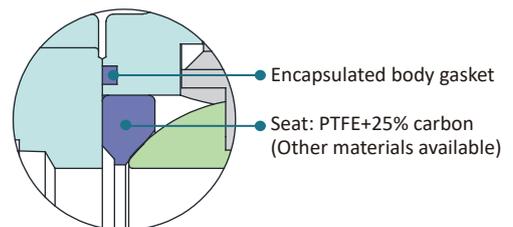
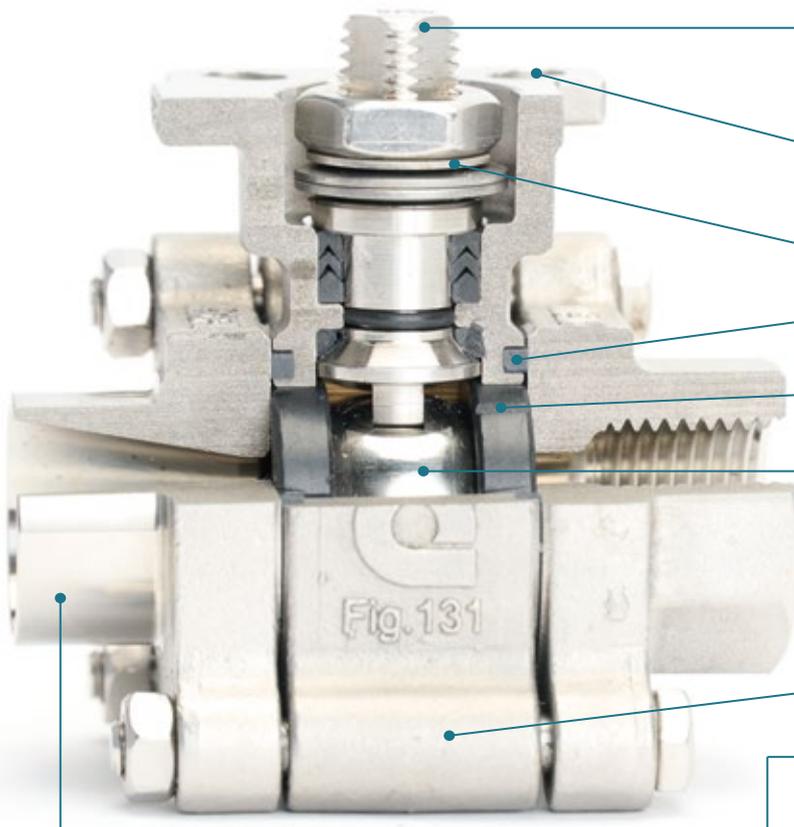


Fig.131 | 3pc high performance ball valve with ISO5211 top flange

- Connection:** Thread ends BSPP. Alternative NPT
 Butt weld ends - EN12627 / SMS3008 / ISO1127 / DIN2463 / DIN11850 /3A
 Ferrule ends - 3A, ASME BPE
 Flange ends - EN1092, ASME B16.5
 Socket weld ends - ASME B16.11
- Size range:** Full bore: ¼" - 4" or DN8 - DN100;
 Reduce bore: ½" - 4" or DN10 - DN100;
- Pressure rating:** Thread/BW/SW ¼" - 1": FB = 138bar / 2000psi
 1 ¼" - 2": FB = 103bar / 1500psi
 2 ½" - 4": FB = 69bar / 1000psi
- Flange
 DN15 - DN50: PN40/PN16
 DN60 - DN100: PN16
- Sanitary
 PN16
- Body:** Carbon steel, stainless steel 316
- Ball/stem:** Stainless steel 316
- Sealing:** PTFE with 25% carbon. PTFE, TFM1600, PEEK available on request
- Top flange:** ISO5211

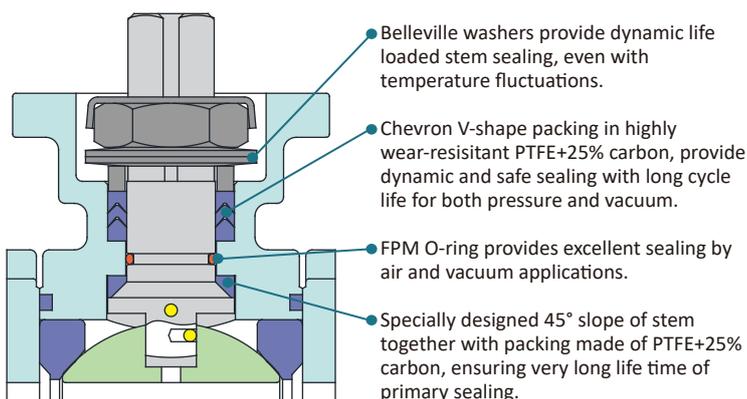


CE ISO 9001 FDA API607 ISO15848-1 ISO10497 TA-LUFT ISO27895 SIL3



- Grove on the stem show the direction of ball.
- Stem is square which is good for automation, having four driving points to absorb strength.
- Top flange according to ISO5211, together with square stem, makes it suitable for direct mounting of actuators, without using bracket or coupling.
- Lock cap to ensure life loaded sealing of the packing by stem.
- Fully encapsulated body sealing provide safe sealing and directly welding in line without disassembly.
- 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 of ball to balance the pressure in the body cavity.
- Anti-static device for ball-stem-body.
- Fully encapsulated body sealing provide safe sealing and directly welding in line without disassembly.
- CF8M ball valves with welding ends CF3M material as standard, which reduces inter-granular corrosion by welding.

Sealing system



Seat and body sealing

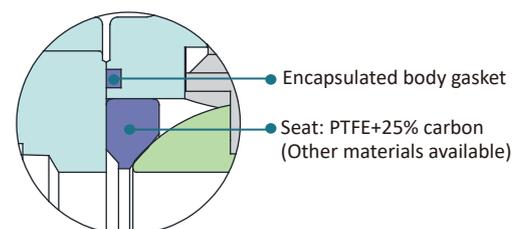


Fig.135 | 3pc ball valve with ISO5211 top flange

Connection: Thread ends BSPP - ISO228/1
Butt weld ends - ISO1127, EN12627
Flanged ends - EN1092-1

Size range: ¼" - 4" or DN8 - DN100

Pressure rating: Thread/BW ends: ¼" - 2": PN63
2 ½" - 4": PN40
Flanged ends: ½" - 2": PN40/PN16
2 ½" - 4": PN16

Face to face: Thread/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.

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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)
* ANSI150/300 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.

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Fig.151 | 2pc flanged ball valve - F1 long pattern

Connection: Flanged ends according to DIN EN1092-1

Size range: DN15 - DN100

Pressure rating: DN15 - DN50 PN16/PN40
DN65 - DN100 PN16

Face to face: DIN3202 F1 / BS EN558-1 R1

Body: Stainless steel 316, carbon steel

Seat: PTFE with 25% carbon, PTFE, TFM1600

Top flange: ISO5211

- Face to face dimension confirms to DIN3202 F1.
- Fire safe design.
- Anti-static devices for ball - stem - body.
- Blow-out proof stem.
- Pressure relief hole in ball slot.

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Fig.161 | 3way thread ends ball valve with ISO5211 top flange

Connection: Thread ends BSPP. Other threads available on request
Size range: ½" - 2"
Pressure rating: 1000psi
Body: Stainless steel 316
Seat: PTFE
Top flange: ISO5211
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.

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Fig.165 | 3/4 way ball valve with ISO5211 top flange

Connection: Flanged ends: DIN EN1092-1
 Butt Weld ends: Standard ISO1127
 Thread ends: Standard BSPP
 * Contact Coreline for other end connections.
Port: L port, T port, X port, I port
Bore: Full bore
Size range: DN15 - DN100 (BW/Thread ends: up to DN50)
Pressure rating: Flanged ends: DN15 - DN50 PN40/PN16; DN65-DN100 PN16
 Butt Weld/Thread ends: DN15 - DN50 PN63(1000psi)
Body: Stainless steel, carbon steel
Seat: PTFE. Other materials available on request
Top flange: ISO5211
Operation: Hand lever, pneumatic actuator, electric actuator



- Multi-port with full bore: 4 exchangeable end caps providing a diverse selection of flow-patterns and different options of end connection.
- 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 EN10204-3.1B can be delivered on request.

CE  FDA ISO15848-1 TA-LUFT SIL3



The ball valve provides
 different options of
FLOW-PATTERNS
 and
END CONNECTIONS

Fig.170 | Wafer ball valve with ISO5211 top flange

Connection: Flanged ends according to EN1092-1
Size range: DN15 - DN150
Pressure rating: DN15 - DN50: 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.

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Fig.15J/17J | V-port segment control ball valve

Connection: Fig.15J flanged; Fig.17J wafer
Size range: DN25 - DN500
Pressure rating: Flange - PN10/16/25; ANSI150
Wafer - PN10/16/25/40/63; ANSI150/300/600
Body: WCB, CF8, CF8M, CF3M (Other materials available on request)
Seat: Metal seat - CF8+HCr/304+STL, CF8M+HCr/316+STL, CF3+HCr/304L+STL
Soft seat (Only available for Fig.15J) - Devlon, PEEK, PCTFE
Tightness: Metal seat - Class V (standard); Class VI with tungsten carbide coated trim
Soft seat - Class VI

- Specifically designed for HVAC systems.
- V-segment ball provides large dynamic passing of fluid, including solid particles.
- Rotary-valve design allows the cutting of solids between the V-ball and the seats.
- Nearly equal percentage flow characteristic.

CE  SIL3



Coreline have:

- Many years of valve experience;
- Innovative R&D department;
- Self-designed drawings and our own moulds;
- Factory in China - Competitive price;
- 100% Danish owned - Quality assurance.

And more...

V-BALLS

Fig.130/131 | Control ball valve

Dimensions: DN10 - DN100 or 3/8" - 4"
V-cut: 15°, 30°, 60°, 90°
 * Special cutting available on request.
Material: SS316, SS304

- Regulation and 100% tightness with better flow characteristic.
- Customized ports offer flexibility to meet special requirements.
- High flow capacity - Straight pass through allows for maximum flow which is higher than traditional control valves.
- Compact and light weight solution compared to a traditional system.

CE   API607 ISO10497 ISO15848-1 TA-LUFT **ISO27895 SIL3**



EXPERIENCE
creates
DEVELOPMENT



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:	16bar for DN25 - DN150 10bar for DN200 - DN300
End connection:	EN1092 PN6, PN10, PN16 ASME 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 DI, 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  SIL3

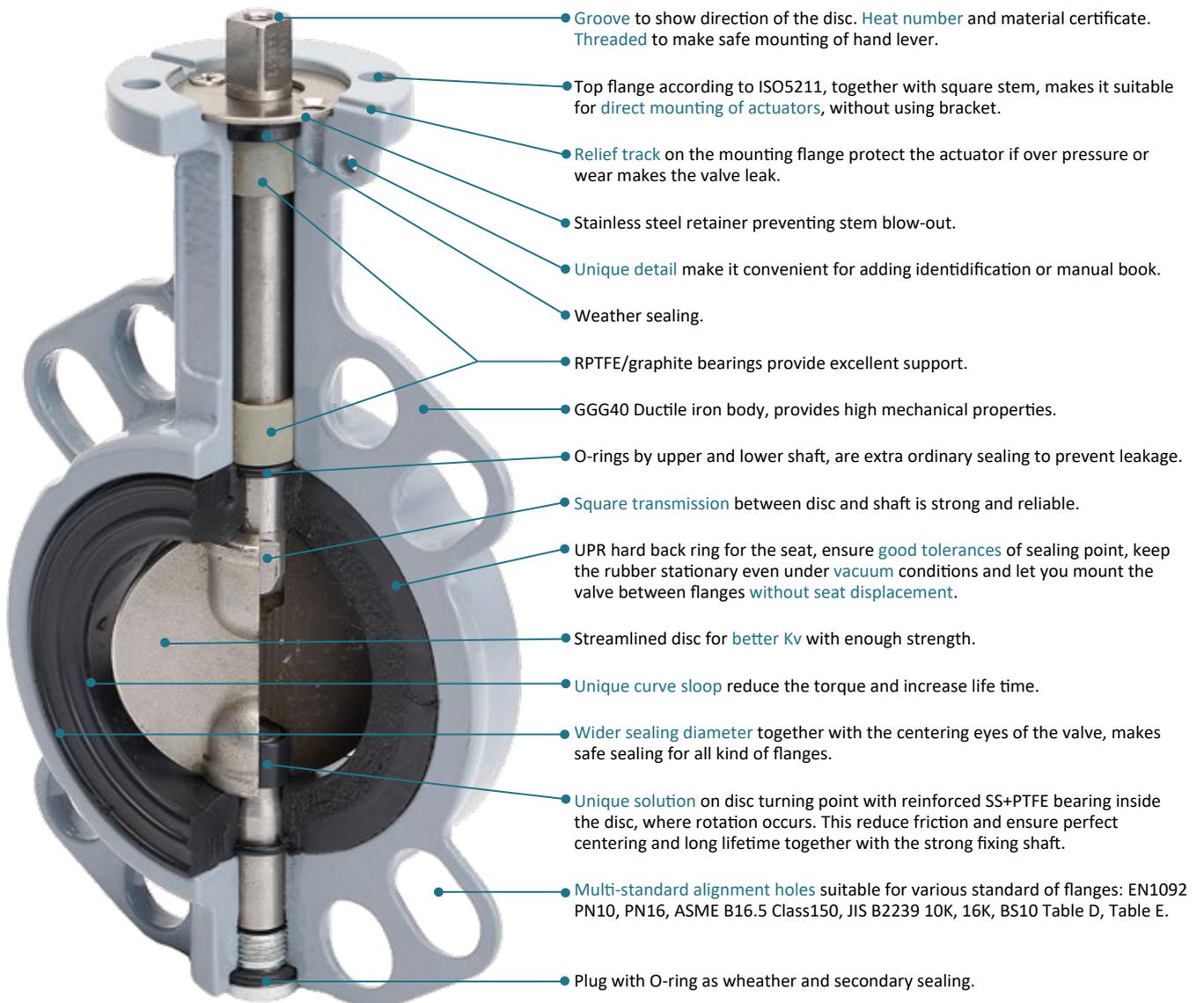


Fig.223/224 | Rubber seat butterfly valve

Connection:	Fig.223 wafer, Fig.224 lug
Size range:	DN25 - DN2000
Pressure rating:	Vacuum 0.001bar absolute; 16 bar for DN25 - DN200; 10bar for DN250 - DN2000
End connection:	DN25 - DN300 EN1092 PN10, PN16; ASME B16.5 CLASS150; JIS B 2239 10K, 16K; BS10 Table D, Table E DN350 - DN2000 EN1092 PN10, PN16; ASME B16.5 CLASS150; 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 DI
Seat:	NBR, EPDM-H, FPM-A, FPM-B (steam resistant), PTFE, NBR-DVGW, HNBR, FEPM, FDA-EPDM, Silicone



CE ABS FDA SIL3





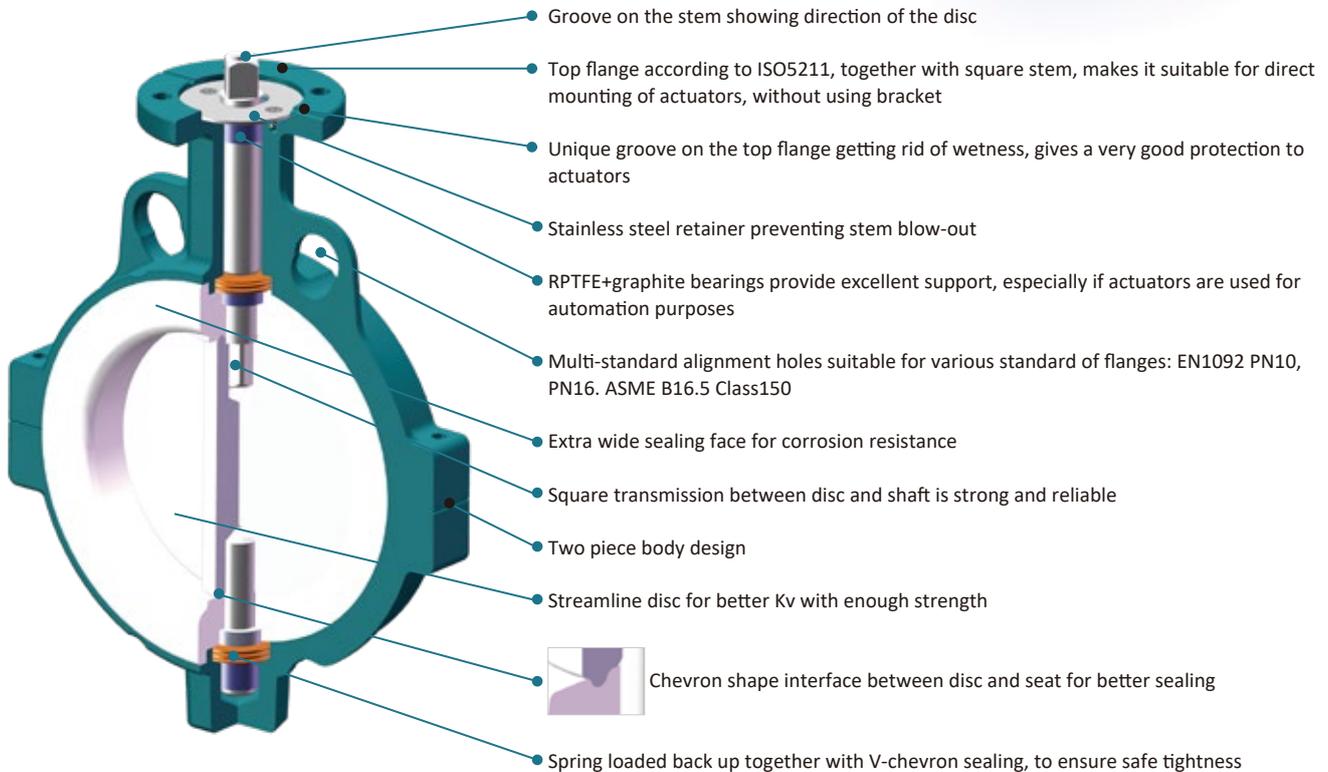
Coreline butterfly valves:

- 100% pressure test - ISO5208;
- 100% torque test - Coreline standard;
- Traceable heat number records;
- Visual inspection, QC.

Test records saved by Coreline for min. 5 years.

Fig.225/226 | 2pc PTFE lined butterfly valve

Connection:	Fig.225 wafer, Fig.226 lug
Size range:	DN50 - DN1000
Pressure rating:	DN50 - DN150 16bar DN200 - DN300 10bar DN350 - DN600 6bar DN700 - DN1000 4bar
End connection:	EN1092 PN10, PN16; ASME B16.5 CLASS125, CLASS150
Face to face:	EN558 Series 20, API609 Table 1
Body:	GGG40, WCB, SS316, SS304
Disc:	PTFE(SS316), PFA(SS316), SS304, SS316, SS316L, 2507, 2205
Seat:	PTFE with EPDM backup PTFE with Silicone bar PTFE with FPM backup

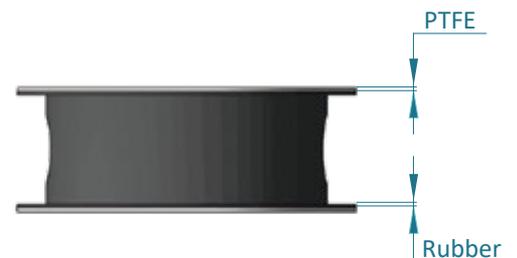


Seat options

Integrated seat - PTFE with EPDM/FPM backup

PTFE with EPDM backup seat: Temperature $\leq 110^{\circ}\text{C}$.

PTFE with FPM backup seat: Temperature $\leq 130^{\circ}\text{C}$.



Split seat - PTFE with Silicone bar

PTFE with Silicone bar seat: Temperature $\leq 160^{\circ}\text{C}$.



Fig.263 | High performance butterfly valve

Connection: Wafer, lug
Size range: DN50 - DN1200
Pressure rating: PN16, PN25, PN40;
 CLASS150, CLASS300
Face to face: API609 Table 2
Body: WCB, CF8, CF8M
Disc: WCB, CF8, CF8M
Seat: RPTFE

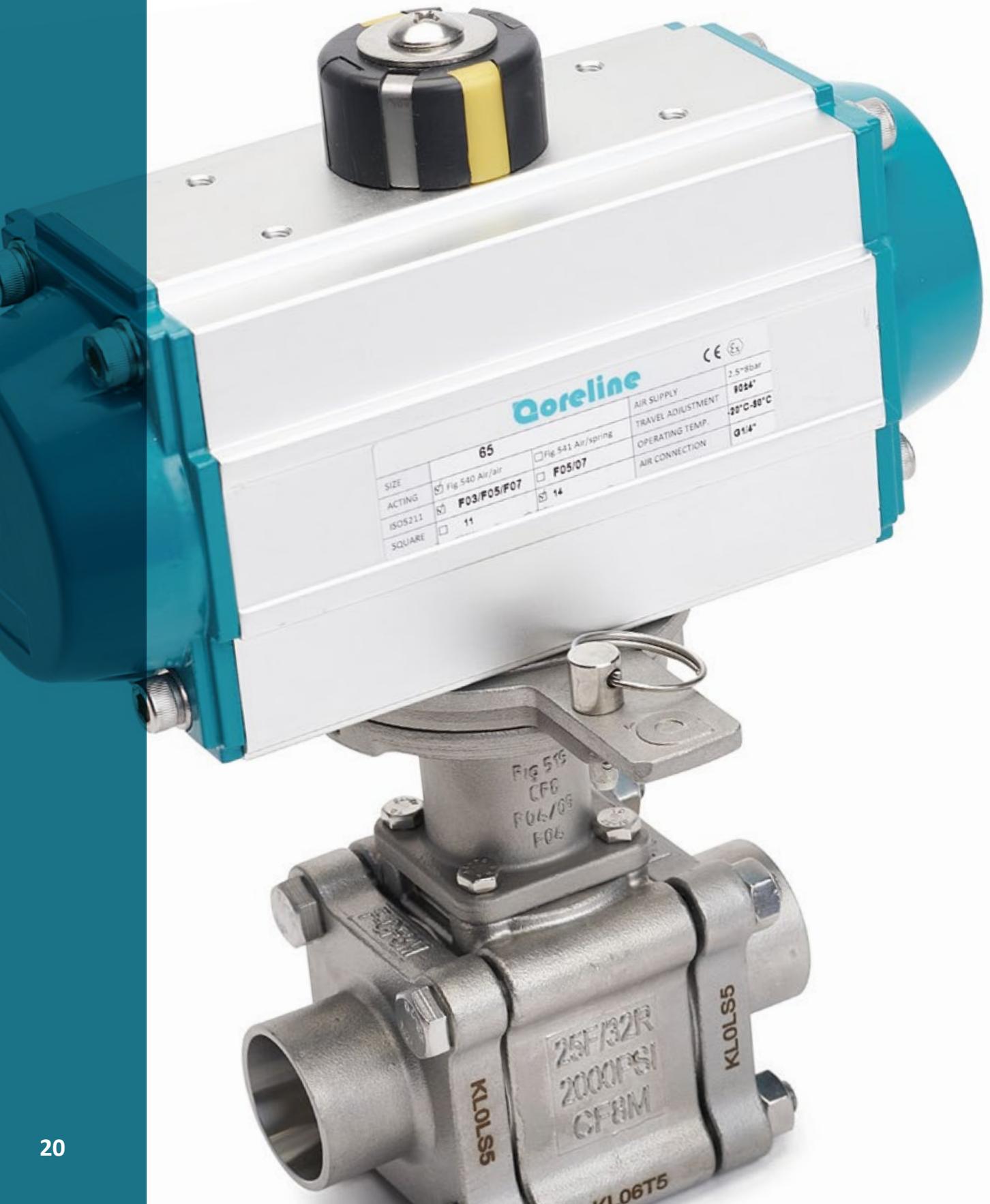
- Double eccentric bidirectional sealing.
- Disc with eccentric spherical geometry.
- Dynamic lip design of seat with zero leakage on both sides.
- Low torque figures reduces cost for actuator and ensure longer lifetime.
- Different packing options, including life loaded.

CE SIL3



**Designed and tested
 for
 HIGH PERFORMANCE**

Valve solutions with BEST QUALITY



SIZE		65		AIR SUPPLY		2.5"8bar
ACTING	<input checked="" type="checkbox"/> Fig 540 Air/air	<input type="checkbox"/> Fig 541 Air/spring	<input type="checkbox"/> F05/07	TRAVEL ADJUSTMENT	F054"	
ISO5211	<input checked="" type="checkbox"/> F03/F05/F07	<input type="checkbox"/> F05/07	<input checked="" type="checkbox"/> 14	OPERATING TEMP.	-20°C-80°C	
SQUARE	<input type="checkbox"/> 11			AIR CONNECTION	Q14"	

Doreline

CE

Fig 515
CFB
F06/05
F06

25F/32R
2000PSI
CF8M

KL0LS5

KL0LS5

KL06T5

BRACKETS

Fig.510 | Bracket

Standard: ISO5211
Size: F03 - F03+F04
 F04 - F04+F05
 F05 - F05+F07
 F07 - F07+F10
Material: Stainless steel



- Basic bracket (open).
- Stainless steel.
- Shape makes it easy to assemble.
- Using as adapter bracket to change the ISO connection.
- Using as function of isolation or protect the actuator because of the temperature in the system.

Fig.515 | Bracket system with 3 functions

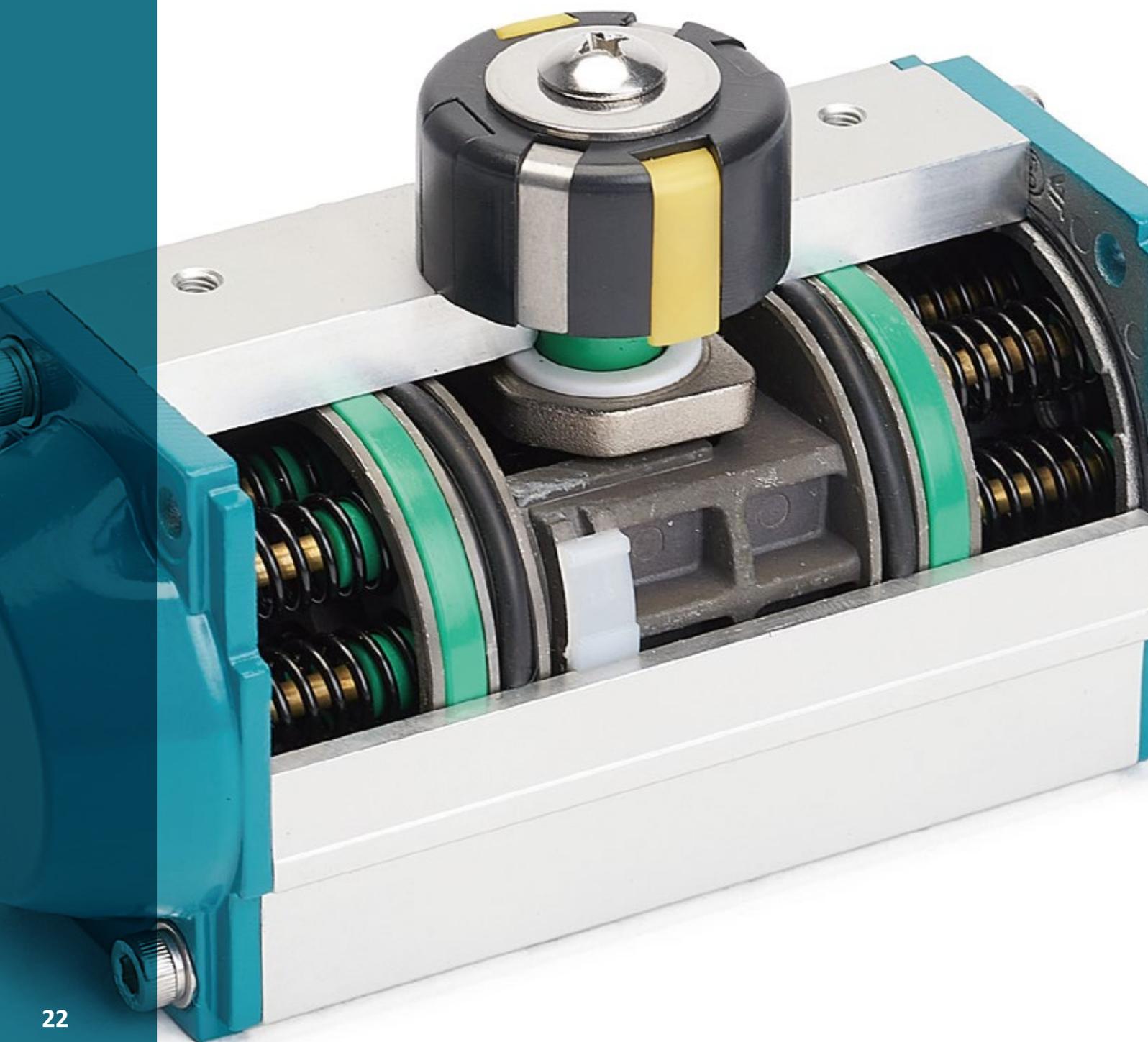
Standard: ISO5211
Size: F03 - F03+F04
 F04 - F04+F05
 F05 - F05+F07
 F07 - F07+F10
Material: Stainless steel



- Closed bracket.
- Closed bracket with hand lever.
- ☆Closed bracket with patented solution for mounting and dismounting the actuator without using toolings.
- A closed stainless steel bracket in smart design - easy to install between actuators and valves.
- Machining bottom flange to ensure perfect tolerance and installation to ISO5211 mounting flange which keep the bracket and the valve in the center line.
- PTFE gasket is used to avoid leaks between the bracket and the valve.
- Coupling used is with high strength and centered position, regardless of whether the ball valve is installed horizontally or vertically.



**Product with
LONG LIFETIME**



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: 2.5bar - 8bar

- 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.

CE Ex SIL3

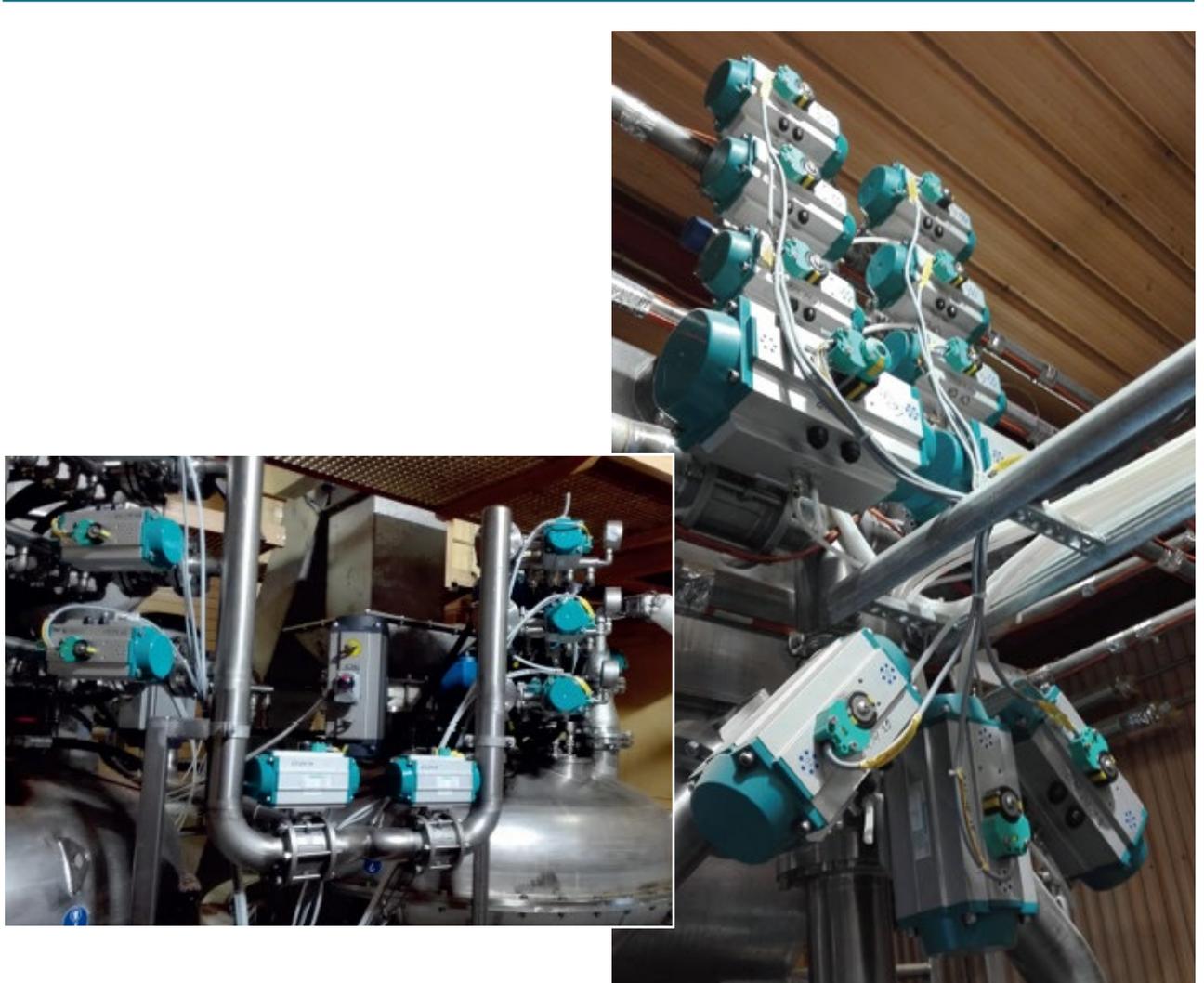


Fig.544 | Scotch yoke pneumatic actuator

Principle: Scotch yoke
Output / 6bar: 110Nm to 3370Nm for Double acting
 50Nm to 1500Nm for Single acting
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: 3.5bar - 7bar

- Suitable for all quarter turn valves.
- Scotch-yoke mechanism provides high open and close torques.
- Maintenance-free with high cycling life and reliable performance.

CE Ex SIL3

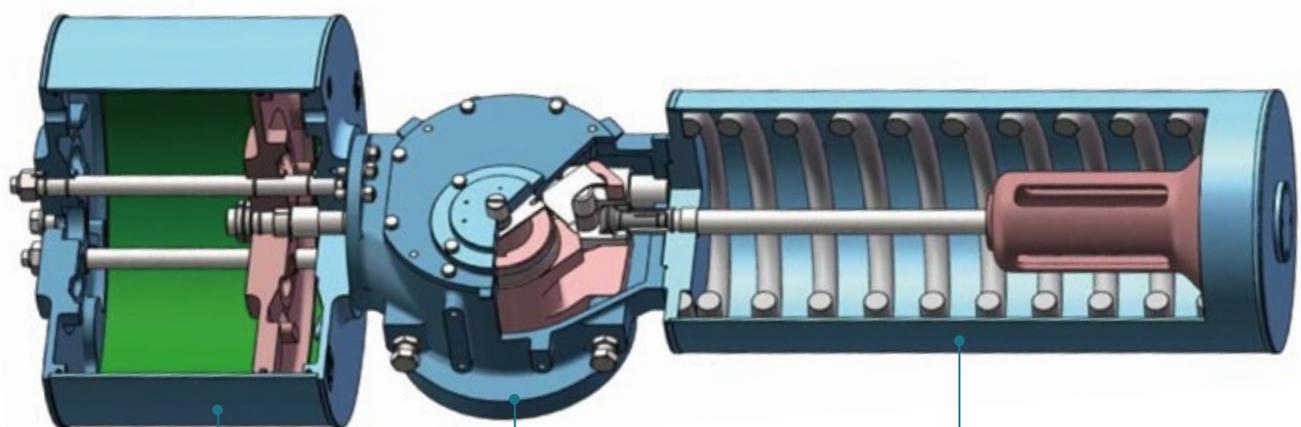
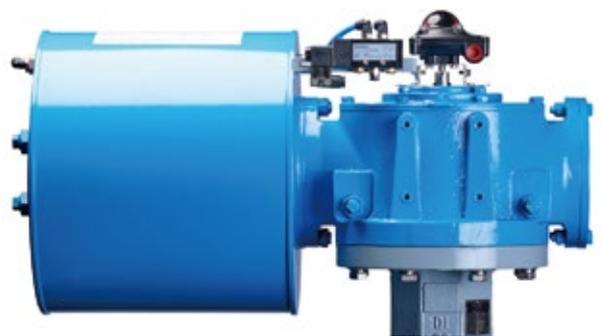


Fig.545 | Scotch yoke pneumatic actuator

Principle: Scotch yoke
Output / 6bar: 2132Nm to 175163Nm for Double acting
 892Nm to 83989Nm for Single acting
Air supply: 3bar - 6bar

- Suitable for all quarter turn valves.
- Efficient and interchangeable modular construction design.
- Output maximum torque at both ends of stroke.
- Maintenance-free with high cycling life and reliable performance.

CE Ex SIL3



Cylinder module
 Diameter:
 200~1000mm

Actuator module
 Flange: F14~F48

Spring module

Fig.530 | Air filter regulator

Type:	Air Regulator Filter/Regulator-Lubricator Filter-Regulator-Lubricator
Ambient temperature:	-20 °C ~ +70 °C
Adjustable pressure:	1.5bar - 9bar
Max pressure:	10bar
Pressure ensurance:	15bar
Suggested lubricant:	ISO VG 32 or same grade



- Fast and reliable fixed connection, easy installation and usage.
- Stable adjustment of pressure, high precision of repetition.
- Max adjustable pressure for low pressure type: 0.4MPa.

Fig.570 | Standard solenoid valve

Construction:	5/2, 3/2 way
Medium temperature:	-25 °C ~ +80 °C
Working pressure:	2bar - 8bar
Weather proof:	IP65
Voltage:	24VDC - 4W, 24VAC - 4VA, 230VAC - 4VA



- For direct mounting on NAMUR interface.
- 100% quality control - Each solenoid valve is function and pressure tested.
- Low power consumption and long service life.

Fig.576 | Explosion-proof solenoid valve

Construction:	5/2, 3/2 way
Medium temperature:	-25 °C ~ +80 °C
Working pressure:	2bar - 8bar
Weather proof:	IP67
Voltage:	12/24/48VDC - 3.5W, 110/210/220/240VAC - 4VA
Insulation protection:	F Class coil
Area classification:	II 2G Ex db IIC T6 Gb



- Body and coil material are available in both extruded aluminium and SS316.
- Excellent for usage in hazardous area with explosion proof Exd II CT6.
- Designed with “environmentally-protected structure”, offer excellent environmental protection against the ingress of liquids, dusts or other foreign matters.
- 100% quality control - Each solenoid valve is function and pressure tested.

Fig.53S | Pneumatic actuator speed controller

Body material:	Anodized coated aluminum
Seal:	NBR
Interface:	NAMUR
Working type:	3/2 way, 5/2 way
Working medium:	Less than 40µm filtered and dried air
Working temperature:	-20 °C ~ +60 °C
Working pressure:	1.5 bar - 10bar
Port size:	1/4" - φ5mm; 1/2" - φ8mm



- Interface with NAMUR standard - Install directly on pneumatic actuators.
- Available with 3/2 way and 5/2 way.
- Control the opening and closing speed of pneumatic actuators.
- The control of rotary speed of actuator is accurate, consistent and safe without fluctuation.

Fig.561 | Position switch box

Weather proof:	IP67
Ambient temperature:	-25 °C ~ +85 °C (-25 °C ~ +125 °C for optional)
Cable entry:	2×1/2NPT. Optional: PT1/2, PF1/2, M20 PG13.5
Terminal strips:	8 points. Optional: 12 points
Switches:	Mechanical, proximity
Current transmitter:	Feedback 4-20mA (20-4mA) (On request)
Position indicator:	0° - 90° Open-Yellow; Close-Red (0° - 180° for option)



- Solid and compact design.
- 4-20mA current feedback available on request.
- High level weather proof IP67 and with CE approval.
- Quick-set cam - Spring loaded splined cam. No need to re-adjust after initial setting.
- Captive cover bolts - No worry to loose bolts while cover is open.
- Easy mounting - NAMUR SS shaft and ISO5211 SS bracket as standard.
- Visual position indicator as standard.

Fig.560 | Explosion-proof position switch box

Weather proof:	IP67
Explosion proof:	II 2G Ex db IIC T6 Gb, II 2D Ex tb IIIC T80 °C Db
Ambient temperature:	-25 °C ~ +85 °C (-25 °C ~ +125 °C for optional)
Cable entry:	2×3/4NPT. Optional: PT3/4, PF3/4
Terminal strips:	8 points. Optional: 12 points
Switches:	Mechanical, proximity
Current transmitter:	Feedback 4-20mA (20-4mA) (On request)
Position indicator:	0° - 90° Open-Yellow; Close-Red (0° - 180° for option)



- Body available in both extruded aluminium and SS316.
- Explosion proof II 2G Ex db IIC T6 Gb, II 2D Ex tb IIIC T80 °C Db.
- Multi-point terminal strip, standard 8 points and enough strips for connection.
- Quick-set cam- Spring loaded splined cam. No need to adjust again after initial setting.
- Captive cover bolts - No worry to loose bolts while cover open.
- Easy mounting - NAMUR SS shaft and ISO5211 SS bracket as standard.
- Visual position indicator, with non-visual indicator type is available on request.

Fig.56P | Inductive sensor

Switching function:	PNP	Dual NO
Output polarity:	DC	
Operating voltage:	UB	10 ... 30 V
Switching frequency:	f	0 ... 500 Hz
Degree of protection:	IP67	

Ambient conditions	
Ambient temperature:	-25 °C ~ 70 °C (-13 °F ~ 158 °F)
Storage temperature:	-40 °C ~ 85 °C (-40 °F ~ 185 °F)



- Easy and fast mounting on standard actuators.
- Small construction with sturdy plastic housing of protection class IP67.
- LED for power on.
- M12 male connector.
- 5 meters cable available on request.

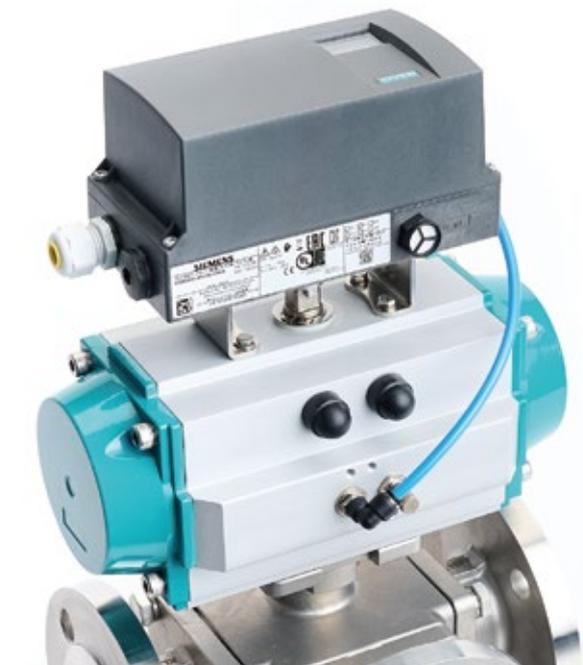
Fig.581 | ABB electrical-pneumatic positioner

- 4-20mA input.
- 4-20mA output.
- Standard IP67.
- Body in aluminum or fiberglass reinforced polycarbonate.
- C5M coated body or complete SS316 body available on request.
- ATEX, CSA, IECEx approvals available on request.



Fig.582 | Siemens electrical-pneumatic positioner

- 4-20 mA input.
- 4-20 mA output.
- Standard IP67.
- Body in fiberglass reinforced polycarbonate as standard.
- Body in aluminum available on request.
- ATEX, IECEx approvals available on request.



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ELECTRIC ACTUATORS

Fig.555 | Electric actuator

Torque:	30Nm - 6000Nm
Ambient temperature:	-25°C ~ +70°C
Shell:	IP67. NEMA 4 and 6 Optional: IP68, Exd II CT5
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



Fig.556 | Compact electric actuator

Torque: 30Nm - 5000Nm
Ambient temperature: -25°C ~ +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

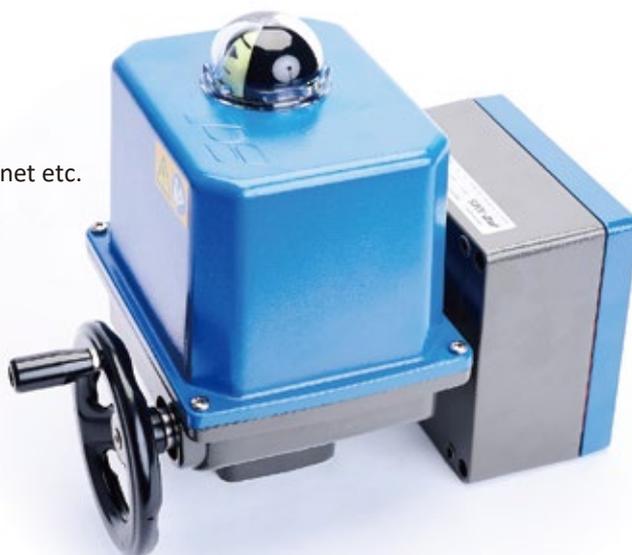


Heater is provided as standard in Coreline electric actuators

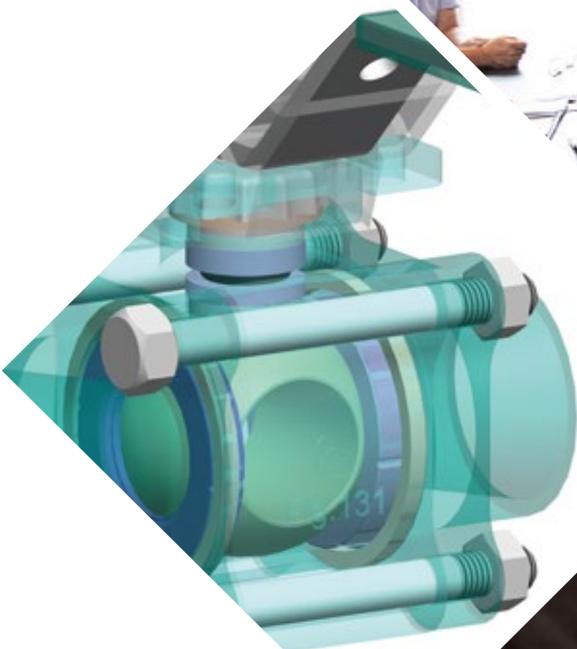


Fig.55D | Electric actuator with supercapacitors for closing/opening in case of power failure

Torque: 130Nm - 2800 Nm
Ambient temperature: -20°C ~ + 60°C
Switch time: 9~560 seconds for 90° movement
Shell: IP67. Optional IP68
Corrosion protection: On request
Duty classification: Class C according to EN15714-2
Voltage: 24 VDC, 230 VAC, 115 VAC, 360-460VAC
Regulation: 4-20mA built-in
Control protocols: Modbus RTU, Profibus DP, CANopen, Profinet etc.



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Product with RELIABLE QUALITY



OTHER 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



Fig.40J | Soft seat gate valve

Size range:	DN50 - DN600
Pressure rating:	PN10 - PN16
Face to face:	DIN3202 F4/F5
Material:	Ductile iron
Sealing:	EPDM, EPDM (DVGW - Water approved), NBR, NBR (DVGW - Gas approved)
Tightness:	Bidirectional
Operation:	Manuel, pneumatic, electric, hydraulic



Expanded product range
with
DIVERSE OPTIONS



Fig.450 | Y-angle seat valve

Size range: DN15 - DN65
Connection: Thread, welding, flange, hooping
Flow direction: Above or Below seat
Air supply: 3bar - 8bar (Depending on the pipeline pressure difference)
Valve body: SS316, SS304
Actuator body: SS304, aluminum, plastic
Actuator type: Spring return, double acting

- With visible position indicator on actuator.
- The seat cone is fixed without using nut to achieve better Kv value.
- Actuator polished inside for lower friction to achieve longer lifetime.
- Sealing material in PTFE material which can be used in many applications.
- Lubricating for inner parts, no need for maintenance.
- No water hammer effect when the flow is under the seat.



Fig.826 | Y-strainer

Connection: Flanged ends
Flange: EN1092-2 PN10/PN16
Size range: DN40 - DN500
Design standard: DIN3356
Face to face: DIN3202-F1
Test standard: DIN3230
Max. temp.: GGG50 body: $\leq 90^{\circ}\text{C}$
 WCB/CF8M body: $\leq 300^{\circ}\text{C}$



SIMPLE and COMPACT
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CHECK VALVES

Fig.614/615 | Thin wafer check valve

Connection:	Wafer. Fig.614 without spring, Fig.615 with spring
Size range:	DN40 - DN1000
Pressure rating:	PN10/PN16/PN25/PN40, CLASS150
Opening pressure:	7mbar for horizontal installation 12-44mbar for vertical installation
Flange accommodation:	EN1092 PN10/16/25/40. ASME B16.5 CLASS150
Face to face:	Industrial standard
Tightness test:	Rubber seated: ISO 5208 Rate A, API 598 Table 6 Metal seated: ISO 5208 Rate D, API 598 Table 6
Body:	WCB, SS316, SS304, 2507
Disc:	SS201, SS304, SS316, 2507
Seat:	NBR, EPDM, FPM, PTFE, Metal

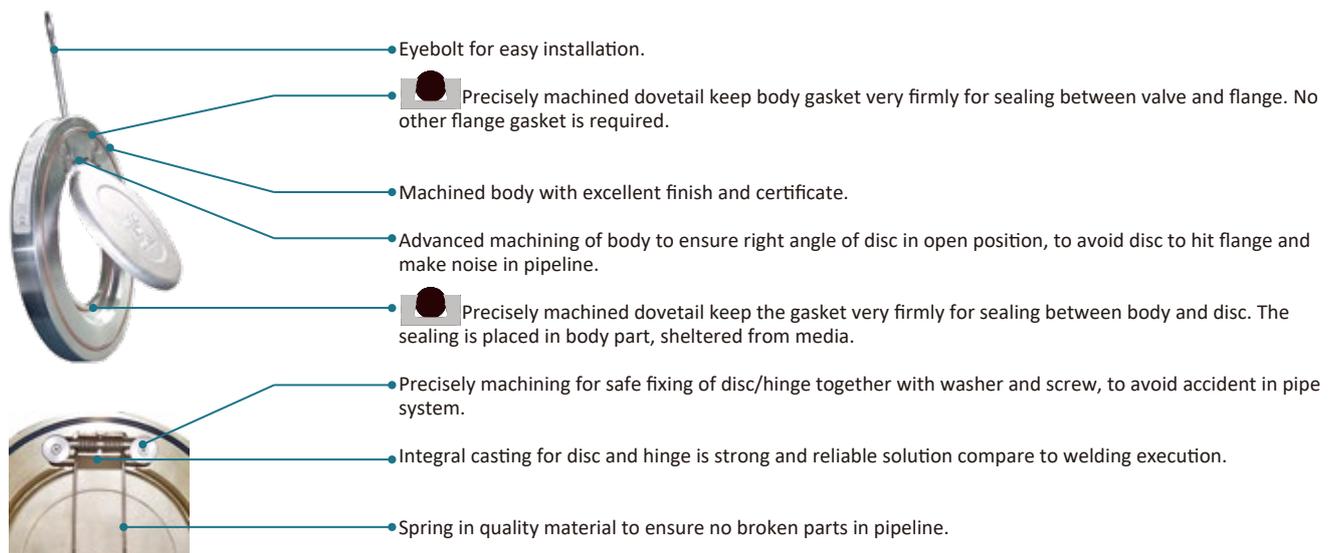


Fig.622 | Wafer disc check valve

Connection:	Wafer
Size range:	DN15 - DN100
Pressure rating:	PN40
Flange accommodation:	PN16/25/40, ANSI150/300
Face to face:	DIN3202 K4
Body/disc:	SS316, SS304
Seat:	Metal to metal, rubber

- Wafer design.
- Self-centering.
- Low pressure drops.
- Easy to install and maintain.
- Can be installed on vertical pipelines with down flow.



Fig.63M | Dual plate check valve

Connection:	Wafer
Size range:	DN50 - DN2000
Pressure rating:	16bar for DN50 - DN600 10bar for DN700 - DN2000
Flange accommodation:	DN50 - DN300: EN1092 PN10/16/25/PN40. ASME B16.5 CLASS150/300/600 DN350 - DN1200: EN1092 PN10/16/25. ASME B16.5 CLASS150/300 DN1350 - DN1500: ASME B16.5 CLASS150/300 DN1650 - DN2000: AWWA C207
Body:	GGG40, WCB, SS304, SS316, 2507
Disc:	SS304, SS316, 2507
Seat:	NBR, EPDM, VITON, metal



- Reduced size - weight - cost because of the integrated design.
- Small pressure of water hammer and short disc travel.
- Small flow resistance.
- Horizontal or vertical installation available.

Fig.66D | Axial check valve

Connection:	PN6-PN25: EN1092-1 / ISO7005-1 / BS 4504 Sect. 3.2 CLASS125/150: ASME B16.1/B16.5
Size range:	DN50-DN150
Pressure rating:	PN6-PN25
Temperature:	-20°C~+ 120°C
Material:	EN-GJL-250 for DN50-DN250, EN-GJS-400-15 for DN300
Sealing:	EPDM



- Spring-actuated disc for better tightness.
- To reduce pressure fluctuations in pipeline.



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