

A100/A101/A102/A103/A106 Series
handle 3-piece ball valve

Aisenberg®

Aisenberg®

Specification

DESIGN

3-piece full bore design

OPERATION

Rotation of the handle through 90°

CONNECTION

G/NPT female thread, Socket weld 1/4"-4"
DIN259, DIN2999, ISO228
DIN2463, ISO1127, ANSI B36.19 Butt weld 1/4"-4"

NOMINAL PRESSURE

1000PSI/2000PSI/PN63

The above information is for reference only and
Aisenberg reserves the right to alter without prior
notice.

TEMPERATURE RANGE

PTFE: -30°C - +120°C

R-PTFE: -30°C - +150°C

PEEK: -30°C - +200°C

TFM4215: -45°C - +220°C

MATERIALS

Body: WCB
CF8
CF8M

Ball: 304
316

Seat: PTFE/R-PTFE/PEEK/TFM4215

Packing: PTFE/R-PTFE/PEEK/TFM4215

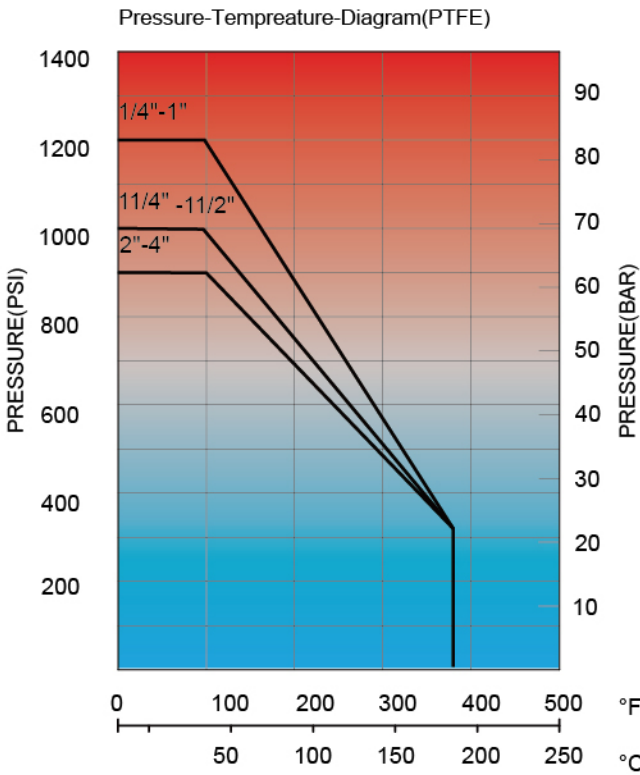
Handle: SS



Type:
A100 Series
Threaded/Welded Handle
3-piece ball valve
Full bore
1000PSI
2000PSI
PN63

WCB
CF8
CF8M

Pressure - Temperature-Diagram



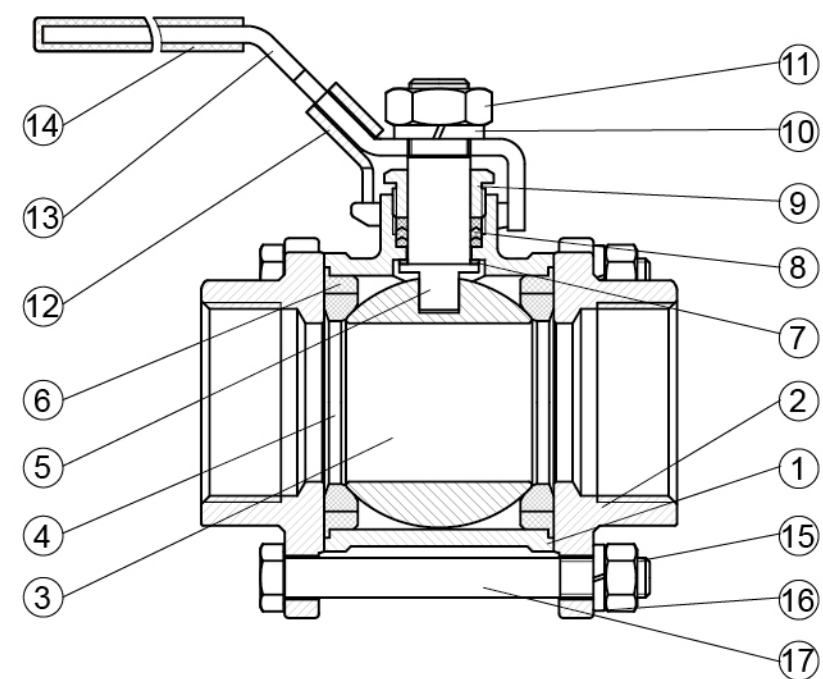
Model code

A	B	C	D	E	F	G	H	I	J
A100	B	D	6	6	P	P	J	B	15

A. Product	B. Control	C. Type of actuator	D. Body
A100=3PC Ball Valve (threaded/welded) A101=3PC 30°V- Ball Valve (threaded/welded) A102=3PC 45°V- Ball Valve (threaded/welded) A103=3PC 60°V- Ball Valve (threaded/welded) A106=3PC 15°V- Ball Valve (threaded/welded)	A=Manual B=Pneumatic Piston Actuator P=Basic Electric Actuator 0=NONE	L=Lever W=Handwheel U=ISO5211 Lever D=Double Acting S=Single Acting FC P=Single Acting FO E=220VAC Electric Actuator(ON/OFF) F=24VDC Electric Actuator(ON/OFF) M=380VAC Electric Actuator(ON/OFF) G=220VAC Electric Actuator(Control) H=24VDC Electric Actuator(Control) J=380VAC Electric Actuator(Control) K=220VAC Explosion Proof Electric Actuator(ON/OFF) N=24VDC Explosion Proof Electric Actuator(ON/OFF) Q=380VAC Explosion Proof Electric Actuator(ON/OFF) R=220VAC Explosion Proof Electric Actuator(Control) T=24VDC Explosion Proof Electric Actuator(Control) V=380VAC Explosion Proof Electric Actuator(Control) 0=NONE	2=WCB 4=CF8 6=CF8M 8=CF3M

E. Trim	F. Seal	G. Packing	H. Pressure	I. Connection	J. Valve size
4=304SS 6=316SS 8=F316L	K=PEEK P=PTFE R=RPTFE T=TFM	H=Graphite K=PEEK P=PTFE R=RPTFE	J=1000PSI K=2000PSI R=PN63	B=BUT WELDING G=G THREAD N=NPT THREAD S=SCOKET WELDING	11=1/4" DN8 12=3/8" DN10 13=1/2" DN15 14=3/4" DN20 15=1" DN25 16=1 1/4"DN32 17=1 1/2"DN40 18=2" DN50 19=2 1/2" DN65 20=3" DN80 21=4" DN100

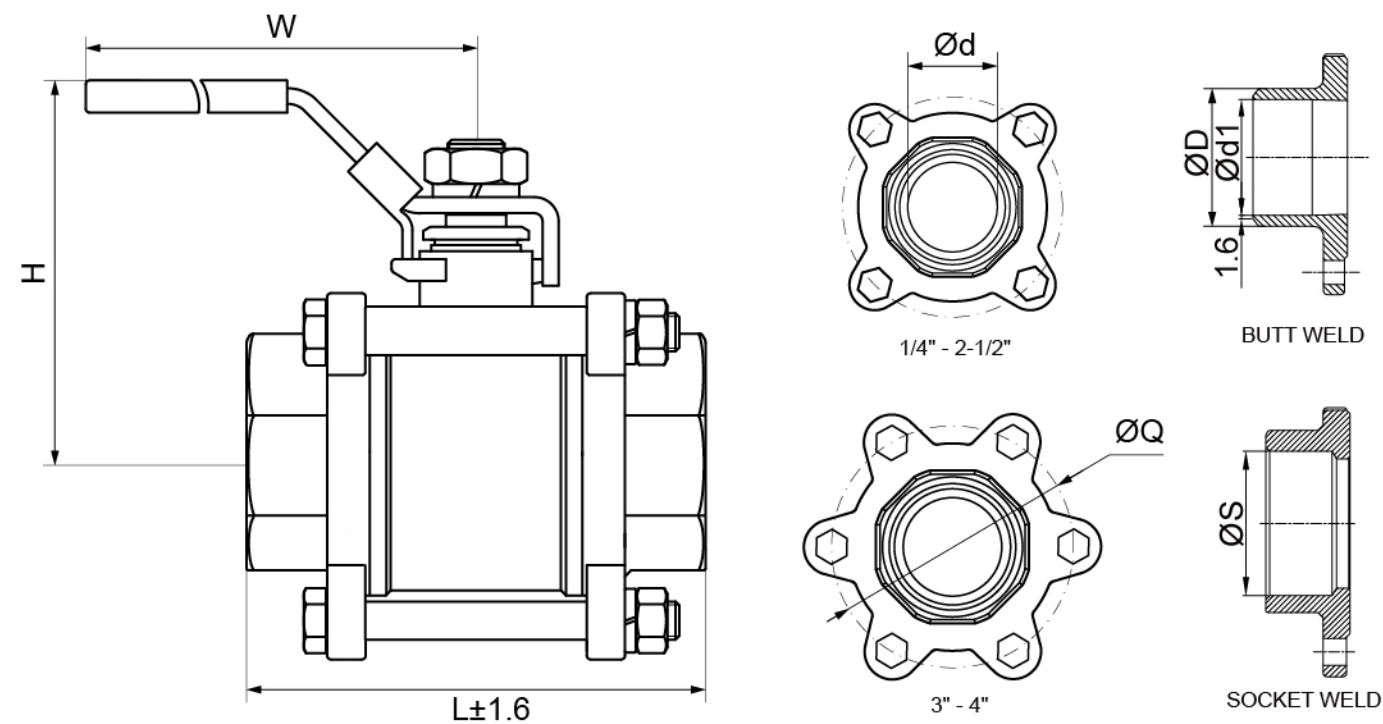
Parts list



No.	Description	Material
1	Body	WCB
		CF8
		CF8M
2	Cap	WCB
		CF8
		CF8M
3	Ball	304
		316
4	Seat	PTFE
		S-PTFE
		R-PTFE
5	Stem	316
6	Gasket	PTFE
		S-PTFE
		PEEK
7	Thrust Washer	PTFE
		S-PTFE
		PEEK
8	Packing	PTFE
		S-PTFE
		PEEK
9	Gland	CF8
10	Spring Washer	304
11	Stem Nut	304
12	Locking Device	304
13	Handle	SS
14	Plastic Cover	Plastic
15	Joint Nut	304
16	Spring Washer	304
17	Joint Bolt	304

Dimension

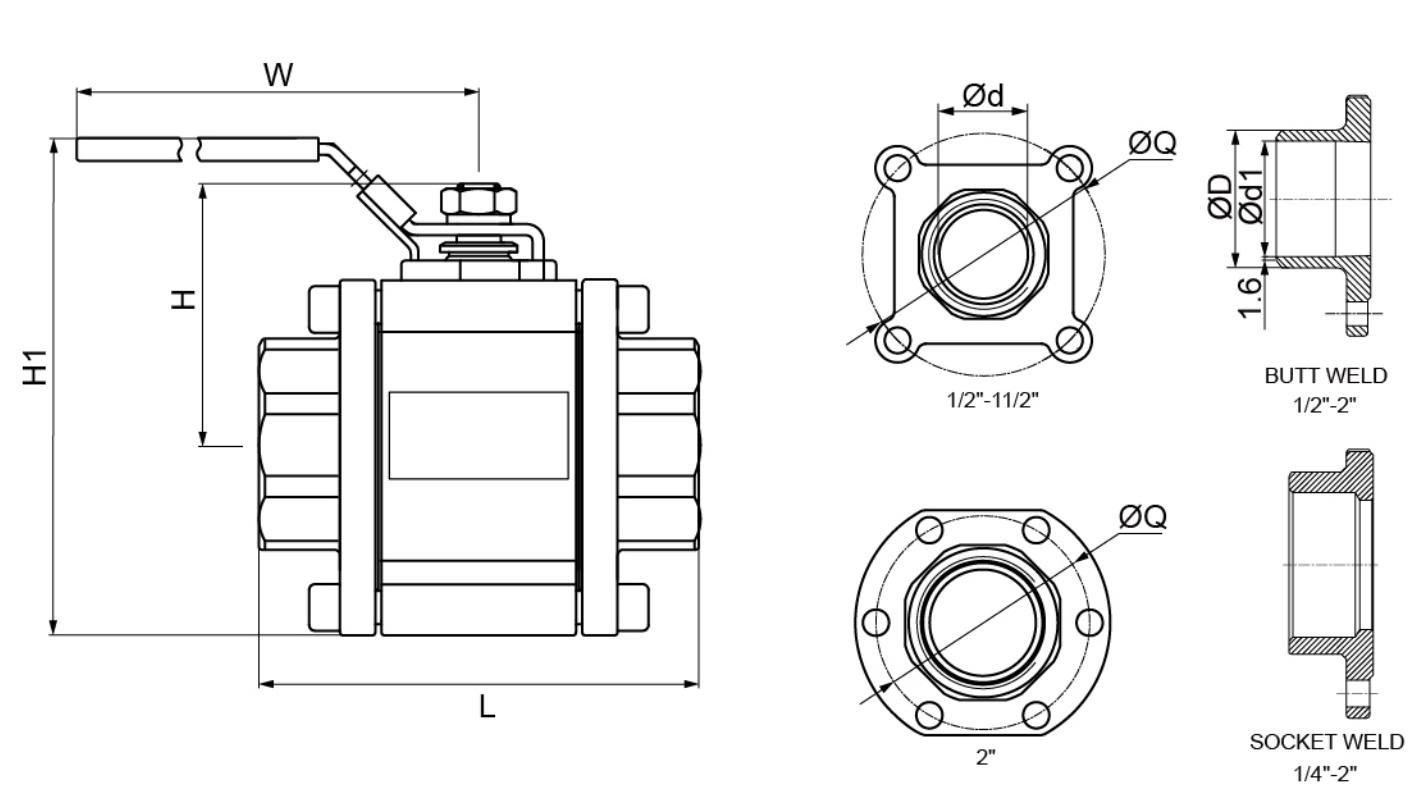
1000PSI: Socket weld/Thread/Butt weld



SIZE	DN	Ød	ØD	Ød1	ØS	L		H	W		ØQ
						SOCKET/Thread	BUTT WELD		SOCKET/Thread	BUTT WELD	
1/4"	8	11.6	17.2	10	14.1	/	/	56	123	102	40.5
3/8"	10	12.7	17.2	12.5	17.6	/	/	56	123	102	40.5
1/2"	15	15	21.3	16	21.7	63	75	65	123	123	47
3/4"	20	20	26.7	20	27.1	73	80	67	123	123	53.5
1"	25	25	33.6	25	33.8	85	90	79	153	153	59.6
1 1/4"	32	32	42.4	33.8	42.6	96	110	84	153	153	74.2
1 1/2"	40	38	48	39.5	48.7	114	120	92	183	183	84
2"	50	50	60.5	50.8	61.1	134	140	99	183	183	101
2 1/2"	65	65	76.1	62.7	76.9	180	185	136	246	246	132
3"	80	80	88.9	77.9	89.8	200	205	146	246	246	161.5
4"	100	100	114.2	100	115.5	228	240	168	395	350	191

Dimension

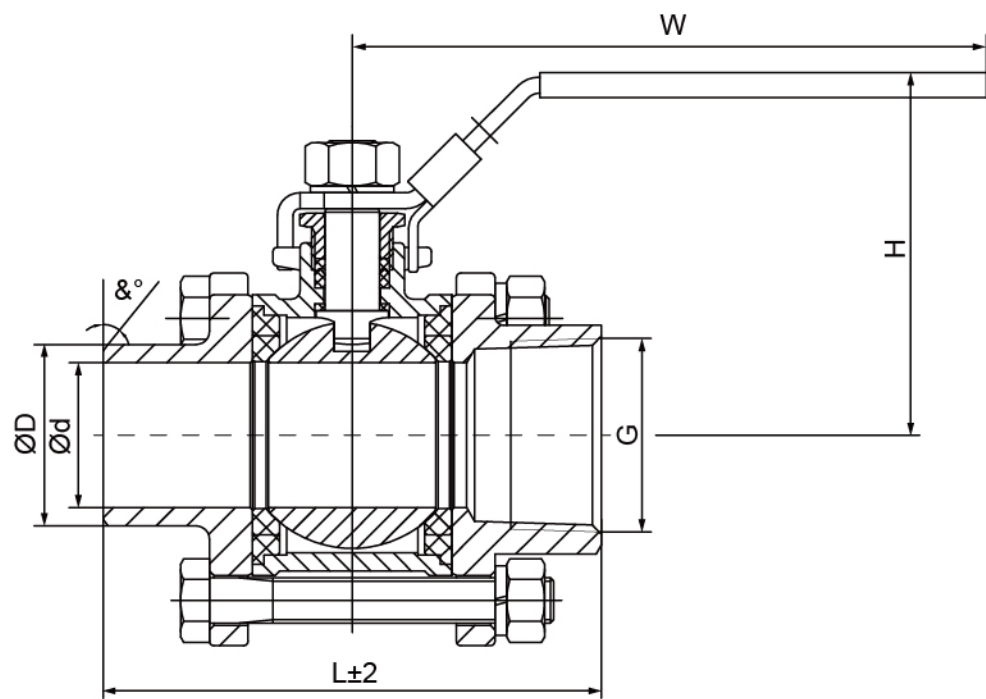
2000PSI
Socket weld/Thread/Butt weld



SIZE	DN	Ød	ØD	Ød1	L	H1	H	W
						SOCKET/Thread	BUTT WELD	
1/4"	8	11.6	-	-	66	90.1	-	102
3/8"	10	12.7	-	-	66	90.1	50.3	102
1/2"	15	15	21.3	16	72	97.4	50.3	123
3/4"	20	20	26.9	20	94.5	104.8	55	123
1"	25	25	33.7	25	107	120.7	67.5	153
1 1/4"	32	32	42.4	33.8	116	130.1	74	153
1 1/2"	40	38	48.3	39.5	127	143.9	80	183
2"	50	50	60.3	50.8	141	177.5	98.5	183

Dimension

PN63
Socket weld/Thread/Butt weld



SIZE	DN	d	D	L	H	W	G	°
1/4"	8	10.3	14	63	52	110	1/4"	37.5°
3/8"	10	12	17.5	63	52	110	3/8"	37.5°
1/2"	15	15	21.7	63	52	110	1/2"	37.5°
3/4"	20	20	27.2	73	63	120	3/4"	37.5°
1"	25	25	34	85	67	130	1"	37.5°
1 1/4"	32	32	42.7	96	80	140	1 1/4"	37.5°
1 1/2"	40	38	48.6	114	93	175	1 1/2"	37.5°
2"	50	49	60.5	134	110	175	2"	37.5°
2 1/2"	65	65	76.3	180	117	220	2 1/2"	37.5°
3"	80	76	88.9	200	134	270	3"	37.5°
4"	100	100	116	228	157	310	4"	37.5°

A100/A101/A102/A103/A106 Series
ISO5211 3-piece ball valve

Aisenberg®

Specification

DESIGN

3-piece full bore design

OPERATION

Rotation of the handle through 90°

CONNECTION

G/NPT female thread, Socket weld 1/4"-4"
DIN259, DIN2999, ISO228
DIN2463, ISO1127, ANSI B36.19 Butt weld 1/4"-4"

NOMINAL PRESSURE

1000PSI/2000PSI/PN63

TEMPERATURE RANGE

PTFE: -30°C - +120°C
R-PTFE: -30°C - +150°C
PEEK: -30°C - +200°C
TFM4215: -45°C - +220°C

MATERIALS

Body: WCB
CF8
CF8M

Ball: 304
316

Seat: PTFE/R-PTFE/PEEK/TFM4215

Packing: PTFE/R-PTFE/PEEK/TFM4215

Handle: SS

OPTIONS

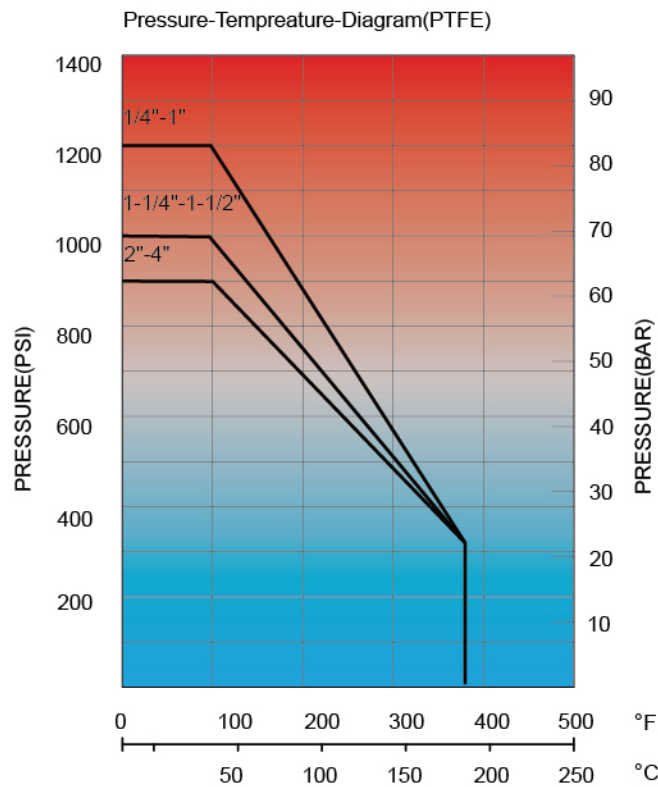
Electrical position indicator
Handle
Handwheel device

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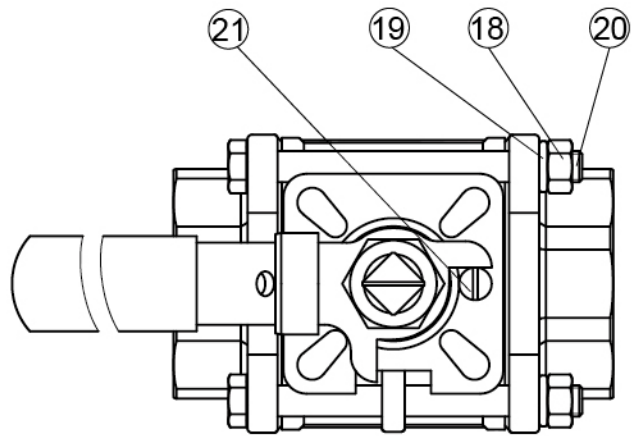
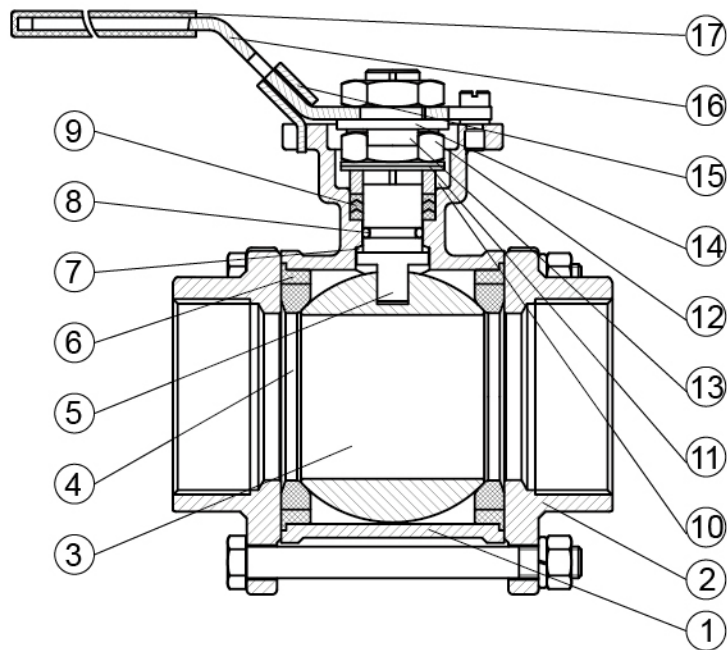


Type:
A100 series
ISO5211 three piece ball
valve
Full bore
1000PSI/2000PSI
PN63
WCB
CF8
CF8M

Pressure-Temperature-Diagram



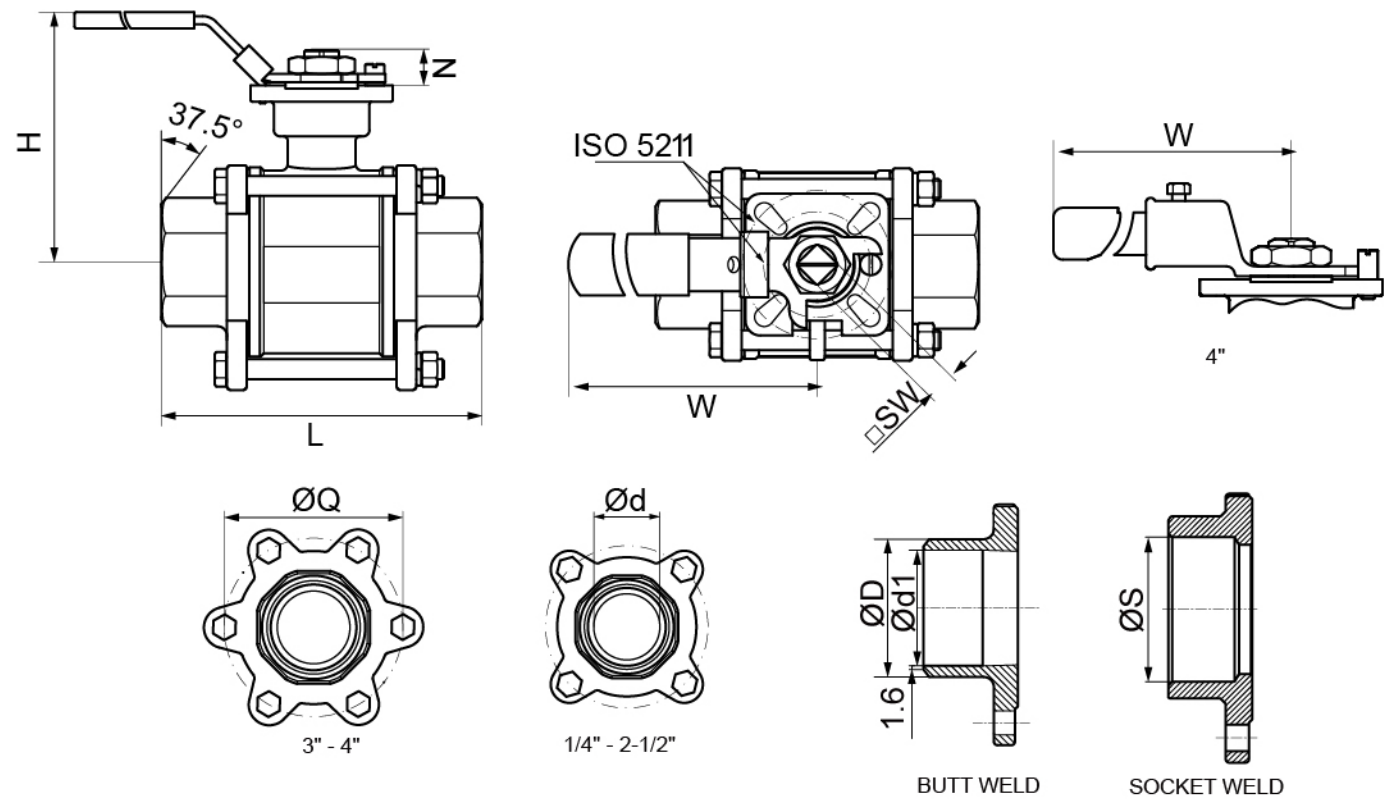
Parts list



No.	Description	Material
1	Body	WCB
		CF8
		CF8M
2	Cap	WCB
		CF8
		CF8M
3	Ball	304
		316
4	Seat	PTFE
		S-PTFE
5	Stem	R-PTFE
		304
6	Gasket	PTFE
		S-PTFE
7	Thrust Washer	PEEK
		R-PTFE
8	O-Ring	VITON
		PTFE
9	Packing	S-PTFE
		PEEK
		304
10	Gland	304
11	Spring Washer	304
12	Stem Nut	304
13	Stop Washer	304
14	Handle Washer	304
15	Locking Device	304
16	Handle	SS
17	Plastic Cover	Plastic
18	Hex Nut	304
19	Bolt Washer	304
20	Joint Bolt	304
21	Stop Pin	304

Dimension

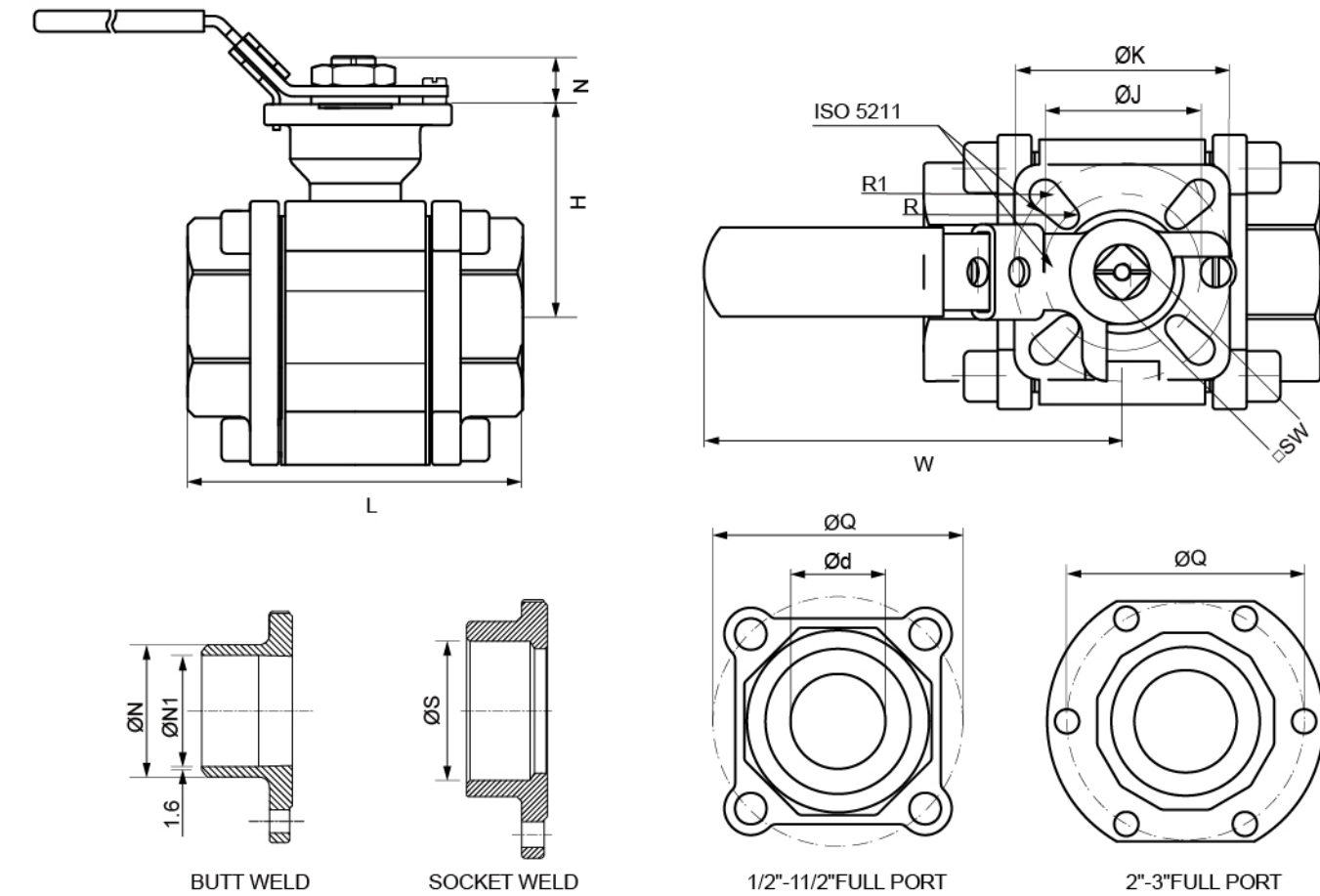
1000PSI:Socket weld/Thread/Butt weld



SIZE	DN	Ød	L		H	W	ISO5211	N	□SW	ØQ	ØD	Ød1	ØS
			Socket/Thread±2	Butt Weld±1.6									
1/4"	8	11.6	/	/	74	123	F03-F04	9	9	52	17.2	10	14.1
3/8"	10	12.7	/	/	74	123	F03-F04	9	9	52	17.2	12.5	17.6
1/2"	15	15	75	75	74	123	F03-F04	9	9	52	21.3	16	21.7
3/4"	20	20	80	80	78	123	F03-F04	9	9	54.5	26.7	20	27.1
1"	25	25	90	90	89	153	F04-F05	11	11	63.5	33.6	25	33.8
1 1/4"	32	32	110	110	94	153	F04-F05	11	11	74.2	42.4	33.8	42.6
1 1/2"	40	38	120	120	110	183	F05-F07	14	14	84	48	39.5	48.7
2"	50	50	140	140	118	183	F05-F07	14	14	101	60.5	50.8	61.1
2 1/2"	65	65	185	185	161	246	F07-F10	17	17	132	76.1	62.7	76.9
3"	80	80	205	205	170	246	F07-F10	17	17	161.5	88.9	77.9	89.8
4"	100	100	240	240	202	395	F10-F12	22	22	191	114.2	100	115.5

Dimension

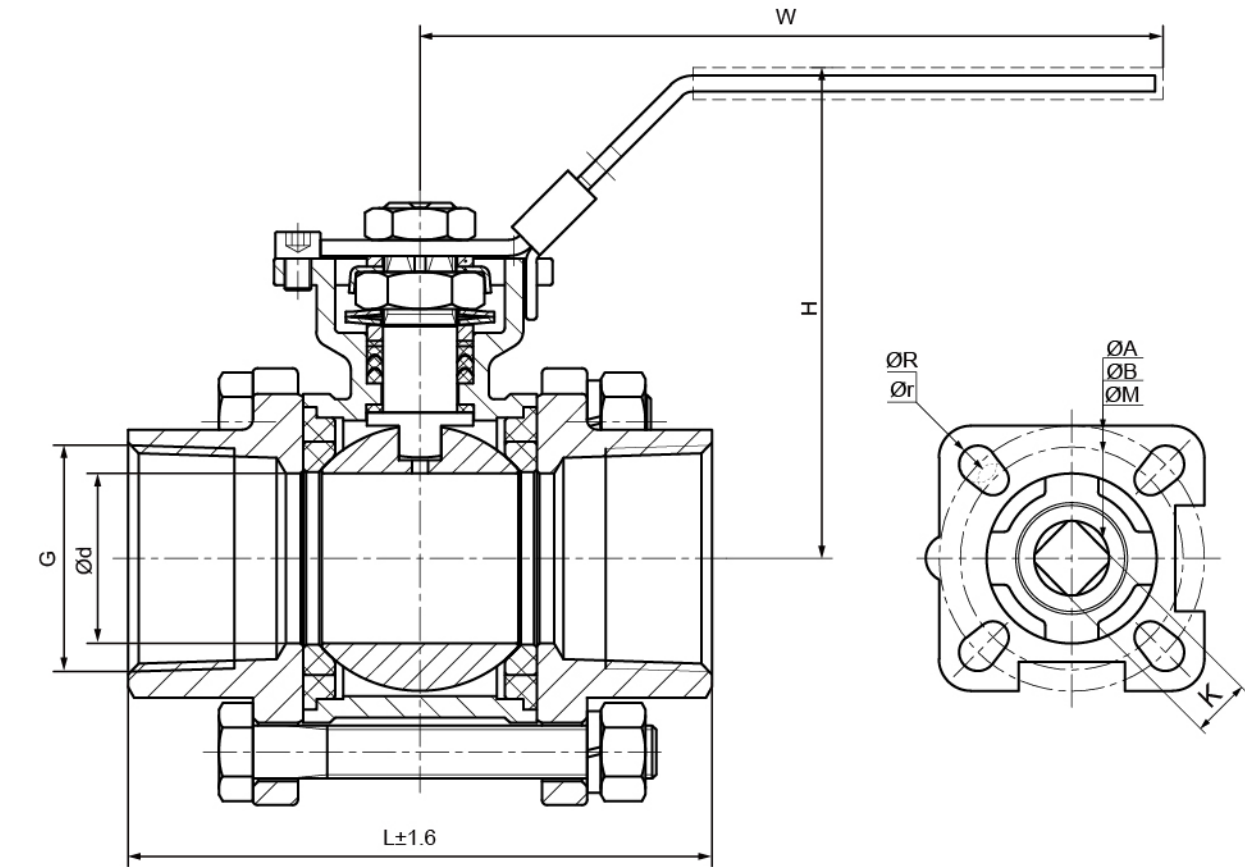
2000PSI:Socket weld/Thread/Butt weld



SIZE	DN	Ød	L	H	W	ISO5211	ØJ	ØK	N	□SW	R	R1	ØN	ØN1	ØS	ØQ
1/2"	15	15	71.6	41	123	F03-F04	36	42	9	9	3	3	21.7	16.8	21.7	54
3/4"	20	20	96.6	44	123	F03-F04	36	42	9	9	3	3	27.2	22	27.7	62
1"	25	25	109	59	153	F04-F05	42	50	11	11	3	3.5	34	27.6	33.8	71
1-1/4"	32	32	117	63	153	F04-F05	42	50	11	11	3	3.5	42	36.1	42.6	80.5
1-1/2"	40	38	129	82	183	F05-F07	50	70	14	14	3.75	4.5	48.6	41.9	48.7	93.5
2"	50	50.8	142	90	183	F05-F07	50	70	14	14	3.75	4.5	60.5	54.4	61.1	114
2-1/2"	65	65	174	118.5	246	F07-F10	70	102	17	17	5	6	76.1	70.9	76.9	140
3"	80	76	193	129	246	F07-F10	70	102	17	17	5	6	90	81.1	89.8	175.5

Dimension

PN63:Socket weld/Thread/Butt weld



SIZE	DN	d	G	L	H	W	ØA	ØB	ØM	ØR	Ør	K
1/4"	8	10	1/4"	63	74	110	42	36	M12	3	3	9
3/8"	10	12	3/8"	63	74	110	42	36	M12	3	3	9
1/2"	15	15	1/2"	63	77	110	42	36	M12	3	3	9
3/4"	20	20	3/4"	73	81.5	120	42	36	M12	3	3	9
1"	25	25	1"	85	90	140	50	42	M14	3.5	3	11
1 1/4"	32	32	1 1/4"	96	94.5	140	50	42	M14	3.5	3	11
1 1/2"	40	38	1 1/2"	114	104	190	70	50	M18	4.5	3.5	14
2"	50	49	2"	134	112	190	70	50	M18	4.5	3.5	14
2 1/2"	65	64	2 1/2"	180	120	230	70	50	M18	4.5	3.5	14
3"	80	76	3"	200	132	260	102	70	M22	5.5	4.5	17
4"	100	100	4"	228	160	300	102	70	M22	5.5	4.5	17

A100/A101/A102/A103/A106 Series
Pneumatic 3-piece ball valve

Aisenberg®

Specification

DESIGN

3-piece full bore design

OPERATION

Pneumatic double-acting or single-acting

CONNECTION

G/NPT female thread,Socket weld 1/4"-4"
DIN259,DIN2999,ISO228
DIN2463, ISO1127,ANSI B36.19 Butt weld 1/4"-4"

NOMINAL PRESSURE

1000PSI/2000PSI/PN63

PILOT PRESSURE

2 - 8 bar
(Lower pilot pressure on request)

TEMPERATURE RANGE

PTFE: -30°C - +120°C
R-PTFE: -30°C - +150°C
PEEK: -30°C - +200°C
TFM4215: -45°C - +220°C

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MATERIALS

Body: WCB
CF8
CF8M

Ball: 304
316

Seat: PTFE/R-PTFE/PEEK/TFM4215

Packing: PTFE/R-PTFE/PEEK/TFM4215

ACTUATOR

Body: Aluminum alloy, Others on request
Cap: Polyurethane coating

EXTERNAL TEMPERATURE RANGE

-20°C - +80°C

PILOT MEDIA

Filtered gases (oil, ash and water removal)

OPTIONS

3/2-ways or 5/2-ways valve,limit switch,
positioner,filter reducer,manual clutch

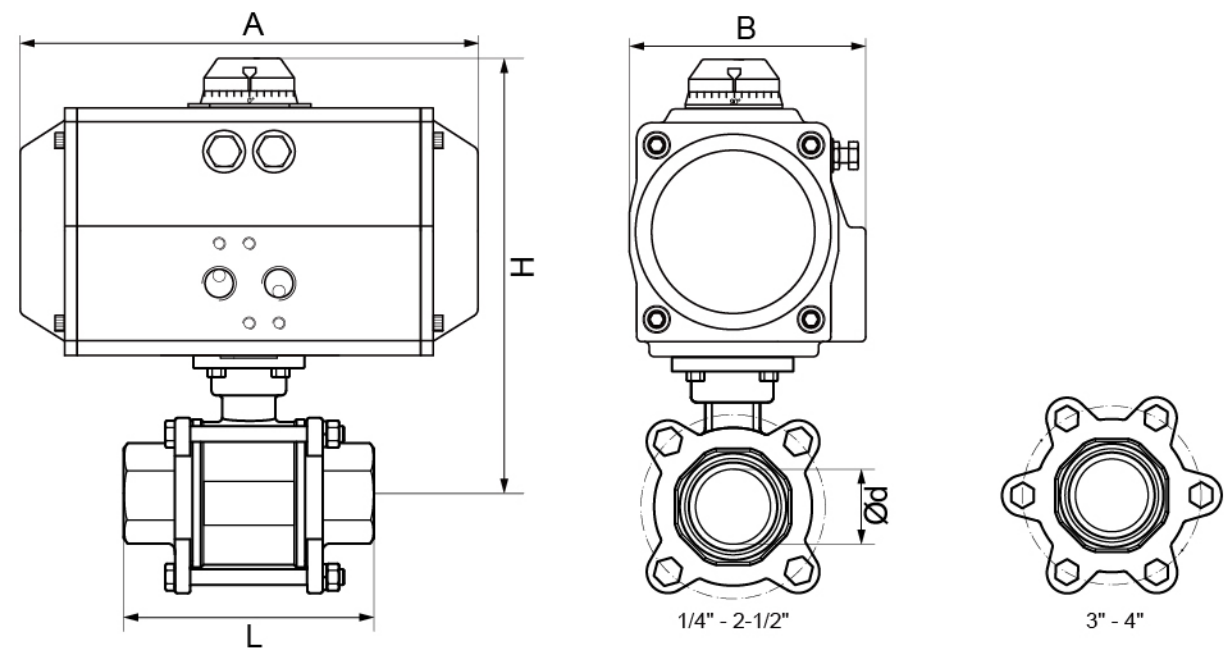


Type:
A100
Pneumatic 3-Piece ball
valve
Full bore
1000PSI/2000PSI
PN63

WCB
CF8
CF8M

Dimension

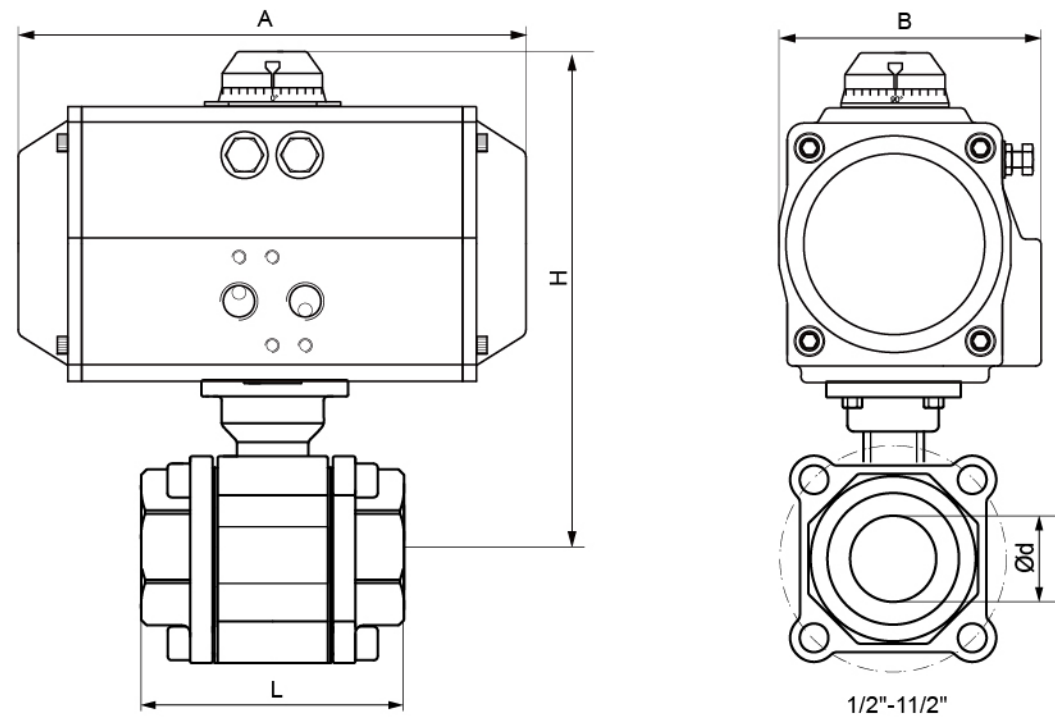
1000PSI:Socket weld/Thread/Butt weld



SIZE	DN	Ød	Actuator Model	A	B	H	L	
							Socket/Thread	Butt
1/4"	8	11.6	DAØ52	147	72	176	63	70
			SRØ52	147	72	176		
3/8"	10	12.7	DAØ52	147	72	176	63	70
			SRØ52	147	72	176		
1/2"	15	15	DAØ52	147	72	176	63	75
			SRØ63	172	83	192		
3/4"	20	20	DAØ52	147	72	180	73	90
			SRØ63	172	83	196		
1"	25	25	DAØ63	172	83	207	85	100
			SRØ75	184	95	219		
1-1/4"	32	32	DAØ75	184	95	224	96	110
			SRØ83	204	103	233		
1-1/2"	40	40	DAØ75	184	95	240	114	125
			SRØ92	262	109	257		
2"	50	50	DAØ83	204	103	257	134	150
			SRØ92	262	109	265		
2-1/2"	65	65	DAØ92	262	109	308	180	190
			SRØ105	268	121	324		
3"	80	80	DAØ105	268	121	333	200	220
			SRØ125	301	143	355		
4"	100	100	DAØ125	301	143	387	228	270
			SRØ140	394	152	405		

Dimension

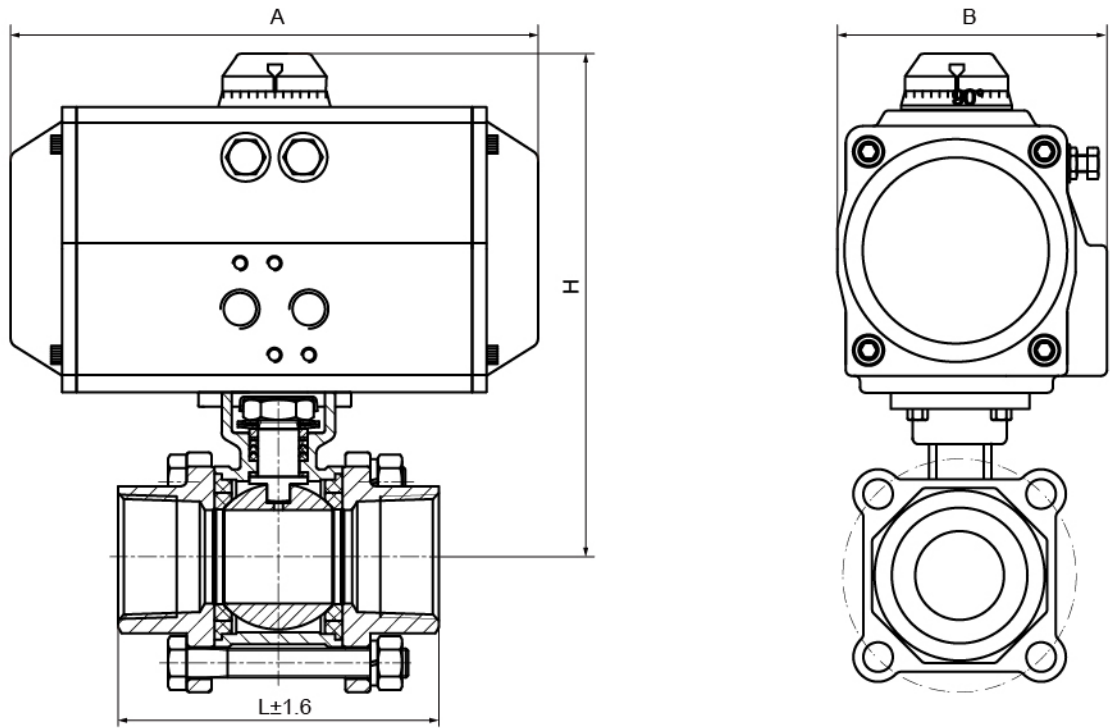
2000PSI:Socket weld/Thread/Butt weld



DN	Ød	Actuator Model	A	B	H	L
15	15	DA52	147	72	143	71.6
		SR63	172	83	159	
20	20	SR52	147	72	146	96.6
		Ø63	172	83	162	
25	25	SR63	172	83	177	109
		Ø75	184	95	189	
32	32	SR75	184	95	193	117
		Ø83	204	103	202	
40	40	SR83	204	103	221	129
		Ø92	262	109	229	
50	50	SR92	262	109	237	142
		Ø105	268	121	253	
65	65	SR105	268	121	282	174
		Ø125	310	143	304	
80	80	SR125	310	143	314	193
		Ø140	394	152	332	

Dimension

PN63:Socket weld/Thread/Butt weld



SIZE	DN	Ød	Actuator Model	A	B	H	L
1/4"	8	10	DA52	147	72	102	63
			SR52	147	72	102	
3/8"	10	12	DA52	147	72	102	63
			SR52	147	72	102	
1/2"	15	15	DA52	147	72	102	63
			SR63	172	83	118	
3/4"	20	20	DA52	147	72	102	73
			SR63	172	83	118	
1"	25	25	DA63	172	83	118	85
			SR75	184	95	130	
1 1/4"	32	32	DA75	184	95	130	96
			SR83	204	103	139	
1 1/2"	40	38	DA75	184	95	130	114
			SR92	262	109	147	
2"	50	49	DA83	204	103	139	134
			SR92	262	109	147	
2 1/2"	65	64	DA92	262	109	147	180
			SR105	268	121	163	
3"	80	76	DA105	268	121	163	200
			SR125	301	143	185	
4"	100	100	DA125	301	143	185	228
			SR140	394	152	203	

A100/A101/A102/A103/A106 Series
Electric 3-piece ball valve

Aisenberg®

Specification

DESIGN

3-piece full bore design

OPERATION

Electric and Handle operation

CONNECTION

G/NPT female thread,Socket weld 1/4"-4"
DIN259,DIN2999,ISO228
DIN2463, ISO1127,ANSI B36.19 Butt weld 1/4"-4"

NOMINAL PRESSURE

1000PSI/2000PSI/PN63

TEMPERATURE RANGE

PTFE: -30°C - +120°C
R-PTFE: -30°C - +150°C
PEEK: -30°C - +200°C
TFM4215: -45°C - +220°C

MATERIALS

Body: WCB
CF8
CF8M

Ball: 304
316

Seat: PTFE/S-PTFE/R-PTFE

Packing: PTFE/S-PTFE/R-PTFE

OPTIONAL VOLTAGE

24V DC,24V AC,110V AC
220V AC,380V AC

PROTECTION

IP 67

STANDARD EQUIPMENT

Additional limit switches, optical position indicator,
manual override,

OPTIONS

Dehumidification heater
Overtorque protection
Modulate type 4-20mA

Exd IIBT4

For more requests please contact us

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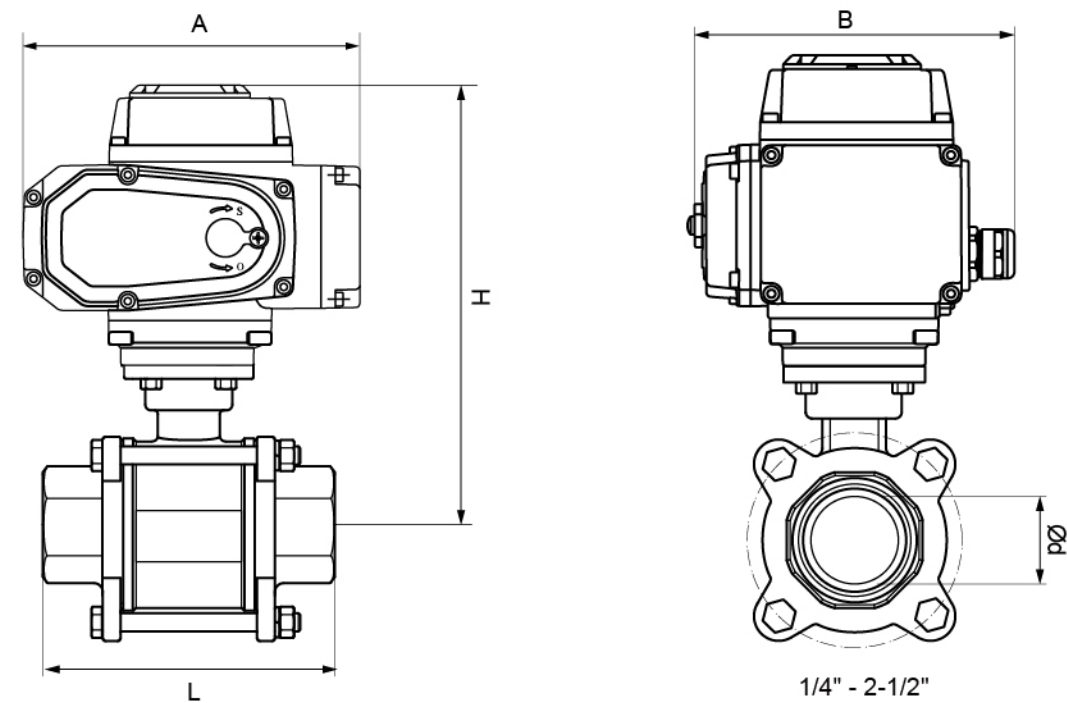


Type:
A100/A101/A102/
A103/A106
Electric 3-piece ball valve
Full bore
1000PSI/2000PSI
PN63

WCB
CF8
CF8M

Dimension

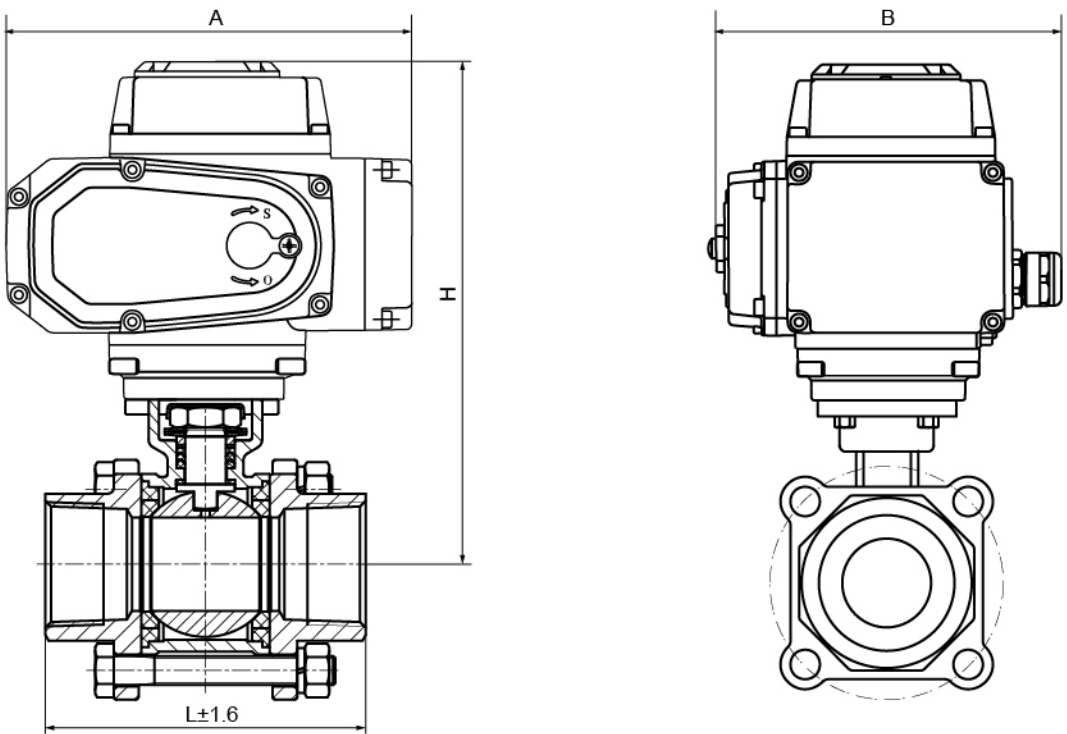
1000PSI//2000PSI
Socket weld/Thread/Butt weld



SIZE	DN	Ød	Actuator Model	A	B	H	Socket/Thread	Butt
							L	
1/4"	8	11.6	HB50	165.0	140.5	212	63	70
			HBX50	170.5	121	224		
3/8"	10	12.7	HB50	165.0	140.5	212	63	70
			HBX50	170.5	121	224		
1/2"	15	15	HB50	165.0	140.5	212	63	75
			HBX50	170.5	121	224		
3/4"	20	20	HB50	165.0	140.5	216	73	90
			HBX50	170.5	121	228		
1"	25	25	HB50	165.0	140.5	227	85	100
			HBX50	170.5	121	239		
1-1/4"	32	32	HB50	165.0	140.5	232	96	110
			HBX50	170.5	121	244		
1-1/2"	40	40	HB50	165.0	140.5	248	114	125
			HBX50	170.5	121	260		
2"	50	50	HB100	211.5	154	287	134	150
			HBX100	217.5	139	300		
2-1/2"	65	65	HB100	211.5	154	330	180	190
			HBX100	217.5	139	343		
3"	80	80	HB200	259.0	186	373	200	220
			HBX200	217.5	139	352		
4"	100	100	HB200	259.0	186	405	228	270
			HBX200	217.5	139	384		

Dimension

PN63
Socket weld/Thread/Butt weld



SIZE	DN	Ød	Actuator Model	A	B	H	L
1/4"	8	10	HB50	165.0	140.5	137.5	63
			HBX50	170.5	121	150	
3/8"	10	12	HB50	165.0	140.5	137.5	63
			HBX50	170.5	121	150	
1/2"	15	15	HB50	165.0	140.5	137.5	63
			HBX50	170.5	121	150	
3/4"	20	20	HB50	165.0	140.5	137.5	73
			HBX50	170.5	121	150	
1"	25	25	HB50	165.0	140.5	137.5	85
			HBX50	170.5	121	150	
1 1/4"	32	32	HB50	165.0	140.5	137.5	96
			HBX50	170.5	121	150	
1 1/2"	40	38	HB50	165.0	140.5	137.5	114
			HBX50	170.5	121	150	
2"	50	49	HB100	211.5	154	168.5	134
			HBX100	217.5	139	182	
2 1/2"	65	64	HB100	211.5	154	168.5	180
			HBX100	217.5	139	182	
3"	80	76	HB200	259.0	186	203	200
			HBX200	217.5	139	182	
4"	100	100	HB200	259.0	186	203	228
			HBX200	217.5	139	182	