

Brochure Ball Valves



BALL VALVES

- Chemical
- Petrochemical
- Food industry
- HVAC
- Steel industry
- Steam installations
- Pharmaceutical industry
- Power plants
- Pulp & Paper
- Oil & Gas
- OEM
- Water installations
- Tank storage

BALL VALVES

In our extensive stock of ball valves you will find a wide range of products. We keep a large stock of 1-, 2- and 3-piece ball valves with various connections.

From brass ball valves for simple applications to Trunnion ball valves in exotic materials, they have no secrets for us. If you're looking for a ball valve of excellent quality and with a short delivery time, then you came to the right place at Sodeco Valves.

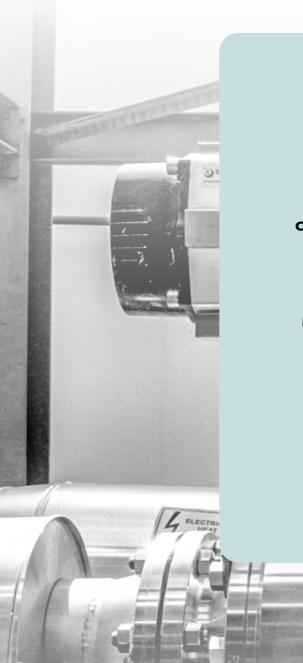
You can also rely on Sodeco Valves for specials. We will search for the appropriate ball valve for you with the correct properties for your process, taking into account temperature, pressure and medium.

> We offer customized solutions for high temperatures as well as cryogenic applications.

Furthermore, our ball valves have an extensive certification so various inspections such as fire-safe, TA-Luft or food inspections are possible.

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JC VALVES - FLANGED









FLOATING BALL SOFT & METAL SEATED

DIN

PN16 - PN40 FULL BORE DN15 to DN200 PN63 - PN100 FULL BORE DN15 to DN100 Short pattern or long pattern

ANSI

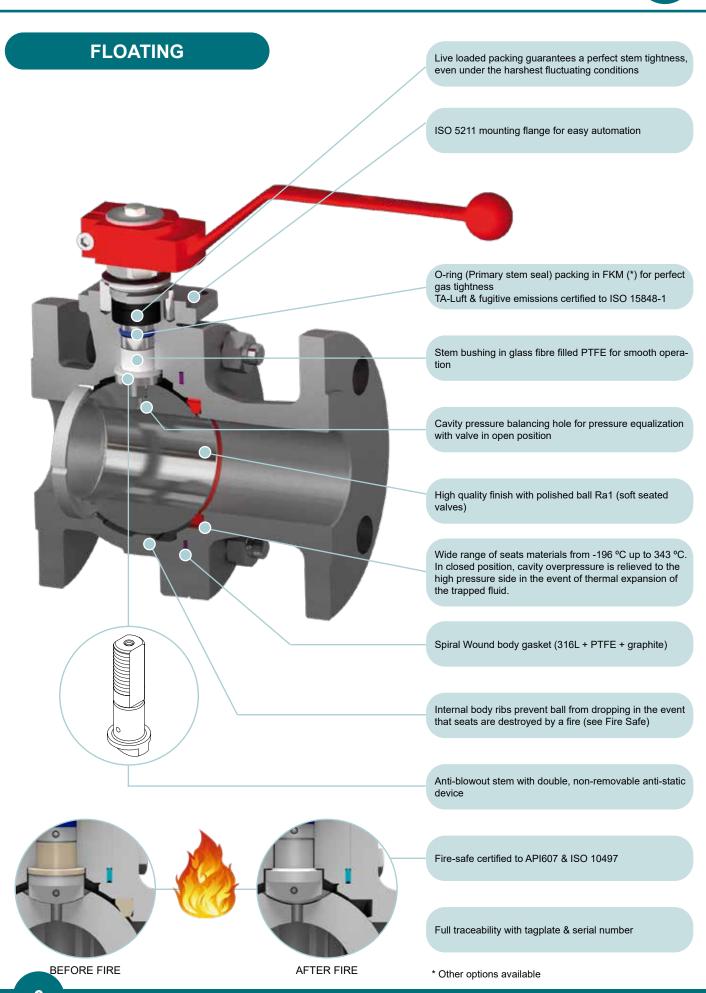
Class 150 – 300 FULL & REDUCED BORE $\frac{1}{2}$ " – 12" Class 600 FULL & REDUCED BORE $\frac{1}{2}$ " – 4" Class 900 – 1500 – 2500 FULL & REDUCED BORE $\frac{1}{2}$ " – 2"

MATERIALS

Carbon Steel (A105N/WCC/LF2), Stainless Steel (CF8M/F316/F51) & Alloys

JC VALVES - FLANGED

BALL VALVES





JC VALVES - FLANGED

METAL SEATED

For temperature > 260°C

- Abrasive media
- High velocity in opening/closing cycles

HARDENING TREATMENTS

HT-70

Max. Temperature: 550 °C Corrosion Resistance: Medium Abrasion Resistance: High

Is a Tungsten Carbide coating in a metallic matrix bonded mechanically to the base material by HVOF methods. This treatment gives a very good resistance to abrasion and impact and is suitable to work up to 550 °C.

HT-60

Max. Temperature: 800 °C Corrosion Resistance: High Abrasion Resistance: High

Is a Chromium Carbide coating in a nickel-chrome base in a metallic matrix bonded mechanically to the base material by HVOF methods. This treatment gives a very good resistance to abrasion and is the best choice for severe corrosion applications. It is suitable to work up to 800 °C.

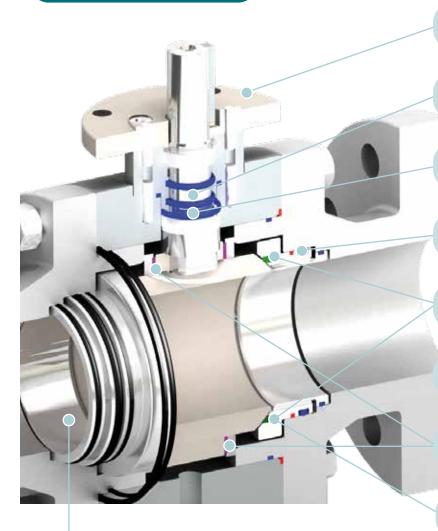
HT-65

Max. Temperature: 500 °C Corrosion Resistance: Medium Abrasion Resistance: Medium

This is an exclusive treatment developed by JC with two main advantages: first all the ball and seat surface is hardened and second there is no additional overlay on the seat surface. This gives a very good tightness and a lower torque. The surface is hardened to 65 Rockwell C and it is valid to work up to 500 °C.



TRUNNION



ISO 5211 mounting flange for easy automation

Anti-blowout stem with double, non-removable anti-static device

Multi-stage o-ring assembly (FKM) for long-life tightness during operation.

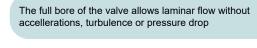
Inconel 750 springs for reliable seat loading

A wide range of seat materials allows coverage of the required operating conditions

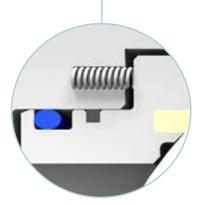
Self lubricating bushings in AISI 316 Internally coated with PTFE

High quality trunnion bearing in 316 + inside in PTFE for perfect alignment and smooth operation

Spring-loaded seat for 100% sealing







BALL V		/ES									
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			PN 16	PN 40		PN 16	PN 40				
											-
	•	SHORT FTF	516	540		1516	1540				
	DIN		3516	3540							
		LONG FTF	316	340							
		Long I II	3316	3340							
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(\searrow)	ANSI	0010								-	
								6015 *	6030 *	6060 *	-
								6015 *	6030 *	6060 *	
	REDUCED BORE										
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			150#	300#	600#	150#	300#	600#	900#	1500#	2
and the second second		715	730	660	7015 *	7030 *	7060 *	7090 *	7050 *	1	
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- Articles in purple: metal seated * : 3-piece body 1: trunnion version also available in Class 900, 1500 & 2500
- 2: trunnion version also available in Class 2500







BALL VALVES - OPTIONS



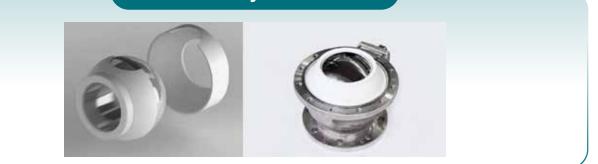
Heavy duty locking device



V-port / regulating ball



Cavity filler





Other

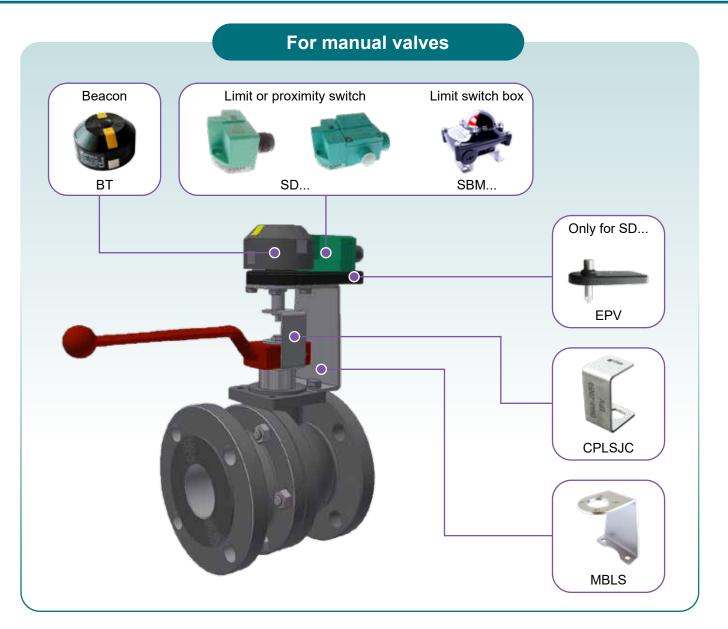
- Degreased (for oxygen)
- Decompression hole
- Chainwheel
- Heating jacket
- Coatings available





JC VALVES - OPTIONS













MATERIALS Steel **Stainless steel**



Indirect mounting

Direct mounting

CONNECTION

SW acc. to ANSI B16.11 & DIN 3239 part 2



BW acc. to ANSI B16.25 & DIN 3239 part 1



BSP acc. to DIN EN 10266



acc. to ASME B1.20.1

NPT





	330A	350BA
DN	1/4 - 4"	1/4" – 4"
BODY	316	CF8M
BALL	316	316
STEM	316	316
SEATS	PTFE+15%GF	PTFE
PACKING	PTFE+15%GF	Chevron PTFE
PACKING GLAND	stem nut	stem nut
BODY SEAL	PTFE	PTFE
FIRE SAFE	no	no
TA-LUFT	no	no
PRESSURE CLASS	63 bar up to 2"	69 bar up to 2"
LOCKING DEVICE	yes	yes
ISO 5211 MOUNTING FLANGE		Coupler and mounting bracket
REPAIR KIT	no	yes
OTHER SEAT MATERIALS	no	no
STEM EXTENSION	no	yes
EXTENSION AND PROTECTION TUBE	no	yes
SPRING RETURN HANDLE	no	yes
REGULATING BALL	no	no
	BSP: 331A	BSP: 351BA
	BW: 332A	BW: 352BA
CONNECTION	SW: 333A	SW: 353BA
	NPT: 334A	NPT: 354BA

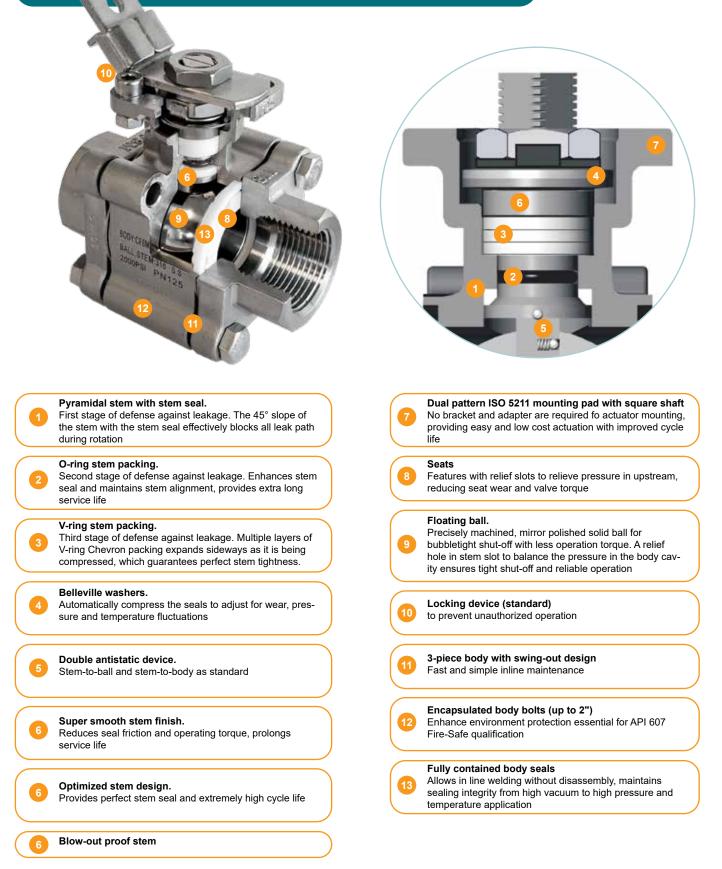


360BA	370BA	390BA
1/4" - 2" (2 1/2" RB)	1/4"-4"	1/4" – 4"
A216 WCB CF8M	CF8M	CF8M
316 (FB) 316 (RB)	316 up to 1" - CF8M from 1 1/2"	316
316	316	316
RPTFE	RTFE	RPTFE
Chevron PTFE + graphite	Chevron PTFE + PTFE 25% G.F.	Chevron PTFE + graphite, Viton o-ring
spring washers	spring washers	spring washers
graphite	PTFE	PTFE graphite
yes	no	no (option)
yes	yes	yes
138 bar up to 1"	69 bar up to 2"	138 bar up to 1"
yes	yes	yes
Coupler and mounting bracket	Direct mounting	Direct mounting
yes	yes	yes
yes	no	yes
yes	yes	yes
yes	yes	yes
yes	yes	yes
yes	no	yes (option)
BSP: 361BA / 361BAI	BSP: 371BA	BSP: 391BA
BW: 362BA / 362BAI	BW: 372BA	BW: 392BA
SW: 363BA / 363BAI	SW: 373BA	SW: 393BA
NPT: 364BA / 364BAI	NPT: 374BA	NPT: 394BA

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BALL VALVES









ALFA VALVOLE

10AIT / 10IITB / 10NFAIT / 10NFIITB WAFER • Bar stock (10...) body or cast body (10NF) in steel (AIT) or stainless steel (IITB) • Full body (10AIT/10IITB) or reduced body (10NFAIT/10NFIITB) • Full body (10AIT/10IITB) or reduced body (10NFAIT/10NFIITB) • With floating ball • PTFE seats • Anti blow-out stem • Anti blow-out stem • Antistatic construction • Fire Safe: standard for execution in steel, on request for execution in stainless steel • Additional stem seal o-ring

- Mounting flange acc. to ISO5211
- PN 16, PN 40, ANSI 150, ANSI 300, PN 64, PN 100, ANSI 600



1111TB / 11CAIT

HEATING JACKET

- Steam jacket with threaded or flanged ends
- Body without cavities (11CAIT only)
- PN 16, PN 40, ANSI 150, ANSI 300 , PN 64, PN 100, ANSI 600



BAR STOCK

20R/T - 21R/T - 22R/T



- Reduced (R) or full body (T) from bar stock in steel (AIT) or stainless steel (IIT)
- 20R/T class 800# (PN130) 1000 psi
- 21R/T class 1500# (PN210) 3000 psi
- 22R/T class 2500# (PN420) 6000 psi
- Connection: BSP, BW, SW or NPT

A241 / A242 / A243 / A244 3-PIECE BODY Image: Provide the state of t

A606 / A615

FLANGED

- Body in steel or stainless steel
- ANSI 150 # ANSI 2500 #
- Reduced or full bore



OTHER FLANGED





456AIGF - 456IIGF



- 2-piece body in steel (AIGF) or stainless steel (IIGF)
- Seats in PTFE+ glass fibre
- Short pattern
- Mounting flange according to ISO 5211
- PN 16

615AIGF - 615IIGF

- 2-piece body in steel (AIGF) or stainless steel (IIGF)
- Seats in PTFE+ glass fibre
- Short pattern
- Mounting flange according to ISO 5211
- ANSI 150





150HIT

N	• Body in cast iron GG-20
	• Ball in stainless steel
	PTFE seats
C FUEL	Face-to-face dimensions according to DIN 3202 F18 (short)
-	 Mounting flange according to ISO 5211
	• PN16

156IIT	-0303
	Ball valve in stainless steel
	• Short pattern (face-to-face)
	• Seats: PTFE+ fibreglass
	Mounting flange according to ISO 5211
	• PN16

MULTIPORT







- Floating ball
- Full bore
- L- or T-port
- Seats in PTFE
- BSP threaded
- With lever in aluminium



STAINLESS STEEL

1370L / 1370T

- floating ball
- reduced bore
- L- or T-port
- Seats in PTFE + 15% glass fiber
- BSP threaded
- With lever in stainless steel



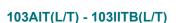
1372L / 1372T

- floating ball
- reduced bore
- L- or T-port
- Seats in PTFE + 15% glass fiber
- NPT threaded
- With lever in stainless steel

OTHER 3-WAY VALVES

915 - 916

- Body in steel (AIT) or stainless steel (IIT)
- L- or T-port



- Body in steel (AIT) or stainless steel (IITB)
- L- or T-port





MULTIPORT

3-WAY / 4-WAY / 5-WAY

V33H - V36H

- Body in steel (AIT) or stainless steel (IIT)
- L, T, X or I-port



FLOW PATTERNS

CONFIGURATION AND ROTATION OF THE BALL

Single acting actuator, normally closed (PE, ASR, ...) Air operates the valve in anti-clockwise direction Springs operate the valve in clockwise direction Standard configuration

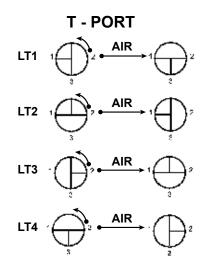
L - PORT

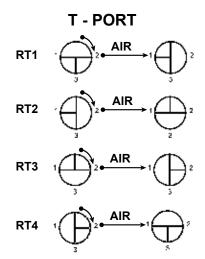


Single acting actuator, normally open (PEO, ASRO, ...) Air operates the valve in clockwise direction Springs operate the valve in anti-clockwise direction <u>Conversion necessary</u>



L - PORT





EXAMPLES:

RL0: Ball (L - port) is turning clockwise from position 0° to position 90°

LT1: Ball (T - port) is turning counter-clockwise from position 0° to position 90°

NOTE: For single acting actuators, the first position is the 'fail safe' position in case of air failure





LINED BALL VALVES



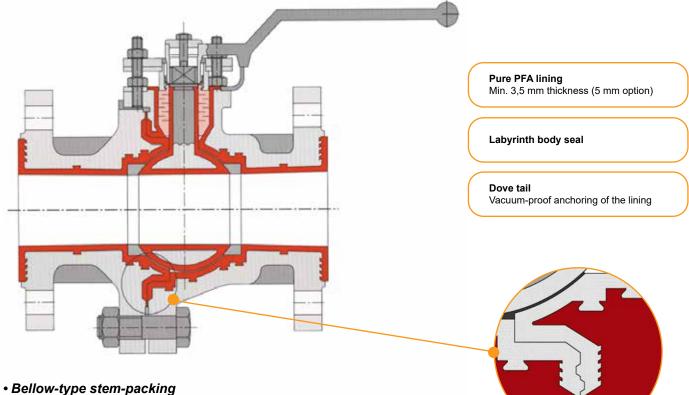
KN/KNA

Design - ISO/DIN (KN) or ANSI 150 (KNA) Nominal Pressure - 16 bar Lining - PFA Housing Material - EN-JS 1049 with epoxy coating Face-to-Face - DIN EN 558-1 and ISO 5752 series 1 or ANSI B16.10 Flanges drilled to EN 1092 or ASME B16.5 class 150, raised face Temperature Range -60 °C to +200 °C (-75 °F to +400 °F) Certifications - EU Pressure Equipment Directive 2014/68/EU, German Clean Air Act (TA-Luft), SIL

KK

Design - DIN/ISO ANSI/ISA-75.08.01 Nominal Pressure - 16 bar Lining - PFA Housing Material - EN-JS 1049 / ASTM A395 with epoxy coating Face-to-Face - DN + 50 mm Flangeless Temperature Range - -60 °C to +200 °C (-75 °F to +400 °F) Certifications - EU Pressure Equipment Directive 2014/68/EU, German Clean Air Act (TA-Luft)





- TA-Luft
- Other materials available on request

BALL VERSIONS



1-piece PFA ball/stem (standard)



Al₂O₃ ceramic ball with seperate stem (optional)



Cavity-free TF ball for optimum draining and flushing (optional)



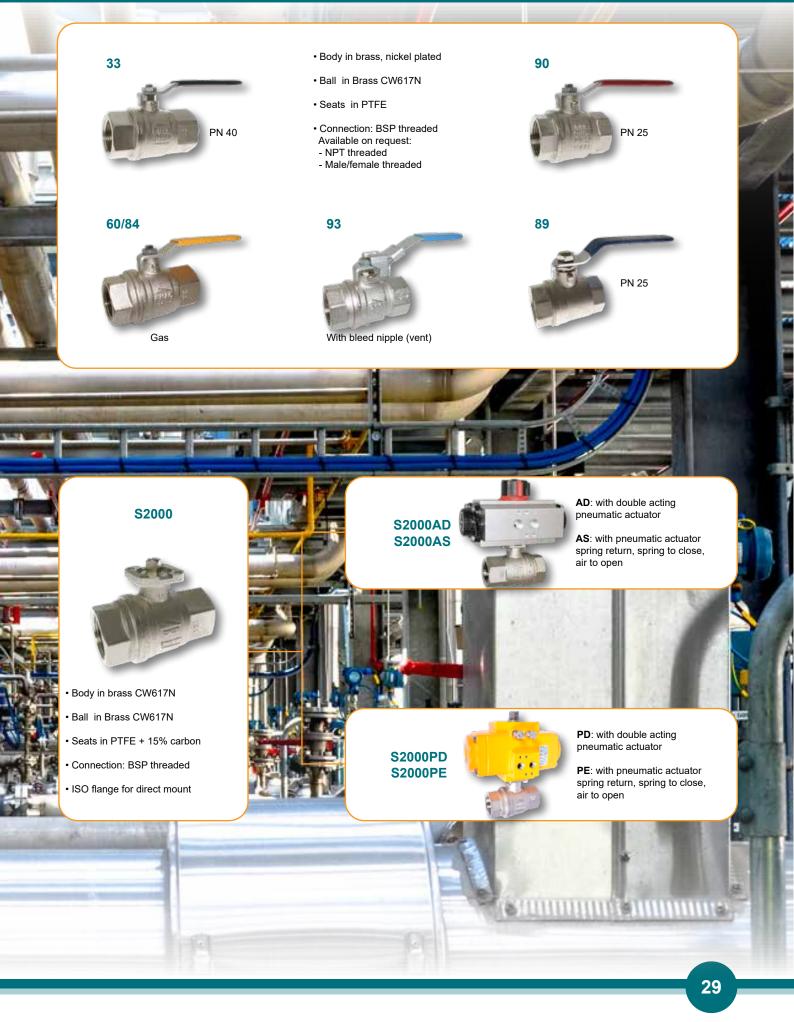
V-control ball high-quality flow control, play-free (optional)







BRASS



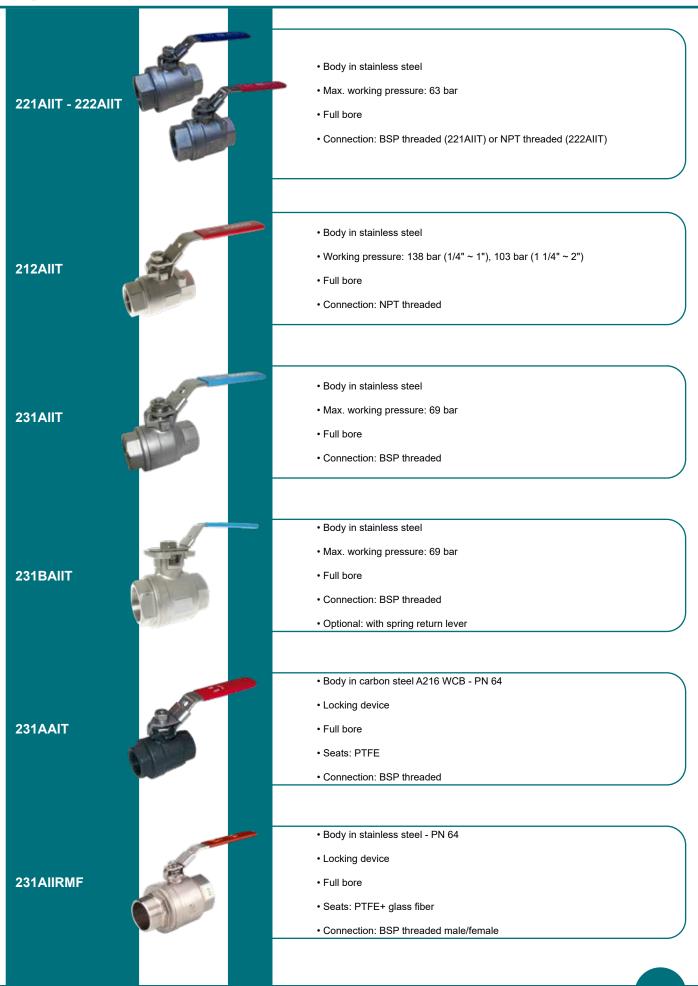








TWO-PIECE





ALSO AVAILABLE

Sodeco Valves sizes, builds and performs a functional test on all automated

valves. Thanks to our experienced people and our own assembly workshop with test bench we can offer flexible solutions to our customers and we aim for 100% customer satisfaction.

Ask us about our possibilities!





NOTES



NOTES



NOTES



www.sodeco-valves.com