Coreline

Product presentation

Danish Manufacturer
High-quality and engineering

www.coreline.dk

INDHOLD

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

”Focus on Details”

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

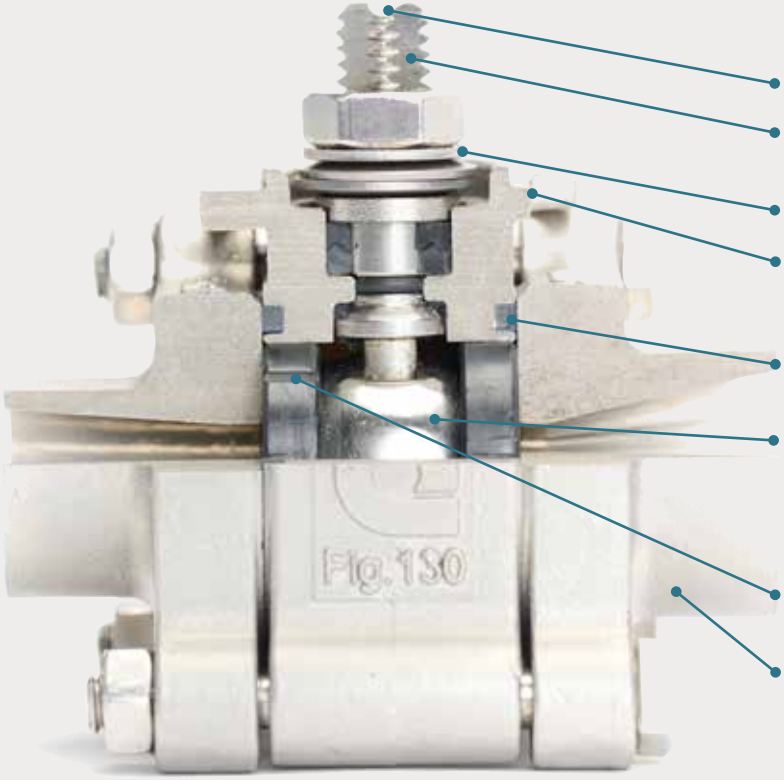
- Standard DIN3202 M3 face to face dimension.
- Full bore for better Kv value.
- Solid ball for high performance tasks.
- Anti-static devices for ball - stem - body.
- Blow-out proof stem.
- Pressure relief hole in ball slot.
- ISO5211 direct mounting pad for easy automation.

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.130 | 3pc high performance ball valve

Connection: Threaded ends BSPP - ISO228/1
Butt weld ends - WCB: EN12627
CF3M: DIN2463 / SMS3008 / ISO1127
Socket weld ends - ASME B16.11
Size range: Full bore:¼" - 2" or DN8 - DNS0
Reduced bore:½" - 2 ½" or DN15 - DN65
Pressure rating: ¼" - 1": FB = 138 BAR / 2000psi
1 ¼" - 2": FB = 103 BAR / 1500psi
2 ½": RB = 103bar / 1500psi
Body: Carbon steel, stainless steel 316
Ball/stem: Stainless steel 316
Sealing: PTFE with 25% carbon(standard)
PTFE, PEEK, TFM1600 (available on request)
Operation: Hand lever, pneumatic actuator, electric actuator



Grove on the stem show the direction of ball.

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

Lock cap to ensure life loaded sealing of the stem seal.

Fully machined ISO5211 mounting pad together with square stem, makes it possible to mount bracket and coupling for high temperature applications.

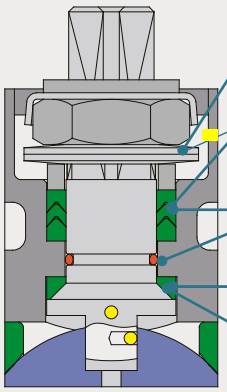
Fully encapsulated body sealing provide safe sealing and directly welding in pipeline without disassembly.

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.

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

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

Sealing system



Belleville washers provide dynamic life loaded stem sealing, even with temperature fluctuations.

Chevron V-shape packing in highly wear-resisitant PTFE+25% carbon, provide dynamic and safe sealing with long cycle life for both pressure and vacuum.

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

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

Seat and body sealing

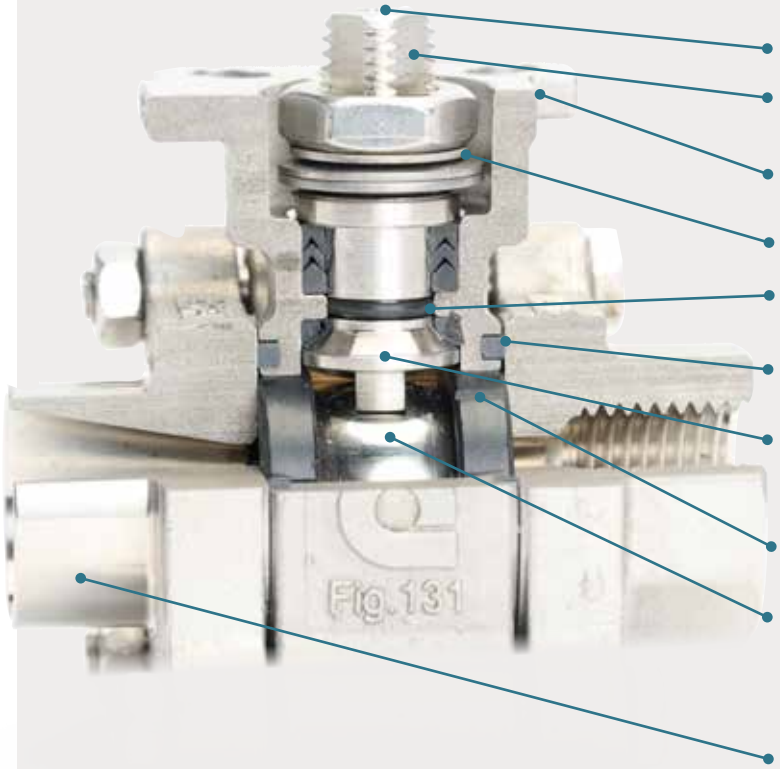
Encapsulated body gasket

Seat: PTFE+2S% carbon
{Other materials available)

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

CE Ex 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.

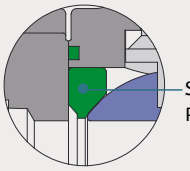
Fully encapsulated body sealings provide safe sealing and directly welding in line without disassembly.

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

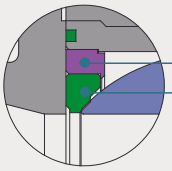
Tracks in seat to relieve pressure, reducing wear and operating torque.

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.165 | 3/4 way ball valve with 1S05211 top flange

Connection:	Flanged ends: DIN EN1092-1 Butt Weld ends: Standard ISO1127 Threaded 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 / Threaded ends: up to DNS0)
Pressure rating:	Flanged ends: DN15 - DNS0 PN40/PN16; DN65-DN100 PN16 Butt Weld / Threaded ends: DN15 - DNS0 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 exchangable 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.

ATEX, CE, SIL and EU1935/2004

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

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

Fig.15J / 17J | Segment control ball valve

Connection:	Fig.15J flanged; Fig.17J wafer
Size range:	DN25 - DN300
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
Tightness:	Metal seat - Class V (standard); Class VI with tungsten carbide coated trim) Soft seat - Class VI

- V-segment ball provides large dynamic passing of fluid, including solid partides.
- Rotary-valve design allows the cutting of solids between the V-bal I and the seats.
- Nearly equal percentage flow characteristic.

CE SIL ATEX, CE, SIL

Coreline will supply the best valves and will constantly develope our product range.

V-BALLS

Fig.130 og Fig.131 V-notch ball valve

Size range: DN10 - DN100 or 3/8” - 4”
V-cut: 15 °, 30° , 60° , 90°
*Special cutting available on request.
Material: 5S316,5S304

- 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.

”Experience creates development.”

”Feel the quality
Explore the
difference.”

BUTTERFLY VALVES

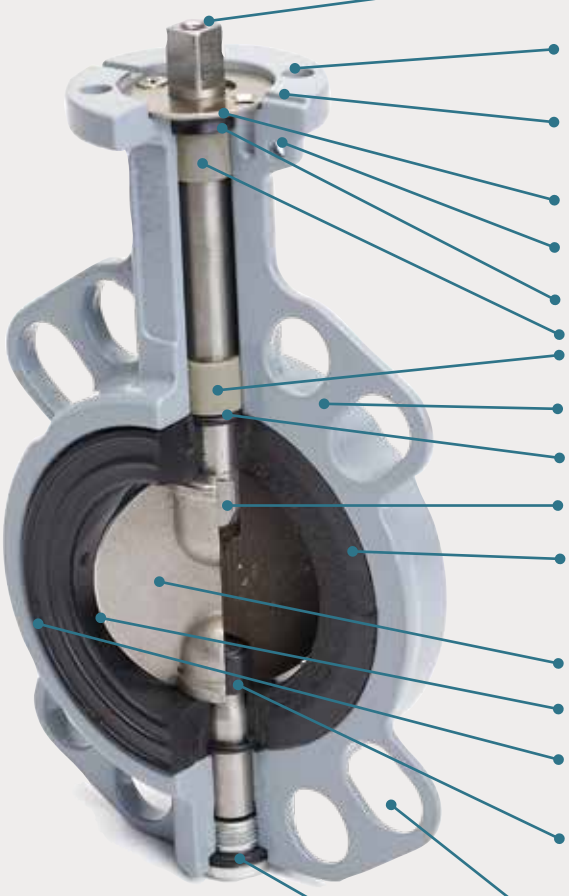
Fig.211 | Rubber seat butterfly valve
Fig.211M | Rubber seat butterfly valve - Marine approved

Connection:	Wafer, lug
Size range:	DN25-DN300
Pressure rating:	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.

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	



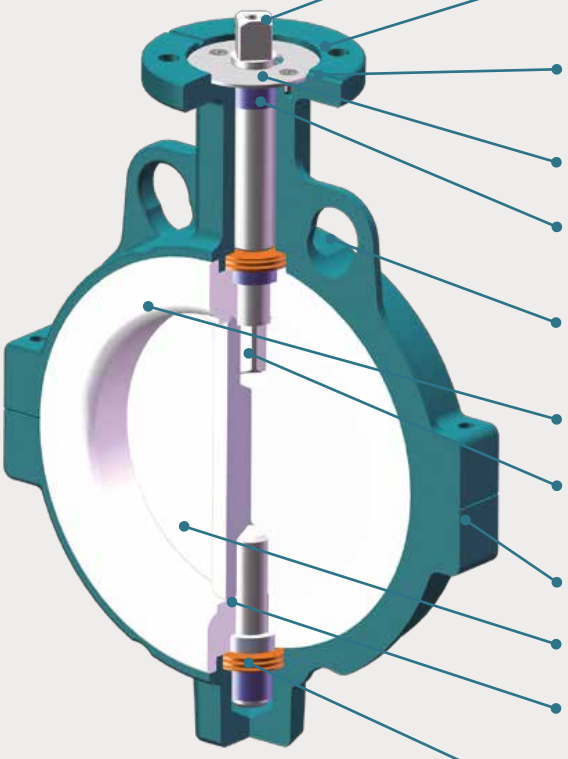
1. Groove to show direction of the disc. Heat number and material certificate. Threaded to make safe mounting of hand lever.
2. Top flange according to ISO5211, together with square stem, makes it suitable for direct mounting of actuators, without using bracket .
3. Relief track on the assembly flange 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.

The Coreline team has worked in the valve industry for several years and is looking forward to the collaboration.

Fig.225/226 | **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
Face to face:	EN1092 PN10, PN16; ANSI 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, FPM and silicone backup

ATEX, CE, FDA



- Groove on the stem showing direction of the disc.
- Top flange according to ISO5211, together with square stem, makes it suitable for direct mounting of actuators, without using bracket
- Unique groove on the topflange secures that medium does not enter actuators and functions also as a leak indication.
- Stainless steel retainer preventing stem blow-out.
- RPTFE+graphite bearings provide excellent support, especially if actuators are used for automation purposes.
- Multi-standard alignment holes suitable for various standard of flanges: EN1092 PN10, PN16. ANSI B16.5 ClasslS0.
- Extra wide sealing face for corrosion resistance
- Square transmission between disc and shaft is strong and reliable.
- Two piece body design.
- Streamlined disc for better Kv with enough strength.
- Chevron shape interface between disc and seat for better sealing.
- Spring loaded backup together with V-chevron sealing, to ensure safe tightness.

Fig.263 | High performance butterfly valve

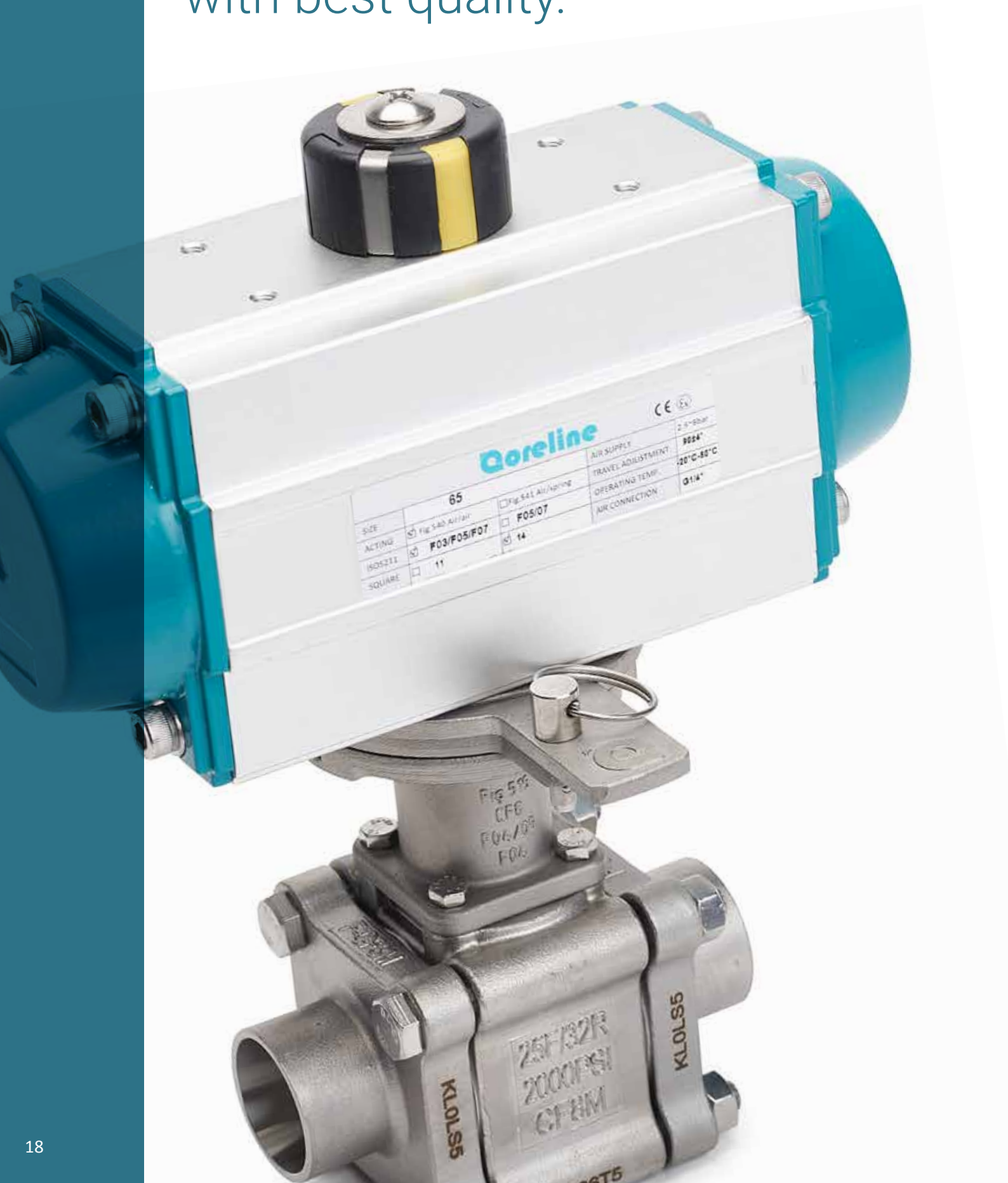
Connection: Wafer, lug
Size range: DN50 - DN1200
Pressure rating: PN16, PN25, PN40; CLASS150,CLASS300
Face to face: APl609 Table 2
Body: WCB, CF8, CF8M
Disc: WCB, CF8, CF8M
Seat: RPTFE

- 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 Ex ATEX, CE.

"Designed and tested for durability."

”Valve solutions
with best quality.”



BRACKETS

Fig.510 | Bracket

Standard: IS05211
Size: F03 - F03+F04
F04 - F04+F05
FOS - 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.

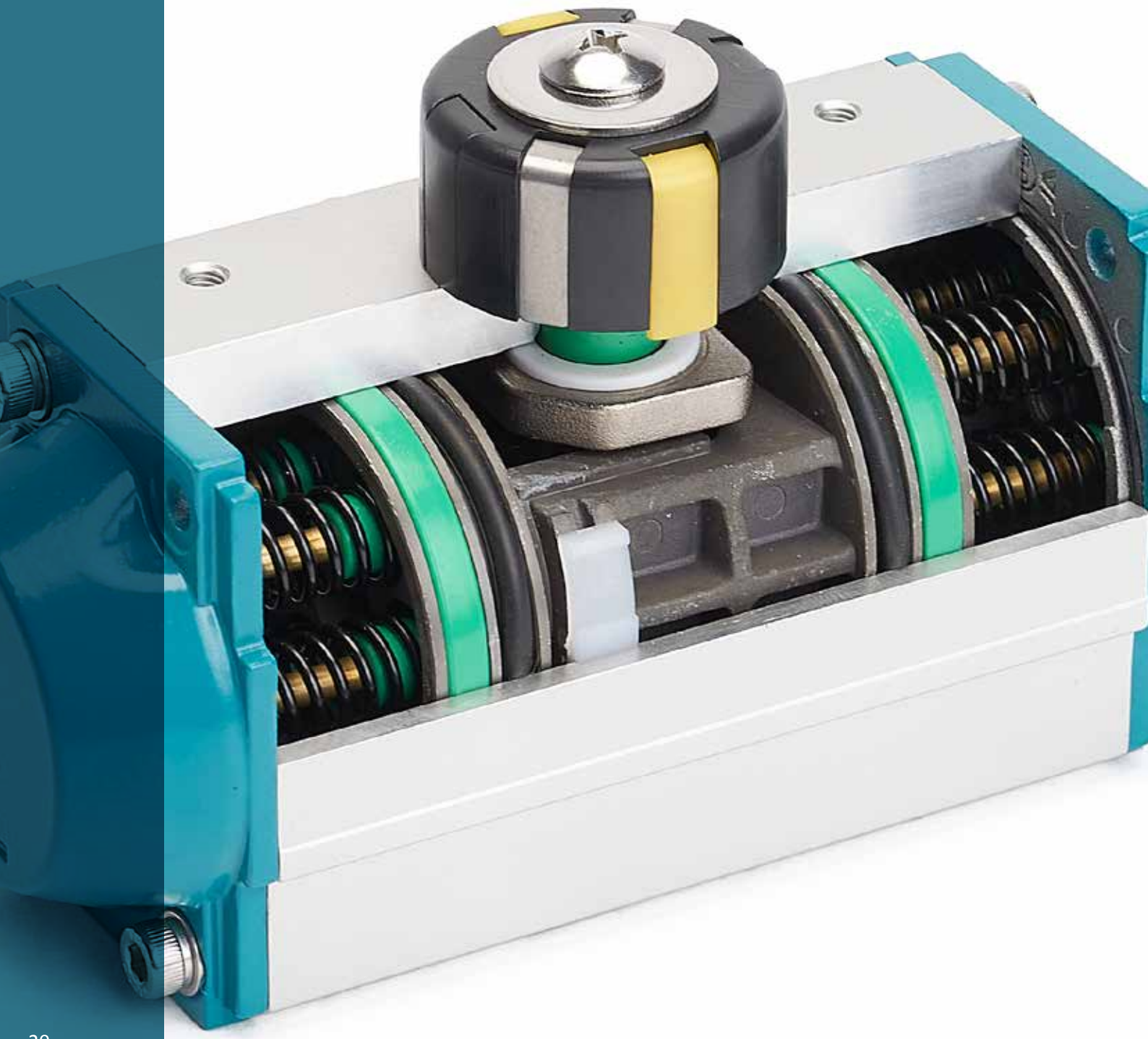
Fig.515 | Bracket system with 3 functions

Materiale: ISO5211
Size: F03 - F03+F04
F04 - F04+F05
FOS - FOS+F07
F07 - F07+F10
Materiale: 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.
- The bracket system secure high strength and centered position, regardless of whether the ball valve is installed horizontally or vertically.

”Products 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: 2,5 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.

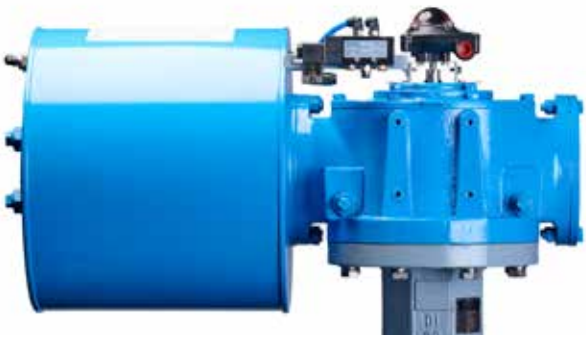
ATEX, CE and SIL

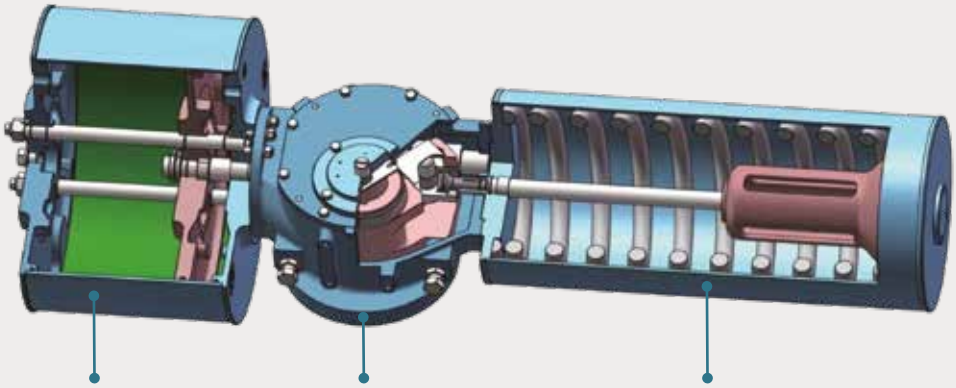
Fig.545 | Scotch yoke pneumatic actuator

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 ATEX, CE

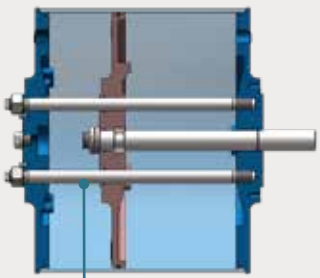




Cylinder module
Diameter:
200~1000mm

Actuator module
Flange: F14~F48

Spring module



Internal control system in the cylinder.

Internal control system in scotch yoke

ACTUATOR ACCESSORIES

Fig.530/531 | Air filter regulator

Type:	Air Regulator Filter/Regulator-Lubricator Filter-Regulator-Lubricator
Ambient temperature:	- 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 - 4V

- For direct assembly 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:	li 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 li 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.

Fig.560 | Position switch box (opt. Explosion-proof)

Weather proof:	IP67
Explosion proof:	II 2G Ex db IIC T6 Gb, 112D Ex tb IIIC T80 C Db
Ambient temperature:	-25 ”C ~ +85 ”C (-25 ”C ~ +125 ·c for optional)
Cable entry:	M20x1,5 Optional: 2x3/4NPT. 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 I IC T6 Gb, li 2D Ex tb I IIC 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 rettes til. Secures that bolts are not lost when cover is removed
- Easy mounting - NAMUR SS shaft and ISO5211 SS bracket as standard.
- Visual position indicator, with non--visual indicator type is available on request.

Fig.561 | Position switch box

Weather proof:	IP67
Ambient temperature:	-25 ”C ~ +85 ”C (-25 ”C ~ +125 ·c for optional)
Cable entry:	M20x1,5 Optional: 2x1/2NPT. PTl/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.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 ... 70 °C (-13 ... 158 °F)
Storage temperature:	-40 ... 85 °C (-40 ... 185 °F)

- Easy and fast mounting on standard actuators.
- Small construction with sturdy plastic housing.
- Protection class IP67.
- LED for power on.
- M12 male connector.
- 5 meter cable.

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.

”The best solutions
with many features
and high quality.”

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.

”Let us help you find the right solution.”

”Many years of experience are shown in the design of the products.”

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

”Many options
- let us advise you.”

Fig.40J | Soft seat gate valve

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

”Wide product range with different options.”

Fig.450 | Y-angle seat valve

Size range:	DN15 - DN65
Connection:	Threaded, BW ends, flanged
Flow direction:	Above or Below seat
Air supply:	3bar - 8bar (Depending on the pipeline pressure difference)
Valve body:	5S316,5S304
Actuator body:	S5304, aluminum, plastic
Actuator type:	Spring return, double acting

- With visuable 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.
- Reduced water hammer effect when the flow is under the seat.

”Simple and compact construction.”

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, PN16, PN25, PN40. ANSI B16.5 Class150 DN250-DN1000: 10 BAR
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.66D | Axial check valve

Connection:	PN6-PN25: EN1092-1 / 1SO7005-1 / 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.
- Springs reduces pressure fluctuations in pipeline.

Fig.62E | Wafer disc check valve
Fig.62M | Disc check valve, soft seated

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. ANSI B16.5 CLASS150/300/600 DN350 - DN1200: EN1092 PN10/16/25. ANSI 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, FPM, metal

- Reduced size - weight - cost because of the integrated design.
- Springs helps to reduce water hammer.
- High Kv values.
- Horizontal or vertical installation available.

Fig.826 | Y-strainer

Connection:	Flanged ends
Flange:	EN1092-2 PN10/PN16
Size range:	DN40 - DNS00
Design standard:	DIN3356
Face to face:	DIN3202-F1
Test standard:	DIN3230
Max. temp.:	GGG50 body: ≤ 90°C WCB/CF8M body: ≤ 300°C

Documentation and delivery security are a matter of course.

SPECIAL SOLUTIONS

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