

Innovation | Commitment

vinco
VALVES

SANITARY BALL VALVES

FLOWING YOUR ENERGY



COMPANY



We are Vinco Valves, an European ball valve manufacturer with over 35 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.

Vinco has been supplying some of the most demanding end customers for more than 30 years.



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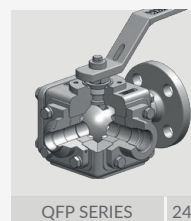
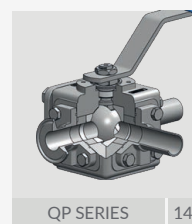
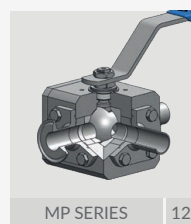
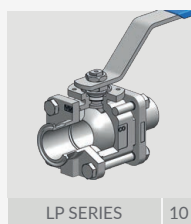
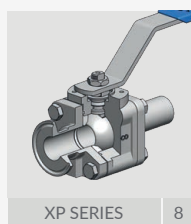
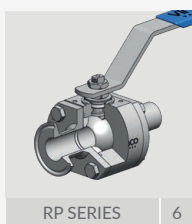
1 TECHNICAL INFORMATION

4-5

- General Features
- Optional Features
- Drainability
- Cleanliness and Packing
- Certifications and Approvals

2 VALVES SERIES

6-27



3 OPTIONS

28-30

- Lockable Handle
- Stem Extension
- Oval Handle
- Gearbox
- Complete Automation
- Ball Configurations
- Applications

GENERAL FEATURES

Double encapsulated body seals

For extra resistance and tightness performance.

Anti-static device

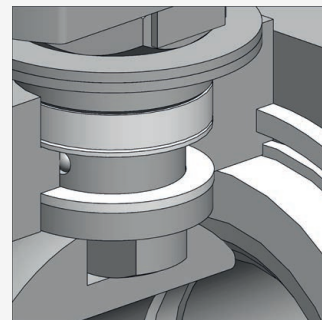
Ensures the electrical conductivity between body, end, ball and stem according to european directive 2014/34/EU (ATEX).

Self-adjust live loaded packing system

Ensures longer service without maintenance and spare parts replacement.

Fugitive emissions design

Designed in compliance with ISO 15848-1 and TA-LUFT / VDI 2440, this solution minimizes fugitive emissions, reducing environmental impact and ensuring safe operation. The V-shaped packing improves sealing performance and extends service life. This design is also suitable for vacuum applications down to 10 mm Hg.



Inline serviceable

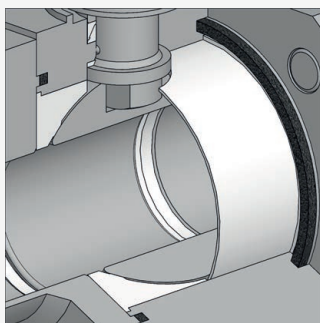
All valves are constructed to allow inline service, reducing both maintenance costs and interventions time.

Welding properties

Welding connection material with controlled sulphur content between 0.005 and 0.017% to improve weldability. Ferrite content below 3% for investment cast and 0.5% for barstock / forging preventing corrosion formation. Buttweld length adapted to allow direct orbital welding process without disassembling the valves.



OPTIONAL FEATURES



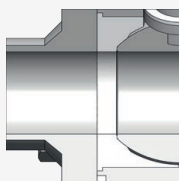
Optional firesafe

According to ISO 10497 and API 607 for critical services. Primary layer of TFE prevents graphite contamination into the media assuring the cleanliness and high purity of the processes.

Optional cavity filler

Available to fill in the dead space between the body and the ball, preventing the media from being trapped. This reduces the risk of contamination or solidification of the media, ensuring smoother operation for a longer time.

DRAINABILITY



The tube bore version ensures smooth self-drainage, improving flow and minimizing inlays, pooling, dead legs and trapped media. Proper installation with the correct slope optimizes gravity drainage, ensuring cost-effective, efficient cleaning. Additionally, valves can be equipped with a CIP/SIP design to improve maintenance, as detailed in the Options chapter.

CLEANLINESS AND PACKING



To achieve stringent cleanliness standards, all valves are meticulously degreased, pickled, and thoroughly cleaned. Passivation should take place during installation and must be carried out by the installer on the entire system. Following this, each valve is then individually packaged and sealed in a protective plastic bag with silica, to safeguard against contamination and humidity. For oxygen service applications, degreasing is available as an optional service.

SUITABILITY FOR CONTACT WITH FOOD STUFF

European Directives:

1935/2004/CE

1895/2005/CE

10/2011/UE

American Regulations:

FDA, Food and Drug Administration, Department of Health and Human Services, Code of Federal Regulations 21 CFR Ch.1

USA regulations sections 177.1550 (a) (1) and (b)

- Perfluorocarbon Resins

HAZARDOUS SUBSTANCES FOR HEALTH

European Directives:

76/769/EC

2011/65/EU (ROHS)

Directive 2003/11/EC

Directive 2003/53/EC

Directive 2006/122/EC

Directive 2009/251/EC

European Regulations:

EC 1005/2009

Others:

GADSL 2015

BSE / TSE / ADI free

SUITABILITY FOR MEDICAL DEVICES

Directive 93/42/ECC - USP Class VI

CERTIFICATION	CONSTRUCTION STANDARDS	TEST STANDARDS
Company Quality System Certified acc. to ISO 9001		
CE PED Certification acc. to 2014/68/EU		Hydrostatic shell and seat test
ATEX Certification acc. to 2014/34/EU	ASME BPE	Pneumatic shell and seat test
Fugitive Emission Class BH acc. to ISO 15848 and TA-LUFT (VDI2440) CO1 (-46°C to 200°C)	DIN 11850 R2	Buoscopic inspection
FDA & USP Class VI certificate of compliance for nonmetallic parts	ISO 1127	Ra measurement
Fire Safe Design acc to API 607 Ed.6 / ISO 10497 (optional)	ISO 5211	EN10204 type 3.1 certificate is available for each valve
SIL certification acc. to IEC 61508 (SIL 3)		EN10204 type 3.2 certificate is available upon request

RP Series

2 Way Floating
Barstock

The RP Series is a 2-way sanitary floating ball valve engineered to meet stringent requirements for purity, drainability, and cleanability, ensuring high process reliability and performance.

Applications

Suitable for a wide range of industries, including Pharmaceutical and Food & Beverage, the RP Series is particularly designed for applications involving clean steam, lean gases, solvents and biopharm.

Features

- Soft seated | Bidirectional
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem | Self relieving seats

Optional Features

- Degreased for oxygen
- Polished Stem Extension in A479 316/L
- V-Port for flow control applications

ASME BPE TUBE (O.D)

Tube Bore: ½" to 6"

DIN 11850 R2 TUBE

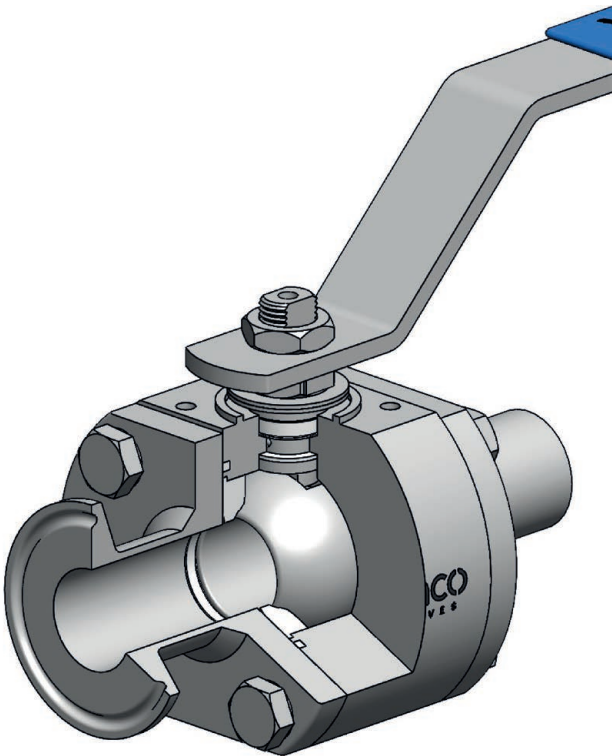
Tube Bore: 10 to 50
Full Bore: 65 to 150

ISO 1127 TUBE

Tube Bore: 8 to 50
Full Bore: 10 to 100

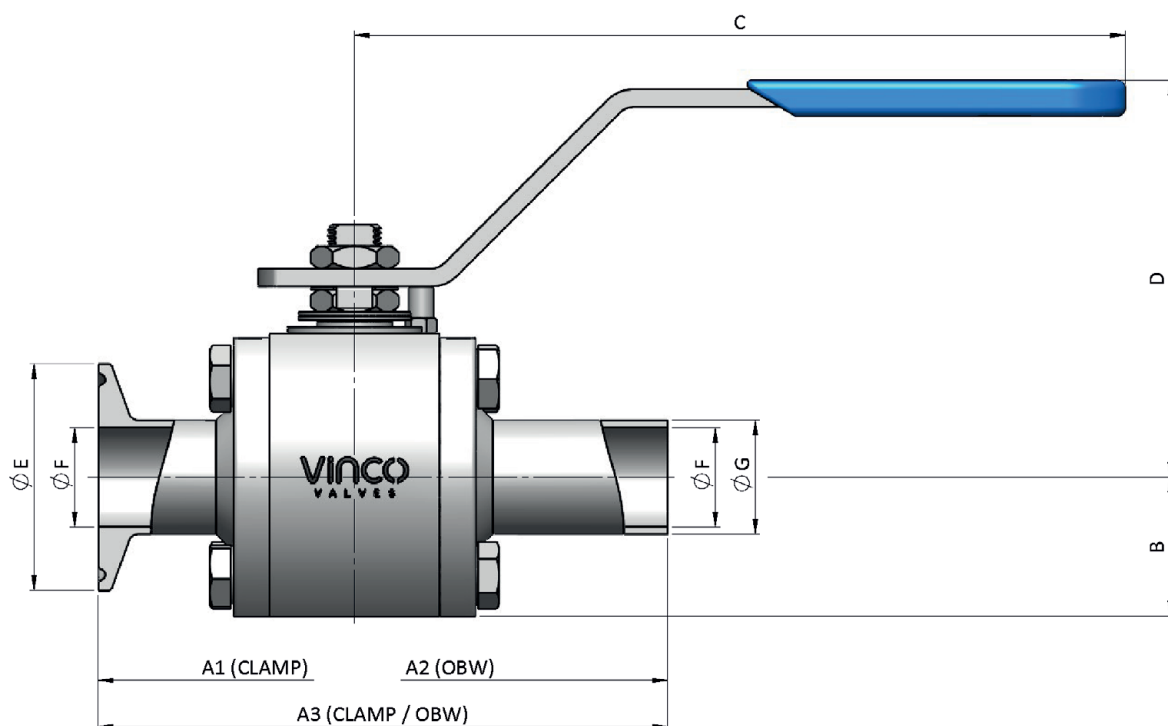
DESIGN TEMPERATURE

-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL	OPTIONAL* ALLOY STEEL
Body / Ends		A479 316/L	B574 N06022 (Alloy 22)
TRIM	Ball	A479 316/L	B574 N06022 (Alloy 22)
	Stem	A479 316/L	B574 N06022 (Alloy 22)
Seats		TFM1600	
Packing & Seals		TFM1600 & PTFE	
Bolting		A4 CL.70	
SURFACE FINISH			
STANDARD		OPTIONAL	
INTERNAL FINISH 0.51 µm / 20 µin (SF1)		INTERNAL FINISH 0.38 µm / 15 µin (SF4)	
EXTERNAL FINISH 0.76 µm / 30 µin (SF3)			

*Others available upon request



mm in

ASME	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
½"	300 750	9.4 0.37	88.9 3.50	114.3 4.50	101.6 4.00	22 0.87	140 5.51	65 2.56	25.0 0.98	9.4 0.37	12.7 0.50	0.8 1.76	F03
¾"	300 750	15.8 0.62	101.6 4.00	127.0 5.00	114.3 4.50	24.5 0.96	140 5.51	68.5 2.70	25.0 0.98	15.8 0.620	19.1 0.75	1.1 2.43	F03
1"	300 750	22.1 0.87	114.3 4.50	139.7 5.50	127.0 5.00	31 1.22	170 6.69	87.5 3.44	50.4 1.98	22.1 0.87	25.4 1.00	2.4 5.29	F04
1½"	300 750	34.8 1.37	139.7 5.50	165.1 6.50	152.4 6.00	44 1.73	200 7.87	112 4.41	50.4 1.98	34.8 1.37	38.1 1.50	4.8 10.58	F05
2"	300 750	47.5 1.87	165.1 6.50	190.5 7.50	177.8 7.00	53 2.09	230 9.06	123 4.84	63.9 2.52	47.5 1.87	50.8 2.00	8.2 18.08	F05
2½"	150 300	60.2 2.37	190.5 7.50	215.9 8.50	203.2 8.00	71.5 2.81	350 13.78	170 6.69	77.4 3.05	60.2 2.37	63.5 2.50	16 35.27	F07
3"	150 300	72.9 2.87	215.9 8.50	241.3 9.50	228.6 9.00	82.5 3.25	350 13.78	175 6.89	90.9 3.58	72.9 2.87	76.2 3.00	22 48.50	F07
4"	150 300	97.4 3.83	254.0 10.00	279.4 11.00	266.7 10.50	101 3.98	450 17.72	191 7.52	118.9 4.68	97.4 3.83	101.6 4.00	38.5 84.88	F10
6"	150 300	146.9 5.78	368.3 14.50	381.0 15.00	374.7 14.75	153 6.02	GEARBOX		166.9 6.57	146.9 5.78	152.4 6.00	135 297.62	F14

DIN	PN	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
10	40	10 0.39	90 3.54	115 4.53	102.5 4.04	22 0.87	140 5.51	65 2.56	34 1.34	10 0.39	13 0.51	0.8 1.76	F03
15	40	16 0.63	100 3.94	125 4.92	112.5 4.43	24.5 0.96	140 5.51	68.5 2.70	34 1.34	16 0.63	19 0.75	1.1 2.43	F03
20	40	20 0.79	115 4.53	140 5.51	127.5 5.02	31 1.22	170 6.69	87.5 3.44	34 1.34	20 0.79	23 0.91	2.4 5.29	F04
25	40	26 1.02	125 4.92	150 5.91	137.5 5.41	36 1.42	170 6.69	92.5 3.64	50.5 1.99	26 1.02	29 1.14	2.9 6.39	F04
32	40	32 1.26	140 5.51	165 6.50	152.5 6.00	44 1.73	200 7.87	112 4.41	50.5 1.99	32 1.26	35 1.38	4.8 10.58	F05
40	40	38 1.50	150 5.91	175 6.89	162.5 6.40	47 1.85	200 7.87	115 4.53	50.5 1.99	38 1.50	41 1.61	6.1 13.45	F05
50	40	50 1.97	165 6.50	190 7.48	177.5 6.99	53 2.09	230 9.06	123 4.84	64 2.52	50 1.97	53 2.09	8.2 18.08	F05
65	16	62 2.44	190 7.48	215 8.46	202.5 7.97	71.5 2.81	350 13.78	170 6.69	91 3.58	66 2.60	70 2.76	16 35.27	F07
80	16	75 2.95	215 8.46	240 9.45	227.5 8.96	82.5 3.25	350 13.78	175 6.89	106 4.17	81 3.19	85 3.35	22 48.50	F07
100	16	97.4 3.83	255 10.04	280 11.02	267.5 10.53	101 3.98	450 17.72	191 7.52	119 4.69	100 3.94	104 4.09	38.5 84.88	F10
150	16	146.9 5.78	370 14.57	380 14.96	375 14.76	153 6.02	GEARBOX		183 7.20	150 5.91	154 6.06	135 297.62	F14

ISO 1127 TUBE dimensions available upon request

XP Series

2 Way Floating
Investment Cast

The XP Series is manufactured from high-quality investment cast stainless steel, ensuring mechanical strength and long-term reliability. Its robust construction makes it ideal for technical rooms and demanding operating environments where durability and consistent performance are critical.

Applications

Designed for a wide range of industries, including Pharmaceutical and Food & Beverage, the XP Series is suitable for applications involving gases and liquids, condensate, and clean steam.

Features

- Soft seated | Bidirectional
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem | Self relieving seats

Optional Features

- Degreased for oxygen
- Stem Extension in A351 CF8M
- V-Port for flow control applications

ASME BPE TUBE (O.D)

Tube Bore: ½" to 6"

DIN 11850 R2 TUBE

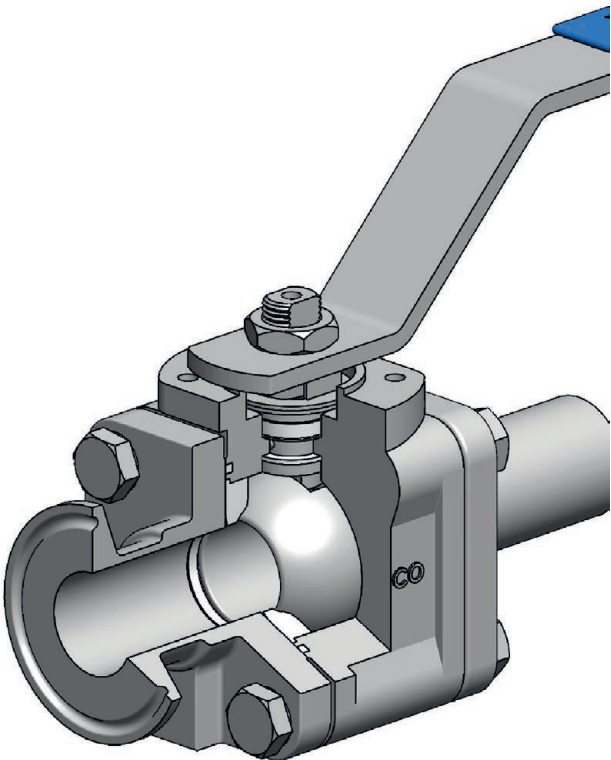
Tube Bore: 10 to 50
Full Bore: 65 to 150

ISO 1127 TUBE

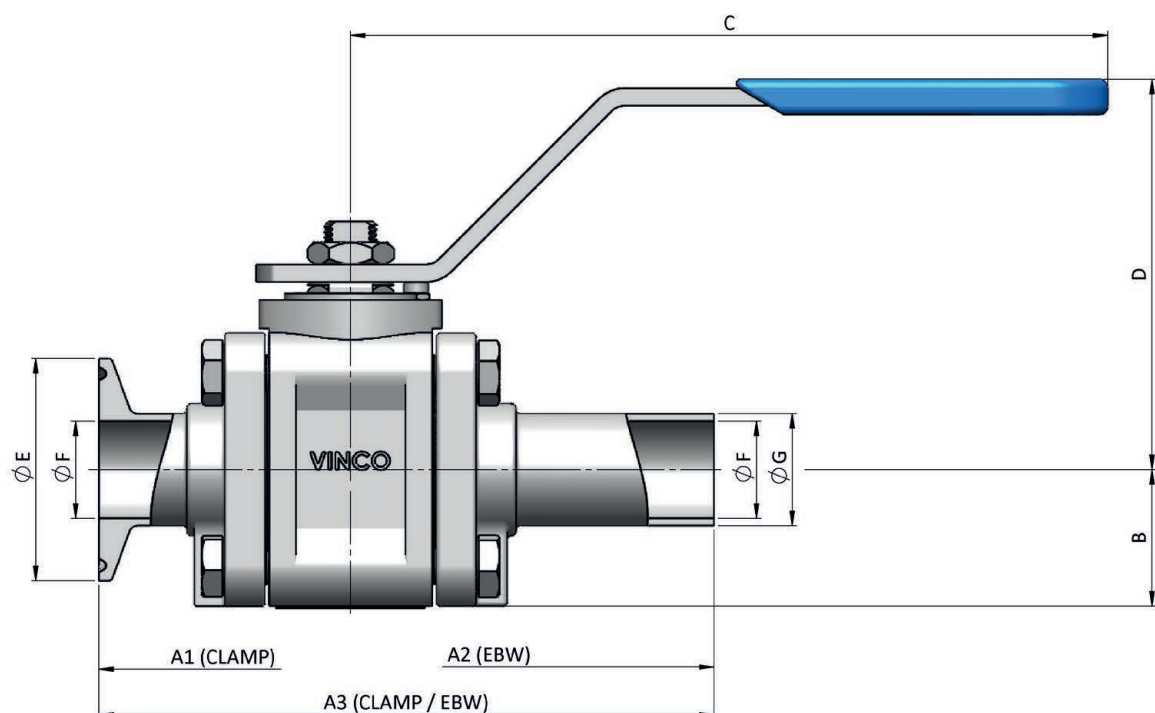
Tube Bore: 8 to 50
Full Bore: 10 to 100

DESIGN TEMPERATURE

-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body / Ends		A351 CF3M
TRIM	Ball	A351 CF3M
	Stem	A479 316/L
Seats		TFM1600
Packing & Seals		TFM1600 & PTFE
Bolting		A4 CL.70
SURFACE FINISH		
STANDARD		OPTIONAL
INTERNAL FINISH 0.51 µm / 20 µin (SF1)		INTERNAL FINISH 0.38 µm / 15 µin (SF4)
EXTERNAL FINISH mill finish (SF0)		



mm in

ASME	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
½"	300 750	9.4 0.37	88.9 3.50	139.7 5.50	114.3 4.50	21.25 0.84	140 5.51	65 2.56	25.0 0.98	9.4 0.37	12.7 0.50	0.7 1.54	F03
¾"	300 750	15.8 0.62	101.6 4.00	152.4 6.00	127.0 5.00	25 0.98	140 5.51	68.5 2.70	25.0 0.98	15.8 0.62	19.1 0.75	1.1 2.43	F03
1"	300 750	22.1 0.87	114.3 4.50	165.1 6.50	139.7 5.50	31 1.22	170 6.69	87.5 3.44	50.4 1.98	22.1 0.87	25.4 1.00	1.8 3.97	F04
1½"	300 750	34.8 1.37	139.7 5.50	190.5 7.50	165.1 6.50	42 1.65	200 7.87	112 4.41	50.4 1.98	34.8 1.37	38.1 1.50	4 8.82	F05
2"	300 750	47.5 1.87	165.1 6.50	215.9 8.50	190.5 7.50	53 2.09	230 9.06	123 4.84	63.9 2.52	47.5 1.87	50.8 2.00	7.2 15.87	F05
2½"	150 300	60.2 2.37	190.5 7.50	241.3 9.50	215.9 8.50	73 2.87	350 13.78	170 6.69	77.4 3.05	60.2 2.37	63.5 2.50	11.5 25.35	F07
3"	150 300	72.9 2.87	215.9 8.50	266.7 10.50	241.3 9.50	83.5 3.29	350 13.78	180 7.09	90.9 3.58	72.9 2.87	76.2 3.00	18.5 40.79	F07
4"	150 300	97.4 3.83	254.0 10.00	304.8 12.00	279.4 11.00	101.5 4.00	450 17.72	205 8.07	118.9 4.68	97.4 3.83	101.6 4.00	29.5 65.04	F10
6"	150 300	146.9 5.78	368.3 14.50	419.1 16.50	393.7 15.50	162.5 6.40	GEARBOX		166.9 6.57	146.9 5.78	152.4 6.00	120 264.55	F14

DIN	PN	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
10	40	10 0.39	90 3.54	140 5.51	115 4.53	21.25 0.84	140 5.51	65 2.56	34 1.34	10 0.39	13 0.51	0.7 1.54	F03
15	40	16 0.63	100 3.94	150 5.91	125 4.92	25 0.98	140 5.51	68.5 2.70	34 1.34	16 0.63	19 0.75	1.1 2.43	F03
20	40	20 0.79	115 4.53	165 6.50	140 5.51	31 1.22	170 6.69	87.5 3.44	34 1.34	20 0.79	23 0.91	1.8 3.97	F04
25	40	26 1.02	125 4.92	175 6.89	150 5.91	36 1.42	170 6.69	92.5 3.64	50.5 1.99	26 1.02	29 1.14	2.3 5.07	F04
32	40	32 1.26	140 5.51	190 7.48	165 6.50	42 1.65	200 7.87	112 4.41	50.5 1.99	32 1.26	35 1.38	4 8.82	F05
40	40	38 1.50	150 5.91	200 7.87	175 6.89	47 1.85	200 7.87	115 4.53	50.5 1.99	38 1.50	41 1.61	5.4 11.90	F05
50	40	50 1.97	165 6.50	215 8.46	190 7.48	53 2.09	230 9.06	123 4.84	64 2.52	50 1.97	53 2.09	7.2 15.87	F05
65	16	62 2.44	190 7.48	240 9.45	215 8.46	73 2.87	350 13.78	170 6.69	91 3.58	66 2.60	70 2.76	11.5 25.35	F07
80	16	75 2.95	215 8.46	265 10.43	240 9.45	83.5 3.29	350 13.78	180 7.09	106 4.17	81 3.19	85 3.35	18.5 40.79	F07
100	16	97.4 3.83	255 10.04	305 12.01	280 11.02	101.5 4.00	450 17.72	205 8.07	119 4.69	100 3.94	104 4.09	29.5 65.04	F10
150	16	146.9 5.78	370 14.57	420 16.54	395 15.55	162.5 6.40	GEARBOX		183 7.20	150 5.91	154 6.06	120 264.55	F14

ISO 1127 TUBE dimensions available upon request

LP Series

2 Way Floating
Investment Cast

The LP Series is designed with a lightweight investment cast construction, offering a cost-effective solution for standard sanitary applications. Its simplified design provides reliable performance while optimizing material usage and overall system cost.

Applications

Suitable for a wide range of industries, including Pharmaceutical and Food & Beverage, the LP Series is ideal for non-critical applications involving gases, liquids, and steam.

Features

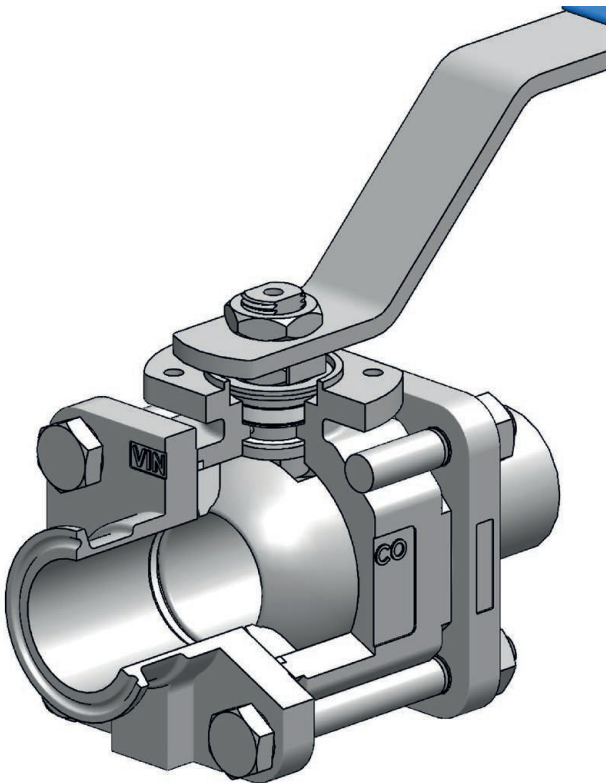
- Soft seated | Bidirectional
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem | Self relieving seats

Optional Features

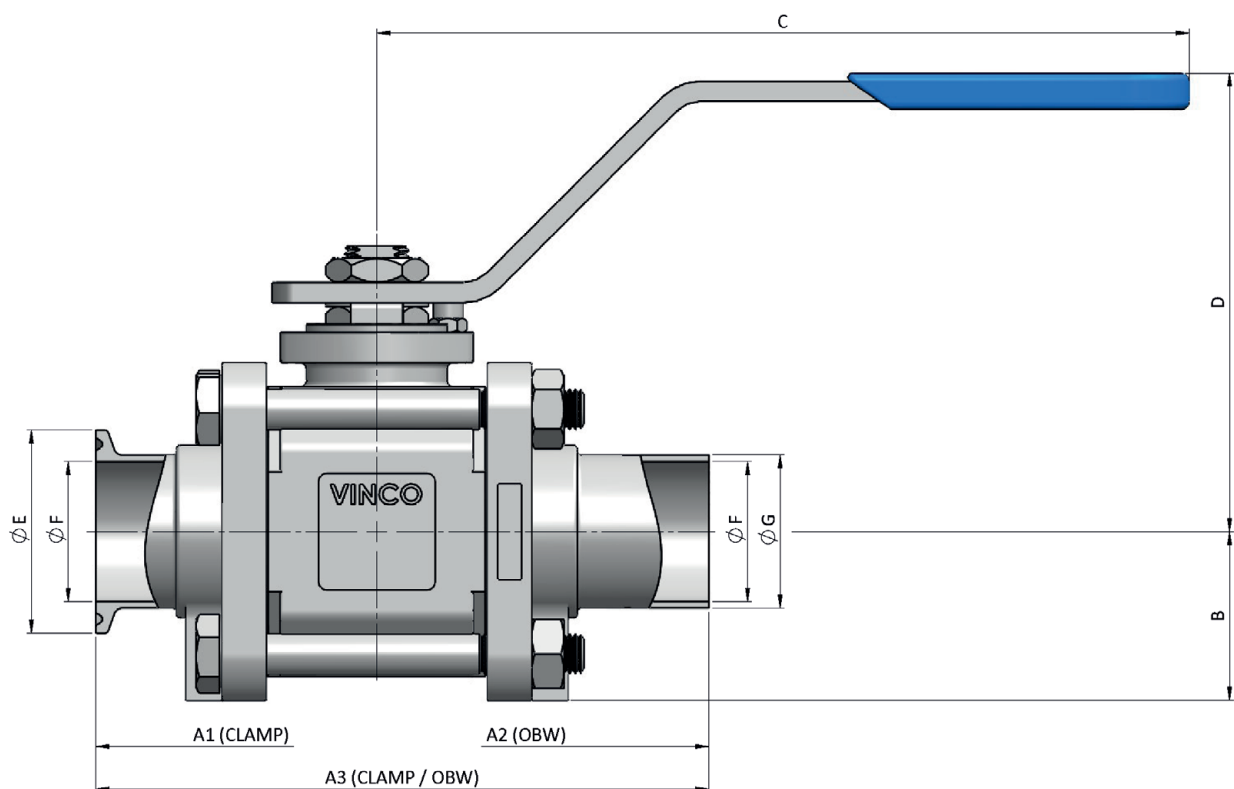
- Degreased for oxygen
- Stem Extension in A351 CF8M
- V-Port for flow control applications

ASME BPE TUBE (O.D)
Tube Bore: ½" to 2"

DESIGN TEMPERATURE
-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body / Ends		A351 CF3M
TRIM	Ball	A351 CF3M
	Stem	A479 316/L
Seats		PTFE
Packing & Seals		TFM1600 & PTFE
Bolting		A4 CL.70
SURFACE FINISH		
STANDARD		OPTIONAL
INTERNAL FINISH 0.76 µm / 30 µin (SF3)		INTERNAL FINISH 0.51 µm / 20 µin (SF5)
EXTERNAL FINISH mill finish (SF0)		



mm in

ASME	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
½"	300 750	9.4 0.37	88.9 3.50	114.3 4.50	101.6 4.00	21.25 0.84	140 5.51	65 2.56	25.0 0.98	9.4 0.37	12.7 0.50	0.6 1.32	F03
¾"	300 750	15.8 0.62	101.6 4.00	127.0 5.00	114.3 4.50	25 0.98	140 5.51	68.5 2.70	25.0 0.98	15.8 0.62	19.1 0.75	0.8 1.76	F03
1"	300 750	22.1 0.87	114.3 4.50	139.7 5.50	127.0 5.00	31 1.22	170 6.69	87.5 3.44	50.4 1.98	22.1 0.87	25.4 1.00	1.5 3.31	F04
1½"	300 750	34.8 1.37	139.7 5.50	165.1 6.50	152.4 6.00	42 1.65	200 7.87	112 4.41	50.4 1.98	34.8 1.37	38.1 1.50	3.3 7.28	F05
2"	300 750	47.5 1.87	165.1 6.50	190.5 7.50	177.8 7.00	53 2.09	230 9.06	123 4.84	63.9 2.52	47.5 1.87	50.8 2.00	6.3 13.89	F05

MP Series

Multiport Floating
Barstock

The MP Series is a 3/4/5-way high-performance sanitary floating ball valve, engineered for demanding hygienic processes where precision, reliability and cleanability are critical. Designed to meet the strict standards of purity and full drainability, the MP Series ensures optimal flow control while minimizing dead legs and product retention.

Its robust construction and advanced sealing concept deliver consistent performance even in clean steam and clean gas systems.

Applications

Suitable for clean steam, clean gas applications and high purity systems.

Features

- Multiport | L/T/X Port | Soft seated
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem | Self relieving seats

Optional Features

- Degreased for oxygen
- Polished Stem Extension in A479 316/L

ASME BPE TUBE (O.D)

Tube Bore: ½" to 4"

DIN 11850 R2 TUBE

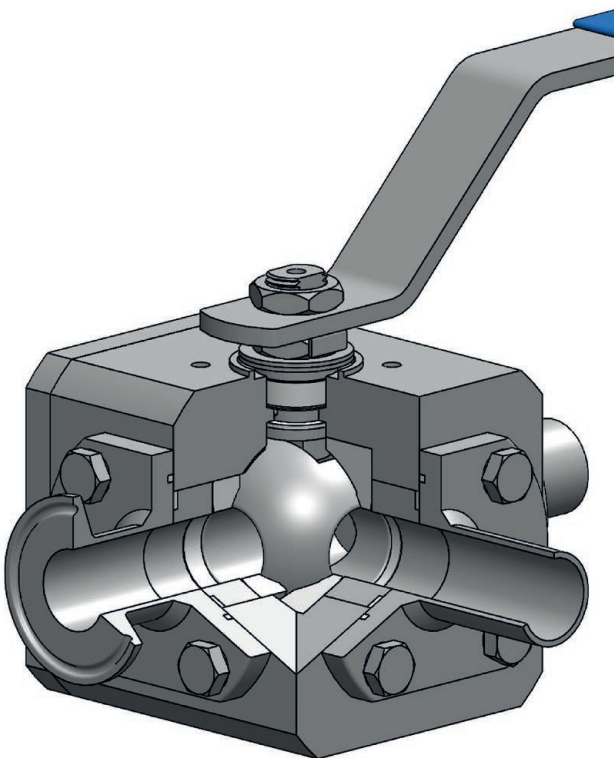
Tube Bore: 10 to 50
Full Bore: 65 to 100

ISO 1127 TUBE

Full Bore: 10 to 50

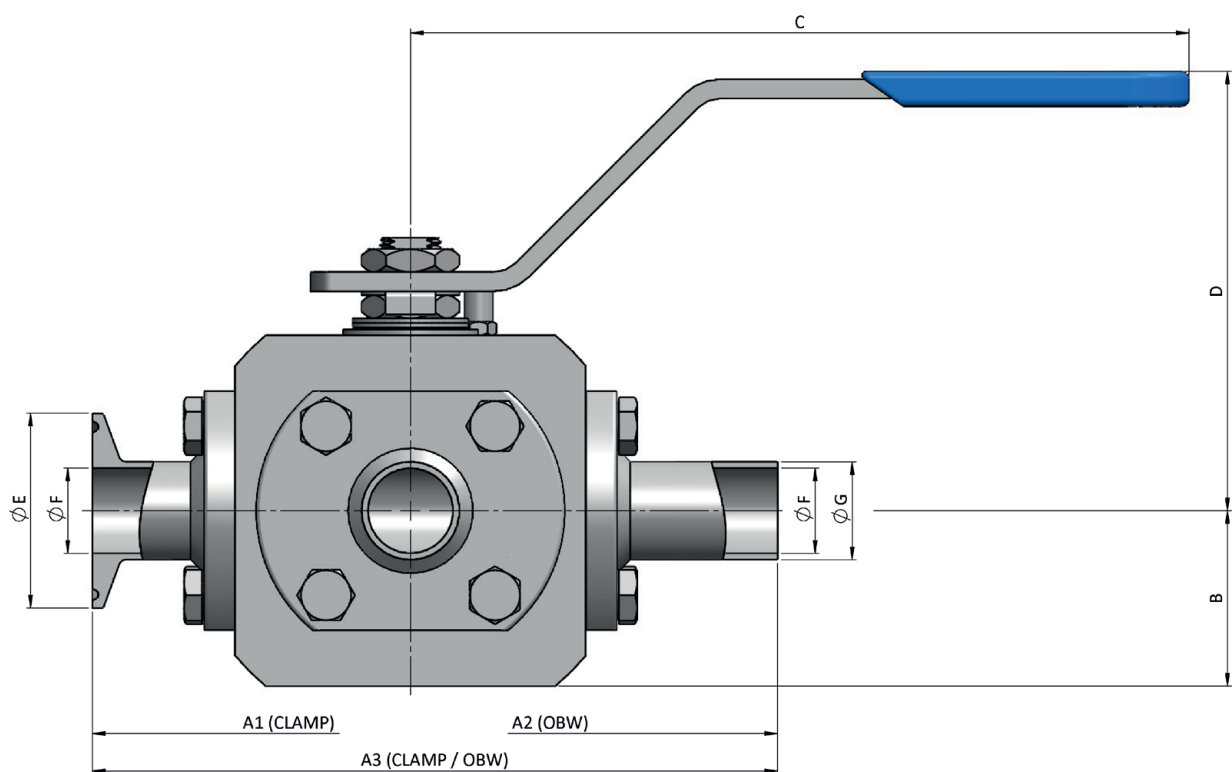
DESIGN TEMPERATURE

-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL	OPTIONAL* ALLOY STEEL
Body / Ends		A479 316/L	B574 N06022 (Alloy 22)
TRIM	Ball	A479 316/L	B574 N06022 (Alloy 22)
	Stem	A479 316/L	B574 N06022 (Alloy 22)
Seats		TFM1600	
Packing & Seals		TFM1600 & PTFE	
Bolting		A4 CL.70	
SURFACE FINISH			
STANDARD		OPTIONAL	
INTERNAL FINISH 0.51 µm / 20 µin (SF1)		INTERNAL FINISH 0.38 µm / 15 µin (SF4)	
EXTERNAL FINISH 0.76 µm / 30 µin (SF3)			

*Others available upon request



mm in

ASME	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
½"	300 750	9.4 0.37	133.4 5.25	158.8 6.25	146.1 5.75	35 1.38	170 6.69	91 3.58	25.0 0.98	9.4 0.37	12.7 0.50	3.4 7.50	F04
¾"	300 750	15.8 0.62	139.7 5.50	165.1 6.50	152.4 6.00	35 1.38	170 6.69	91 3.58	25.0 0.98	15.8 0.62	19.1 0.75	3.5 7.72	F04
1"	300 750	22.1 0.87	165.1 6.50	190.5 7.50	177.8 7.00	45.5 1.79	200 7.87	112 4.41	50.4 1.98	22.1 0.87	25.4 1.00	7.3 16.09	F05
1½"	300 750	34.8 1.37	203.2 8.00	228.6 9.0	215.9 8.50	59 2.32	230 9.06	128 5.04	50.4 1.98	34.8 1.37	38.1 1.50	14.7 32.41	F05
2"	300 750	47.5 1.87	266.7 10.50	292.1 11.50	279.4 11.00	85 3.35	350 13.78	170 6.69	63.9 2.52	47.5 1.87	50.8 2.00	41.5 91.49	F07
2½"	150 300	60.2 2.37	304.8 12.00	330.2 13.00	317.5 12.50	108 4.25	450 17.72	203 7.99	77.4 3.05	60.2 2.37	63.5 2.50	80 176.37	F10
3"	150 300	72.9 2.87	317.5 12.50	342.9 13.50	330.2 13.00	108 4.25	450 17.72	203 7.99	90.9 3.58	72.9 2.87	76.2 3.00	82 180.78	F10
4"	150 300	97.4 3.83	381.0 15.00	406.4 16.00	393.7 15.50	131 5.16	500 19.69	230 9.06	118.9 4.68	97.4 3.83	101.6 4.00	138 304.23	F10

DIN	PN	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
10	40	10 0.39	135 5.31	160 6.30	147.5 5.81	35 1.38	170 6.69	91 3.58	34 1.34	10 0.39	13 0.51	3.4 7.50	F04
15	40	16 0.63	140 5.51	165 6.50	152.5 6.00	35 1.38	170 6.69	91 3.58	34 1.34	16 0.63	19 0.75	3.5 7.72	F04
20	40	20 0.79	165 6.50	195 7.68	180 7.09	45.5 1.79	200 7.87	112 4.41	34 1.34	20 0.79	23 0.91	7.3 16.09	F05
25	40	26 1.02	170 6.69	195 7.68	182.5 7.19	45.5 1.79	200 7.87	112 4.41	50.5 1.99	26 1.02	29 1.14	7.4 16.31	F05
32	40	32 1.26	205 8.07	230 9.06	217.5 8.56	59 2.32	230 9.06	128 5.04	50.5 1.99	32 1.26	35 1.38	14.7 32.41	F05
40	40	38 1.50	205 8.07	230 9.06	217.5 8.56	59 2.32	230 9.06	128 5.04	50.5 1.99	38 1.50	41 1.61	14.8 32.63	F05
50	40	50 1.97	265 10.43	290 11.42	277.5 10.93	85 3.35	350 13.78	170 6.69	64 2.52	50 1.97	53 2.09	41.5 91.49	F07
65	16	62 2.44	305 12.01	330 12.99	317.5 12.50	108 4.25	450 17.72	203 7.99	91 3.58	66 2.60	70 2.76	80 176.37	F10
80	16	75 2.95	320 12.60	345 13.58	332.5 13.09	108 4.25	450 17.72	203 7.99	106 4.17	81 3.19	85 3.35	82 180.78	F10
100	16	97.4 3.83	380 14.96	400 15.75	390 15.35	131 5.16	500 19.69	230 9.06	119 4.69	100 3.94	104 4.09	138 304.23	F10

ISO 1127 TUBE dimensions available upon request

QP Series

Multiport Floating
Investment Cast

The QP Series is a versatile multiport sanitary floating ball valve designed for applications where reliability, robustness and cost efficiency are essential. Manufactured using high quality investment cast construction, the QP Series offers excellent mechanical strength and durability while maintaining hygienic performance standards. Available in multiport configurations, it enables efficient flow distribution and compact system design.

Applications

Engineered for both gases and liquids, including condensate and clean steam, it is ideal for technical rooms and utility systems.

Features

- Multiport | L/T/X Port | Soft seated
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem | Self relieving seats

Optional Features

- Degreased for oxygen
- Stem Extension in A351 CF8M

ASME BPE TUBE (O.D)

Tube Bore: ½" to 2"

DIN 11850 R2 TUBE

Tube Bore: 10 to 50

ISO 1127 TUBE

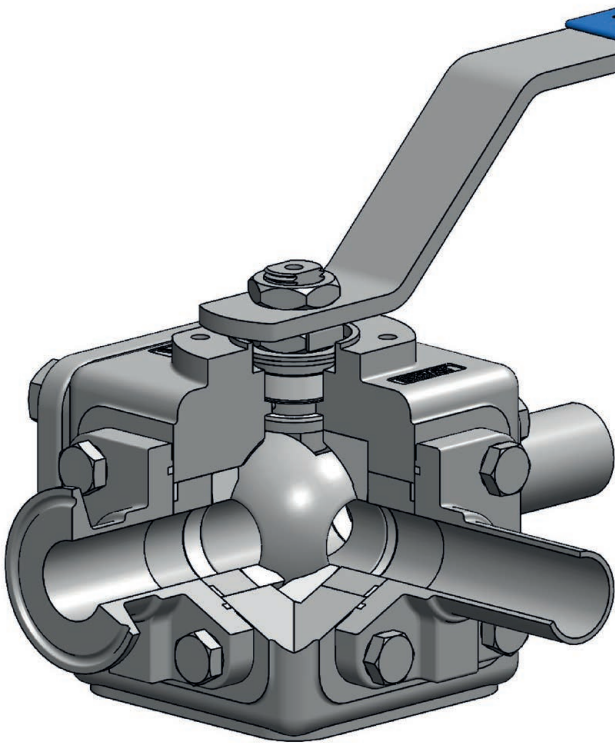
Tube Bore: 8 to 40

Full Bore: 10 to 50

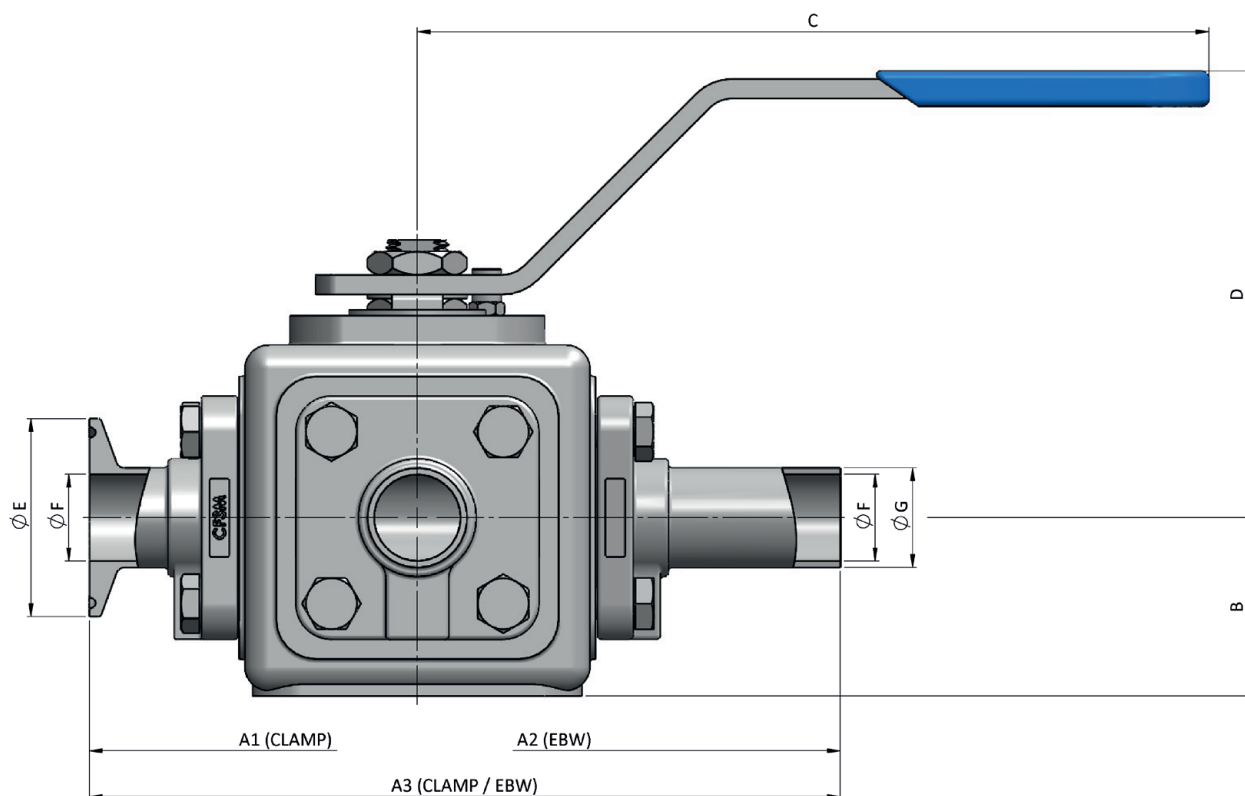
DESIGN TEMPERATURE

-50°C to 200°C

-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body / Ends		A351 CF3M
TRIM	Ball	A351 CF3M
	Stem	A479 316/L
Seats		TFM1600
Packing & Seals		TFM1600 & PTFE
Bolting		A4 CL.70
SURFACE FINISH		
STANDARD		OPTIONAL
INTERNAL FINISH 0.51 μm / 20 μin (SF1)		INTERNAL FINISH 0.38 μm / 15 μin (SF4)
EXTERNAL FINISH mill finish (SF0)		



mm in

ASME	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
½"	300 750	9.4 0.37	133.4 5.25	184.2 7.25	158.8 6.25	35 1.38	170 6.69	91 3.58	25.0 0.98	9.4 0.37	12.7 0.50	3.4 7.50	F04
¾"	300 750	15.8 0.62	139.7 5.50	190.5 7.50	165.1 6.50	35 1.38	170 6.69	91 3.58	25.0 0.98	15.8 0.62	19.1 0.75	3.5 7.72	F04
1"	300 750	22.1 0.87	165.1 6.50	215.9 8.50	190.5 7.50	45 1.77	200 7.87	112 4.41	50.4 1.98	22.1 0.87	25.4 1.00	7.3 16.09	F05
1½"	300 750	34.8 1.37	203.2 8.00	254.0 10.0	228.6 9.00	60 2.36	230 9.06	128 5.04	50.4 1.98	34.8 1.37	38.1 1.50	14.5 31.97	F05
2"	300 750	47.5 1.87	266.7 10.50	317.5 12.50	292.1 11.50	85 3.35	350 13.78	170 6.69	63.9 2.52	47.5 1.87	50.8 2.00	40 88.18	F07

DIN	PN	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
10	40	10 0.39	135 5.31	185 7.28	160 6.30	35 1.38	170 6.69	91 3.58	34 1.34	10 0.39	13 0.51	3.4 7.50	F04
15	40	16 0.63	140 5.51	190 7.48	165 6.50	35 1.38	170 6.69	91 3.58	34 1.34	16 0.63	19 0.75	3.5 7.72	F04
20	40	20 0.79	165 6.50	220 8.66	192.5 7.58	45 1.77	200 7.87	112 4.41	34 1.34	20 0.79	23 0.91	7.3 16.09	F05
25	40	26 1.02	170 6.69	220 8.66	195 7.68	45 1.77	200 7.87	112 4.41	50.5 1.99	26 1.02	29 1.14	7.4 16.31	F05
32	40	32 1.26	205 8.07	255 10.04	230 9.06	60 2.36	230 9.06	128 5.04	50.5 1.99	32 1.26	35 1.38	14.5 31.97	F05
40	40	38 1.50	205 8.07	255 10.04	230 9.06	60 2.36	230 9.06	128 5.04	50.5 1.99	38 1.50	41 1.61	14.6 32.19	F05
50	40	50 1.97	265 10.43	315 12.40	290 11.42	85 3.35	350 13.78	170 6.69	64 2.52	50 1.97	53 2.09	40 88.18	F07

ISO 1127 TUBE dimensions available upon request

RPD Series

Diverter
Barstock

The RPD Series is a dedicated 3-way sanitary diverter ball valve specifically developed for controlled flow redirection in hygienic systems. Its “L” configuration, with side-entry inlet design and no isolation seat on the inlet port, allows smooth product transition while reducing internal complexity and potential retention areas.

Applications

Typical applications include clean steam distribution, sterile gas routing and utility line diversion in Pharmaceutical and Food & Beverage facilities.

Features

- Multiport | Diverter | Soft seated
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem | Self relieving seats

Optional Features

- Degreased for oxygen
- Polished Stem Extension in A479 316/L
- V-Port for flow control applications

ASME BPE TUBE (O.D)

Tube Bore: ½” to 6”

DIN 11850 R2 TUBE

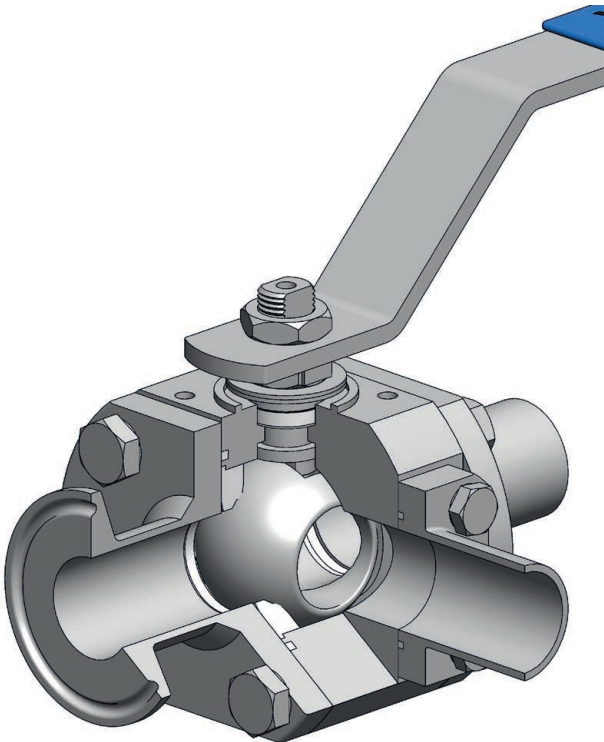
Tube Bore: 10 to 50
Full Bore: 65 to 150

ISO 1127 TUBE

Tube Bore: 8 to 50
Full Bore: 10 to 150

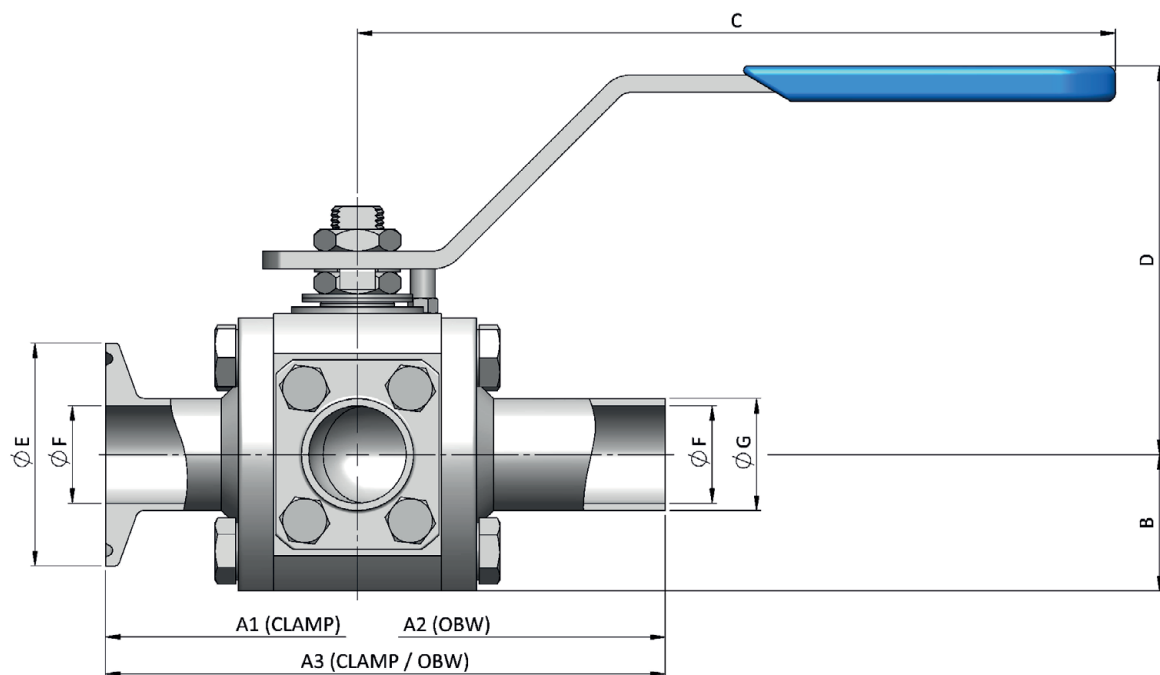
DESIGN TEMPERATURE

-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL	OPTIONAL* ALLOY STEEL
Body / Ends		A479 316/L	B574 N06022 (Alloy 22)
TRIM	Ball	A479 316/L	B574 N06022 (Alloy 22)
	Stem	A479 316/L	B574 N06022 (Alloy 22)
Seats		TFM1600	
Packing & Seals		TFM1600 & PTFE	
Bolting		A4 CL.70	
SURFACE FINISH			
STANDARD		OPTIONAL	
INTERNAL FINISH 0.51 µm / 20 µin (SF1)		INTERNAL FINISH 0.38 µm / 15 µin (SF4)	
EXTERNAL FINISH 0.76 µm / 30 µin (SF3)			

*Others available upon request



mm in

ASME	CLASS psi	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211
½"	600 1500	9.4 0.37	88.9 3.50	114.3 4.50	101.6 4.00	22 0.87	140 5.51	65 2.56	25.0 0.98	9.4 0.37	12.7 0.50	0.8 1.76	F03
¾"	600 1500	15.8 0.62	101.6 4.00	127.0 5.00	114.3 4.50	24.5 0.96	140 5.51	68.5 2.70	25.0 0.98	15.8 0.620	19.1 0.75	1.1 2.43	F03
1"	600 1500	22.1 0.87	114.3 4.50	139.7 5.50	127.0 5.00	31 1.22	170 6.69	87.5 3.44	50.4 1.98	22.1 0.87	25.4 1.00	2 4.41	F04
1½"	400 1000	34.8 1.37	139.7 5.50	165.1 6.50	152.4 6.00	44 1.73	200 7.87	112 4.41	50.4 1.98	34.8 1.37	38.1 1.50	4.6 10.14	F05
2"	400 1000	47.5 1.87	165.1 6.50	190.5 7.50	177.8 7.00	53 2.09	230 9.06	123 4.84	63.9 2.52	47.5 1.87	50.8 2.00	8.2 18.08	F05
2½"	400 1000	60.2 2.37	190.5 7.50	215.9 8.50	203.2 8.00	71.5 2.81	350 13.78	170 6.69	77.4 3.05	60.2 2.37	63.5 2.50	16.4 36.16	F07
3"	400 1000	72.9 2.87	215.9 8.50	241.3 9.50	228.6 9.00	82.5 3.25	350 13.78	175 6.89	90.9 3.58	72.9 2.87	76.2 3.00	21.2 46.74	F07
4"	300 750	97.4 3.83	254.0 10.00	279.4 11.00	266.7 10.50	101 3.98	450 17.72	191 7.52	118.9 4.68	97.4 3.83	101.6 4.00	36.1 79.59	F10
6"	150 300	146.9 5.78	368.3 14.50	381.0 15.00	374.7 14.75	153 6.02	GEARBOX		166.9 6.57	146.9 5.78	152.4 6.00	135 297.62	F14

DIN	PN	BORE	A1	A2	A3	B	C	D	E	F	G	WEIGHT kg lb	ISO 5211	
10	40	10 0.39	90 3.54	115 4.53	102.5 4.04	22 0.87	140 5.51	65 2.56	34 1.34	10 0.39	13 0.51	0.8 1.76	F03	
15	40	16 0.63	100 3.94	125 4.92	112.5 4.43	24.5 0.96	140 5.51	68.5 2.70	34 1.34	16 0.63	19 0.75	1.1 2.43	F03	
20	40	20 0.79	115 4.53	140 5.51	127.5 5.02	31 1.22	170 6.69	87.5 3.44	34 1.34	20 0.79	23 0.91	2 4.41	F04	
25	40	26 1.02	125 4.92	150 5.91	137.5 5.41	36 1.42	170 6.69	92.5 3.64	50.5 1.99	26 1.02	29 1.14	2.8 6.17	F04	
32	40	32 1.26	140 5.51	165 6.50	152.5 6.00	44 1.73	200 7.87	112 4.41	50.5 1.99	32 1.26	35 1.38	4.6 10.14	F05	
40	40	38 1.50	150 5.91	175 6.89	162.5 6.40	47 1.85	200 7.87	115 4.53	50.5 1.99	38 1.50	41 1.61	6.1 13.45	F05	
50	40	50 1.97	165 6.50	190 7.48	177.5 6.99	53 2.09	230 9.06	123 4.84	64 2.52	50 1.97	53 2.09	8.2 18.08	F05	
65	16	62 2.44	190 7.48	215 8.46	202.5 7.97	71.5 2.81	350 13.78	170 6.69	91 3.58	66 2.60	70 2.76	16.5 36.38	F07	
80	16	75 2.95	215 8.46	240 9.45	227.5 8.96	82.5 3.25	350 13.78	175 6.89	106 4.17	81 3.19	85 3.35	21.4 47.18	F07	
100	16	97.4 3.83	255 10.04	280 11.02	267.5 10.53	101 3.98	450 17.72	191 7.52	119 4.69	100 3.94	104 4.09	38.5 84.88	F10	
150	16	146.9 5.78	370 14.57	380 14.96	375 14.76	153 6.02	GEARBOX			183 7.20	150 5.91	154 6.06	135 297.62	F14

ISO 1127 TUBE dimensions available upon request

CFP Series

2 Way Floating
Investment Cast

The CFP Series features a robust split body construction and high quality investment cast. Designed for durability and operational reliability, it provides a dependable on-off solution for non-critical process and utility installations.

Applications

Typical applications include fine chemicals, vacuum systems, cosmetics, gases and water, and utility lines in Pharmaceutical facilities.

Features

- Soft seated | Bidirectional
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

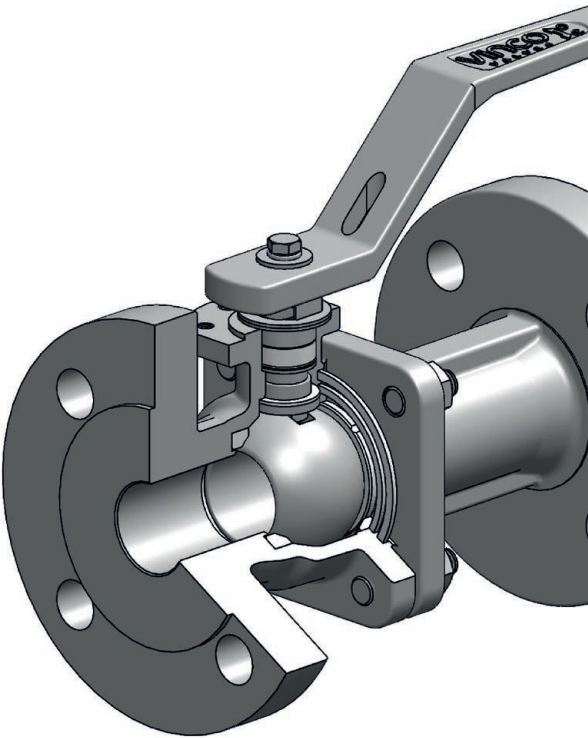
- Upstream pressure relief hole
- Stem Extension in A351 CF8M
- V-Port for flow control applications

DIN PN 16 / 40

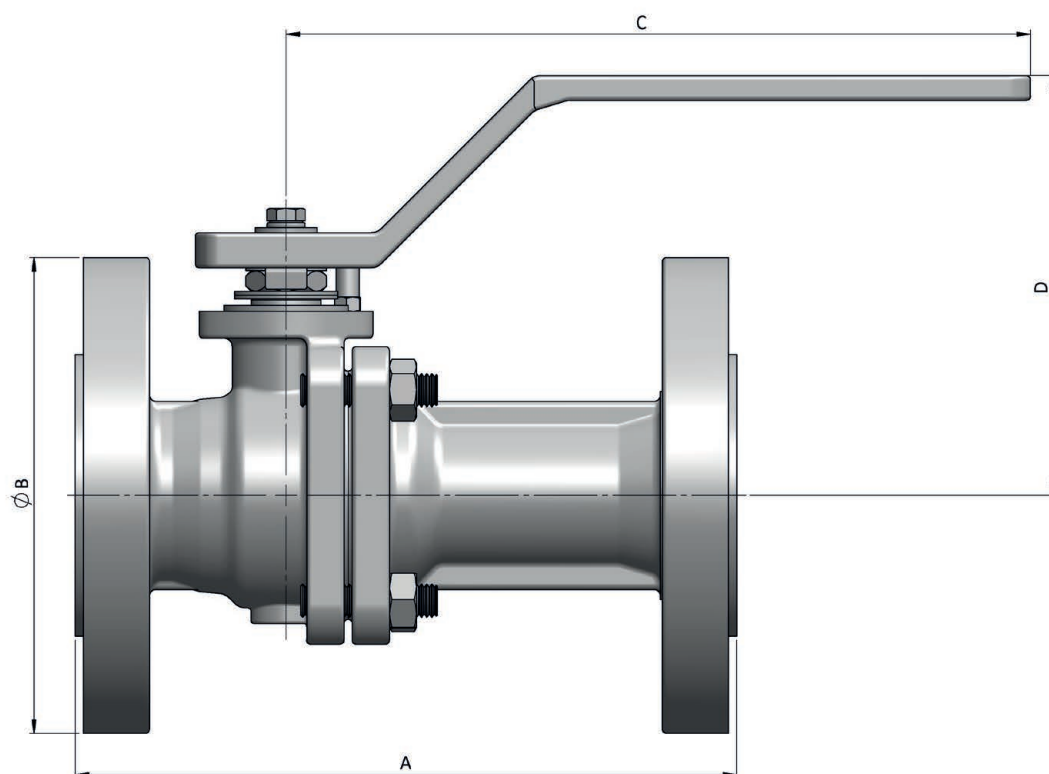
Full Bore: DN15 - 200

DESIGN TEMPERATURE

-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body / Ends		1.4408
TRIM	Ball	1.4408
	Stem	1.4401 / 4
Seats		TFM1600
Packing & Seals		TFM1600 & PTFE
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

CFP Series

2 Way Floating
Investment Cast

The CFP Series features a robust split body construction and high quality investment cast. Designed for durability and operational reliability, it provides a dependable on-off solution for non-critical process and utility installations.

Applications

Typical applications include fine chemicals, vacuum systems, cosmetics, gases and water, and utility lines in Pharmaceutical facilities.

Features

- Soft seated | Bidirectional
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Stem Extension in A351 CF8M
- V-Port for flow control applications

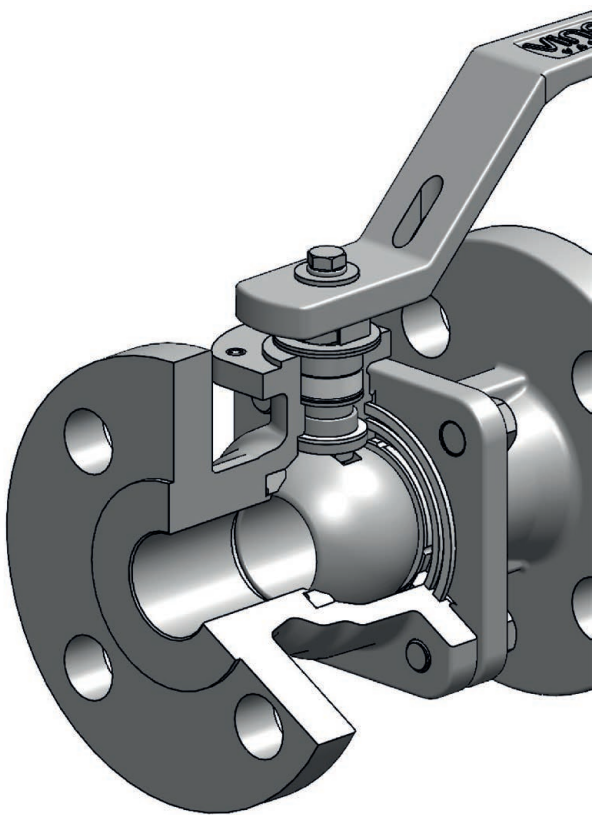
ASME CL 150 to 600

Full Bore: ½" - 8"

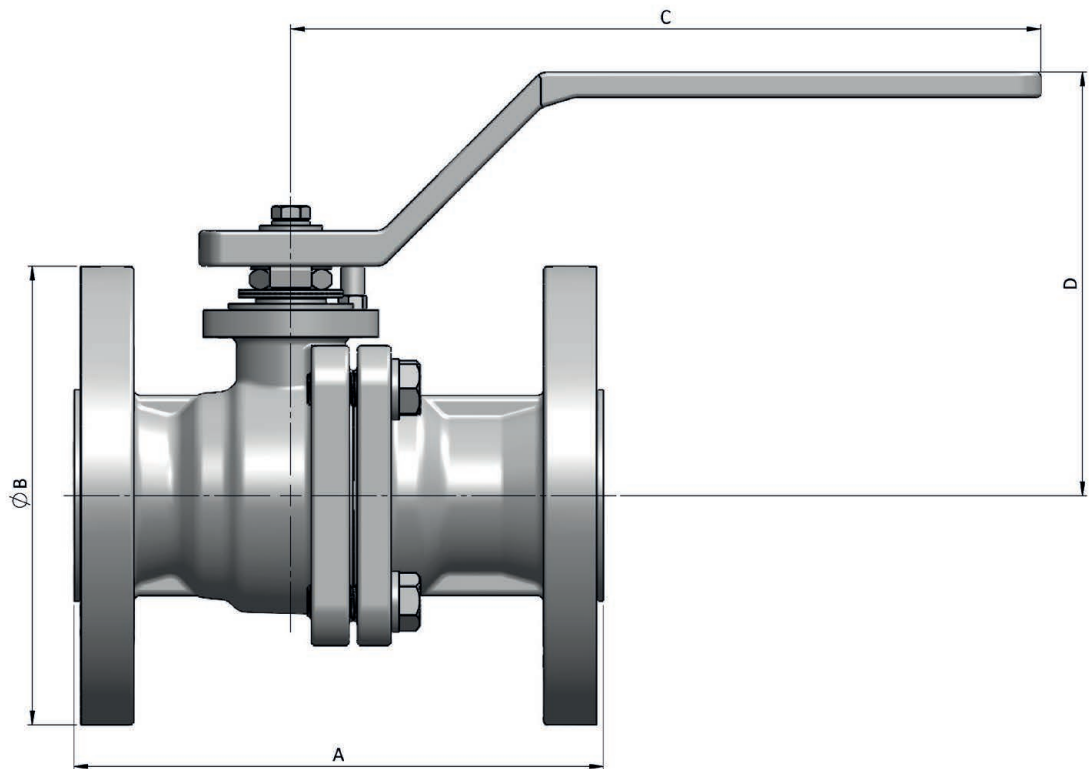
DESIGN TEMPERATURE

-50°C to 200°C

-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body / Ends		A351 CF8M
TRIM	Ball	A351 CF8M
	Stem	A479 316/L
Seats		TFM1600
Packing & Seals		TFM1600 & PTFE
Bolting		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

XFP Series

2 Way Floating
Investment Cast

The XFP Series is a heavy-duty 3-piece bolted cast valve, designed for reliable shut-off performance in industrial service applications. It provides structural strength while allowing straightforward maintenance and in-line servicing.

Applications

Engineered for general process duties, the valve delivers consistent on-off control across a wide range of media and operating conditions.

Features

- Soft seated | Bidirectional
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Upstream pressure relief hole
- Stem Extension in A351 CF8M
- V-Port for flow control applications

ASME CL 800 to 150

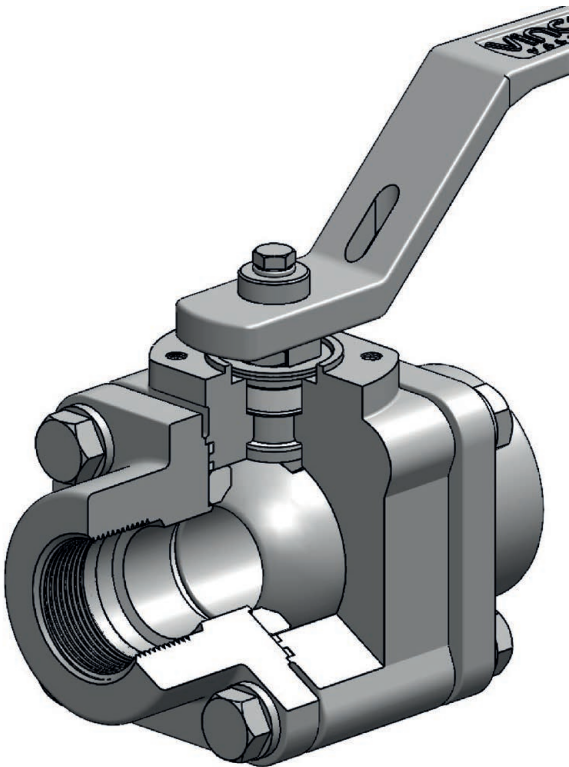
Full Bore: 3/8" - 6"

Reduced Bore: 1/2" - 6"

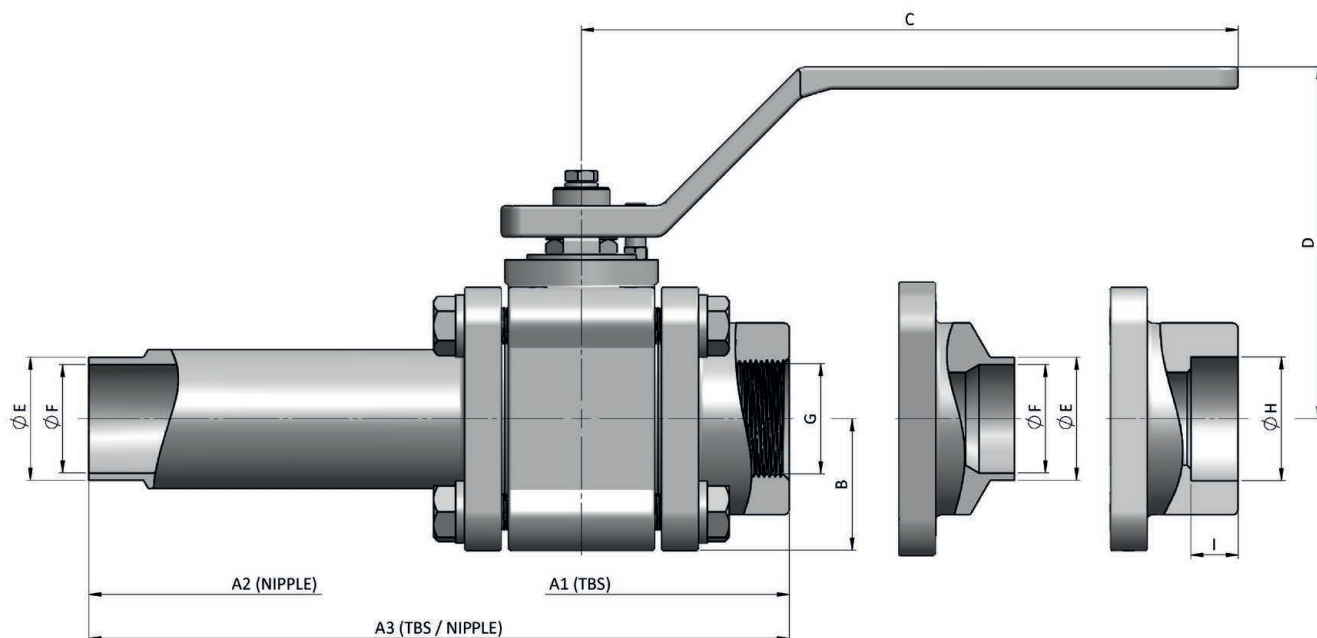
DESIGN TEMPERATURE

-50°C to 200°C

-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body / Ends		A351 CF3M
TRIM	Ball	A351 CF8M
	Stem	A479 316/L
Seats		TFM1600
Packing & Seals		TFM1600 & PTFE
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	
3/8"	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	-
1/2"	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
3/4"	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
1 1/4"	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
1 1/2"	600 1500	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"	600 1500	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
2 1/2"	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

QFP Series

Multiport Floating
Investment Cast

The QFP Series is a versatile multiport ball valve developed for technical room installations and general utility service within industrial and regulated environments. It offers durability, structural integrity and dependable performance in applications where flexibility of flow routing is required.

Applications

Designed for reliable on-off and diversion service, it performs consistently across a range of media including gases, water, condensate and fine chemicals.

Features

- Multiport | L/T/X Port | Soft seated
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Stem Extension in A351 CF8M
- Degreased for oxygen

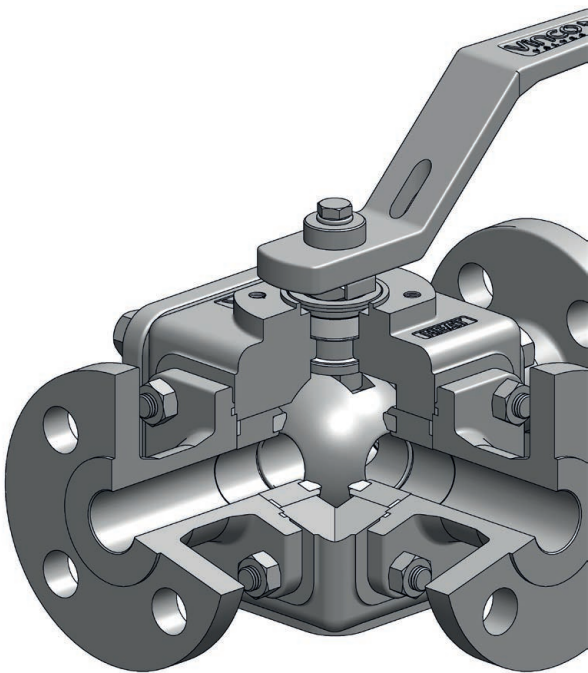
DIN PN 40*

Full Bore: DN 15 - 50

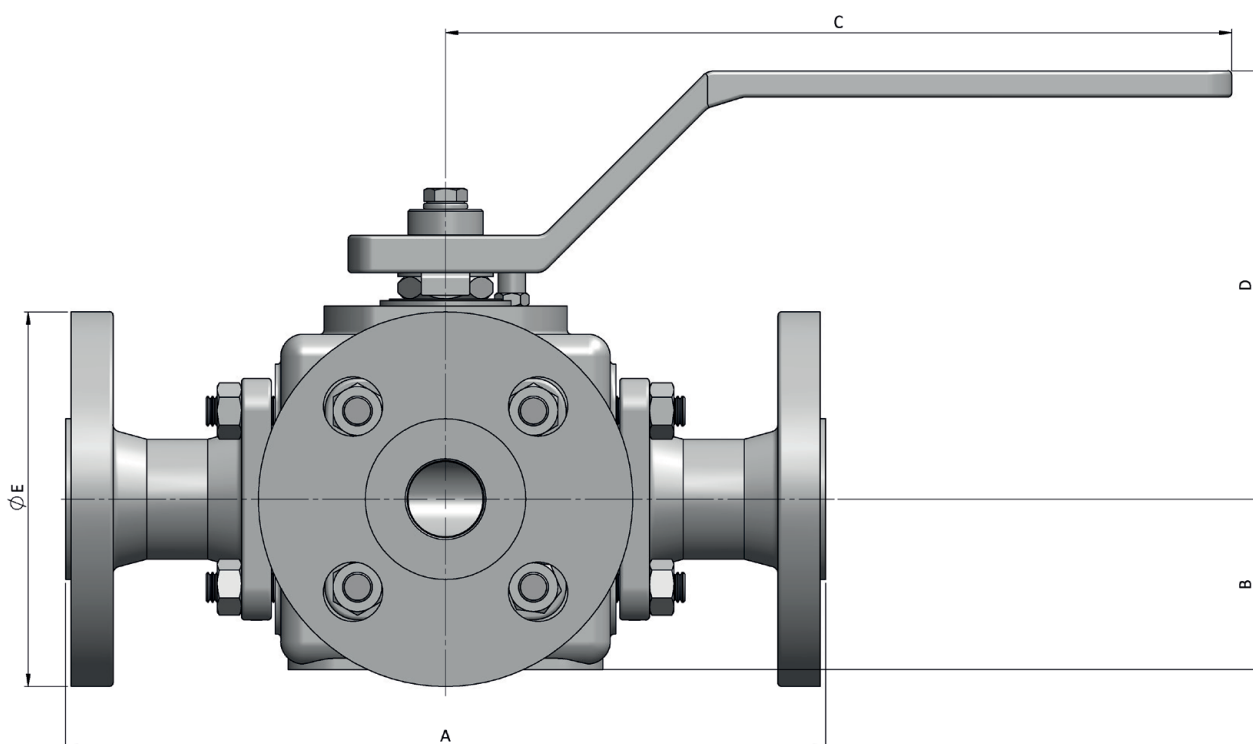
*The working pressure is limited to 20 bar to ensure a good tightness performance since the design of this kind of valve is to direct the fluid through different ports, which reduces the tightness capabilities of the valve.

DESIGN TEMPERATURE

-50°C to 200°C
-58°F to 392°F



PART		STANDARD STAINLESS STEEL
Body		1.4409
Ends		1.4408
TRIM	Ball	A351 CF3M
	Stem	A479 316/L
Seats		TFM1600
Packing & Seals		TFM1600 & PTFE
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

QFP Series

Multiport Floating
Investment Cast

The QFP Series is a versatile multiport ball valve developed for technical room installations and general utility service within industrial and regulated environments. It offers durability, structural integrity and dependable performance in applications where flexibility of flow routing is required.

Applications

Designed for reliable on-off and diversion service, it performs consistently across a range of media including gases, water, condensate and fine chemicals.

Features

- Multiport | L/T/X Port | Soft seated
- Low emission packing
- ISO 5211 top works for automation
- Anti-blowout stem design
- Self relieving seats | Pressure equalizing hole

Optional Features

- Stem Extension in A351 CF8M
- Degreased for oxygen

ASME CL 150 to 600*

Full Bore: ½" - 2"

Reduced Bore**: ¾" - 2"

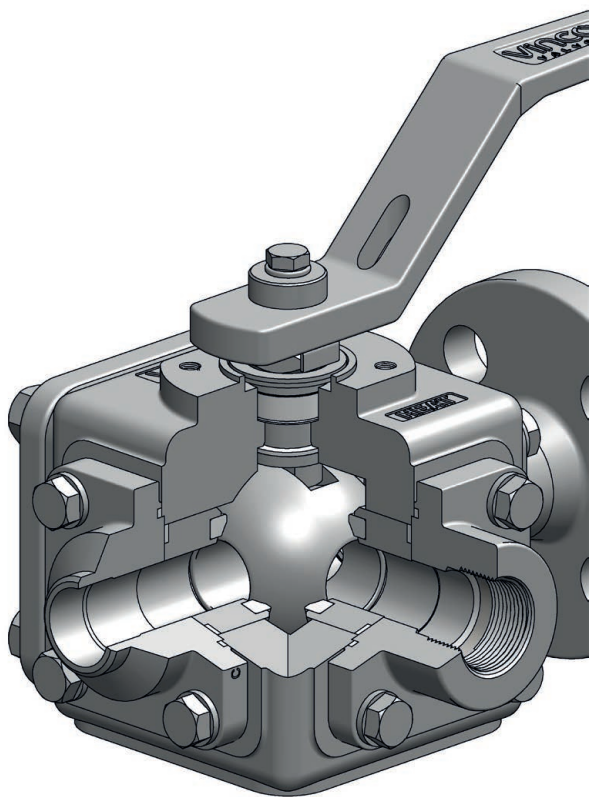
**Only available in TBS ends

*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.

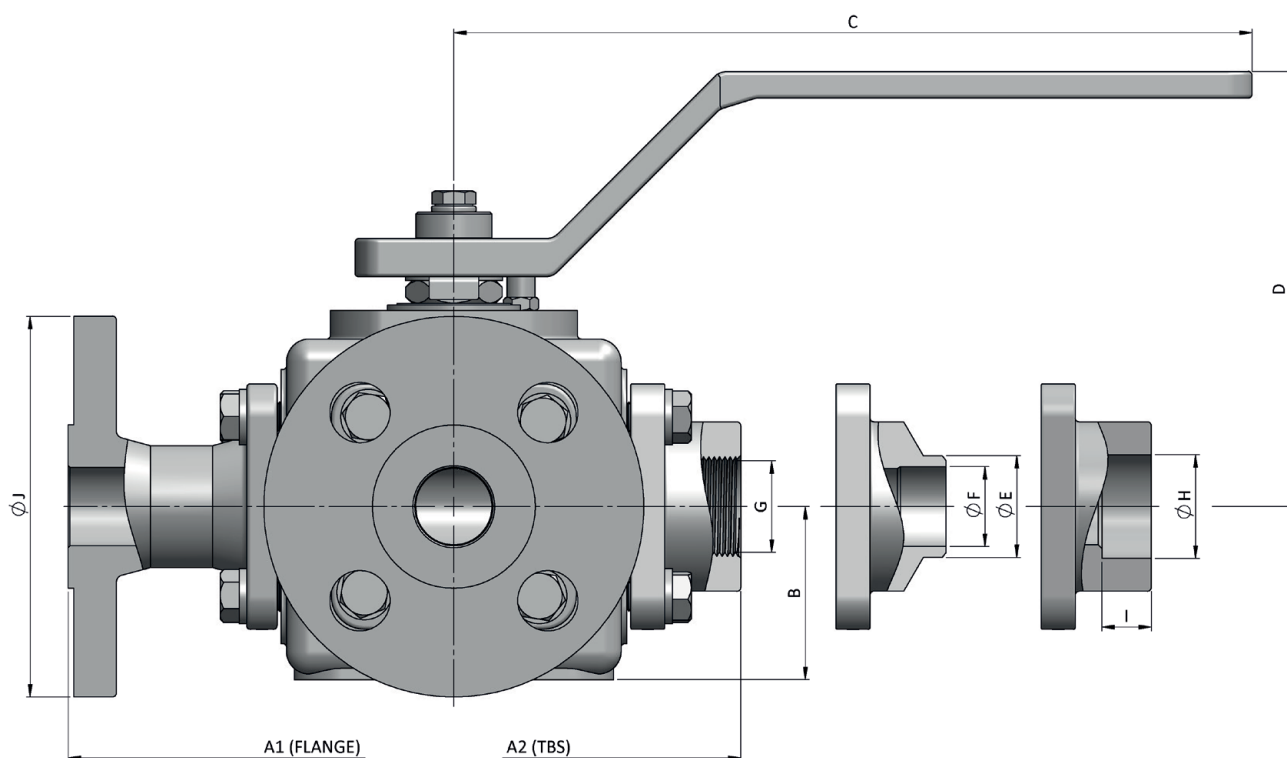
DESIGN TEMPERATURE

-50°C to 200°C

-58°F to 392°F



PART		STANDARD STAINLESS STEEL
ENDS	Body	A351 CF3M
	TBS	A351 CF3M
TRIM	FLG RF	A351 CF8M
	Ball	A351 CF3M
	Stem	A479 316/L
	Seats	TFM1600
	Packing & Seals	TFM1600 & PTFE
	Bolting	A193 Gr. B8M cl.2



mm in

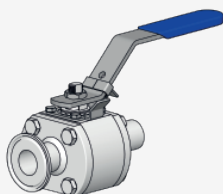
DN	CLASS psi	BORE	A1	A2	B	C	D	E	F	G	H	I	J	ISO 5211	kg lbs		
															A1	A2	
½"	150 300 - 600* 1500*	15.8 0.62	175 6.89	115 4.53	35 1.38	180 7.09	95 3.74	NPT / BSPT SW BW & BW Nipple						90 3.54	F04	5.5 12.13	3.5 7.72
¾"		22.1 0.87	205 8.07	145 5.71	45 1.77	210 8.27	115 4.53							100 3.94	F05	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

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

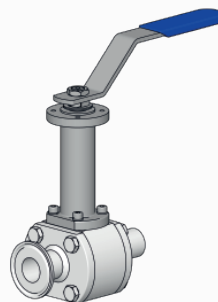
MANUAL OPERATION

LOCKABLE HANDLE



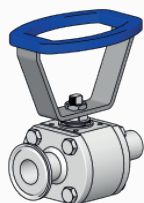
The lockable handle is a safety device that prevents the unintended rotation of the obturator due to vibrations, turbulent flows or unauthorized actions leading to potentially severe malfunctions in the process. This occurrence can be prevented by the application of a lockable mechanism that prevents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

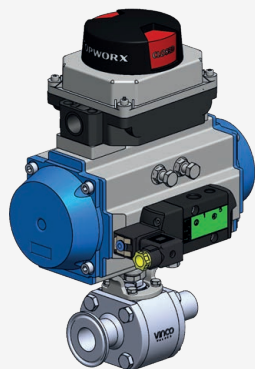
GEARBOX



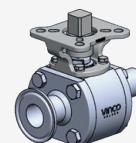
The quarter-turn gear operators with handwheel are rugged constructed, industrial grade manufactured with cast iron housing components. They are used for a smooth and easy operation, available in a variety of sizes and options. Includes valve-position indicator as well as a self-locking system.

AUTOMATIC OPERATION

COMPLETE AUTOMATION



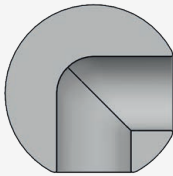
Automation of the processes is a growing and necessary investment to reduce manual interventions, operation costs and to improve performance. Our valves can be equipped with numerous controllers such as, actuators, positioners, solenoids or switchboxes.



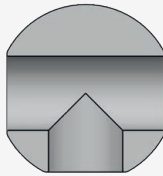
BALL CONFIGURATIONS

MULTI-PORT

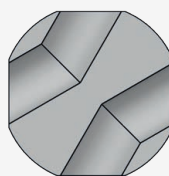
L PORT



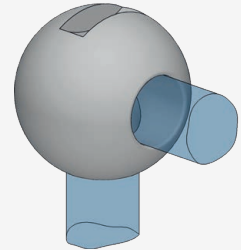
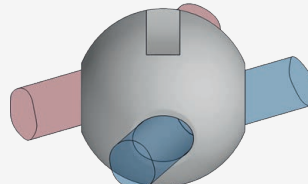
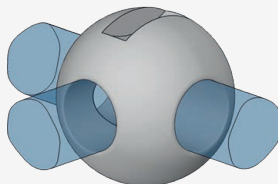
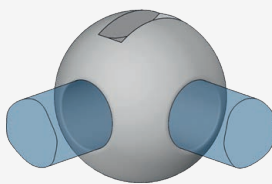
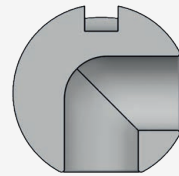
T PORT



X PORT



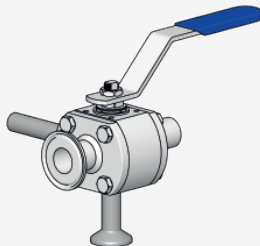
VERTICAL L PORT



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

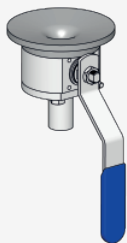
- Simpler piping systems;
- Space optimization;
- Reduction of the number of process valves required.

CIP/SIP PURGE PORT



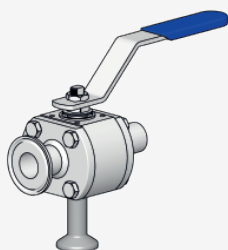
Sterilization (CIP/SIP) of valves is typically performed to meet quality requirements in high purity processes. Valves used for this application can be equipped with additional connections, enabling the cleaning of all internal surfaces without removal from the installation. This allows more systematic preventive maintenance with minimal downtime, leading to significant cost savings.

APPLICATIONS



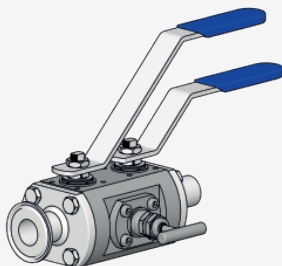
TANK BOTTOM

Pressure vessels are used in several processes and need, time to time, to be drained or cleaned. The best solution for this kind of operation is the application of a tank bottom valve, also called as flush bottom valve, which can be easily installed at the bottom of the vessels and allows a fast drainage of the tank.



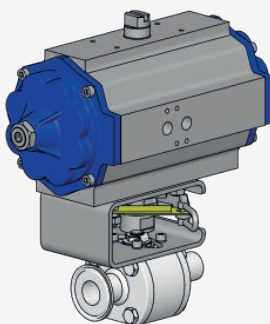
STEAM TRAP

Steam is used in processes as a heating or mechanical inducer due to its high latent energy capacity. As the steam delivers its energy to the process, it condensates losing the ability to transfer energy as efficiently as in the steam condition. At this point it is important to drain the condensates to maximize the performance of the line. The installation of steam trap valves may be the solution as they will permit to drain the condensates without releasing the steam, reducing the cost of the process.



DOUBLE BLOCK AND BLEED

Some processes require repetitive sampling for analysis to guarantee high quality levels of the process products. The best way to achieve this is the installation of DBB valves. This kind of valves consist of two ball valves used to trap the fluid and a middle valve used to extract the sample. With this kind of valves, usually applied as a forked section, it is possible to trap and remove a sample from the system without stopping the process. This valve type is also frequently used for instrumentation protection.



FIRE FAIL SAFE

Flammable gases and chemicals are often used in processes across several industries. To prevent the widespread of a fire event in these facilities, a fire fail safe valve may be used as a safety device, which will trigger an automatic emergency shutoff. The fire fail safe valve is designed to be activated at the set temperature of the system by the fusible link breakage. This breakage will lead to the line shutoff.



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