

Innovation | Commitment



INDUSTRIAL FLOATING BALL VALVES

FLOWING YOUR ENERGY

COMPANY



We are Vinco Valves, an European ball valve manufacturer with over 30 years of experience in the market, based near Porto, in the north of Portugal, with a 5.000m² modern facilities.

The focus on technological development and the strengthen of its know-how has allowed us to expand to new markets, being recognized for our ability to develop solutions that fulfill the market's demands. As a consequence we have developed in the past years a range of products for oil & gas, hydrogen, sanitary, chemical and cryogenic industries.

We have a dedicated team ready to respond to the most demanding requests, knowing that the key word here is the quality of all our products and services. We are responsible for the design, development, assembly and testing under the highest quality standards of all our products.



1 TECHNICAL INFORMATION 4-7

- General Features
- Fire Safe Design
- Fugitive Emissions
- Contamination Free System
- Certifications and Standard
- Applications

2 VALVES SERIES 8-39



CF SERIES 8



XF SERIES 12



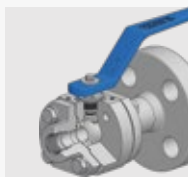
QF SERIES 14



SF SERIES 18



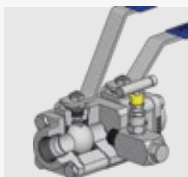
BF SERIES 22



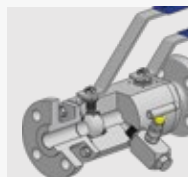
HF SERIES 28



DCF SERIES 32



DXF SERIES 36

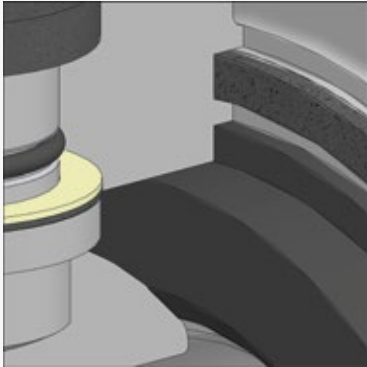


DF SERIES 38

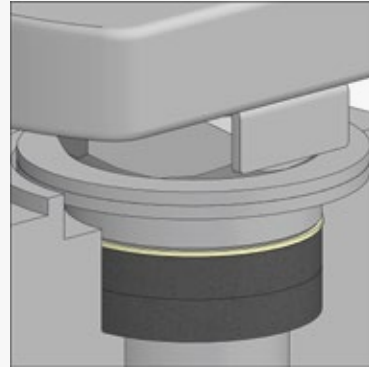
3 OPTIONS 40-42

- Lockable Handle
- Stem Extension
- Oval Handle
- Complete Automation
- Ball Configurations
- Other ranges

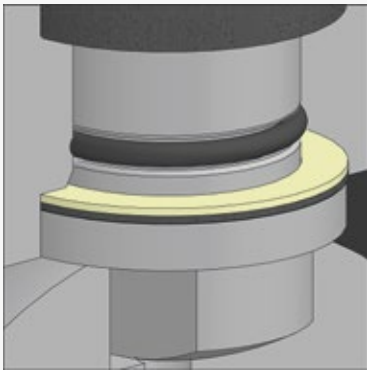
GENERAL FEATURES



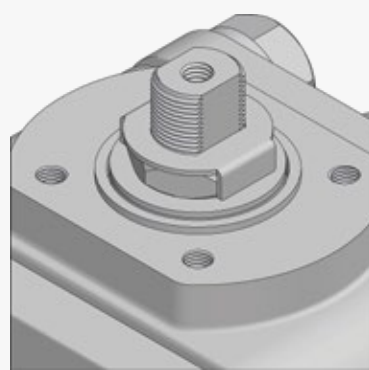
Double encapsulated body seals for extra resistance and tightness performance



Self-adjust live loaded packing system ensures longer service without maintenance and spare parts replacement

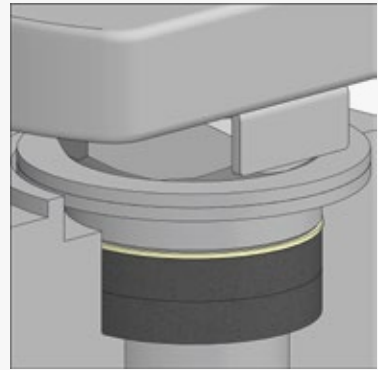
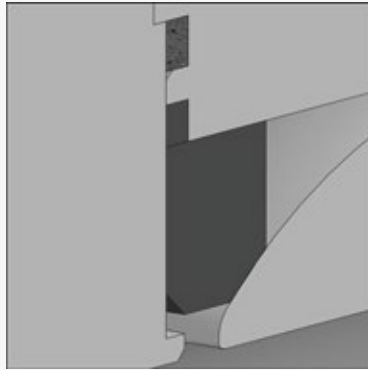
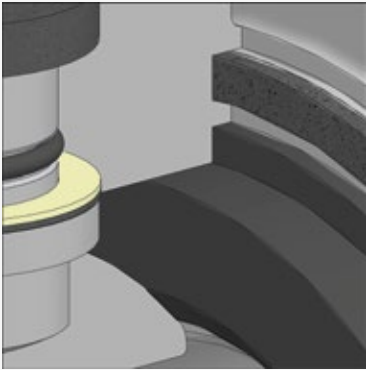


Anti-static device ensures the electrical conductivity between body, end, ball and stem according to European directive 2014/34/EU (ATEX)



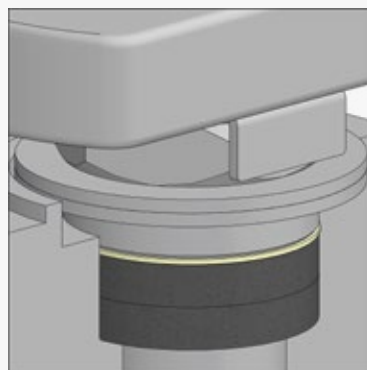
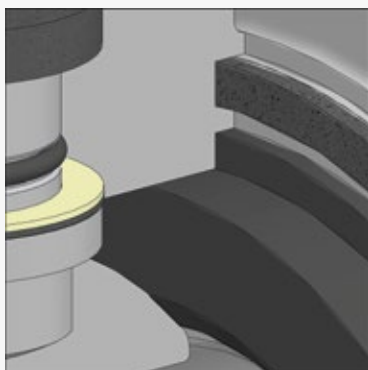
Top flange fitted with ISO 5211 providing universal connection for automation

FIRE SAFE DESIGN



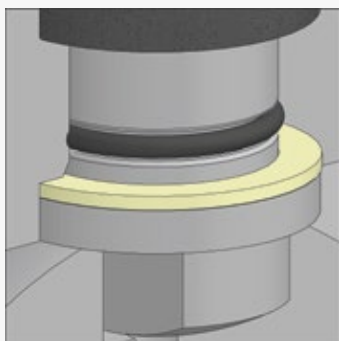
Firesafe design according to ISO 10497 and API 607 for critical services. Primary layer of TFE prevents graphite contamination into the media assuring the cleanliness of the processes. A metal backseat system allows the sealing in the event of a fire ensuring the tightness of the process.

FUGITIVE EMISSIONS

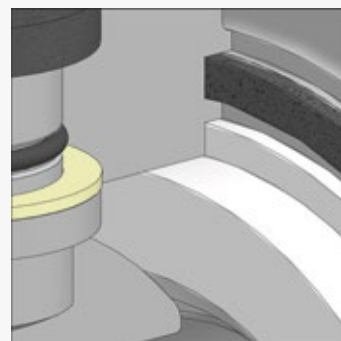


Fugitive emissions design according to ISO 15848 and TA LUFT / VDI 2440 reducing the potentially emission to the environment, the hydrogen losses and the risk of ignition.

CONTAMINATION FREE SYSTEM (UPON REQUEST)



High purity hydrogen is an important requirement in some processes to guarantee high levels of quality and process performance and efficiency while keeping the valve with the firesafe safe design. To perform this the valves are designed with double insulation system where the first line is made from inert polymeric materials isolating the hydrogen media from any contact with graphite parts. This design is capable to avoid any contamination ensuring the high purity levels of the processes.



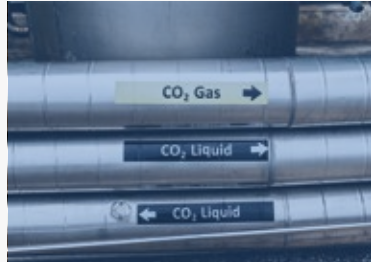
CERTIFICATIONS AND STANDARDS

CERTIFICATION	CONSTRUCTION STANDARDS	TEST STANDARDS
CE Certification acc. to PED 2014/68/EU	ASME B16.34	
Fire Safe Design acc to API 607 Ed.6 / ISO 10497	ASME B16.25 & B36.10M	Test applied:
CE Certification acc. to ATEX II 2 GD 2014/34/EU	ASME B16.10	Hydrostatic shell and seat test
Company Quality System Certified acc. to ISO 9001	ASME B16.11	Pneumatic shell and seat test
SIL certification acc. to IEC 61508 (SIL 3)	ASME B1.20.1	Helium Test
Fugitive Emission Class BH acc. to ISO 15848 and TA-LUFT (VDI2440) CO1 (-46°C to RT)	ISO 7-1 / 228-1	Available Upon Request
	ISO 17292-1	EN 10204 type 3.1 certificate is available for each valve
	DIN EN 1092-1	
	EN 558-1	

APPLICATIONS



Ammonia (NH₃)



Liquefied carbon dioxide (LCO₂)



Liquefied Petroleum Gas (LPG)



N-Methyl pyrrolidone (NMP)



Oxygen (O₂)



Desalination



Water and Pulp & Paper



Biomethane (CH₄)



Ethanol (C₂H₆O)

INDUSTRIAL FLOATING BALL VALVES

CF Series

2 Way
Investment Cast

The CF Series is a floating split body cast ball valve, specifically designed for industrial applications up to PN40 (40 bar).

Applications

It's a true all-rounder and covers a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, carbon capture, mining, waste water, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

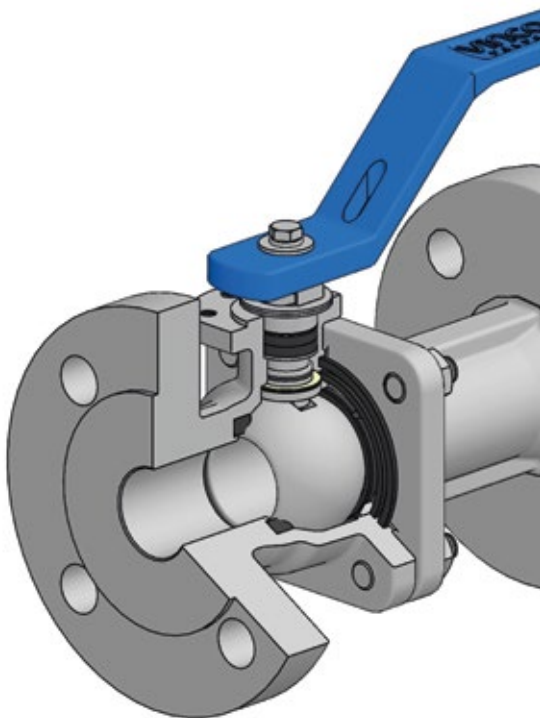
DIN PN 16 / 40

Full Bore: DN15 - 200

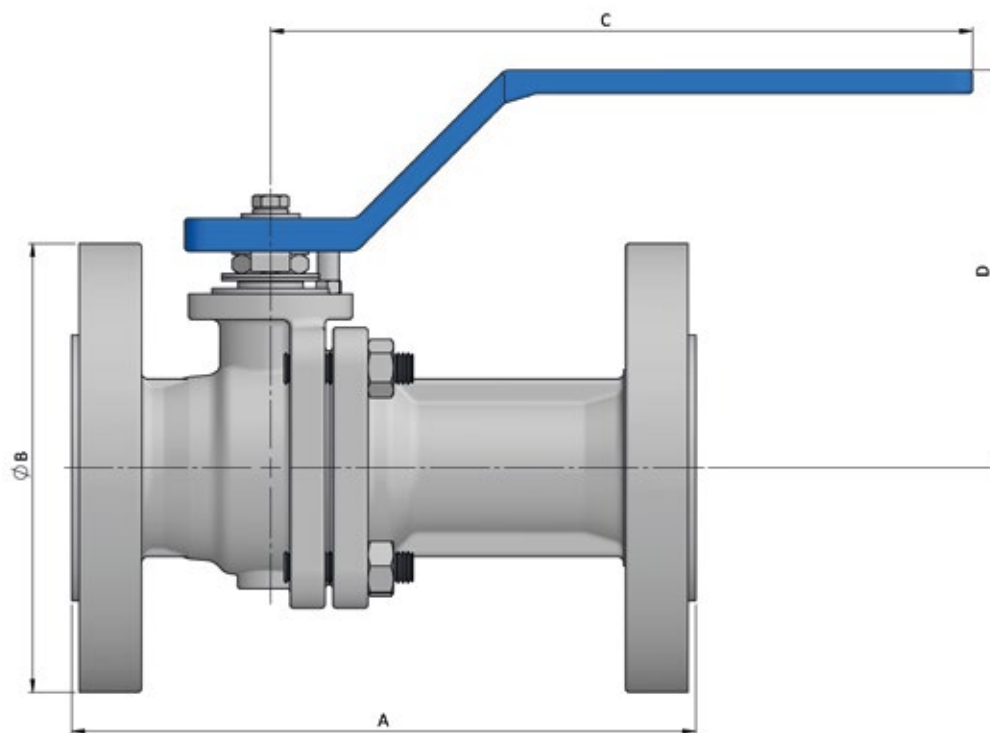
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD	
		LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		1.6220	1.4408
TRIM	Ball	1.4408	
	Stem	1.4401 / 4	
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A4 CL.70	



mm in

DN	PN	BORE	A			B	C	D	ISO 5211	kg lbs		
			F1	F4	F5					F1	F4	F5
65	16	62 2.44	290 11.42	170 6.69	-	185 7.28	360 14.17	175 6.89	F07	18 39.68	14 30.87	-
80		75 2.95	310 12.20	180 7.09	-	200 7.87	420 16.54	190 7.48	F10	26 57.32	22 48.50	-
100		100 3.94	350 13.78	190 7.48	-	220 8.66	480 18.90	225 8.86	F10	40 88.19	35 77.16	-
150		150 5.91	-	-	350 13.78	285 11.22	GEARBOX		F14	-	-	105 231.49
200		201 7.91	-	-	400 15.75	340 13.39			F16	-	-	195 425.90

DN	PN	BORE	A		B	C	D	ISO 5211	kg lbs	
			F1	F4					F1	F4
15	40	15.1 0.59	130 5.12	115 4.53	95 3.74	180 7.09	90 3.54	F04	3 6.61	2.5 5.51
20		20.6 0.81	150 5.91	120 4.72	105 4.13	180 7.09	100 3.94	F04	4 8.82	3.5 7.72
25		25.4 1.00	160 6.30	125 4.92	115 4.53	180 7.09	105 4.13	F04	4.5 9.92	4 8.82
32		31.8 1.25	180 7.09	130 5.12	140 5.51	210 8.27	125 4.92	F05	6.5 14.33	6 13.23
40		38.1 1.50	200 7.87	140 5.51	150 5.91	210 8.27	130 5.12	F05	8.5 18.74	7.5 16.54
50		49 1.93	230 9.06	150 5.91	165 6.50	300 11.81	150 5.91	F07	14 30.87	12 26.46
65		62 2.44	290 11.42	170 6.69	185 7.28	360 14.17	175 6.89	F07	20 44.09	17 37.48
80		75 2.59	310 12.20	180 7.09	200 7.87	420 16.54	190 7.48	F10	30 66.14	25 55.12
100		100 3.94	350 13.78	190 7.48	235 9.25	480 18.90	225 8.86	F10	45 99.21	36 79.37
150		150 5.91	403* 15.87*		300 11.81	GEARBOX		F14	110 242.51	
200		201 7.91	502* 19.76*		375 14.76			F16	120 264.56	

*FTF=CL300

INDUSTRIAL FLOATING BALL VALVES

CF Series

2 Way
Investment Cast

The CF Series is a floating split body cast ball valve, specifically designed for industrial applications up to CL600 (100 bar/1500 psi).

Applications

It's a true all-rounder and covers a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, carbon capture, desalination plants, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

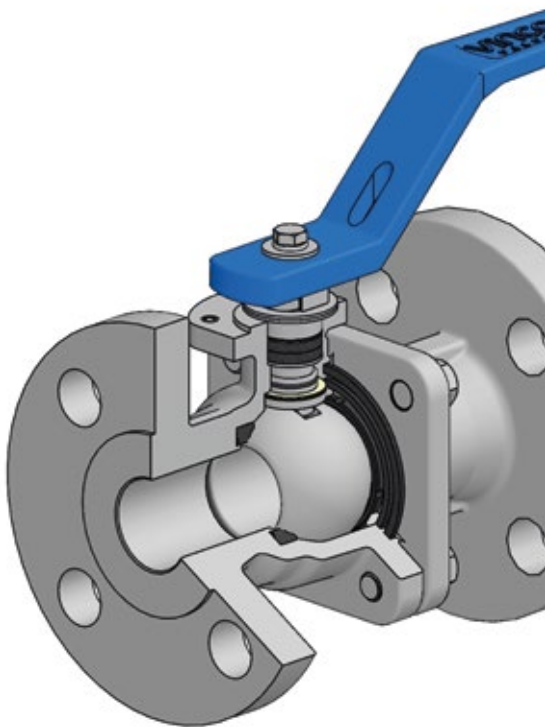
ASME CL 150 to 600

Full Bore: ½" - 8"

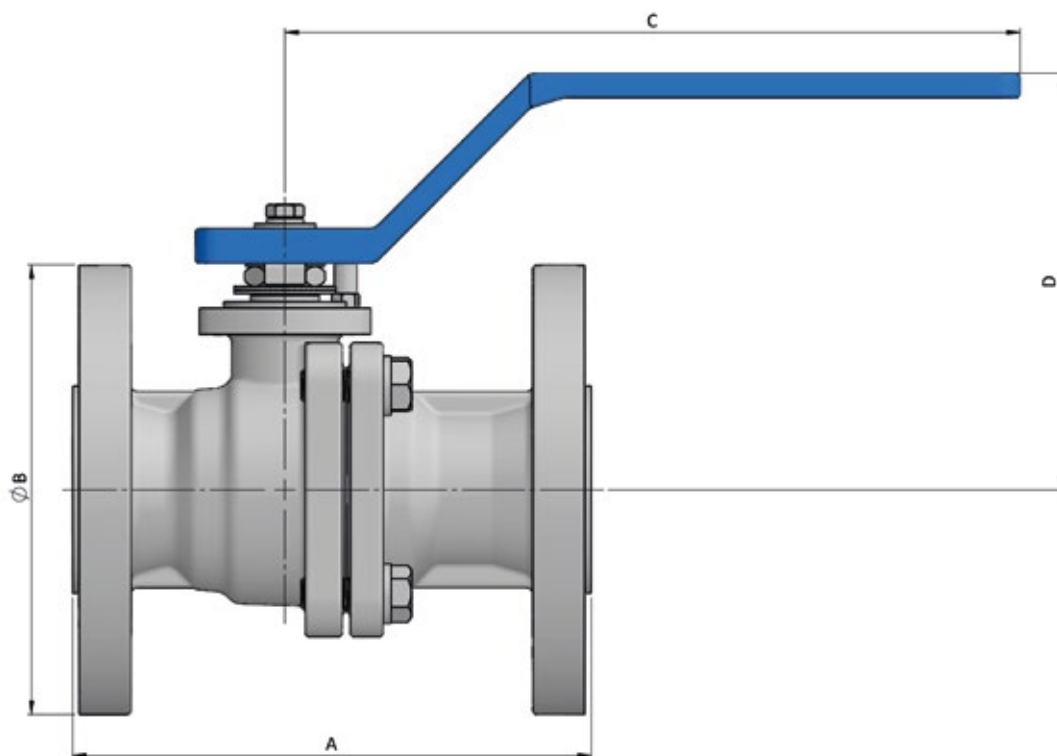
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD	
		LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		A352 LCC	A351 CF8M
TRIM	Ball	A351 CF8M	
	Stem	A479 316/L	
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A320 Gr. L7M	A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A		B		C	D	ISO 5211	kg lbs	
			CL 150	CL 300	CL 150	CL 300				CL 150	CL 300
½"	150 300 - 300 750	15.1 0.59	108 4.25	140 5.51	90 3.54	95 3.74	180 7.09	90 3.54	F04	2 4.41	2 4.41
¾"		20.6 0.81	117 4.61	152 5.98	100 3.94	115 4.53	180 7.09	100 3.94	F04	2.5 5.51	3.5 7.72
1"		25.4 1.00	127 5.00	165 6.50	110 4.33	125 4.92	180 7.09	105 7.09	F04	3.5 7.72	5 11.02
1½"		38.1 1.50	165 6.50	190 7.48	125 4.92	155 6.10	210 8.27	130 8.27	F05	6 13.23	9 19.84
2"		49 1.93	178 7.01	216 8.50	150 5.91	165 6.50	300 11.81	150 5.91	F07	10 22.05	15 33.07
2½"		62 2.44	190 7.48	241 9.49	180 7.09	190 7.48	360 14.17	175 6.89	F07	20 44.09	25 55.12
3"		75 2.59	203 7.99	282 11.10	190 7.48	210 8.27	420 16.54	190 7.48	F10	25 55.12	30 66.14
4"		100 3.94	229 9.02	305 12.01	230 9.06	255 10.04	480 18.90	225 8.86	F10	40 88.19	50 110.23
6"		150 5.91	394 15.51	403 15.87	280 11.02	320 12.60	GEARBOX		F14	125 275.58	145 319.67
8"		201 7.91	457 17.99	502 19.76	345 13.58	380 14.96			F16	220 485.02	270 595.25

DN	CLASS psi	BORE	A	B	C	D	ISO 5211	kg lbs
½"	600 1500	15.1 0.59	165 6.50	95 3.74	180 7.09	90 3.54	F04	3 6.61
¾"		20.6 0.81	190 7.48	115 4.53	180 7.09	100 3.94	F04	4 8.82
1"		25.4 1.00	216 8.50	125 4.92	180 7.09	105 7.09	F04	5.5 12.13
1½"		38.1 1.50	241 9.49	155 6.10	210 8.27	130 8.27	F05	10.5 23.15
2"		49 1.93	292 11.50	165 6.50	300 11.81	150 5.91	F07	15 33.07

XF Series

2 Way
Investment Cast

The XF Series is a robust floating 3-piece bolted, cast ball valve, specifically designed for industrial applications up to CL800 (138 bar/2000 psi).

Applications

Designed for easy, in-line maintenance, it's a great choice for any on-off service applications, including: oil & gas, chemical, petrochemical, pulp & paper, carbon capture, industrial gases, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

ASME CL 800 to 150

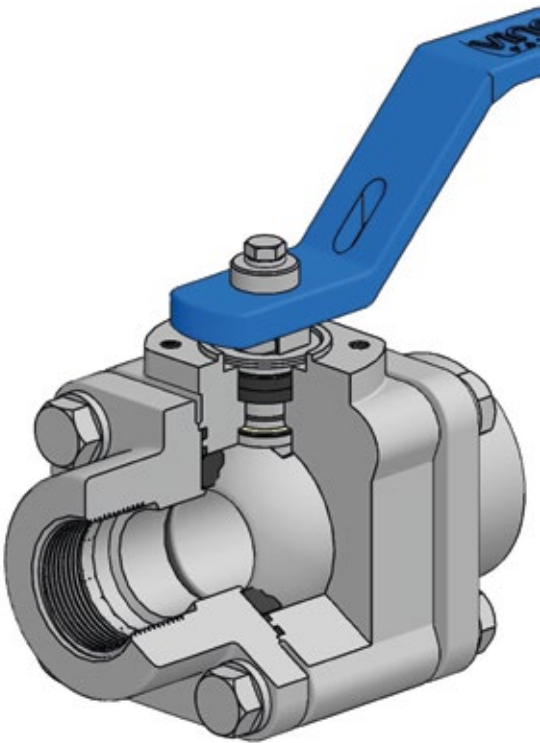
Full Bore: $\frac{3}{8}$ " - 6"

Reduced Bore: $\frac{1}{2}$ " - 6"

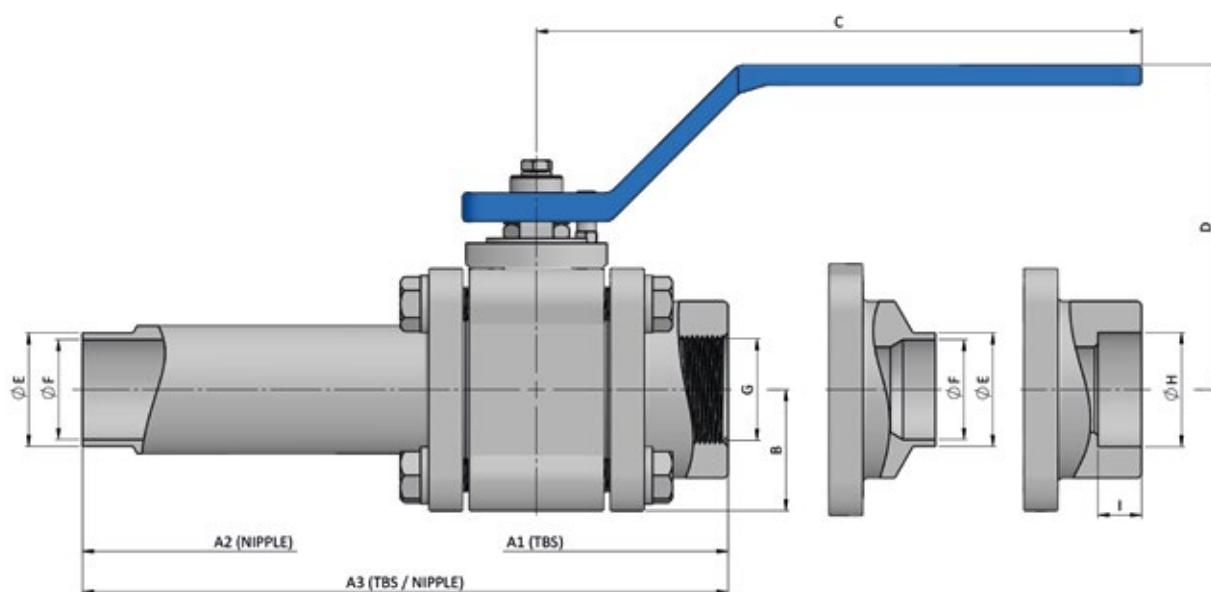
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD		
		CARBON STEEL	LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		A216 WCB	A352 LCC	A351 CF3M
TRIM	Ball	A351 CF8M		
	Stem	A479 316/L		
Seats		C-RPTFE		
O'ring		FKM		
Packing & Seals		C-RPTFE & GRAPHITE		
Bolting		A320 Gr. L7M		A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	H	I	ISO 5211	kg lbs		
															A1	A2	
⅜"	800 2000	11.9 0.47	70 2.76	-	-	25 0.98	150 5.91	75 2.95	NPT / BSPT SW BW & BW Nipple						F03	1 2.21	-
½"	800 2000	15.1 0.59	75 2.99	250 9.84	162.5 6.40	27.5 1.08	150 5.91	80 3.15							F03	1.2 2.65	1.6 3.53
¾"	800 2000	20.6 0.81	90 3.54	260 10.24	175 6.89	32.5 1.28	180 7.09	95 3.74							F04	2 4.41	2.5 5.51
1"	800 2000	25.4 1.00	100 3.94	270 10.63	185 7.28	37.5 1.48	180 7.09	100 3.94							F04	3 6.61	3.5 7.72
1¼"	800 2000	31.8 1.25	115 4.53	280 11.02	197.5 7.78	42.5 1.67	210 8.27	120 4.72							F05	4.5 9.92	6 13.23
1½"	800 2000	38.1 1.50	125 4.92	290 11.42	207.5 8.17	47.5 1.87	210 8.27	125 4.92							F05	6 13.23	7 15.43
2"	800 2000	49 1.93	165 6.50	310 12.20	237.5 9.35	65 2.56	300 11.81	140 5.51							F07	10.5 23.15	11.5 25.35
2½"	400 1000	62 2.44	190 7.48	330 12.99	260 10.24	80 3.15	360 14.17	170 6.69							F07	17.5 38.58	19 41.89
3"	400 1000	75 2.59	215 8.46	350 13.78	282.5 11.12	95 3.74	420 16.54	185 7.28							F10	25.5 56.22	26.5 58.42
4"	300 750	100 3.94	265 10.43	390 15.35	327.5 12.89	115 4.53	480 18.90	225 8.86							F10	45 99.21	47 103.62
6"	150 300	150 5.91	365 14.37	450 17.72	407.5 16.04	162.5 6.40	GEARBOX		BW & BW Nipple				F14	122 268.96	122 268.96		

INDUSTRIAL FLOATING BALL VALVES

QF Series

Multiport
Investment Cast

The QF Series is a 3/4/5-way floating, cast ball valve, specifically designed for industrial applications up to PN40 (40 bar).

Applications

Designed for easy installation and maintenance, it's a great choice for any service applications, including: oil & gas, chemical, petrochemical, pulp & paper, with a variety of seat designs.

Features

- Multiport floating ball | Soft seated | L/T/X Port
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats

Optional Features

- Food grade compatible version (CE1935/2004 version)

DIN PN 16 / 40*

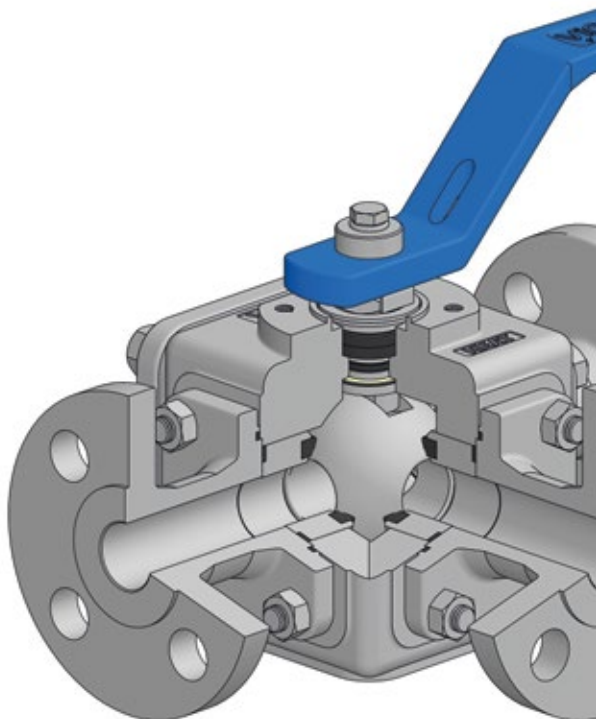
Full Bore: DN 15 - 100

*The working pressure is limited to 20 bar to ensure a good tightness performance since the design of this kind of valve is to direct the fluid through different ports, which reduces the tightness capabilities of the valve.

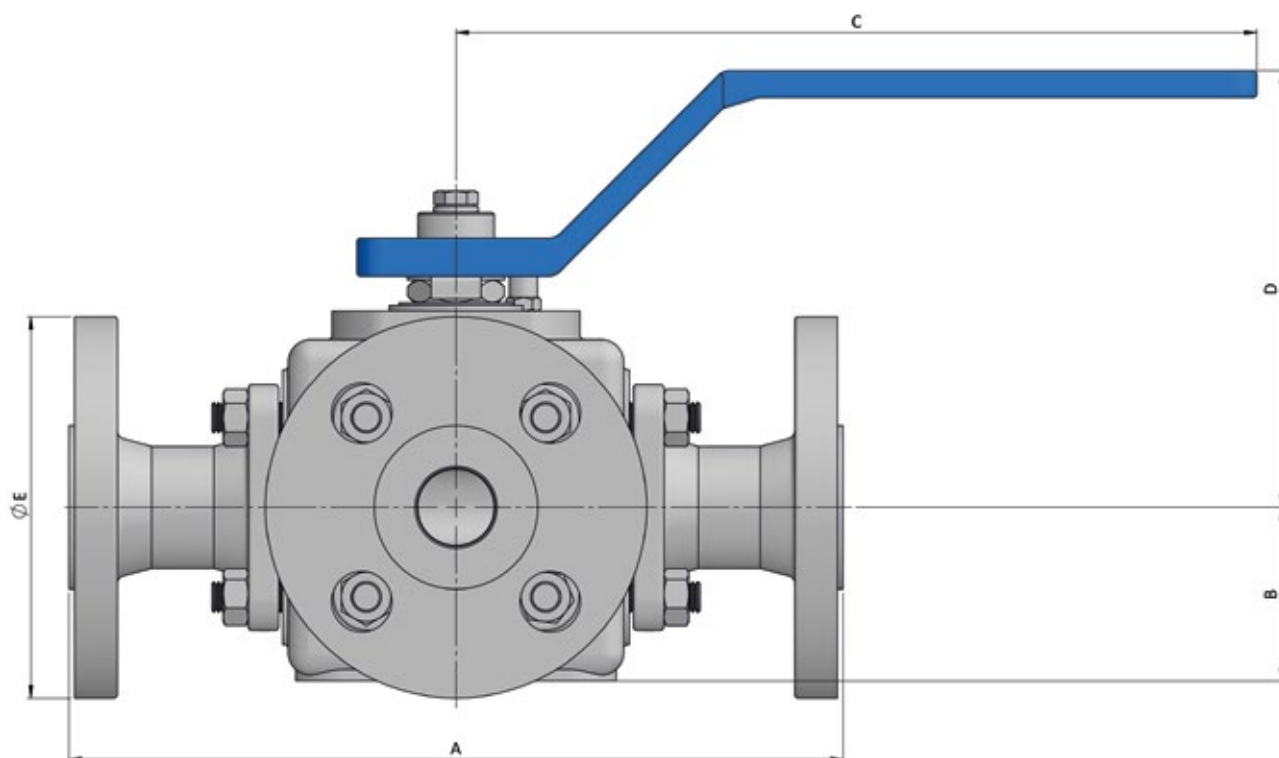
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD		
		CARBON STEEL	LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body		1.0619	1.6220	1.4409
Ends		1.0619	1.6220	1.4408
TRIM	Ball	A351 CF3M		
	Stem	A479 316/L		
Seats		C-RPTFE		
O'ring		FKM		
Packing & Seals		C-RPTFE & GRAPHITE		
Bolting		A4 CL.70		



mm in

DN	PN	BORE	A	B	C	D	E	ISO 5211	kg lbs
15	40	15.8 0.62	175 6.89	35 1.38	180 7.09	95 3.74	95 3.74	F04	6 13.23
20	40	22.1 0.87	205 8.07	45 1.77	210 8.27	115 4.53	105 4.13	F05	10.5 23.15
25	40	25.4 1.00	210 8.27	45 1.77	210 8.27	115 4.53	115 4.53	F05	11.5 25.35
32	40	34.8 1.37	230 9.06	60 2.36	210 8.27	130 5.12	140 5.51	F05	20 44.09
40	40	38 1.50	235 9.25	60 2.36	210 8.27	130 5.12	150 5.91	F05	21.5 47.40
50	40	47.5 1.87	290 11.42	85 3.35	300 11.81	160 6.30	165 6.50	F07	51 112.44
80	16	75 2.95	370 14.57	90 3.54	420 16.54	185 7.28	200 7.87	F10	58 127.87
100	16	100 3.94	405 15.94	115 4.53	480 18.90	215 8.46	220 8.66	F10	98 216.05

INDUSTRIAL FLOATING BALL VALVES

QF Series

Multiport
Investment Cast

The QF Series is a 3/4/5-way floating, cast ball valve, specifically designed for industrial applications up to CL600 (100 bar/1500 psi).

Applications

Designed for easy installation and maintenance, it's a great choice for any service applications, including: oil & gas, chemical, petrochemical, pulp & paper, with a variety of seat designs.

Features

- Multiport floating ball | Soft seated | L/T/X Port
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats

Optional Features

- Food grade compatible version (CE1935/2004 version)

ASME CL 150 to 600*

Full Bore: ½" - 4"

Reduced Bore**: ¾" - 4"

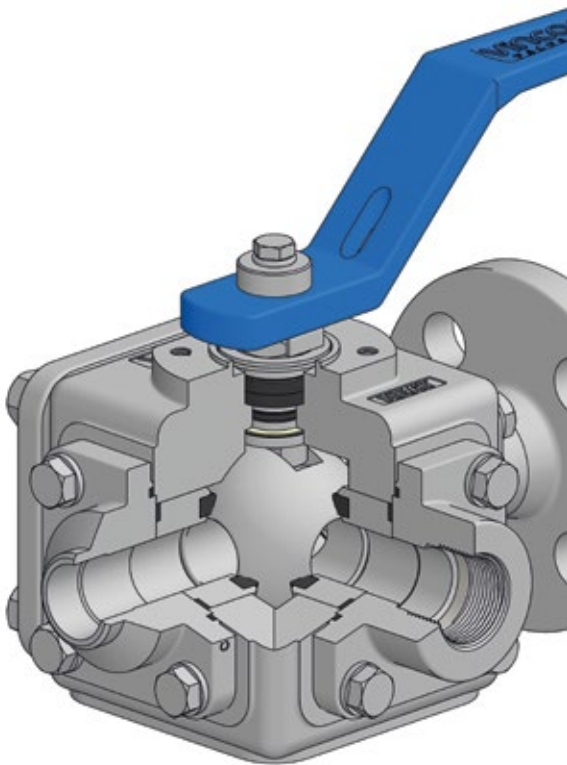
**Only available in TBS ends

*The working pressure is limited to 20 bar to ensure a good tightness performance since the design of this kind of valve is to direct the fluid through different ports, which reduces the tightness capabilities of the valve.

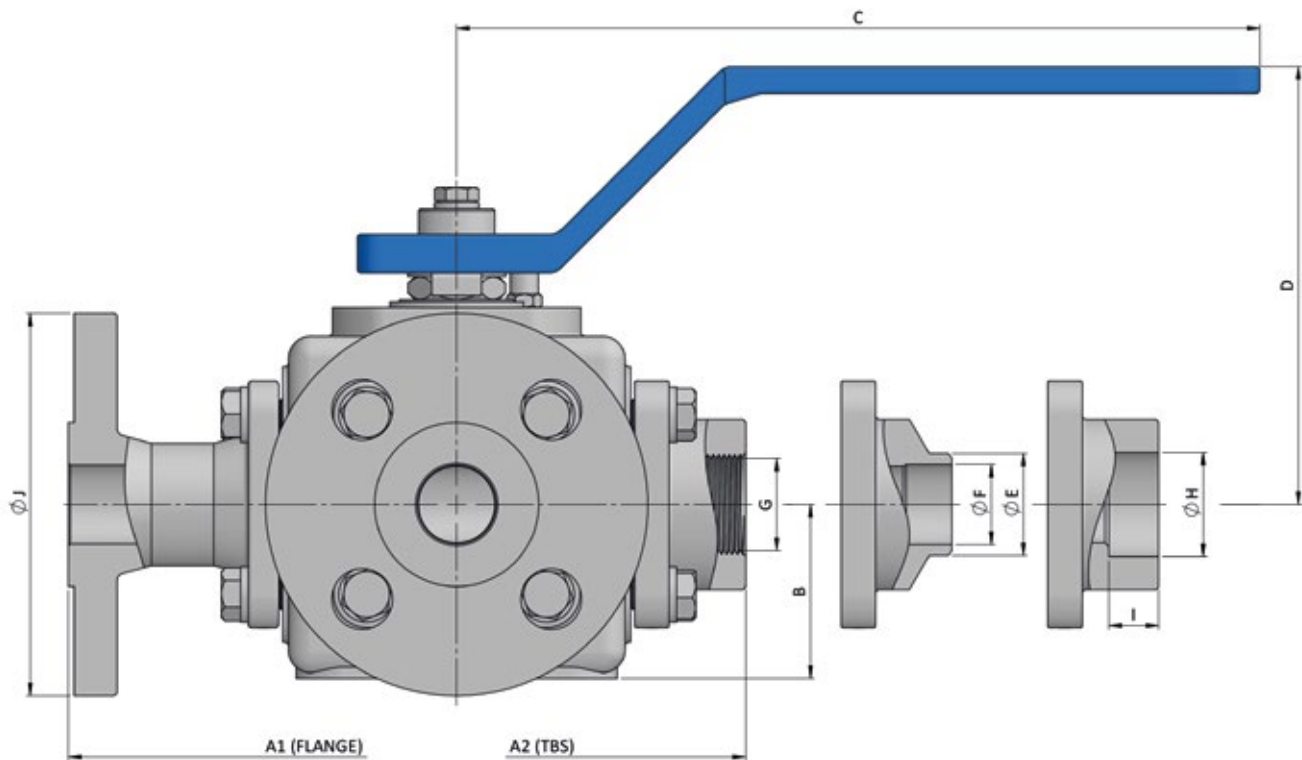
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD		
		CARBON STEEL	LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body		A216 WCB	A352 LCC	A351 CF3M
ENDS	TBS	A216 WCB	A352 LCC	A351 CF3M
	FLG RF	A216 WCB	A352 LCC	A351 CF8M
TRIM	Ball	A351 CF3M		
	Stem	A479 316/L		
Seats		C-RPTFE		
O'ring		FKM		
Packing & Seals		C-RPTFE & GRAPHITE		
Bolting		A320 Gr. L7M		A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A1	A2	B	C	D	E	F	G	H	I	J	ISO 5211	kg lbs		
															A1	A2	
½"	150 300 - 600* 1500*	15.8 0.62	175 6.89	115 4.53	35 1.38	180 7.09	95 3.74	NPT / BSPT SW BW & BW Nipple						90 3.54	F04	5.5 12.13	3.5 7.72
¾"		22.1 0.87	205 8.07	145 5.71	45 1.77	210 8.27	115 4.53							100 3.94	F05	10 22.05	7.5 16.54
1"		25.4 1.00	210 8.27	150 5.91	45 1.77	210 8.27	115 4.53							110 4.33	F05	10.5 23.15	8 17.64
1½"		38 1.50	235 9.25	185 7.28	60 2.36	210 8.27	130 5.12							125 4.92	F05	19.5 42.99	15.5 34.17
2"		47.5 1.87	290 11.42	265 10.43	85 3.35	300 11.81	160 6.30							150 5.91	F07	49 108.03	41 90.39
3"		75 2.95	400 15.75	330 12.99	90 3.54	420 16.54	185 7.28							190 7.48	F10	62 136.69	52 114.64
4"		100 3.94	450 17.72	395 15.55	115 4.53	480 18.90	215 8.46							230 9.06	F10	107 235.90	93 205.03

DN	CLASS psi	BORE	A1	A2	B	C	D	E	F	G	H	I	J	ISO 5211	kg lbs		
															A1	A2	
½"	300 750 - 600* 1500*	15.8 0.62	210 8.27	115 4.53	35 1.38	180 7.09	95 3.74	NPT / BSPT SW BW & BW Nipple						95 3.74	F04	6 13.23	3.5 7.72
¾"		22.1 0.87	240 9.45	145 5.71	45 1.77	210 8.27	115 4.53							115 4.53	F05	11 24.25	7.5 16.54
1"		25.4 1.00	260 10.24	150 5.91	45 1.77	210 8.27	115 4.53							125 4.92	F05	12.5 27.56	8 17.64
1½"		38 1.50	300 11.81	185 7.28	60 2.36	210 8.27	130 5.12							155 6.10	F05	24 52.91	15.5 34.17
2"		47.5 1.87	380 14.96	265 10.43	85 3.35	300 11.81	160 6.30							165 6.50	F07	54 119.05	41 90.39

*Only available in TBS ends

SF4 Series

2 Way
Forged

The SF4 Series delivers reliability in a floating 3-piece bolted, forged ball valve, specifically designed for industrial applications up to CL800 (138 bar/2000 psi).

Applications

Designed for easy, in-line maintenance, it's a great choice for any on-off service applications, including: oil & gas, chemical, petrochemical, pulp & paper, carbon capture, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

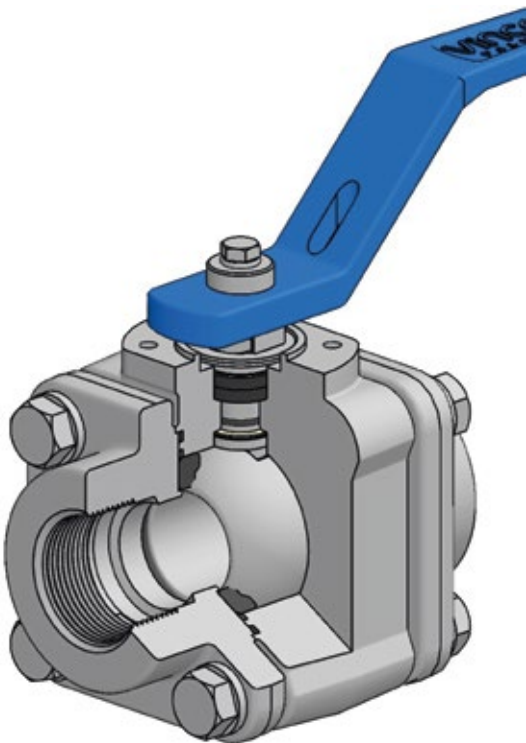
- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

ASME CL 800

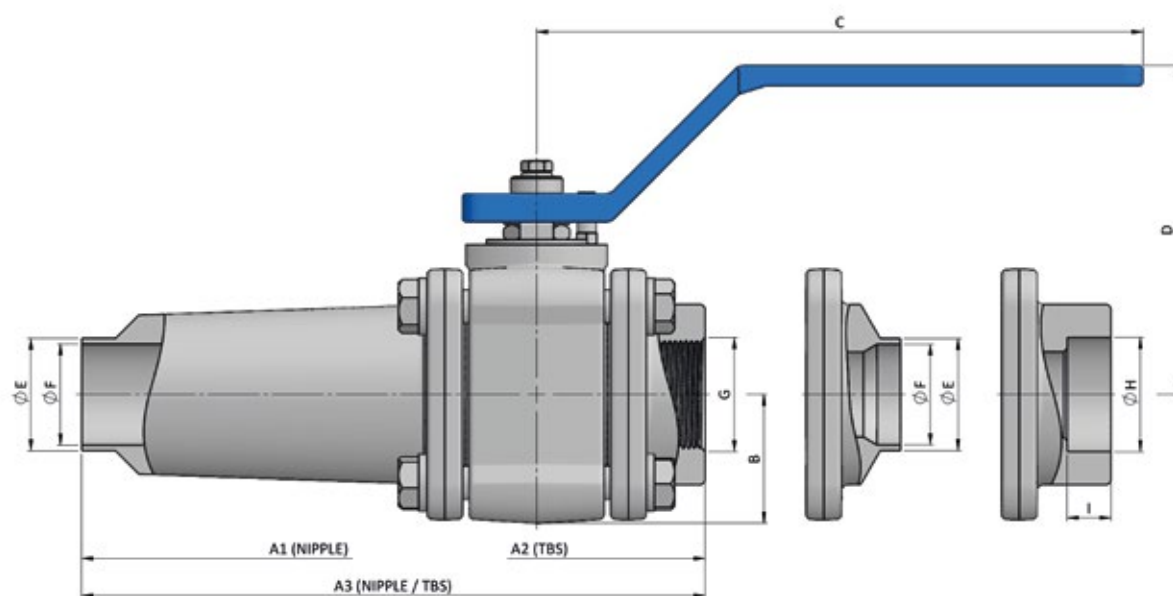
Full Bore: ½" - 1½"

DESIGN TEMPERATURE

-46°C to 240°C
-50.8°F to 464°F



PART		STANDARD LOW TEMP. CARBON STEEL
Body / Ends		A105N-LF2
TRIM	Ball	A351 CF8M
	Stem	A479 316/L
Seats		C-RPTFE
O'ring		FKM
Packing & Seals		C-RPTFE & GRAPHITE
Bolting		A320 Gr. L7M



mm in

DN	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	H	I	ISO 5211	kg lbs		
															A1	A2	
15	800 2000	15.1 0.59	250 9.84	75 2.95	162.5 6.40	27.5 1.08	150 5.91	80 3.15	NPT / BSPT SW BW & BW Nipple						F03	2.3 5.07	1.4 3.09
20		20.6 0.81	260 10.24	90 3.54	175 6.89	33.5 1.32	180 7.09	95 3.74							F04	3.8 8.38	2.4 5.29
25		25.4 1.00	270 10.63	100 3.94	185 7.28	37 1.46	180 7.09	100 3.94							F04	5 11.02	3.1 6.83
32		31.8 1.25	280 11.02	115 4.53	197.5 7.78	44 1.73	210 8.27	120 4.72							F05	7.2 15.87	5 11.02
40		38.1 1.50	290 11.42	125 4.92	207.5 8.17	49 1.93	210 8.27	125 4.92							F05	9.1 20.06	6.7 14.77

INDUSTRIAL FLOATING BALL VALVES

SF2 Series

2 Way
Barstock

The SF2 Series delivers reliability in a floating 3-piece bolted, barstock ball valve, specifically designed for industrial applications up to CL800 (138 bar/2000 psi).

Applications

Designed for easy, in-line maintenance, it's a great choice for any on-off service applications, including: oil & gas, chemical, petrochemical, pulp & paper, carbon capture, desalination plants, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

ASME CL 800 to 300

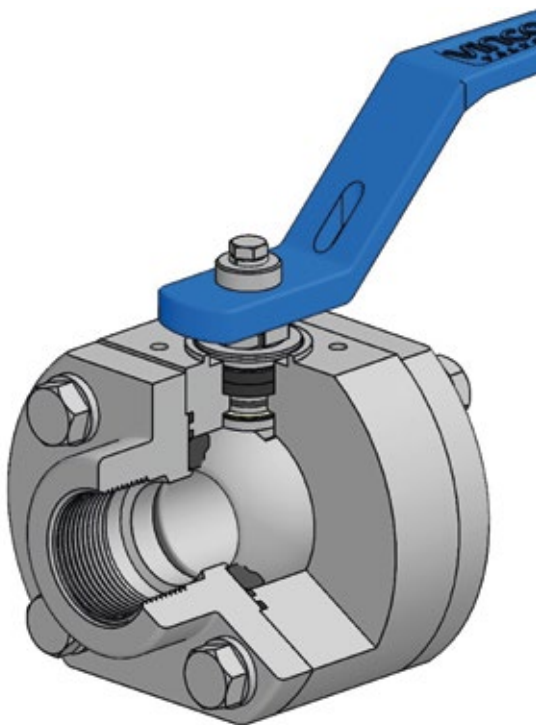
Full Bore: ½" - 4"

Reduced Bore: ¾" - 4"

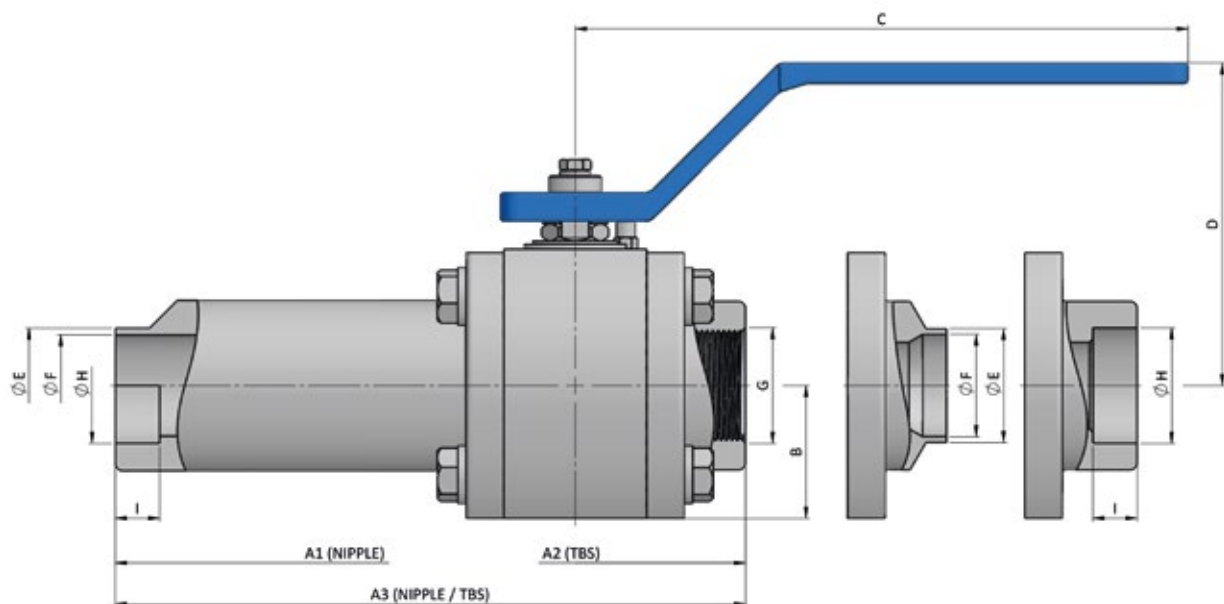
DESIGN TEMPERATURE

-46°C to 240°C

-50.8°F to 464°F



PART		STANDARD	
		DUPLEX STEEL	SUPER DUPLEX STEEL
Body / Ends		A479 S31803	A479 S32760
TRIM	Ball	A351 CD3MN	A995 CD3MNCuN
	Stem	A479 S31803	A479 S32760
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A193 Gr. B8M cl.2	



mm in

DN	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	H	I	ISO 5211	kg lbs		
															A1	A2	
½"	800 2000	15.1 0.59	250 9.84	75 2.95	162.5 6.40	28 1.10	150 5.91	75 2.95	NPT / BSPT SW & SW Nipple BW & BW Nipple						F03	2.6 5.73	1.7 3.75
¾"	800 2000	20.6 0.81	260 10.24	90 3.54	175 6.89	35 1.38	180 7.09	90 3.54							F04	4.4 9.70	2.9 6.39
1"	800 2000	25.4 1.00	270 10.63	100 3.94	185 7.28	40 1.57	180 7.09	95 3.74							F04	4.7 10.36	3 6.61
1¼"	800 2000	31.8 1.25	280 11.02	115 4.53	197.5 7.78	45 1.77	210 8.27	110 4.33							F05	6.8 14.99	5 11.02
1½"	800 2000	38.1 1.50	290 11.42	125 4.92	207.5 8.17	50 1.97	210 8.27	115 4.53							F05	10.2 22.49	7.3 16.09
2"	600 1500	49 1.93	300 11.81	150 5.91	225 8.86	60 2.36	300 11.81	125 4.92							F07	15.4 33.95	11 24.25
2½"	400 1000	62 2.44	320 12.60	190 7.48	255 10.04	71 2.80	360 14.17	150 5.91							F07	24.8 54.67	20 44.09
3"	400 1000	75 2.95	340 13.39	215 8.46	277.5 10.93	82.5 3.25	420 16.54	170 6.69							F10	30.6 67.46	28.5 62.83
4"	300 750	100 3.94	370 14.57	260 10.24	315 12.40	102 4.02	480 18.90	195 7.68							F10	51 112.43	50 110.23

INDUSTRIAL FLOATING BALL VALVES

BF Series

2 Way
Barstock

The BF Series is a floating split body barstock ball valve, specifically designed for industrial applications up to PN40 (40 bar).

Applications

It matches a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, mining, ammonia, desalination plants, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

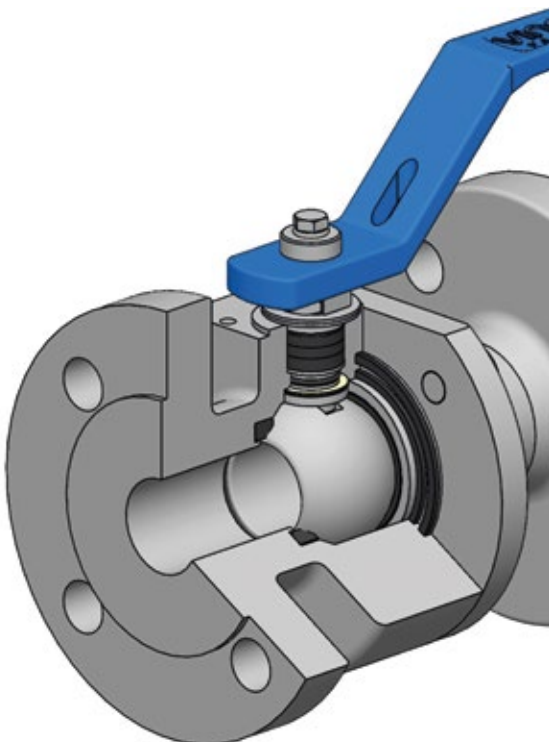
DIN PN 16 / 40

Full Bore: DN 15 - 200

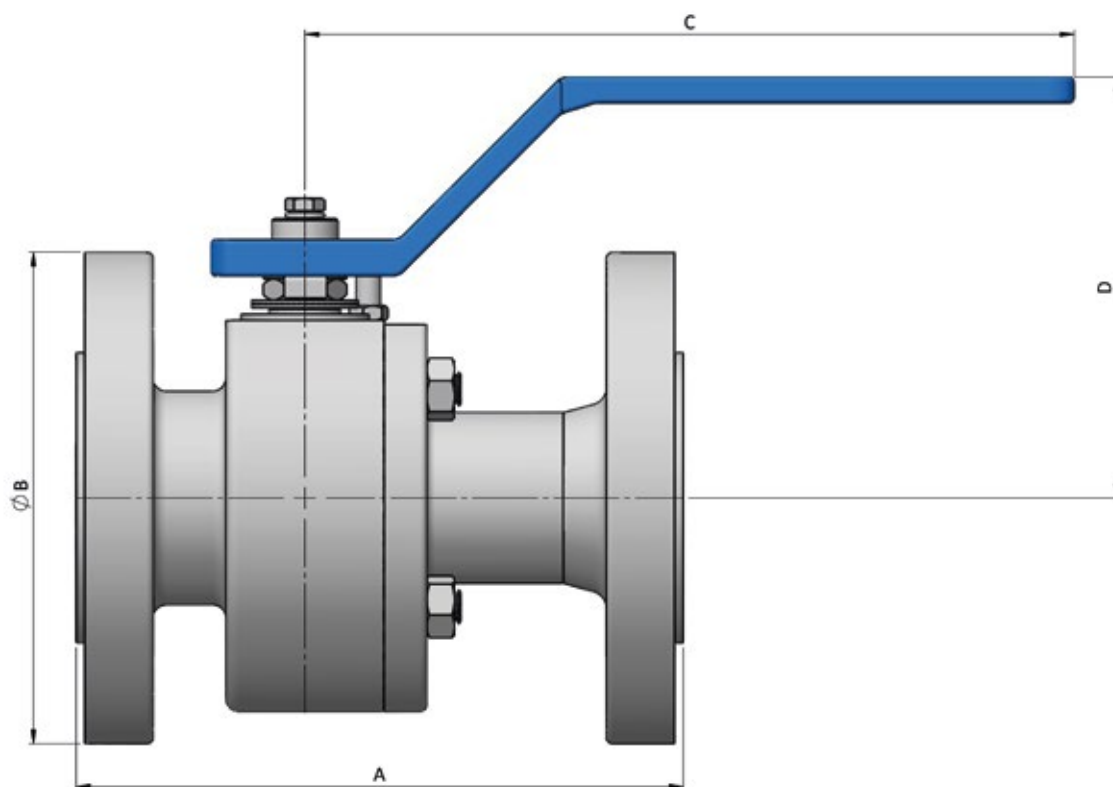
DESIGN TEMPERATURE

-46°C to 240°C

-50.8°F to 464°F



PART		STANDARD	
		DUPLEX STEEL	SUPER DUPLEX STEEL
Body / Ends		1.4462	1.4501
TRIM	Ball	1.4470	1.4417
	Stem	1.4462	1.4501
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A4 CL.70	



mm in

DN	PN	BORE	A			B	C	D	ISO 5211	kg lbs		
			F1	F4	F5					F1	F4	F5
65	16	62 2.44	290 11.42	170 6.69	-	185 7.28	360 14.17	160 6.30	F07	25.5 56.22	22.3 49.16	-
80		75 2.95	310 12.20	180 7.09	-	200 7.87	360*/420 14.17*/16.54	170*/175 6.69*/6.89	F07*/F10	26.3 57.98	37.8 83.33	-
100		100 3.94	350 13.78	190 7.48	-	220 8.66	480 18.90	230*/205 9.06*/8.07	F10	66.3 146.16	44.2 97.44	-
150		150 5.91	480 18.90	-	350 13.78	285 11.22	GEARBOX		F14	150 330.69	-	140 308.64
200		201 7.91	600 23.62	-	400 15.75	340 13.39			F16	285 628.31	-	265 584.22

DN	PN	BORE	A			B	C	D	ISO 5211	kg lbs		
			F1	F4	F5					F1	F4	F5
15	40	15.5 0.59	130 5.12	115 4.53	-	95 3.74	150 5.91	85 3.35	F03	3.2 7.05	3.1 6.83	-
20		20.6 0.81	150 5.91	120 4.72	-	105 4.13	180 7.09	95 3.74	F04	4.8 10.58	4.6 10.14	-
25		25.4 1.00	160 6.30	125 4.92	-	115 4.53	180 7.09	100 3.94	F04	6 13.23	5.7 12.57	-
32		31.8 1.25	180 7.09	130 5.12	-	140 5.51	210 8.27	115 4.53	F05	9.1 20.06	8.4 18.52	-
40		38.1 1.50	200 7.87	140 5.51	-	150 5.91	210 8.27	120 4.72	F05	10.8 23.81	9.7 21.38	-
50		49 1.93	230 9.06	150 5.91	-	165 6.50	210*/300 8.27*/11.81	130*/140 5.12*/5.51	F05*/F07	17.7 39.02	13.6 29.98	-
65		62 2.44	290 11.42	170 6.69	-	185 7.28	360 14.17	160 6.30	F07	27.7 61.07	23.5 51.81	-
80		75 2.95	310 12.20	180 7.09	-	200 7.87	360*/420 14.17*/16.54	170*/175 6.69*/6.89	F07*/F10	37.5 82.67	29.5 65.04	-
100		100 3.94	350 13.78	190 7.48	-	235 9.25	480 18.90	230*/205 9.06*/8.07	F10	67.6 149.03	47.3 104.28	-
150		150 5.91	480 18.90	-	350 13.78	300 11.81	GEARBOX		F14	180 396.83	-	165 363.76
200		201 7.91	600 23.62	-	400 15.75	375 14.76			F16	320 705.47	-	280 617.29

*F4

INDUSTRIAL FLOATING BALL VALVES

BF Series

2 Way
Barstock

The BF Series is a floating split body barstock ball valve, specifically designed for industrial applications up to PN100 (100 bar).

Applications

It matches a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, mining, ammonia, power industry, desalination plants, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

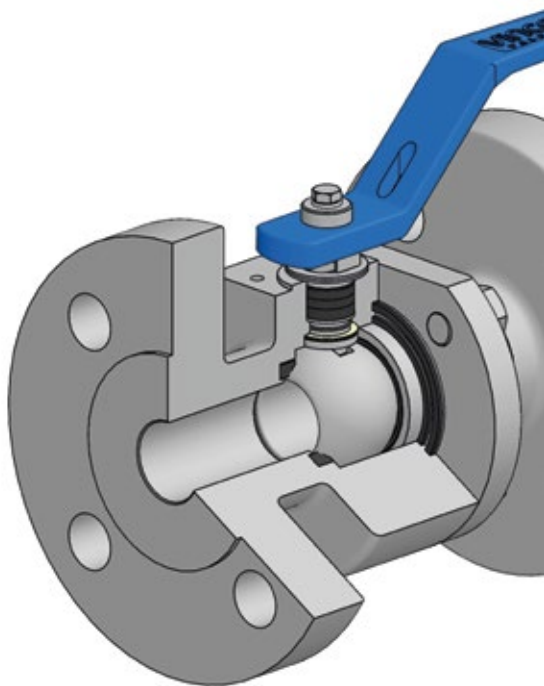
DIN PN 100

Full Bore: DN 15 - 100

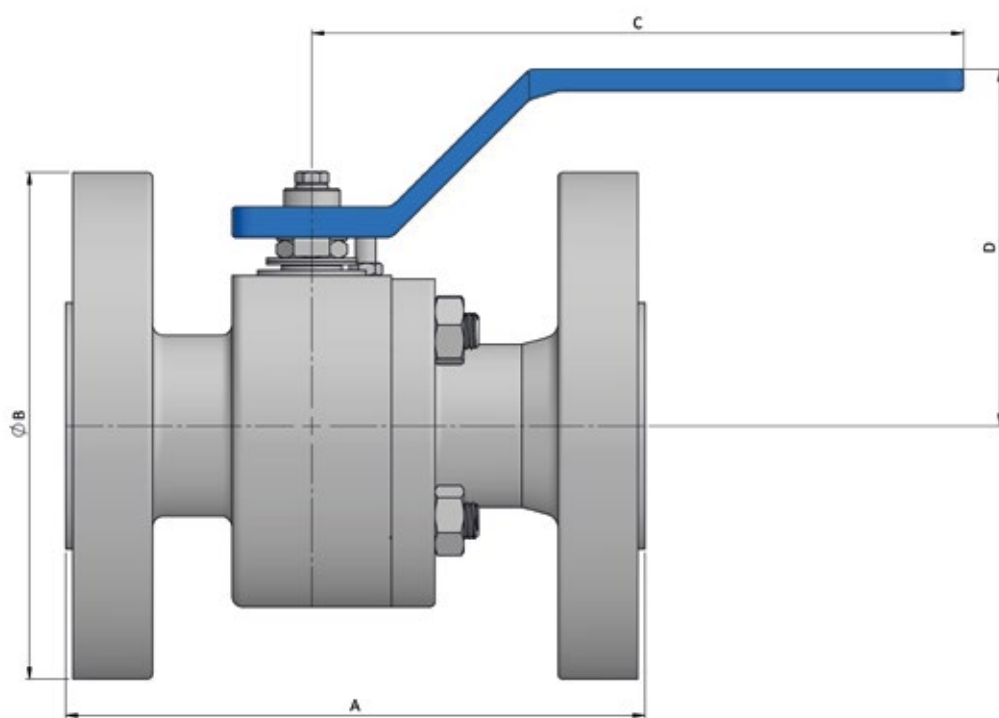
DESIGN TEMPERATURE

-46°C to 240°C

-50.8°F to 464°F



PART		STANDARD	
		DUPLEX STEEL	SUPER DUPLEX STEEL
Body / Ends		1.4462	1.4501
TRIM	Ball	1.4470	1.4417
	Stem	1.4462	1.4501
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A4 CL.70	



mm in

DN	PN	BORE	A	B	C	D	ISO 5211	kg lbs
15	100	15.1 0.59	130 5.12	105 4.13	150 5.91	85 3.35	F03	4.1 9.04
20		20.6 0.81	150 5.91	130 5.12	180 7.09	95 3.74	F04	6.8 14.99
25		25.4 1.00	160 6.30	140 5.51	180 7.09	100 3.94	F04	8.8 19.40
32		31.8 1.25	180 7.09	155 6.10	210 8.27	115 4.53	F05	11.8 26.01
40		38.1 1.50	200 7.87	170 6.69	210 8.27	120 4.72	F05	14.2 31.31
50		49 1.93	230 9.06	195 7.68	300 11.81	140 5.51	F07	23.8 52.47
65		62 2.44	290 11.42	220 8.66	360 14.17	160 6.30	F07	35.6 78.48
80		75 2.95	310 12.20	230 9.06	420 16.54	175 6.89	F10	46 101.41
100		100 3.94	350 13.78	265 10.43	480 18.90	205 8.07	F10	82.2 181.22

INDUSTRIAL FLOATING BALL VALVES

BF Series

2 Way
Barstock

The BF Series is a floating split body barstock ball valve, specifically designed for industrial applications up to CL600 (100 bar/1500 psi).

Applications

It matches a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, mining, ammonia, desalination plants, with a variety of seat designs.

Features

- Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Food grade compatible version (CE1935/2004 version)

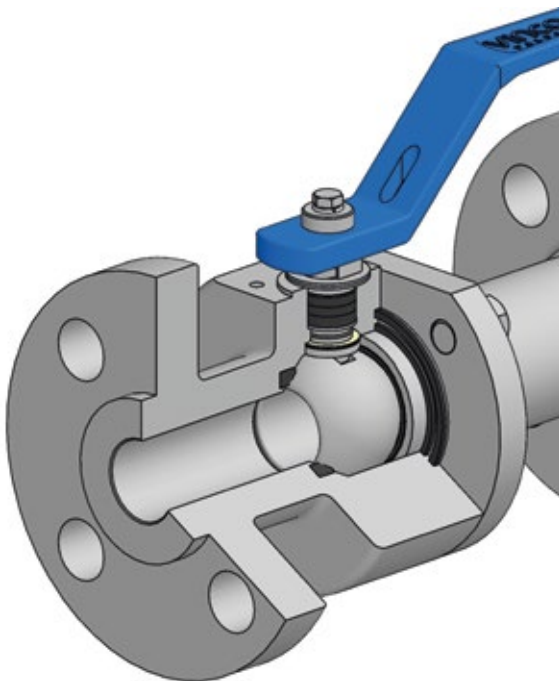
ASME CL 150 to 600

Full Bore: ½" - 8"

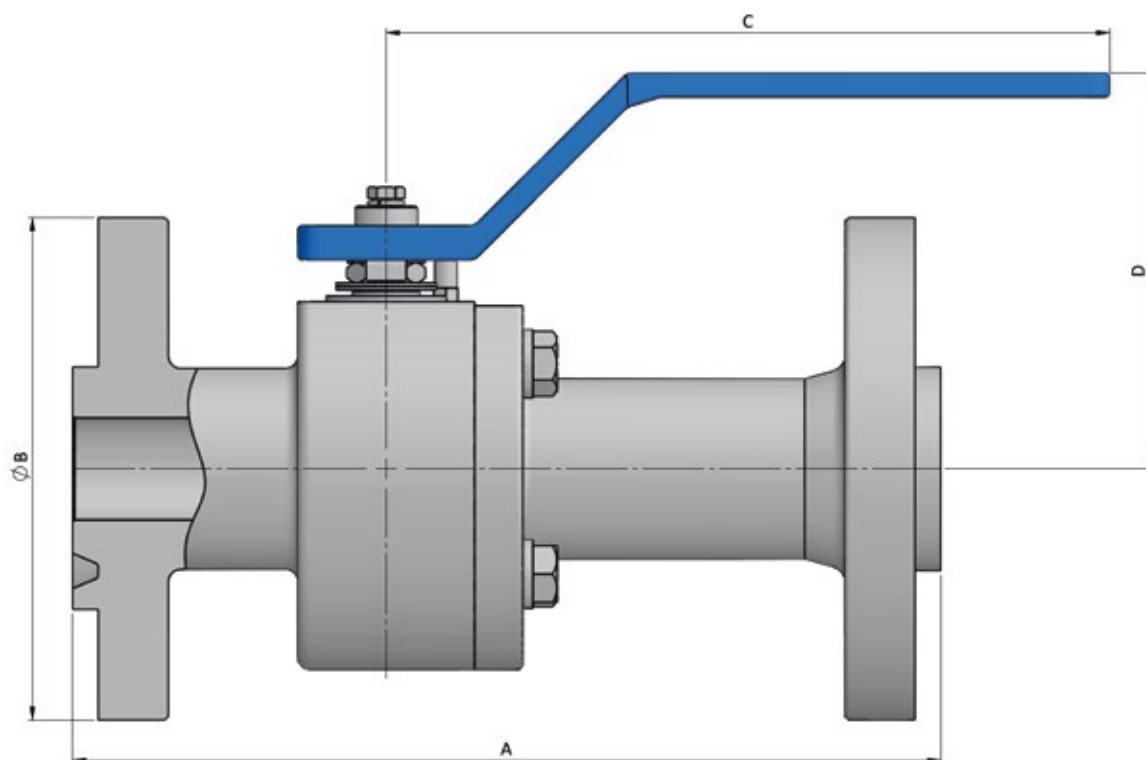
DESIGN TEMPERATURE

-46°C to 240°C

-50.8°F to 464°F



PART		STANDARD	
		DUPLEX STEEL	SUPER DUPLEX STEEL
Body / Ends		A479 S31803	A479 S32760
TRIM	Ball	A351 CD3MN	A995 CD3MNCuN
	Stem	A479 S31803	A479 S32760
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A193 Gr. B8M cl.2	



mm in

DN	CLASS psi	BORE	A						B			C	D	ISO 5211	kg lbs		
			CL150		CL300		CL600		CL150	CL300	CL600				CL150	CL300	CL600
			RF	RTJ	RF	RTJ	RF	RTJ									
½"	150 300 - 600 1500	15.1 0.59	108 4.25	-	140 5.51	151 5.94	165 6.50	163 6.42	90 3.54	95 3.74	95 3.74	150 5.91	85 3.35	F03	2.6 5.73	3.2 7.05	3.5 7.72
¾"		20.6 0.81	117 4.61	-	152 5.98	165 6.50	190 7.48	190 7.48	100 3.94	115 4.53	115 4.53	180 7.09	95 3.74	F04	3.8 8.38	4.8 10.58	5.6 12.35
1"		25.4 1.00	127 5.00	140 5.51	165 6.50	178 7.01	216 8.50	216 8.50	110 4.33	125 4.92	125 4.92	180 7.09	100 3.94	F04	5 11.02	6.2 13.67	7.5 16.53
1½"		38.1 1.50	165 6.50	178 7.01	190 7.48	203 7.99	241 9.49	241 9.49	125 4.92	155 6.10	155 6.10	210 8.27	120 4.72	F05	8.6 18.96	11.8 26.01	14.5 31.97
2"		49 1.93	178 7.01	191 7.52	216 8.50	232 9.13	292 11.50	295 11.61	150 5.91	165 6.50	165 6.50	300 11.81	140 5.51	F07	15.1 33.29	17.8 39.24	21.2 46.74
2½"		62 2.44	190 7.48	203 7.99	241 9.49	257 10.12	330 12.99	333 13.11	180 7.09	190 7.48	190 7.48	360 14.17	160 6.30	F07	19 41.89	28.6 63.05	34 74.96
3"		75 2.59	203 7.99	216 8.50	282 11.10	298 11.73	356 14.02	359 14.13	190 7.48	210 8.27	210 8.27	420 16.54	175 6.89	F10	33 72.75	41.3 91.05	47.2 104.06
4"		100 3.94	229 9.02	242 9.53	305 12.01	321 12.64	432 17.01	435 17.13	230 9.06	255 10.04	275 10.83	480 18.90	205 8.07	F10	54.5 120.15	71.5 157.63	101.5 223.77
6"	150 5.91	394 15.51	407 16.02	403 15.87	419 16.50	-	-	280 11.02	320 12.60	-	GEARBOX		F14	152.5 336.20	167.5 369.27	-	
8"	201 7.91	457 17.99	470 18.50	502 19.76	518 20.39	-	-	345 13.58	380 14.96	-			F16	268 590.83	305 672.40	-	

INDUSTRIAL FLOATING BALL VALVES

HF5 Series

2 Way
Barstock

The HF5 Series is a robust floating 3-piece bolted, barstock ball valve, specifically designed for industrial applications up to CL1500 (250 bar/3600 psi).

Applications

It matches a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, power industry, desalination plants, with a variety of seat designs.

Features

- High pressure floating ball | Soft seated | Bidirectional
- Fire safe | Anti-static design
- Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole

ASME CL 1500

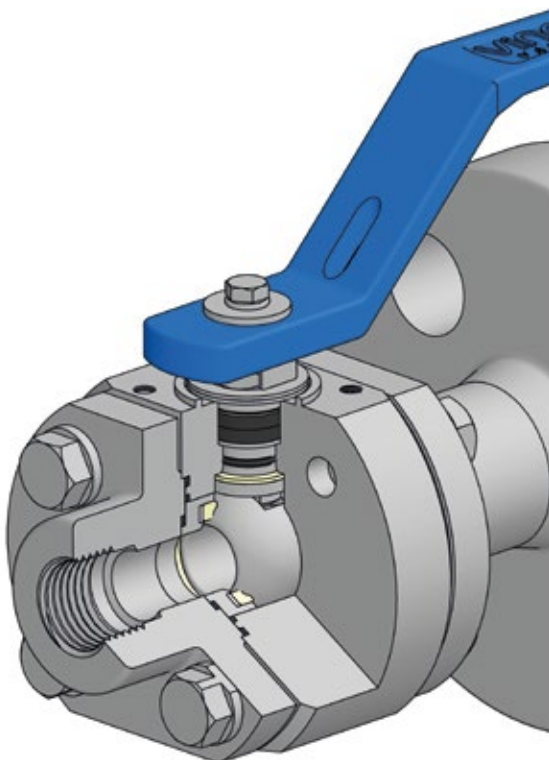
Full Bore: ½" - 2"

Reduced Bore: ¾" - 2"

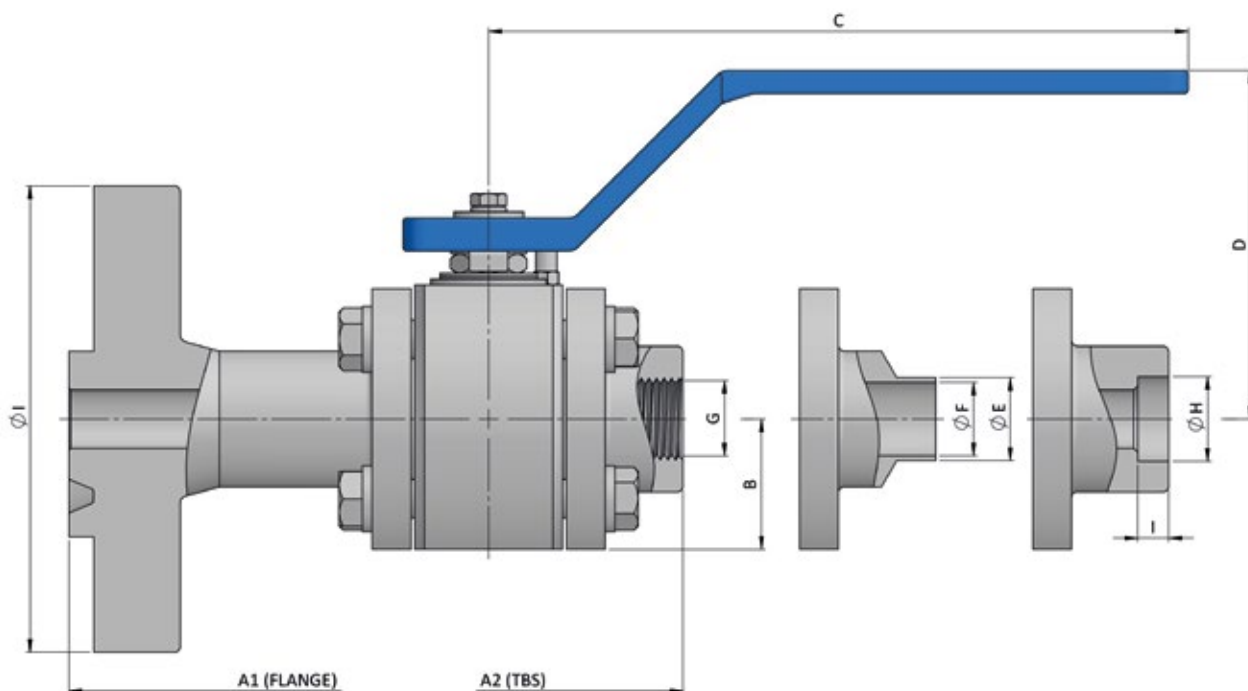
DESIGN TEMPERATURE

-50°C to 170°C

-58°F to 338°F



PART		STANDARD	
		LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		A350 LF2 cl.1	A479 316/L
TRIM	Ball	A351 CF8M	
	Stem	S17400	
Seats		DEVLON	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A320 Gr. L7M	A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A1		A2	B	C	D	E	F	G	H	I	ISO 5211	kg lbs			
			RF	RTJ											A1	A2		
½"	1500 3600	15.1 0.59	216 8.50	216 8.50	90 3.54	33.5 1.32	180 7.09	95 3.74						NPT / BSPT SW & SW Nipple BW & BW Nipple	120 4.72	F04	7 15.43	3 6.61
¾"		20.6 0.81	229 9.02	229 9.02	105 4.13	37 1.46	180 7.09	100 3.94							130 5.12	F04	9.5 20.94	4 8.82
1"		25.4 1.00	254 10.00	254 10.00	120 4.72	45.5 1.79	210 8.27	115 4.53							150 5.91	F05	15 33.07	7 15.43
1¼"		31.8 1.25	279 10.98	279 10.98	140 5.51	55.5 2.19	210 8.27	125 4.92							160 6.30	F05	19 41.89	10 22.05
1½"		38.1 1.50	305 12.01	305 12.01	160 6.30	66.5 2.62	300 11.81	140 5.51							180 7.09	F07	26.5 58.42	15.5 34.17
2"		49 1.93	368 14.49	371 14.61	185 7.28	91.5 3.60	300 11.81	157 6.18							215 8.46	F07	54 119.05	30 66.14

INDUSTRIAL FLOATING BALL VALVES

HF6 Series

2 Way
Barstock

The HF6 Series is a robust floating 3-piece bolted, barstock ball valve, specifically designed for industrial applications up to CL2500 (413 bar/6000 psi).

Applications

It matches a large range of applications, including: oil & gas, chemical, petrochemical, pulp & paper, power industry, desalination plants, with a variety of seat designs.

Features

- High pressure floating ball | Soft seated | Bidirectional
- Fire safe | Anti-static design
- Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole

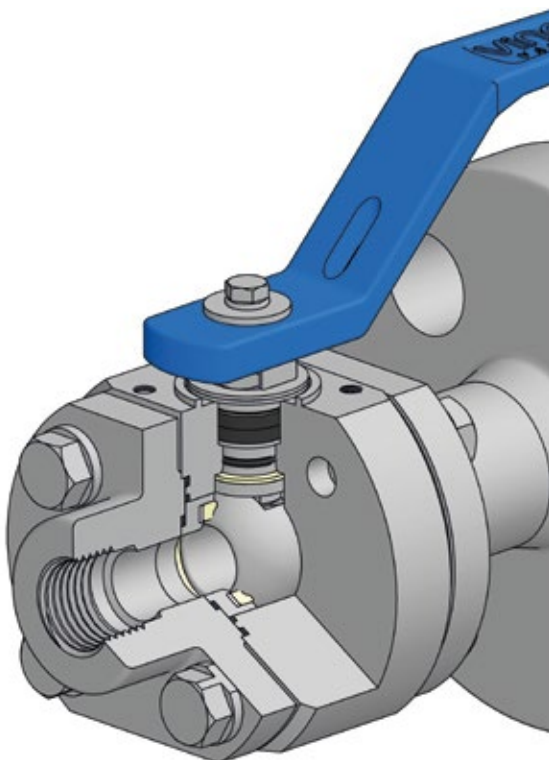
ASME CL 2500

Standard Bore: ½" - 1"

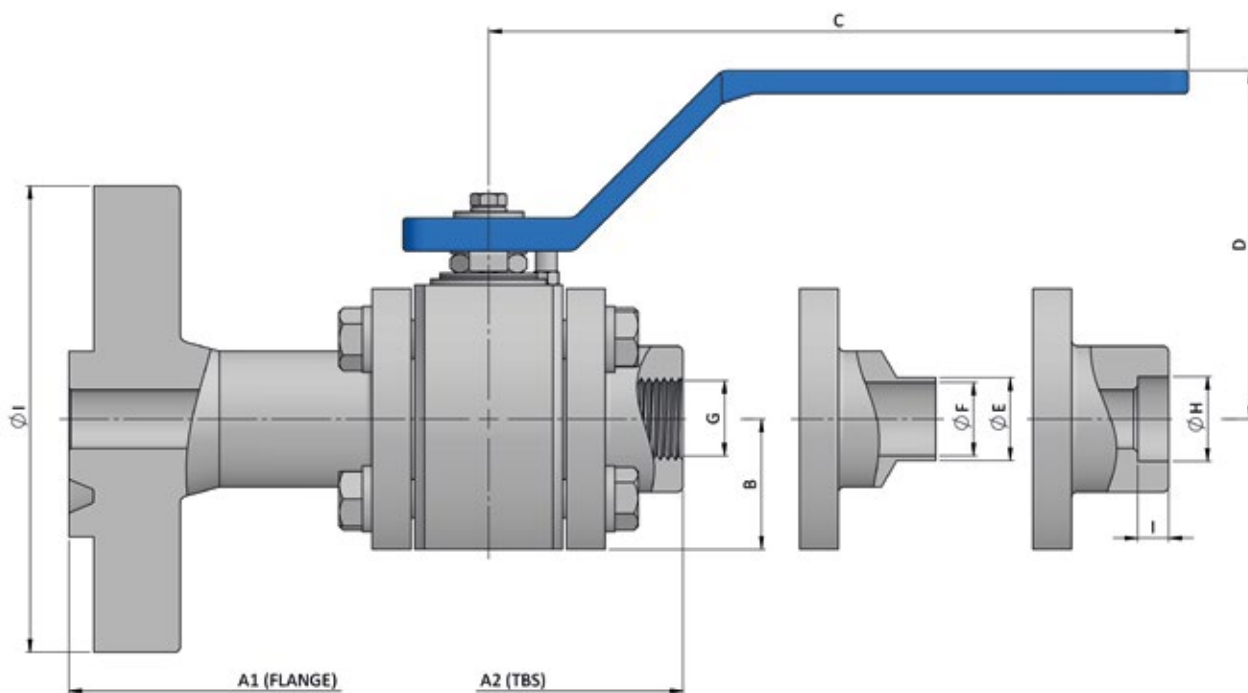
DESIGN TEMPERATURE

-50°C to 170°C

-58°F to 338°F



PART		STANDARD	
		LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		A350 LF2 cl.1	A479 316/L
TRIM	Ball	A351 CF8M	
	Stem	S17400	
Seats		DEVLON	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A320 Gr. L7M	A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A1		A2	B	C	D	E	F	G	H	I	ISO 5211	kg lbs	
			RF	RTJ											A1	A2
½"	2500 6000	11.9 0.47	264 10.39	264 10.39	90 3.54	33.5 1.32	150 5.91	80 3.15	NPT / BSPT				135 5.31	F03	10 22.05	2.5 5.51
¾"		15.1 0.59	273 10.75	273 10.75	105 4.13	37 1.46	180 7.09	95 3.74	SW & SW Nipple				140 5.51	F04	13 28.66	4 8.82
1"		20.6 0.81	308 12.13	308 12.13	120 4.72	45.5 1.79	180 7.09	105 4.13	BW & BW Nipple				160 6.30	F04	19 41.89	6.5 14.33

INDUSTRIAL FLOATING BALL VALVES

DCF Series

Double Block and Bleed
Investment Cast

The DCF Series is a process double block & bleed (DBB), floating cast ball valve specifically designed for industrial applications up to PN40 (40 bar).

Applications

It provides double safety and is suitable for flow measurement, sampling, chemical injection, and process isolation, matching applications such as: oil & gas, chemical, petrochemical, biogases, pulp & paper or carbon capture.

Features

- Needle valve (Bleed)
- Twin ball | Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Food grade compatible version (CE1935/2004 version)
- Ball valve (Bleed)

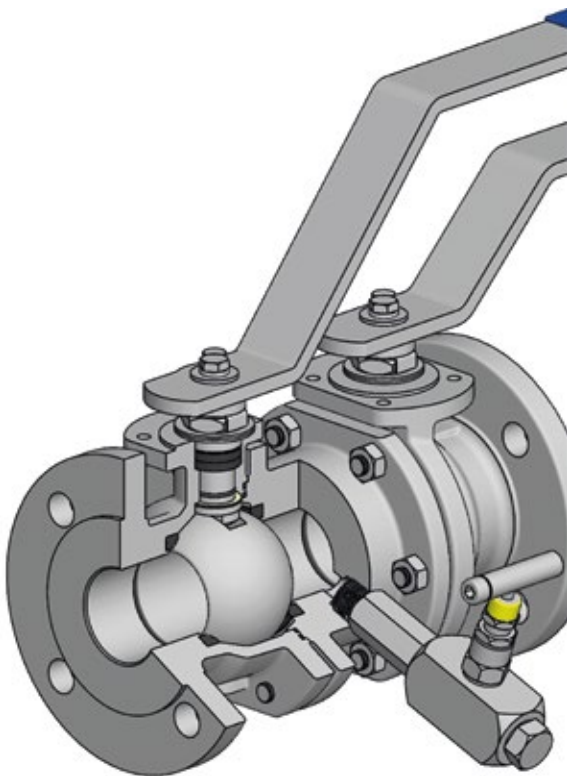
DIN PN 16 / 40

Full Bore: DN 15 - 200

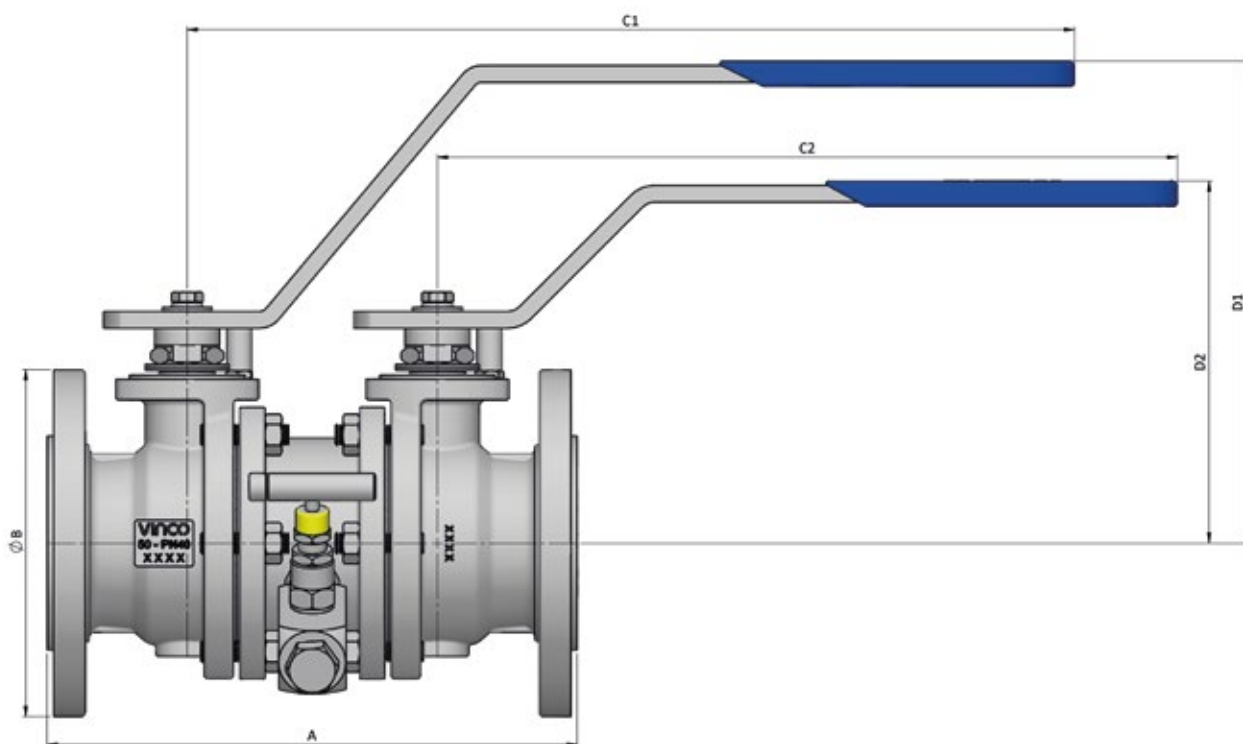
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD	
		LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		1.6220	1.4408
TRIM	Ball	1.4408	
	Stem	1.4401/4	
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A4 CL.70	



mm in

DN	PN	BORE	A	B	C1	C2	D1	D2	ISO 5211
65	16	62 2.44	270 10.63	185 7.28	350 13.78	350 13.78	235 9.25	175 6.89	F07
80		75 2.95	310 12.20	200 7.87	350 13.78	350 13.78	250 9.84	190 7.48	F10
100		100 3.94	335 13.19	220 8.66	500 19.69	500 19.69	285 11.22	225 8.86	F10
150		150 5.91	600 23.62	285 11.22	GEARBOX				F14
200		201 7.91	710 27.95	340 13.39					F16

DN	PN	BORE	A	B	C1	C2	D1	D2	ISO 5211
15	40	15.1 0.59	170 6.69	95 3.74	140 5.51	140 5.51	145 5.71	90 3.54	F04
20		20.6 0.81	185 7.28	105 4.13	170 6.69	170 6.69	155 6.10	100 3.94	F04
25		25.4 1.00	190 7.48	115 4.53	170 6.69	170 6.69	160 6.30	105 4.13	F04
32		31.8 1.25	215 8.46	140 5.51	200 7.87	200 7.87	180 7.09	125 4.92	F05
40		38.1 1.50	235 9.25	150 5.91	200 7.87	200 7.87	185 7.28	130 5.12	F05
50		49 1.93	250 9.84	165 6.50	300 11.81	300 11.81	205 8.07	150 5.91	F07
65		62 2.44	270 10.63	185 7.28	350 13.78	350 13.78	235 9.25	175 6.89	F07
80		75 2.95	310 12.20	200 7.87	350 13.78	350 13.78	250 9.84	190 7.48	F10
100		100 3.94	350 13.78	235 9.25	500 19.69	500 19.69	285 11.22	225 8.86	F10
150		150 5.91	675 26.57	300 11.81	GEARBOX				F14
200		201 7.91	835 32.87	375 14.76					F16

INDUSTRIAL FLOATING BALL VALVES

DCF Series

Double Block and Bleed
Investment Cast

The DCF Series is a process double block & bleed (DBB), floating cast ball valve specifically designed for industrial applications up to CL600 (100 bar/1500 psi).

Applications

It provides double safety and is suitable for flow measurement, sampling, chemical injection, and process isolation, matching applications such as: oil & gas, chemical, petrochemical, biogases, pulp & paper or carbon capture.

Features

- Needle valve (Bleed)
- Twin ball | Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Food grade compatible version (CE1935/2004 version)
- Ball valve (Bleed)

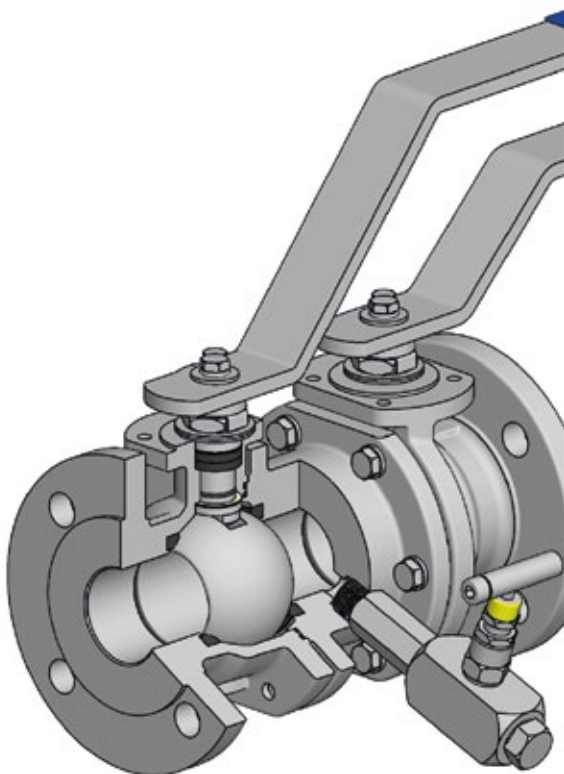
ASME CL 150 to 600

Full Bore: ½" - 8"

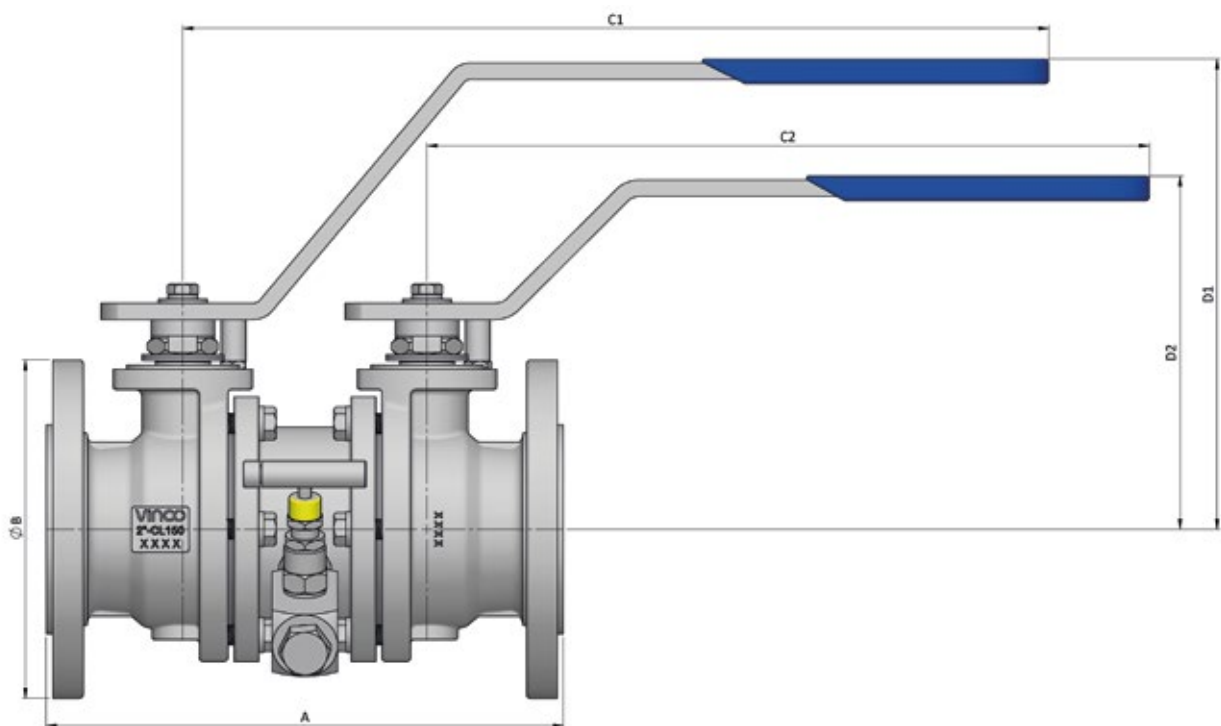
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD	
		LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		A352 LCC	A351 CF8M
TRIM	Ball	A351 CF8M	
	Stem	A479 316/L	
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A320 Gr. L7M	A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A		B		C1	C2	D1	D2	ISO 5211
			CL 150	CL 300	CL 150	CL 300					
½"	150 300 - 300 750	15.1 0.59	170 6.69	185 7.28	90 3.54	95 3.74	140 5.51	140 5.51	145 5.71	90 3.54	F04
¾"		20.6 0.81	180 7.09	210 8.27	100 3.94	115 4.53	170 6.69	170 6.69	155 6.10	100 3.94	F04
1"		25.4 1.00	190 7.48	220 8.66	110 4.33	125 4.92	170 6.69	170 6.69	160 6.30	105 4.13	F04
1½"		38.1 1.50	230 9.06	265 10.43	125 4.92	155 6.10	200 7.87	200 7.87	185 7.28	130 5.12	F05
2"		49 1.93	250 9.84	290 11.42	150 5.91	165 6.50	300 11.81	300 11.81	205 8.07	150 5.91	F07
2½"		62 2.44	290 11.42	320 12.60	180 7.09	190 7.48	350 13.78	350 13.78	235 9.25	175 6.89	F07
3"		75 2.59	320 12.60	380 14.96	190 7.48	210 8.27	350 13.78	350 13.78	250 9.84	190 7.48	F10
4"		100 3.94	365 14.37	455 17.91	230 9.06	255 10.04	500 19.69	500 19.69	285 11.22	225 8.86	F10
6"		150 5.91	640 25.20	675 26.57	280 11.02	320 12.60	GEARBOX				F14
8"		201 7.91	765 30.12	835 32.87	345 13.58	380 14.96					F16

DN	CLASS psi	BORE	A	B	C1	C2	D1	D2	ISO 5211
½"	600 1500	15.1 0.59	220 8.66	95 3.74	140 5.51	140 5.51	145 5.71	90 3.54	F04
¾"		20.6 0.81	245 9.65	115 4.53	170 6.69	170 6.69	155 6.10	100 3.94	F04
1"		25.4 1.00	285 11.22	125 4.92	170 6.69	170 6.69	160 6.30	105 4.13	F04
1½"		38.1 1.50	320 12.60	155 6.10	200 7.87	200 7.87	185 7.28	130 5.12	F05
2"		49 1.93	385 15.16	165 6.50	300 11.81	300 11.81	205 8.07	150 5.91	F07

INDUSTRIAL FLOATING BALL VALVES

DXF Series

Double Block and Bleed
Investment Cast

The DXF Series is a process double block & bleed (DBB), floating cast ball valve specifically designed for industrial applications up to CL800 (138 bar/2000 psi).

Applications

It provides double safety and is suitable for flow measurement, sampling, chemical injection, and process isolation, matching applications such as: oil & gas, chemical, petrochemical, biogases, pulp & paper or carbon capture.

Features

- Needle valve (Bleed)
- Twin ball | Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Food grade compatible version (CE1935/2004 version)
- Ball valve (Bleed)

ASME CL 800 to 150

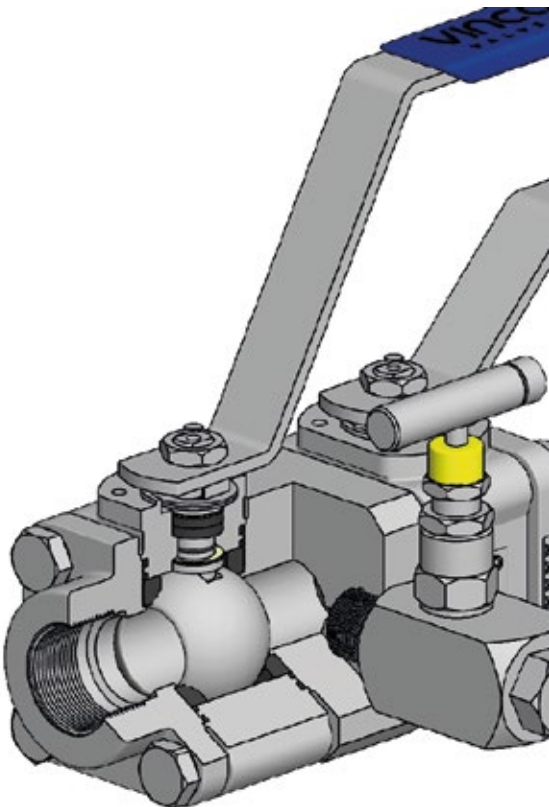
Full Bore: ½" - 6"

Reduced Bore: ¾" - 6"

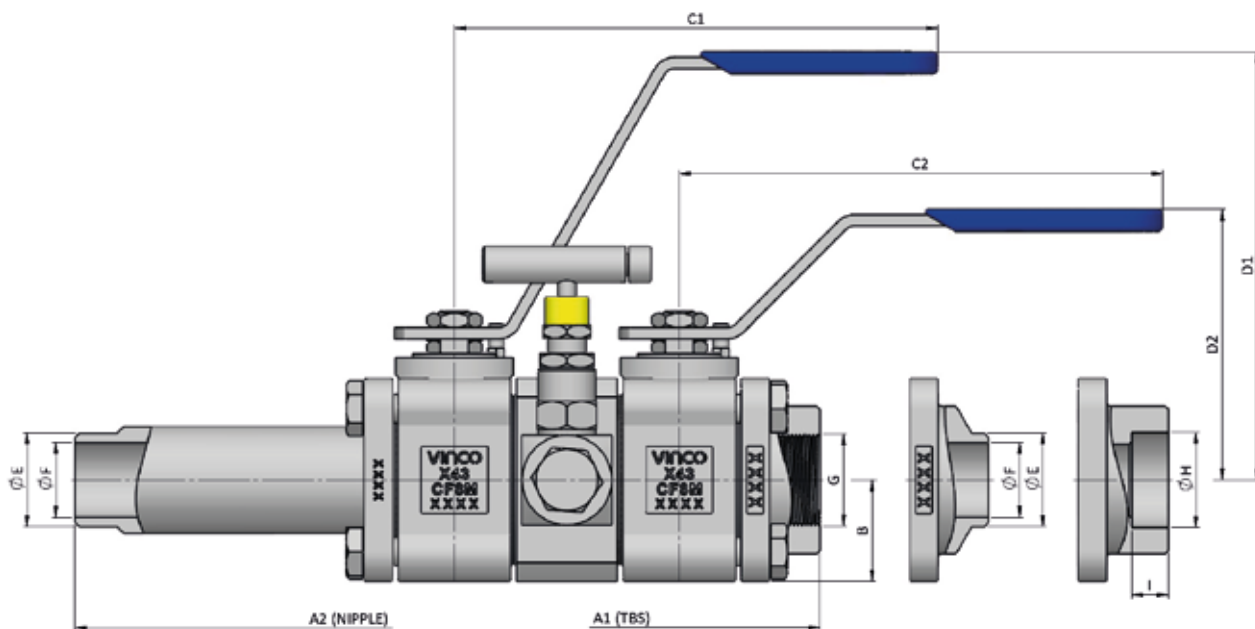
DESIGN TEMPERATURE

-50°C to 240°C

-58°F to 464°F



PART		STANDARD		
		CARBON STEEL	LOW TEMP. CARBON STEEL	STAINLESS STEEL
Body / Ends		A216 WCB	A352 LCC	A351 CF3M
TRIM	Ball	A351 CF8M		
	Stem	A479 316/L		
Seats		C-RPTFE		
O'ring		FKM		
Packing & Seals		C-RPTFE & GRAPHITE		
Bolting		A320 Gr. L7M		A193 Gr. B8M cl.2



mm in

DN	CLASS psi	BORE	A1	A2	B	C1	C2	D1	D2	E	F	G	H	I	ISO 5211
½"	800 2000	15.1 0.59	140 5.51	315 12.40	27.5 1.08	140 5.51	140 5.51	135 5.31	80 3.15	NPT / BSPT SW BW & BW Nipple					F03
¾"	800 2000	20.6 0.81	160 6.30	330 12.99	32.5 1.28	170 6.69	170 6.69	150 5.91	95 3.74						F04
1"	800 2000	25.4 1.00	180 7.09	350 13.78	37.5 1.48	170 6.69	170 6.69	155 6.10	100 3.94						F04
1¼"	800 2000	31.8 1.25	200 7.87	365 14.37	42.5 1.67	200 7.87	200 7.87	175 6.89	120 4.72						F05
1½"	800 2000	38.1 1.50	220 8.66	385 15.16	47.5 1.87	200 7.87	200 7.87	180 7.09	125 4.92						F05
2"	800 2000	49 1.93	270 10.63	415 16.34	65 2.56	300 11.81	300 11.81	195 7.68	140 5.51						F07
2½"	400 1000	62 2.44	320 12.60	460 18.11	80 3.15	350 13.78	350 13.78	230 9.06	170 6.69						F07
3"	400 1000	75 2.95	370 14.57	502 19.76	95 3.74	350 13.78	350 13.78	245 9.65	185 7.28						F10
4"	300 750	100 3.94	435 17.13	560 22.05	115 4.53	500 19.69	500 19.69	285 11.22	225 8.86						F10
6"	150 300	150 5.91	620 24.41	705 27.76	162.5 6.40	GEARBOX									F14

INDUSTRIAL FLOATING BALL VALVES

DF Series

Double Block and Bleed Barstock

The DF Series is a process double block & bleed (DBB), barstock, floating ball valve specifically designed for industrial applications up to CL600 (100 bar/1500 psi).

Applications

It provides double safety and is suitable for flow measurement, sampling, chemical injection, and process isolation, matching applications such as: oil & gas, chemical, petrochemical, biogases, pulp & paper or carbon capture.

Features

- Needle valve (Bleed)
- Twin ball | Soft seated | Bidirectional
- Fire safe | Anti-static design
- Low emission packing | Live loaded stem packing
- Double encapsulated body sealing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Food grade compatible version (CE1935/2004 version)
- Ball valve (Bleed)

ASME CL 150 to 600

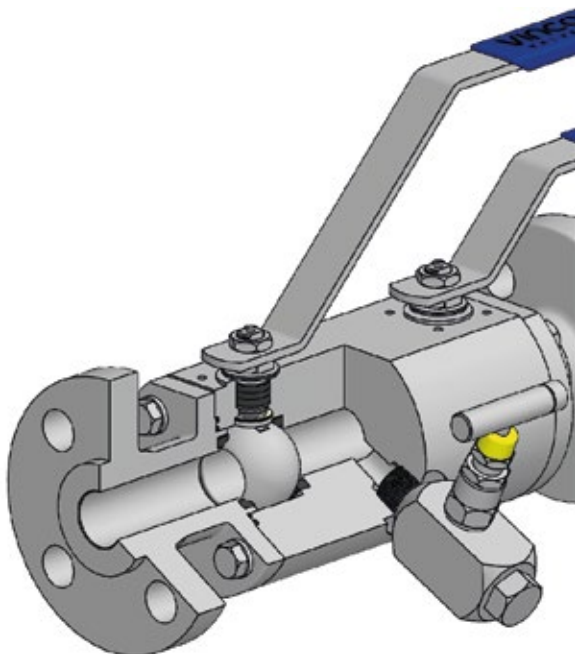
Full Bore: ½" - 4"

Reduced Bore: ¾" - 4"

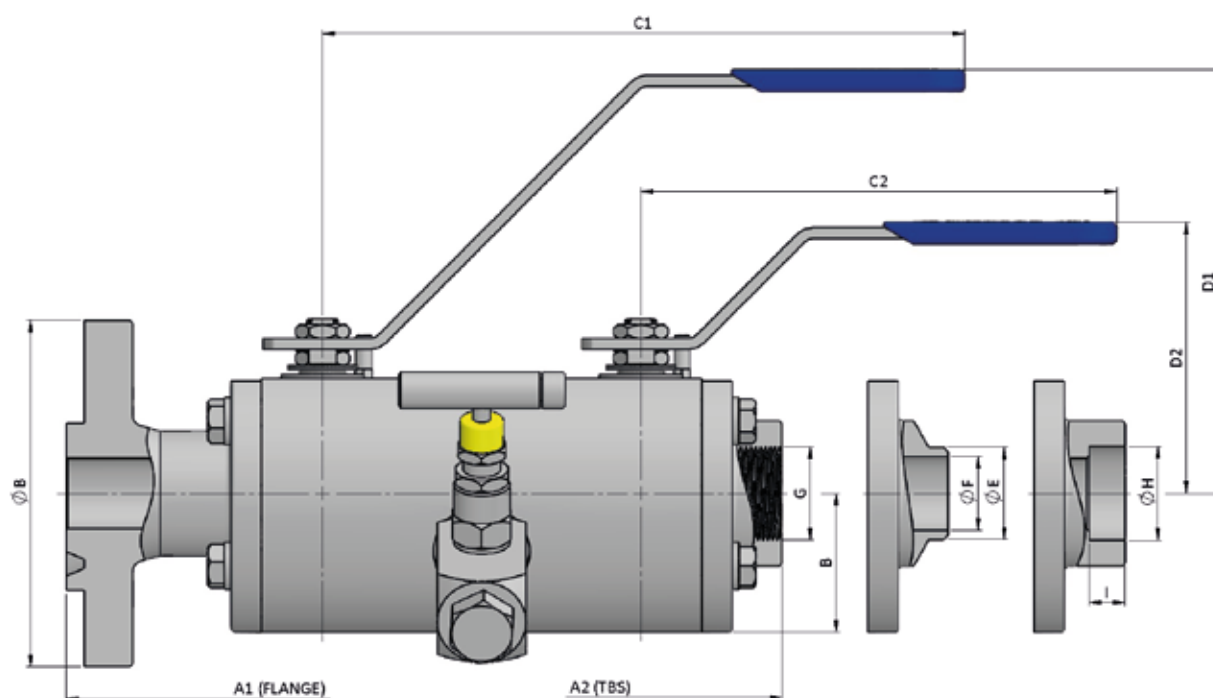
DESIGN TEMPERATURE

-46°C to 240°C

-50.8°F to 464°F



PART		STANDARD	
		DUPLEX STEEL	SUPER DUPLEX STEEL
Body / Ends		A479 S31803	A479 S32760
TRIM	Ball	A351 CD3MN	A995 CD3MNCuN
	Stem	A479 S31803	A479 S32760
Seats		C-RPTFE	
O'ring		FKM	
Packing & Seals		C-RPTFE & GRAPHITE	
Bolting		A193 Gr. B8M cl.2	



mm in

DN	CLASS psi	BORE	A1			A2	B	C1	C2	D1	D2	E	F	G	H	I	J			ISO 5211	kg lbs			
			CL150	CL300	CL600												A1				A2			
																	CL150	CL300	CL600					
½"	150 300 - 600 1500	15.1 0.59	220 8.66	230 9.06	240 9.45	165 6.50	38 1.50	140 5.51	140 5.51	140 5.51	85 3.35	NPT / BSPT SW BW & BW Nipple					90 3.54	95 3.74	95 3.74	F03	6.2 13.67	6.5 14.33	6.7 14.77	4.8 10.58
¾"		20.6 0.81	270 10.63	280 11.02	290 11.42	205 8.07	45 1.77	170 6.69	170 6.69	150 5.91	95 3.74						100 3.94	115 4.53	115 4.53	F04	10.1 22.27	10.9 24.03	11.5 25.35	8.9 19.62
1"		25.4 1.00	280 11.02	290 11.42	300 11.81	215 8.46	50 1.97	170 6.69	170 6.69	155 6.10	100 3.94						110 4.33	125 4.92	125 4.92	F04	13.4 29.54	13.9 30.64	14.8 32.63	11.5 25.35
1¼"		31.8 1.25	-	-	-	225 8.86	57.5 2.26	200 7.87	200 7.87	170 6.69	115 4.53						-	-	-	F05	-	-	-	14.6 32.19
1½"		38.1 1.50	320 12.60	340 13.39	360 14.17	245 9.65	62.5 2.46	200 7.87	200 7.87	175 6.89	120 4.72						125 4.92	155 6.10	155 6.10	F05	22.1 48.72	25 55.12	25.9 57.10	19.2 42.33
2"		49 1.93	380 14.96	400 15.75	420 16.54	335 13.19	75 2.95	300 11.81	300 11.81	195 7.68	140 5.51						150 5.91	165 6.50	165 6.50	F07	40.2 88.62	43 94.80	44 97	37 81.57
2½"		62 2.44	420 16.54	440 17.32	460 18.11	360 14.17	90 3.54	350 13.78	350 13.78	220 8.66	160 6.30						180 7.09	190 7.48	190 7.48	F07	61.8 136.24	64 141.09	66 145.50	54.5 120.15
3"		75 2.59	460 18.11	480 18.90	500 19.69	400 15.75	100 3.94	350 13.78	350 13.78	235 9.25	175 6.89						190 7.48	210 8.27	210 8.27	F10	83 182.98	86.3 190.26	88.5 195.11	73 160.94
4"		100 3.94	550 21.65	570 22.44	590 23.23	480 18.90	125 4.92	500 19.69	500 19.69	265 10.43	205 8.07						230 9.06	255 10.04	275 10.83	F10	147 324.08	155 341.71	165 363.76	130 286.60

MANUAL OPERATION

LOCKABLE HANDLE



The lockable handle is a safety device that prevents the unintended rotation of the obturator due to vibrations, turbulent flows or unauthorized actions leading to potentially severe malfunctions in the process. This occurrence can be prevented by the application of a lockable mechanism that prevents the valve from closing or opening. All sizes can be equipped with a padlock.



STEM EXTENSION

In challenging conditions like inaccessible locations, insulated piping, or extreme temperatures, stem extensions offer a practical solution for safer and easier operation.

The standard stem extension is equipped with a secondary stem packing system containing eventual emissions to the atmosphere. Other options are also available upon request.



OVAL HANDLE

When there isn't enough space for standard handles, an oval handle could be the best way to reduce the size of the valve without losing the operation capabilities.



GEARBOX

The quarter-turn gear operators with handwheel are rugged constructed, industrial grade manufactured with cast iron housing components. They are used for a smooth and easy operation, available in a variety of sizes and options. Includes valve-position indicator as well as a self-locking system.

AUTOMATIC OPERATION



COMPLETE AUTOMATION

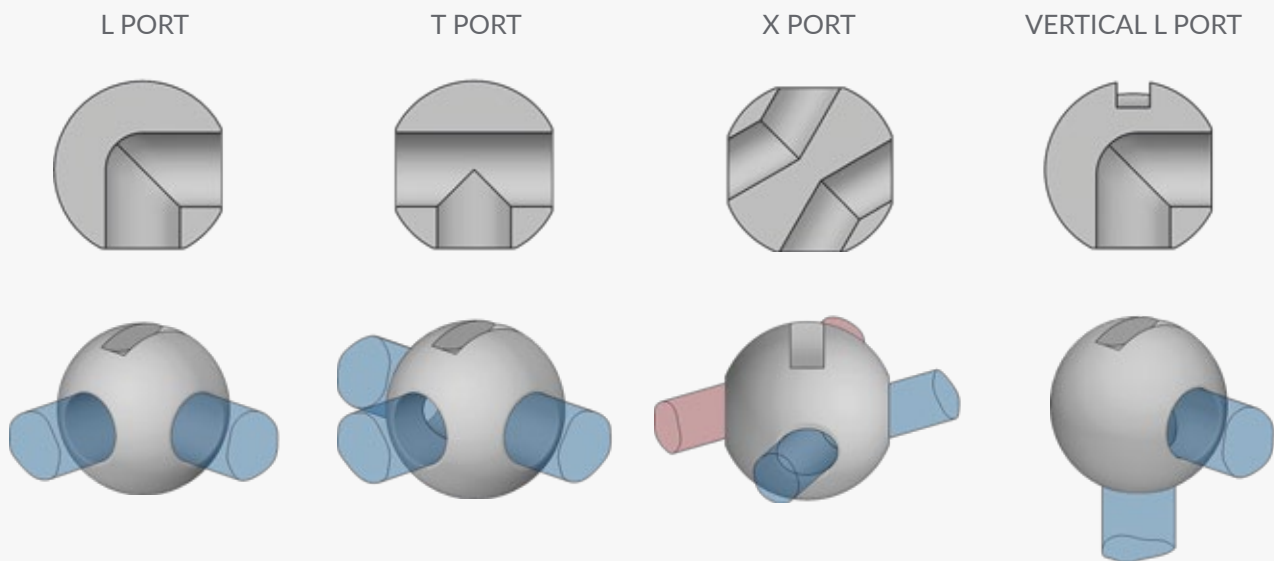
Automation of the processes is a growing and necessary investment to reduce the manual interventions, operation costs and to improve performance.

Our valves can be equipped with numerous controllers such as, actuators, positioners, solenoids or switchboxes.



BALL CONFIGURATIONS

MULTI PORT



Ideal for complex flow configurations due to its multi-line capability, providing:

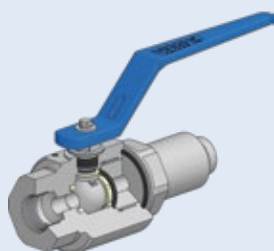
- Simpler piping systems;
- Space optimization;
- Reduction of the number of process valves required.

V-PORT



Ideal for precise flow control, the V-port ball valve offers accuracy and stability across variable flows, enhancing efficiency for applications requiring fluid regulation. These balls are available in 30°, 45° and 60°.

OTHER RANGES



HYDROGEN

Supporting the shift to sustainable energy is our duty. Explore our range of hydrogen ball valves designed to guarantee safety and leak prevention, optimized to perform in high-pressure environments.



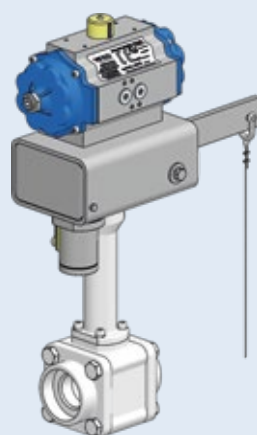
SANITARY

Meticulously crafted sanitary ball valves for hygienic applications, ensuring contamination-free flow and reliable performance for use in food, beverage, chemical, and pharmaceutical industries.



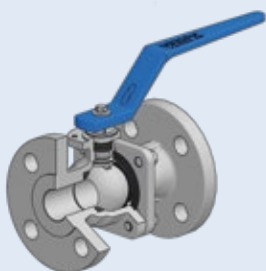
CRYOGENIC

Engineered to perform reliably in ultra low temperatures, ensuring safe and efficient flow control in demanding cryogenic applications.



FIRE BLOCK SYSTEM

To prevent the widespread of a fire event, a fire fail safe valve may be used as a safety device, which will trigger an automatic emergency shutoff.



METAL SEATED

Built for robust performance in extreme conditions, our metal seated ball valves are designed to offer exceptional durability and leak-tight performance in high temperature and abrasive environments.



TRUNNION DESIGN

Severe service or higher sizes demand special design to achieve high levels of quality and safety. The trunnion version is the best solution to improve reliability and the life time of the valve without maintenance due to its unique seat design and ball mounting.



Find our complete product range in our website!



vincovalves.com

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