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DIRECTING THE FLOW OF *Quality*

VALVES OVERVIEW



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STAINLESS STEEL VALVES

"K" Series



One Piece 150# Bracket Mount Flanged End Ball Valve

- Size Range: 1/2" - 4"
- Pressure Rating: 150#
- CF8M Material
- Design Features: Mounting Pad; TFM1600 Ball Seat
- Port: Reduced
- End Type: Flanged



One Piece Ball Valve

- Size Range: 1/4" - 2"
- Pressure Rating: 1000 WOG
- CF8M Material
- Design Features: Blow-Out Proof Stem
- Port: Double Reduced
- End Type: Threaded



Two Piece 150# & 300# Direct Mount Flanged End Ball Valve

- Size Range: 1/2" - 6"
- Pressure Rating: 150# & 300#
- CF8M Material
- Design Features: Mounting Pad; TFM1600 Ball Seat
- Port: Full
- End Type: Flanged



Two Piece 150# Bracket Mount Flanged End Ball Valve

- Size Range: 1-1/2" - 6"
- Pressure Rating: 150#
- CF8M Material
- Design Features: Mounting Pad; TFM1600 Ball Seat
- Port: Full
- End Type: Flanged



Two Piece Ball Valve

- Size Range: 1/4" - 3"
- Pressure Rating: 1000 WOG
- CF8M Material
- Design Features: Blow-Out Proof Stem
- Port: Full
- End Type: Threaded



Three Piece Ball Valve

- Size Range: 1/4" - 3"
- Pressure Rating: 1000 WOG
- CF8M Material
- Design Features: Blow-Out Proof Stem
- Port: Full
- End Type: Threaded & Socket Weld

STAINLESS STEEL VALVES

"V" Series



One Piece Ball Valve

- Size Range: 1/4" - 2"
- Pressure Rating: 800 WOG
- CF8M Material
- Design Features: Blow-Out Proof Stem
- Port: Reduced
- End Type: Threaded



Two Piece Ball Valve

- Size Range: 1/4" - 2"
- Pressure Rating: 2000/1500 WOG
- CF8M Material
- Design Features: Blow-Out Proof Stem
- End Type: Threaded



Two Piece Ball Valve

- Size Range: 1/4" - 3"
- Pressure Rating: 1000 WOG
- CF8M Material
- Design Features: Blow-Out Proof Stem
- Port: Full
- End Type: Threaded



Three Piece Ball Valve

- Size Range: 1/4" - 3"
- Pressure Rating: 1000 WOG
- CF8M Material
- Design Feature: Blow-Out Proof Stem
- Port: Full
- End Type: Threaded & Socket Weld



Class 200 Swing Check Valve

- Size Range: 1/4" - 3"
- 200 PSI Working Pressure at 350°F
- CF8M Material
- End Type: Threaded



Class 200 Swing Check Wye Pattern Valve

- Size Range: 1/4" - 3"
- 200 PSI Working Pressure at 350°F
- CF8M Material
- End Type: Threaded



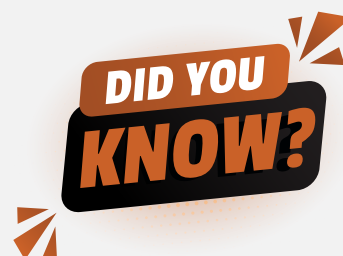
Class 200 Gate Valve

- Size Range: 1/2" - 2"
- 200 PSI Working Pressure at 350°F
- CF8M Material
- Design Feature: Screwed Bonnet & Non-Rising Stem
- Port: Full
- End Type: Threaded



Class 600 Y-Strainer

- Size Range: 1/4" - 3"
- 600 PSI Working Pressure at 350°F
- CF8M Material
- End Type: Threaded



Merit Offers Repair Kits

- 2PC Handle & Seat
- 3 PC Handle, Seat & Ball

ENGINEERED SOLUTIONS

Additional Valves



StainlessPress®
Authorized by Merit Brass Co.

StainlessPress® Ball Valves

- 1/2" – 2" IPS (Iron Pipe Size)
- 5-Year Limited Warranty
- Lead-free (NSF/ANSI/CAN61 & CAN372)
- Full port quarter turn valve with latch lock handle
- VIPR® (Visual Indicator Press Ring®)
- Maximum Working Pressure: 300 PSI
- Temperature Range:
 - » EPDM: -4°F to 230°F (-20°C to 110°C)
 - » HNBR: -13°F to 248°F (-25°C to 120°C)
- Certified to IAPMO/ANSI/CAN Z1157



CopperPress®
Authorized by Merit Brass Co.

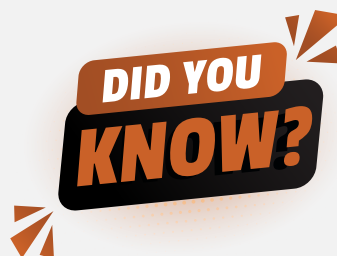
CopperPress® Ball Valves

- 1/4" – 2" CTS (Copper Tube Size)
- Lead-free (NSF/ANSI/CAN61 & CAN372) construction cast C89836 Bronze Body with copper retainers
- VIPR® (Visual Indicator Press Ring®)
- Maximum Working Pressure: 300 PSI
- Temperature Range 0°F to 250°F
- Copper Ends – protect against dezincification and stress corrosion cracking
- 5-Year Limited warranty
- Certified to IAPMO/ANSI/CAN Z1157



Brass Ball Valves

- 1/4" – 4" Leaded & Lead-free (NSF61/ANSI 372 Approved)
- 2PC Full Port with blow-out proof stem
- Locking device handle with PTFE Seats
- 600 PSI Non-shock WOG, 125 PIS SWP Rating
- MSS SP-110, Up to 2" CSA Gas Approved (IPS Only)
- 2-1/2" – 4" UL/FM Approved



**Merit Offers Leaded
& Lead-Free Handle
Repair kits**

STAINLESS STEEL VALVES

Stainless Steel ASME Class 150 – 1-PC Body, Flanged End Ball Valve, Reduced Port, "K Series"
KFV1015RP



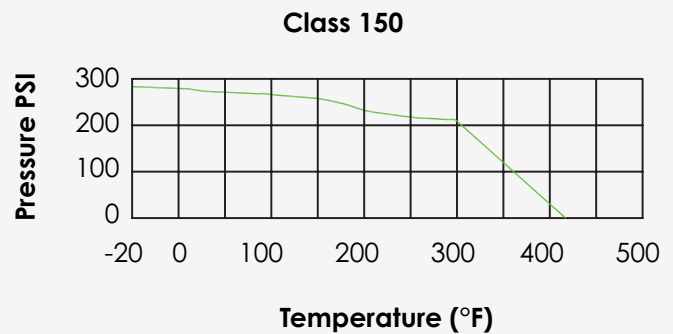
Design Features

- Seat Material: TFM1600
- Built-in ISO 5211 Mounting Pad for Easy Automation
- Anti-static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Casting Boss on Body for Draining
- Options: 1. Actuator 2. Limit Switch 3. Positioner

Applicable Standards

- Design: ASME B16.34, API 608
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection & Testing: API 598, API 6D

Size	Cv	Weight (Lbs)	Port	300 psig
1/2"	9	2.91	0.39	44
3/4"	26	4.85	0.49	53
1"	42	5.29	0.69	72
1-1/4"	72	7.28	0.98	116
1-1/2"	120	10.1	1.26	152
2"	190	14.7	1.50	220
2-1/2"	320	23.2	1.97	320
3"	420	32.0	2.37	487
4"	600	49.6	3.00	795
6"	1100	93.7	3.94	1380



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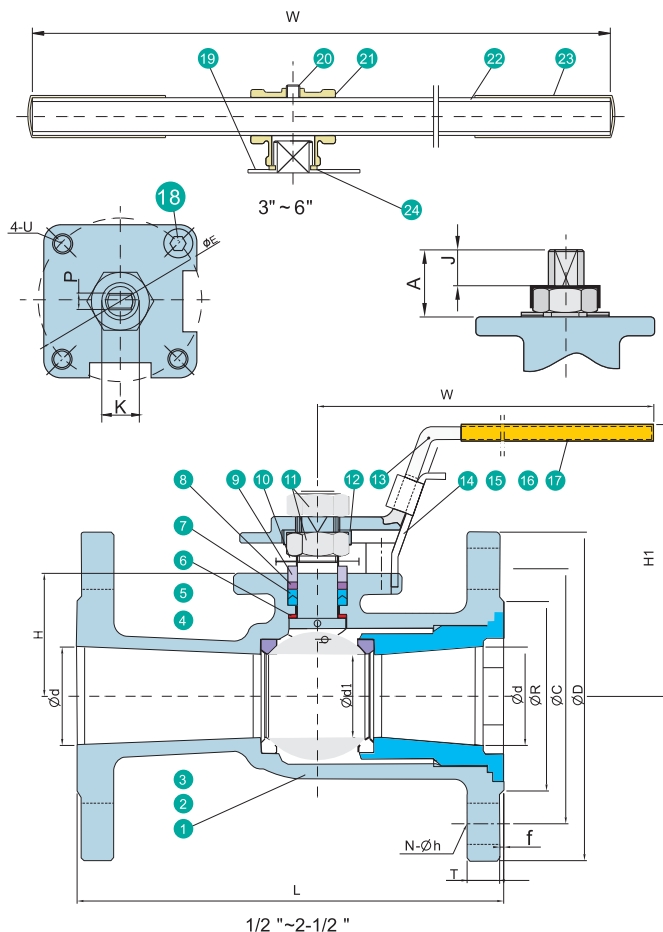
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STAINLESS STEEL VALVES

Stainless Steel ASME Class 150 – 1-PC Body, Flanged End Ball Valve, Reduced Port, "K" Series

KFV1015RP



NO.	Part Name	Materials		
1	Body	CF8M	CF8	WCB
2	Ball	CF8M	CF8	
3	Ball Seat	TFM1600/PTFE/RTFE		
4	Stem	316	304	
5	Anti-Static	316	304	
6	Thrust Washer	TFM1600/PTFE/RTFE		
7	Stem Packing	PTFE		
8	Bushing	50% SS + 50% PTFE/304*		
9	Gland	316		
10	Belleville Washer	301		
11	Screw Nut	A194 - 8		
12	Stop-Lock-Cap	304		
13	Lever (1/2"~2-1/2")	CF8		
14	Lock Device (1/2"~2-1/2")	304		
15	Body Gasket	PTFE		
16	End Cap	CF8M	CF8	WCB
17	Lever Sleeve (1/2"~2-1/2")	Vinyl Plastic		
18	Stop Bolt	A193-B8		
19	Triangle Stopper (3"~6")	304		
20	Set Screw (3"~6")	A193-B8		
21	Handle Adapter (3"~6")	CF8		
22	Handle (3"~6")	A53 + Zn Plated		
23	Handle Sleeve (3"~6")	Vinyl Plastic		
24	Snap Ring (3"~6")	304		

Unit: Inch

Size	d	d1	L	R	D	C	f	T	H	H1	N	h	W	P	A	J	U	E	K
1/2"	0.49	0.39	4.25	1.38	3.50	2.37	0.08	0.31	0.91	2.91	4	5/8	5.31	0.25	0.83	0.37	M5	1.65	3/8-24 UNF
3/4"	0.75	0.49	4.61	1.69	3.88	2.75	0.08	0.34	0.91	2.91	4	5/8	5.31	0.25	0.83	0.37	M5	1.65	3/8-24 UNF
1"	0.98	0.69	5.00	2.01	4.25	3.13	0.08	0.38	1.32	3.44	4	5/8	6.69	0.35	0.85	0.40	M6	1.97	9/16-18 UNF
1-1/4"	1.26	0.98	5.50	2.50	4.62	3.50	0.08	0.44	1.63	3.76	4	5/8	6.69	0.35	0.85	0.40	M6	1.97	9/16-18 UNF
1-1/2"	1.50	1.26	6.50	2.88	5.00	3.87	0.08	0.50	1.87	4.13	4	5/8	7.87	0.38	1.26	0.59	M8	2.76	5/8-18 UNF
2"	1.97	1.50	7.00	3.62	6.00	4.75	0.08	0.56	2.22	4.49	4	3/4	7.87	0.38	1.26	0.59	M8	2.76	5/8-18 UNF
2-1/2"	2.44	1.97	7.50	4.12	7.00	5.50	0.08	0.62	2.62	5.22	4	3/4	11.81	0.63	1.67	0.73	M10	4.02	7/8-14 UNF
3"	2.99	2.37	8.00	5.00	7.50	6.00	0.08	0.69	2.97	5.59	4	3/4	11.81	0.63	1.67	0.73	M10	4.02	7/8-14 UNF
4"	3.86	3.00	9.00	6.19	9.00	7.50	0.08	0.88	3.78	7.68	8	3/4	15.75	0.71	2.17	0.98	M10	4.02	11/8-12 UNF
6"	5.91	3.94	10.5	8.50	11.00	9.50	0.08	0.94	5.24	9.49	8	7/8	15.75	0.71	2.44	1.18	M10	4.02	13/8-12 UNF

STAINLESS STEEL VALVES

Stainless Steel ASME Class 150 2-PC Body, Direct Mount Flanged End Ball Valve, Full Port
KFDMV2015FP



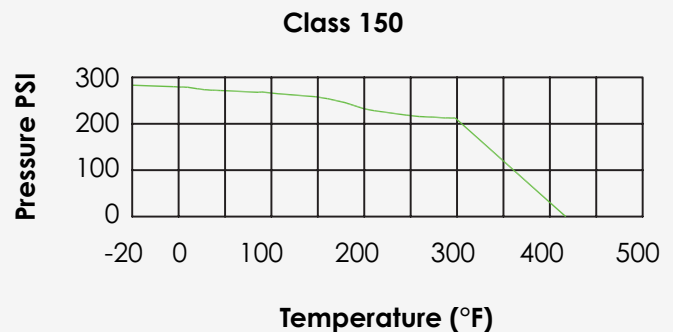
Design Features

- Built-in ISO 5211 Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Casting Boss on Body for Draining
- Options: 1. Actuator 2. Limit Switch 3. Positioner

Applicable Standards

- Design: ASME B16.34, API 608
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection & Testing: API 598, API 6D

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/2"	18	3.21	0.59	44
3/4"	36	4.97	0.79	53
1"	48	6.56	0.98	89
1-1/4"	72	7.57	1.26	115
1-1/2"	120	12.83	1.50	168
2"	190	18.59	1.97	252
2-1/2"	450	31.83	2.52	398
3"	600	38.94	2.99	637
4"	1100	67.47	3.93	974
6"	2600	161.07	5.90	2708
8"	4200	276.96	7.87	3806



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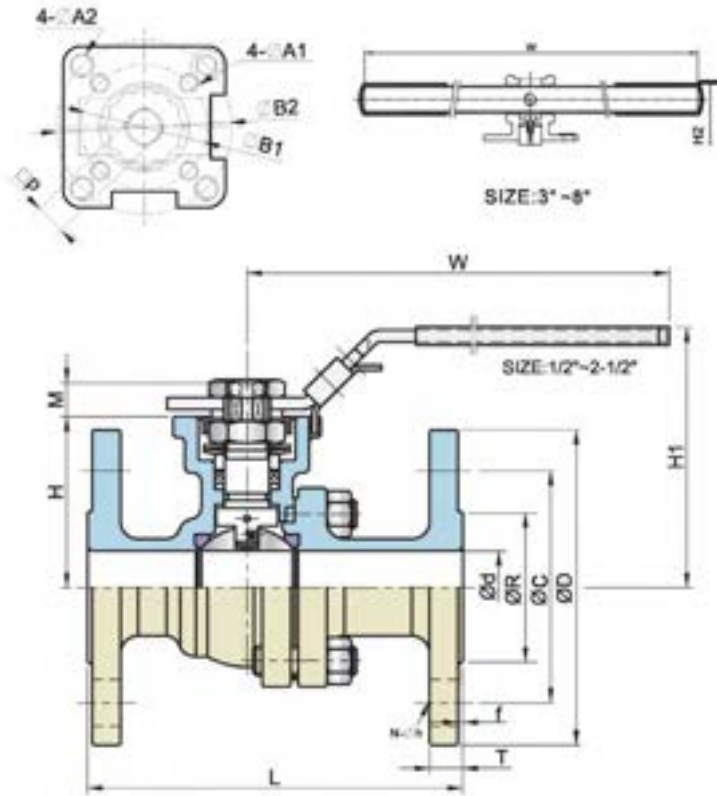
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STAINLESS STEEL VALVES

Stainless Steel ASME Class 150 2-PC Body, Direct Mount Flanged End Ball Valve, Full Port

KFDMV2015FP



Size	ISO 5211	P-Actuator	E-Actuator	Pressure
1/2"	F03-F04	KP50	KQ006	80PSI
3/4"	F03-F05	KP50	KQ006	80PSI
1"	F04-F05	KP63	KQ006	80PSI
1-1/4"	F04-F07	KP63	KQ006	80PSI
1-1/2"	F05-F07	KP75	KQ008	80PSI
2"	F05-F07	KP75	KQ008	80PSI
2-1/2"	F07-F10	KP88	KQ015	80PSI
3"	F07-F10	KP100	KQ015	80PSI
4"	F10	KP125	KQ020	80PSI
5"	F12	KP160	KQ030	80PSI
6"	F12	KP160	KQ030	80PSI
8"	F12	KP200	KQ050	80PSI

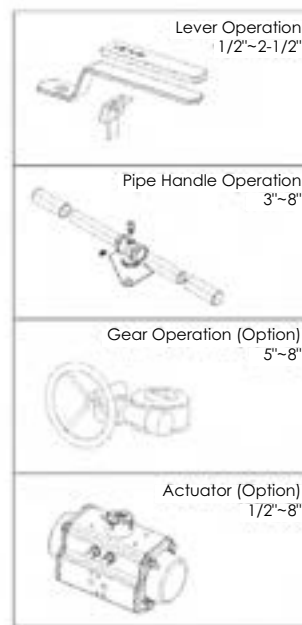
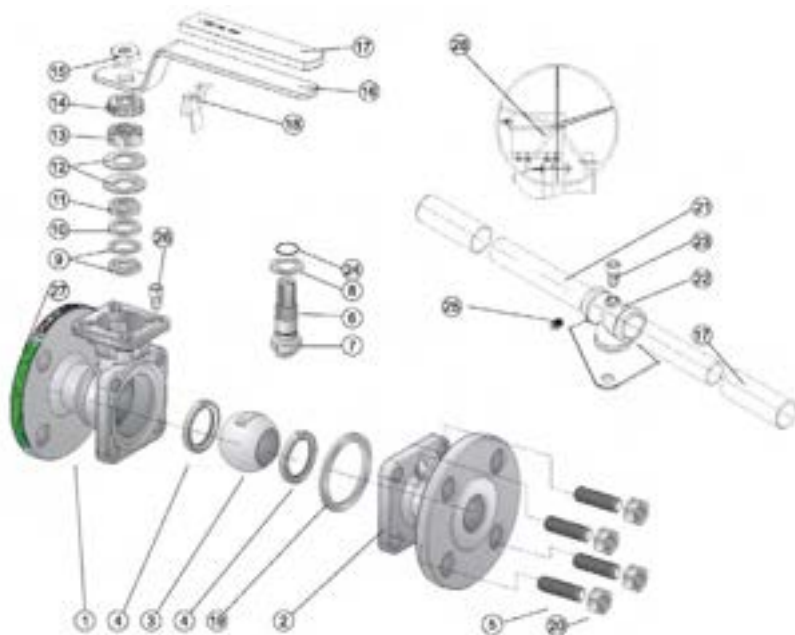
Unit: Inch

Size	Ød	L	ØR	ØD	ØC	T	f	N	Øh	H	H1	H2	W	M	P	A1	A2	B1	B2	X	Y
1/2"	0.59	4.25	1.38	3.50	2.38	0.40	0.08	4	0.63	1.89	5.71	3.07	5.71	0.35	0.35	0.24	0.24	1.42	1.65	5.67	2.83
3/4"	0.79	4.61	1.69	3.88	2.76	0.43	0.08	4	0.63	2.09	5.91	3.31	5.71	0.35	0.35	0.24	0.28	1.42	1.97	5.67	2.83
1"	0.98	5.00	2.01	4.25	3.12	0.46	0.08	4	0.63	2.30	6.63	3.52	6.89	0.43	0.43	0.24	0.28	1.65	1.97	6.46	3.31
1-1/4"	1.26	5.51	2.50	4.61	3.50	0.52	0.08	4	0.63	2.80	7.13	3.98	6.89	0.43	0.43	0.24	0.35	1.65	2.76	6.46	3.31
1-1/2"	1.50	6.50	2.88	5.00	3.88	0.57	0.08	4	0.63	2.99	8.03	4.21	7.48	0.55	0.55	0.28	0.35	1.97	2.76	8.19	3.78
2"	1.97	7.01	3.62	6.00	4.75	0.64	0.08	4	0.75	3.19	8.23	4.41	7.48	0.55	0.55	0.28	0.35	1.97	2.76	8.19	3.78
2-1/2"	2.48	7.48	4.12	7.00	5.50	0.70	0.08	4	0.75	4.00	9.59	5.91	10.43	0.67	0.67	0.35	0.43	2.76	4.02	9.72	4.25
3"	2.99	7.99	5.00	7.50	6.00	0.77	0.08	4	0.75	4.39	10.45	6.93	11.81	0.67	0.67	0.35	0.43	2.76	4.02	10.55	4.84
4"	3.94	9.02	6.18	9.00	7.50	0.96	0.08	8	0.75	5.51	13.19	8.03	15.75	0.87	0.87	N/A	0.43	N/A	4.02	13.58	5.94
5"	4.92	14.02	7.32	10.00	8.50	0.96	0.08	8	0.88	7.20	16.30	10.06	23.62	1.06	1.06	0.55	N/A	4.92	N/A	17.72	7.95
6"	5.91	15.51	8.50	11.00	9.50	1.02	0.08	8	0.88	7.99	17.13	10.83	31.50	1.06	1.06	0.55	N/A	4.92	N/A	17.72	7.95
8"	7.87	17.99	10.63	13.50	11.75	1.14	0.08	8	0.88	9.94	21.87	12.91	31.50	1.06	1.06	0.55	N/A	4.92	N/A	21.46	8.82

STAINLESS STEEL VALVES

Stainless Steel ASME Class 150 2-PC Body, Direct Mount Flanged End Ball Valve, Full Port

KFDMV2015FP



No.	Part Name	Material		
		ANSI/JIS/DIN	ANSI/JIS/DIN	ANSI/JIS/DIN
1	Body	A351-CF8M/ SCS14A/1.4408	A351-CF8/ SCS13A/1.4308	A216-WCB/ SCPH2/1.0619
2	End Cap	A351-CF8M/ SCS14A/1.4408	A351-CF8/ SCS13A/1.4308	A216-WCB/ SCPH2/1.0619
3	Ball	A351-CF8M/ SCS14A/1.4408	A351-CF8/SCS13A/1.4308	
4	Ball Seat	TFM1600/PTFE/RTFE		
5	Bolting	A193-B8 (For ANSI ball valves) A2-70 (For DIN ball valves)		A193-B7 (For ANSI ball valves) / 8.8 (For DIN/JIS ball valves)
6	Stem	SUS316	SUS304	
7	Anti-Static	SUS316	SUS304	
8	Thrust Washer	PTFE		
9	Stem Packing	PTFE		
10	Bushing	50% SS + 50% PTFE		
11	Gland	SUS316		
12	Belleville Washer	SUS301		
13	Stem Nut	A194-8		
14	Stop-Lock-Cap	SUS304		

No.	Part Name	Material		
		ANSI/JIS/DIN	ANSI/JIS/DIN	ANSI/JIS/DIN
15	Handle Nut	A194-8		
16	Lever	SUS304		
17	Handle Sleeve	Vinyl Plastic		
18	Lock Device	SUS304		
19	Body Gasket	PTFE		
20	Nut	A194-8 (For ANSI ball valves) A2-70 (For DIN/JIS ball valves)		194-2H (For ANSI ball valves) / 8.8 (For DIN/ JIS ball valves)
21	Pipe Handle (3"~8")	A53 + Zn Plated		
22	Handle Adapter (3"~8")	CF8		
23	Bolting (3"~8")	A2-70		
24	O-Ring	FKM		
25	Set Screwed (3"~8")	SUS304		
26	Stop Bolt	A193-B8		
27	Nameplate	SUS304		
28	Worm Gear	WCB		

STAINLESS STEEL VALVES

Stainless Steel ASME Class 150

2-PC Body, Flanged End Ball Valve, Full Port

KFV2015FP



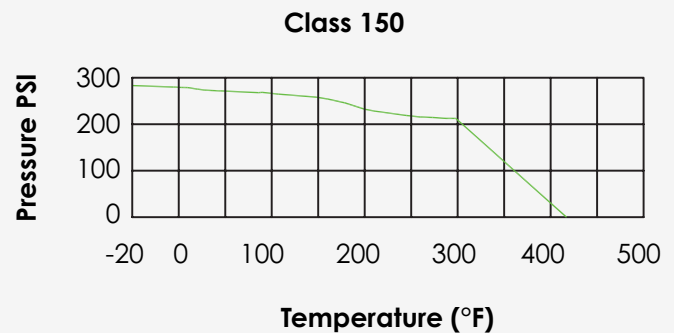
Design Features

- Built-in ISO 5211 Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Casting Boss on Body for Draining
- Locking Device is Standard

Applicable Standards

- Design: ASME B16.34, API 608
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection & Testing: API 598

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/2"	18	3.62	0.59	44
3/4"	36	4.48	0.79	53
1"	48	6.40	0.98	89
1-1/4"	72	8.03	1.26	115
1-1/2"	120	12.86	1.50	168
2"	190	18.42	1.97	252
2-1/2"	450	31.51	2.52	398
3"	600	39.87	2.99	637
4"	1100	65.75	3.93	974
6"	2600	161.07	5.90	2708
8"	4200	276.96	7.87	3806



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STAINLESS STEEL VALVES

Stainless Steel ASME Class 300

2-PC Body, Flanged End Ball Valve, Full Port

KFV203FP



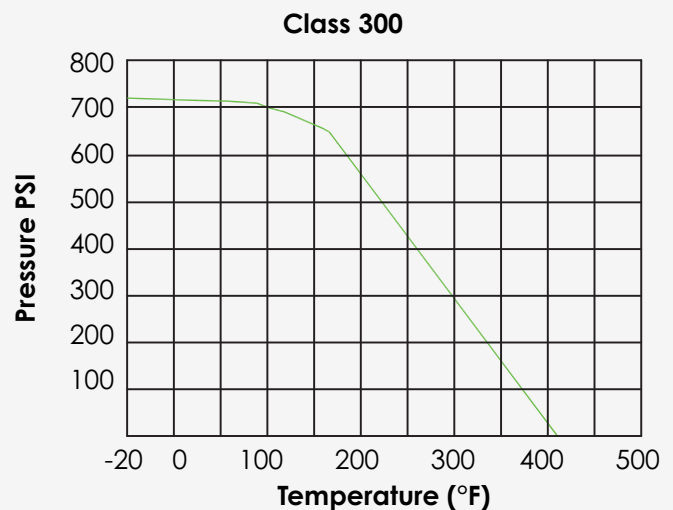
Design Features

- Built-in ISO 5211 Mounting Pad for Easy Automation
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Casting Boss on Body for Draining
- Locking Device is Standard

Applicable Standards

- Design: ASME B16.34, API 608
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection & Testing: API 598

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/2"	18	5.27	0.59	44
3/4"	36	7.52	0.79	53
1"	48	10.81	0.98	89
1-1/4"	72	10.99	1.26	115
1-1/2"	120	18.31	1.50	168
2"	190	22.86	1.97	252
2-1/2"	450	36.85	2.52	398
3"	600	57.44	2.99	637
4"	1100	93.51	3.93	974
6"	2600	161.08	5.90	2708
8"	4200	318.40	7.87	3806



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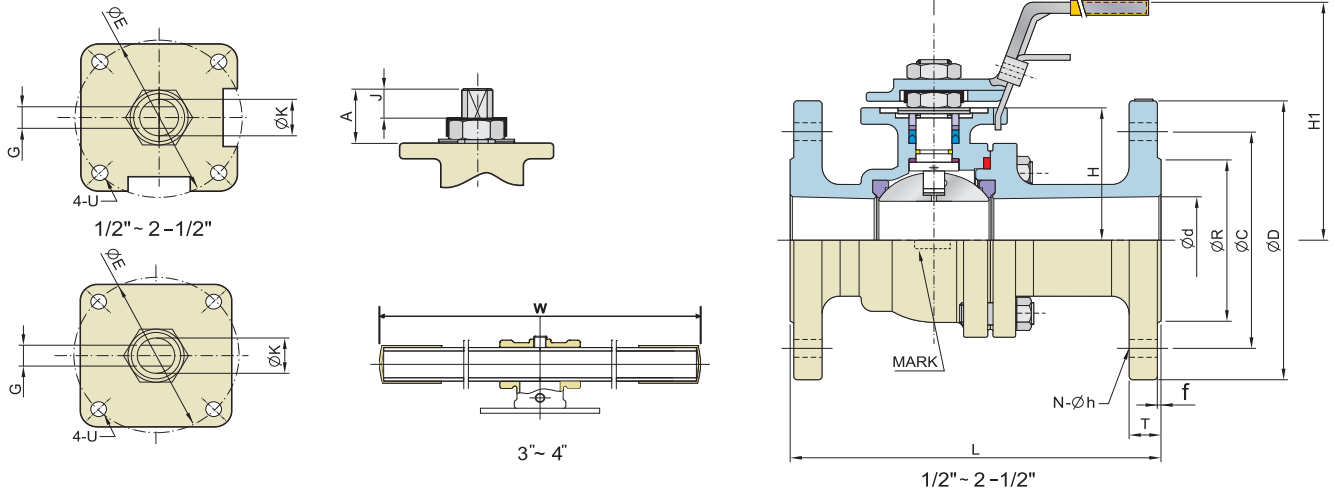
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STAINLESS STEEL VALVES

Stainless Steel ASME Class 150/300

2-PC Body, Flanged End Ball Valve, Full Port

KFV2015FP/KFV203FP



ASME Class 150 – KFV2015FP

Unit: Inch

Size	Port	L	ØR	ØD	ØC	f	T	H	H1	N	Øh	W	G	A	J	ØK	U	ØE	ISO5211
1/2"	0.59	4.25	1.38	3.50	2.38	0.08	0.40	1.46	3.38	0.16	0.63	5.31	0.25	0.79	0.39	0.47	M5	1.65	F04
3/4"	0.79	4.60	1.69	3.88	2.75	0.08	0.43	1.57	3.90	0.16	0.63	5.31	0.25	0.79	0.39	0.47	M5	1.65	F04
1"	0.98	5.00	2.01	4.25	3.13	0.08	0.46	1.81	3.90	0.16	0.63	6.69	0.35	0.94	0.43	0.59	M6	1.97	F05
1-1/4"	1.26	5.51	2.50	4.61	3.50	0.08	0.51	1.97	3.98	0.16	0.63	6.69	0.35	0.94	0.43	0.59	M6	1.97	F05
1-1/2"	1.50	6.49	2.88	5.00	3.88	0.08	0.57	2.44	4.64	0.16	0.63	7.87	0.38	1.06	0.63	0.63	M8	2.75	F07
2"	1.97	7.00	3.62	6.00	4.75	0.08	0.64	2.79	5.00	0.16	0.75	7.87	0.38	1.06	0.63	0.63	M8	2.75	F07
2-1/2"	2.52	7.48	4.13	7.00	5.50	0.08	0.70	3.50	6.42	0.16	0.75	11.81	0.63	1.67	0.83	0.94	M10	4.01	F10
3"	2.99	7.99	5.00	7.50	6.00	0.08	0.77	3.94	6.79	0.16	0.75	11.81	0.63	1.67	0.83	0.94	M10	4.01	F10
4"	3.93	9.01	6.19	9.01	7.50	0.08	0.96	4.74	8.23	0.32	0.75	15.75	0.71	1.87	0.98	1.14	M10	4.01	F10
6"	5.90	15.50	8.50	11.0	9.50	0.08	1.01	7.99	10.83	0.31	0.88	31.50	1.06	1.06	NA	1.35	M14	4.92	F12
8"	7.87	17.99	10.63	13.5	11.75	0.08	1.14	9.94	12.91	0.31	0.88	31.50	1.06	1.06	NA	1.35	M14	4.92	F12

ASME Class 300 – KFV203FP

Unit: Inch

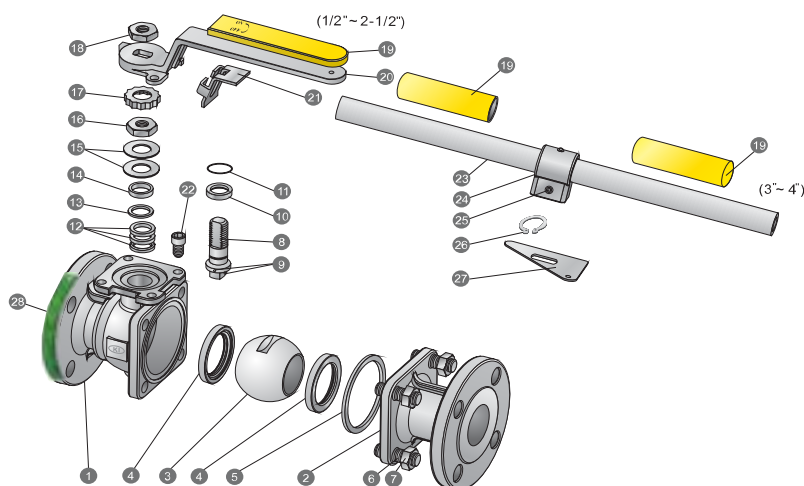
Size	Port	L	ØR	ØD	ØC	f	T	H	H1	N	Øh	W	G	A	J	ØK	U	ØE	ISO5211
1/2"	0.59	5.51	1.38	3.75	2.62	0.08	0.58	1.46	3.38	0.16	0.63	5.31	0.25	0.79	0.39	0.47	M5	1.65	F04
3/4"	0.79	5.98	1.69	4.62	3.25	0.08	0.64	1.57	3.90	0.16	0.75	5.31	0.25	0.79	0.39	0.47	M5	1.65	F04
1"	0.98	6.50	2.01	4.88	3.50	0.08	0.70	1.81	3.90	0.16	0.75	6.69	0.35	0.94	0.43	0.59	M6	1.97	F05
1-1/4"	1.26	7.01	2.50	5.25	3.88	0.08	0.77	1.97	3.98	0.16	0.75	6.69	0.35	0.94	0.43	0.59	M6	1.97	F05
1-1/2"	1.50	7.48	2.88	6.12	4.50	0.08	0.83	2.44	4.64	0.16	0.88	7.87	0.38	1.06	0.63	0.63	M8	2.75	F07
2"	1.97	8.50	3.62	6.50	5.00	0.08	0.89	2.79	5.00	0.32	0.75	7.87	0.38	1.06	0.63	0.63	M8	2.75	F07
2-1/2"	2.52	9.49	4.13	7.50	5.88	0.08	1.02	3.50	6.42	0.32	0.88	11.81	0.63	1.67	0.83	0.94	M10	4.01	F10
3"	2.99	11.10	5.00	8.27	6.61	0.08	1.14	3.94	6.79	0.32	0.88	11.81	0.63	1.67	0.83	0.94	M10	4.01	F10
4"	3.93	12.01	6.19	10.00	7.87	0.08	1.27	4.74	8.23	0.32	0.88	15.75	0.71	1.87	0.98	1.14	M10	4.01	F10
6"	5.90	15.87	8.50	12.50	10.62	0.08	1.46	7.99	10.85	0.47	0.88	31.50	1.06	1.06	NA	1.35	M14	4.92	F12
8"	7.87	19.76	10.63	15.00	13.00	0.08	1.64	9.94	12.91	0.47	1.00	31.50	1.06	1.06	NA	1.35	M14	4.92	F12

STAINLESS STEEL VALVES

Stainless Steel ASME Class 150/300

2-PC Body, Flanged End Ball Valve, Full Port

KFV2015FP/KFV203FP



Available Options

- Other Alloys are Available
- Casting per NACE/MR - 01-75 for Sour Gas Service
- Castings Approved by TÜV AD 2000 - Merkblatt W0 / EN10204 3.2 Form. (EN10204 3.1 Form is free)

Standard	ANSI/ASME	DIN	JIS
Rating	B16.34 Class150 (BS EN ISO17292 Class 150) B16.34 Class 300 (BS EN ISO17292 Class 300)	DIN 3357 PN10 - PN40 EN 12516-1	B2001 10K B2001 20K
Face to Face	B16.10	DIN 3202 F4/F18 DIN 3202 F1/F17 EN 558-1 Series1/ Series27	B2002 10K Form 6 B2002 20K Form 10
Connection Facing	B16.5RF serrated Finish (AARH200)	DIN EN1092-1	B2212 10K B2214 20K
Inspection & Testing	API 598, API 6D	DIN 3230/3, EN 12266	JIS B2003
Quality Assurance	ISO 9001, QS9000 AD 2000 - Merkblatt W0 PED 97/23/EC CE0036 API 6D		

No.	Part Name	Materials		
		ANSI/JIS/DIN	ANSI/JIS/DIN	ANSI/JIS/DIN
1	Body	A351 - CF8M/SCS14A/1.4408	A351 - CF8/SCS13A/1.4308	A216 - WCB/SCPH2/1.0619
2	End Cap	A351 - CF8M/SCS14A/1.4408	A351 - CF8/SCS13A/1.4308	A216 - WCB/SCPH2/1.0619
3	Ball	A351 - CF8M/SCS14A/1.4408	A351 - CF8/SCS13A/1.4308	
4	Ball Seat	TFM1600/PTFE/RTFE		
5	Body Gasket	PTFE		
6	Bolting	A193-B8		A193-B7
7	Bolt Nut	A194-8		A194-2H
8	Stem	SUS316	SUS304	
9	Antistatic Device	SUS316	SUS304	
10	Thrust Washer	PTFE		
11	O-Ring	FKM (Viton)		
12	Stem Packing	PTFE		
13	Bushing	50% SS+50% PTFE		
14	Gland	SUS316		
15	Belleville Washer	SUS301		
16	Stem Nut	A194-8		
17	Stop-lock-cap	SUS304		
18	Lever Nut (1/2"~2-1/2")	A194-8		
19	Lever Sleeve	Vinyl Plastic		
20	Lever (1/2"~2-1/2")	SUS304		
21	Lock Device (1/2"~2-1/2")	SUS304		
22	Stop Bolt	A193-B8		
23	Pipe Handle (3"~4")	A53+Zn Plated		
24	Handle Adapter (3"~4")	A351-CF8		
25	Set Screw (3"~4")	A193-B8		
26	Snap Ring (3"~4")	SUS304		
27	Triangle Stopper (3"~4")	SUS420		
28	Nameplate	SUS304		

STAINLESS STEEL VALVES

3-PC Stainless Steel Ball Valve – Full Port, 1000 WOG (Threaded & Socket Weld)

KV310FP/KSWV310FP



Design Features

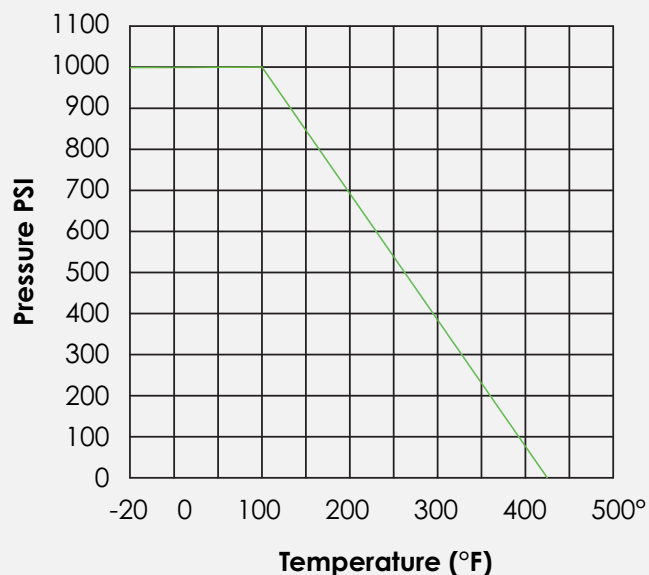
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Various Thread Standards Available
- Casting Approved by TÜV AD 2000 - Merkblatt W0

Applicable Standards

- Design: ASME B16.34, MSS SP-110
- Wall Thickness: EN 12516-3
- Pipe Thread (KV310FP): ASME B1.20.1
- Socket Weld (KSWV310FP): ASME B16.11
- Inspection & Testing: MSS SP-110

KV310FP Threaded				
Size	Cv	Wt (Lbs)	Port	Torque(Lbs)
1/4"	N/A	1.08	0.42	40
3/8"	N/A	0.99	0.50	40
1/2"	18	1.08	0.59	44
3/4"	36	1.70	0.79	53
1"	48	2.69	0.98	89
1-1/4"	72	4.10	1.26	115
1-1/2"	120	5.80	1.50	168
2"	190	8.94	1.97	252
2-1/2"	450	17.03	2.50	398
3"	600	25.15	2.99	637

KSWV310FP Socket Weld				
Size	Cv	Wt (Lbs)	Port	Torque (Lbs)
1/4"	N/A	1.02	0.42	40
3/8"	N/A	1.10	0.50	40
1/2"	18	1.39	0.59	44
3/4"	36	1.68	0.79	53
1"	48	2.60	0.98	89
1-1/4"	72	4.06	1.26	115
1-1/2"	120	5.85	1.50	168
2"	190	8.43	1.97	252
2-1/2"	450	17.83	2.50	398
3"	600	23.52	2.99	637



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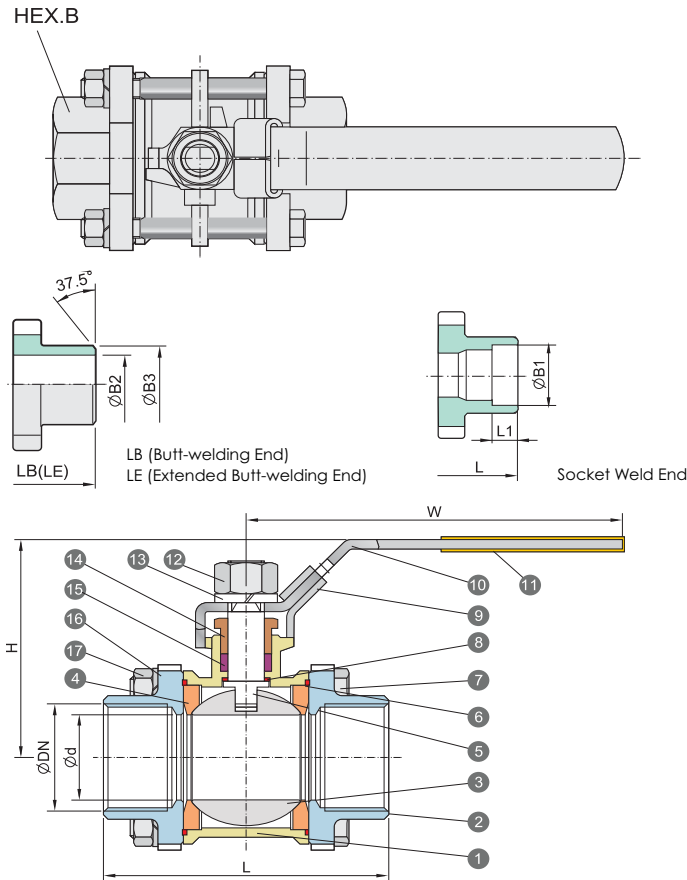
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STAINLESS STEEL VALVES

3-PC Stainless Steel Ball Valve – Full Port, 1000 WOG (Threaded & Socket Weld)

KV310FP/KSWV310FP



No.	Part Name	Materials		
1	Body	CF8M	CF8	WVB
2	Cap (Thread)	CF8M	CF8	WCB
	Cap (Welding)	CF3M		
3	Ball	CF8M	CF8	
4	Ball Seat	PTFE		
5	Stem	SUS316		SUS304
6	Body Gasket	PTFE		
7	Bolt	A193-B8		
8	Thrust Washer	PTFE		
9	Locking Device	SUS304		
10	Lever	SUS304		
11	Lever Sleeve	Vinyl Plastic		
12	Stem Nut	A194-8		
13	Stem Washer	SUS304		
14	Gland Nut	SUS304		
15	V-Ring Packing	PTFE		
16	Bolt Washer	SUS 304		
17	Bolt Nut	A194-8		

Unit: Inch

Size	Ød	L	LB	LE	H	W	L1	ØB1	ØB2	ØB3	HEX.B	ØDN
1/4"	0.42	2.57	2.57	6.50	2.26	3.94	0.39	0.56	0.37	0.71	0.93	NPT
3/8"	0.50	2.57	2.57	6.50	2.26	3.94	0.39	0.67	0.49	0.71	0.93	
1/2"	0.59	2.74	2.95	6.50	2.26	3.94	0.39	0.86	0.62	0.87	1.10	
3/4"	0.79	3.15	3.54	7.48	2.48	5.08	0.51	1.07	0.82	1.10	1.36	
1"	0.98	3.54	3.94	8.50	2.97	6.14	0.51	1.34	1.05	1.34	1.65	
1-1/4"	1.26	4.33	4.33	9.02	3.19	6.14	0.63	1.69	1.38	1.69	2.05	
1-1/2"	1.50	4.72	4.92	9.49	3.70	7.19	0.63	1.93	1.61	1.97	2.30	
2"	1.97	5.51	5.91	11.50	4.11	7.19	0.67	2.42	2.07	2.40	2.81	
2-1/2"	2.50	7.28	7.48	12.99	5.16	9.92	0.67	2.91	2.47	2.99	3.41	
3"	2.99	8.07	8.66	14.02	5.47	9.92	0.67	3.54	3.07	3.62	3.98	

STAINLESS STEEL VALVES

2-PC Stainless Steel Ball Valve – Full Port, 1000 WOG

KV210FP



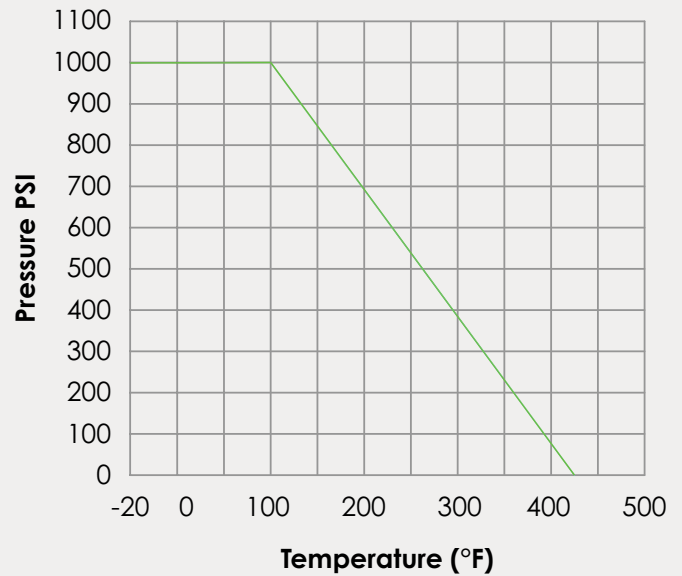
Design Features

- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Full Port
- Various Thread Standards Available
- Casting Approved by TÜV AD 2000 - Merkblatt W0

Applicable Standards

- Design: ASME B16.34, MSS SP-110
- Wall Thickness: EN 12516-3
- Pipe Thread: ASME B1.20.1
- Inspection & Testing: MSS SP-110

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/4"	N/A	0.73	0.42	40
3/8"	N/A	0.75	0.47	40
1/2"	18	0.75	0.59	44
3/4"	36	1.13	0.79	53
1"	48	1.94	0.98	89
1-1/4"	72	2.71	1.26	115
1-1/2"	120	4.10	1.50	168
2"	190	6.47	1.97	252
2-1/2"	450	14.23	2.50	398
3"	600	19.42	2.99	637



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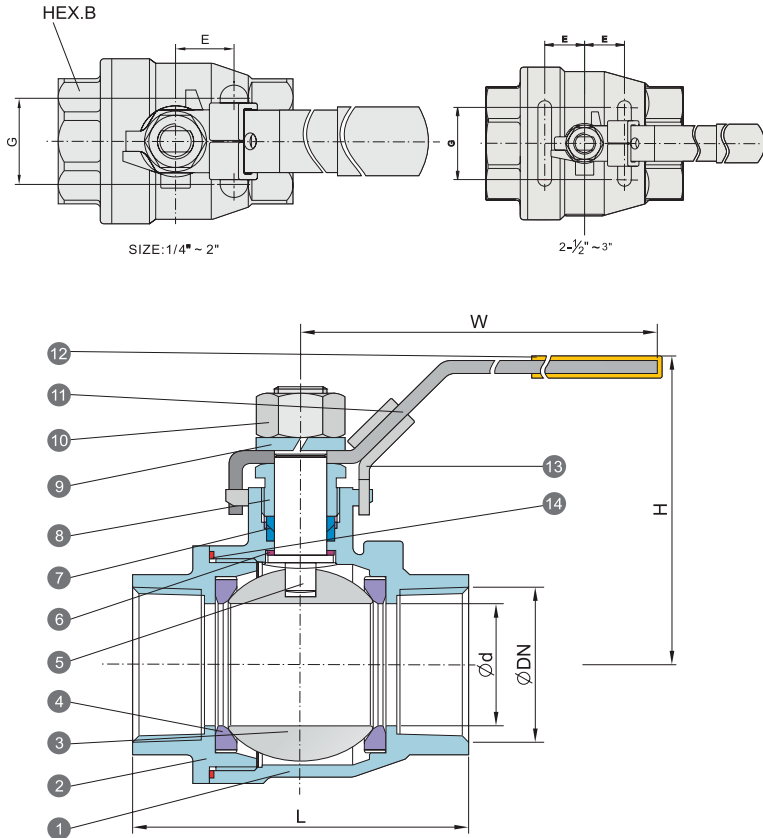
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STAINLESS STEEL VALVES

2-PC Stainless Steel Ball Valve – Full Port, 1000 WOG

KV210FP



No.	Part Name	Materials		
1	Body	CF8M	CF8	WCB
2	Cap	CF8M	CF8	WCB
3	Ball	CF8M		CF8
4	Ball Seat	PTFE		
5	Stem	SUS 316		SUS 304
6	Thrust Washer	PTFE		
7	V-Ring Packing	PTFE		
8	Gland Nut	SUS 304		
9	Stem Washer	SUS 304		
10	Stem Nut	A194 - 8		
11	Handle	SUS 304		
12	Handle Sleeve	Vinyl Plastic		
13	Locking Device	SUS 304		
14	Body Gasket	PTFE		

Unit: Inch

Size	Ød	L	H	W	E	G	HEX.B	ØDN
1/4"	0.42	2.28	2.28	3.94	0.05	1.12	0.93	NPT
3/8"	0.47	2.28	2.28	3.94	0.05	1.12	0.93	
1/2"	0.59	2.44	2.28	3.94	0.05	1.12	0.98	
3/4"	0.79	2.85	2.52	5.08	0.87	1.37	1.26	
1"	0.98	3.35	3.03	6.14	0.87	1.37	1.61	
1-1/4"	1.26	3.70	3.27	6.14	0.93	1.50	1.97	
1-1/2"	1.50	4.13	3.78	7.19	0.93	1.50	2.20	
2"	1.97	4.92	4.02	7.19	0.93	1.50	2.76	
2-1/2"	2.50	6.10	5.08	9.92	1.38	2.56	3.27	
3"	2.99	6.81	5.45	9.92	1.38	2.56	4.02	

STAINLESS STEEL VALVES

1-PC Stainless Steel Ball Valve – Reduced Port, 1000 WOG

KV108



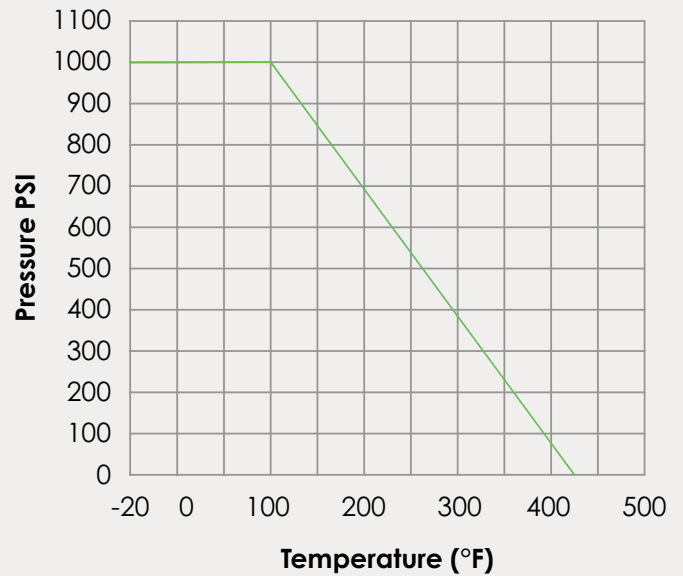
Design Features

- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Double Reduced Port
- Various Thread Standards Available
- Locking Device is Available Upon Request
- Casting Approved by TÜV AD 2000 - Merkblatt W0

Applicable Standards

- Design: ASME B16.34, MSS SP-110
- Wall Thickness: EN 12516-3
- Pipe Thread: ASME B1.20.1
- Inspection & Testing: MSS SP-110

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/4"	N/A	0.16	0.20	40
3/8"	N/A	0.24	0.28	40
1/2"	N/A	0.42	0.36	44
3/4"	N/A	0.64	0.49	53
1"	18	0.93	0.59	89
1-1/4"	36	1.39	0.79	115
1-1/2"	48	1.90	0.98	168
2"	72	3.27	1.26	252



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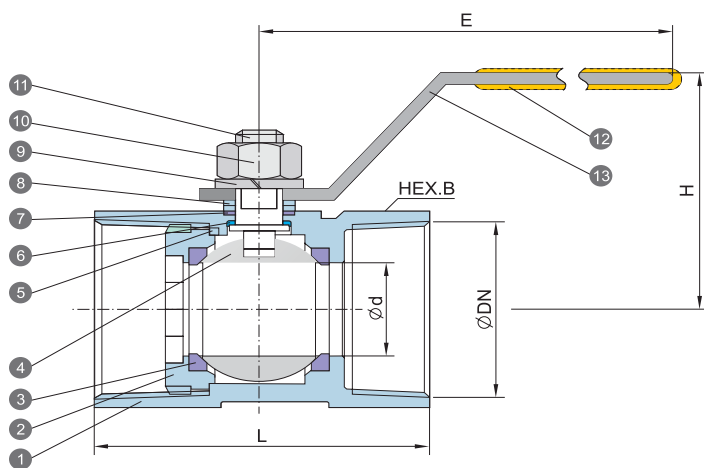
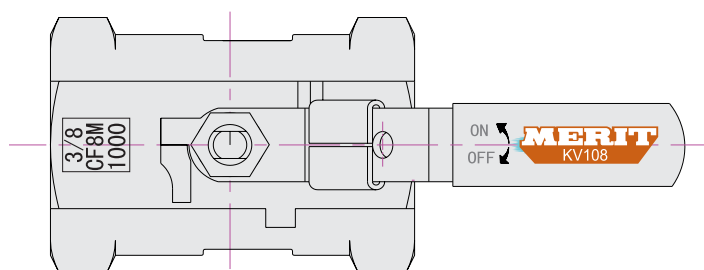
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STAINLESS STEEL VALVES

1-PC Stainless Steel Ball Valve – Reduced Port, 1000 WOG

KV108



NO.	Part Name	Materials		
1	Body	CF8M	CF8	WCB
2	End Plug	CF8M	CF8	WCB
3	Ball Set	PTFE		
4	Ball	CF8M	CF8	
5	Body Gasket	PTFE		
6	Thrust Washer	PTFE		
7	Stem Packing	PTFE		
8	Gland Nut	SUS 304		
9	Stem Washer	SUS 304		
10	Stem Nut	A194 - 8		
11	Stem	SUS 316	SUS 304	
12	Handle Sleeve	Vinyl Plastic		
13	Handle	SUS 304		

Unit: Inch

Size	Ø d	L	H	E	HEX.B	Ø DN
1/4"	0.20	1.63	1.34	2.76	0.67	NPT
3/8"	0.28	1.81	1.38	3.15	0.83	
1/2"	0.36	2.28	1.73	3.62	0.98	
3/4"	0.49	2.40	1.81	3.62	1.26	
1"	0.59	2.89	2.01	4.53	1.50	
1-1/4"	0.79	3.07	2.28	4.53	1.89	
1-1/2"	0.98	3.35	2.60	5.00	2.09	
2"	1.26	4.02	2.83	5.00	2.60	

STAINLESS STEEL VALVES

1-PC Stainless Steel Ball Valve – Reduced Port, 800 WOG

V108



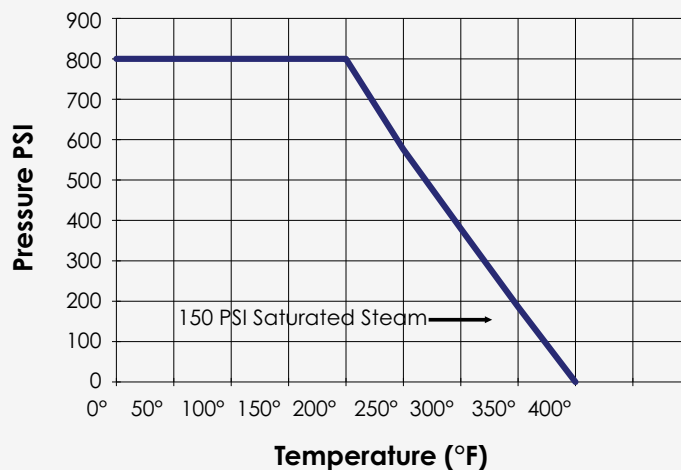
Design Features

- Blow-out Proof Stem
- Pressure Balance Hole Ball Slot
- Reduced Port
- Various Threaded Standards Available
- Locking Device is Available Upon Request

Applicable Standards

- Design: ASME/ANSI B16.34 EN12516
- Wall Thickness: ASME/ANSI B16.34 EN12516
- Pipe Thread: ASME/ANSI B1.20.1
- Inspection & Testing: ASME/ANSI B16.34 EN12516

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/4"	4	0.19	0.20	12
3/8"	4	0.24	0.32	12
1/2"	4.5	0.34	0.35	12
3/4"	9	0.53	0.49	20
1"	16	0.77	0.63	35
1-1/4"	24	1.54	0.79	55
1-1/2"	37	1.77	0.98	65
2"	68	2.79	1.26	80



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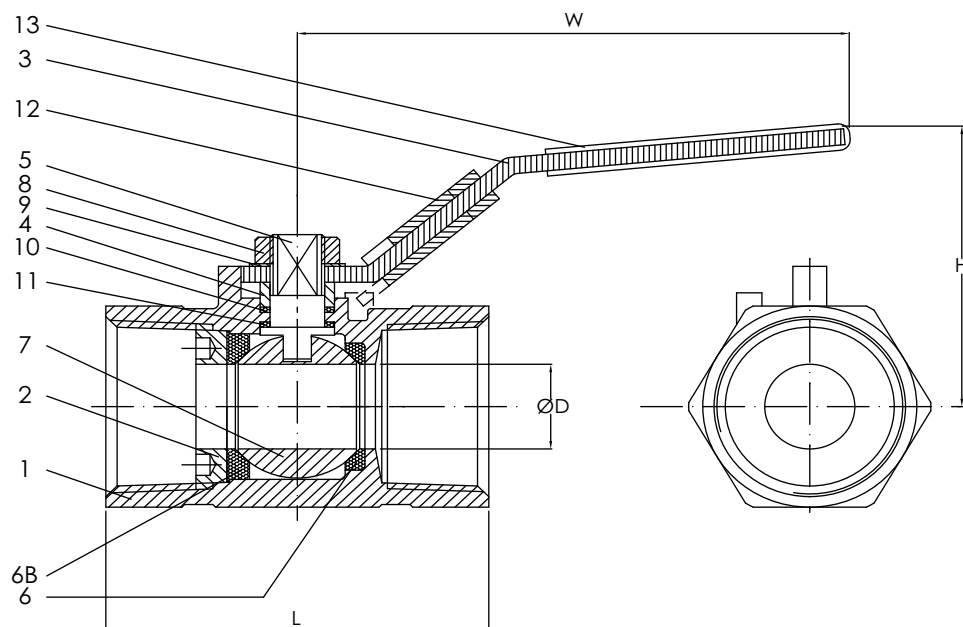
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STAINLESS STEEL VALVES

1-PC Stainless Steel Ball Valve – Reduced Port, 800 WOG

V108



Unit: Inch

NO.	Part Name	Qty	Material		
1	Body	1	ASTM	A351	CF8M
2	Insert	1	SUS316		
3	Handle	1	SUS304		
4	Gland	1	SUS304		
5	Stem	1	SUS316		
6	Seat Ring	1	Teflon		
6B	Seat Ring	1	Teflon		
7	Ball	1	SUS316		
8	Handle Nut	1	SUS304		
9	Spring Washer	1	SUS304		
10	Thrust Washer	1	Teflon		
11	Thrust Washer	1	Teflon		
12	Locking Device	1	SUS304		
13	Handle Cover	1	Plastic		

Size	D Port	L	H	W
1/4"	0.20	1.61	1.50	3.23
3/8"	0.32	1.73	1.57	3.23
1/2"	0.35	2.09	1.69	3.23
3/4"	0.49	2.36	1.97	3.94
1"	0.63	2.80	2.09	3.94
1-1/4"	0.79	3.23	2.60	5.91
1-1/2"	0.98	3.47	2.76	5.91
2"	1.26	4.09	2.95	5.91

STAINLESS STEEL VALVES

2-PC Stainless Steel Ball Valve – 2000/1500 WOG

V220/V215



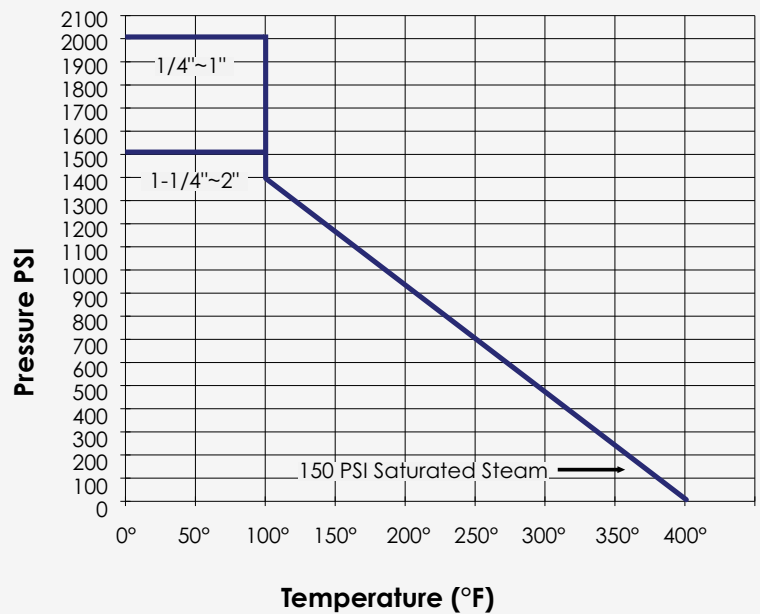
Design Features

- Blow-out Proof Stem
- Pressure Balance Hole Ball Slot
- Various Threaded Standards Available
- Locking Device is Available Upon Request

Applicable Standards

- Design: ASME/ANSI B16.34 EN12516
- Wall Thickness: ASME/ANSI B16.34 EN12516
- Pipe Thread: ASME/ANSI B1.20.1
- Inspection & Testing: ASME/ANSI B16.34 EN12266

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/4"	6	0.48	0.43	36
3/8"	6	0.48	0.43	36
1/2"	7	0.59	0.49	38
3/4"	10	1.06	0.63	43
1"	25	1.40	0.79	65
1-1/4"	35	2.91	0.98	100
1-1/2"	46	4.32	1.26	150
2"	80	5.25	1.50	185



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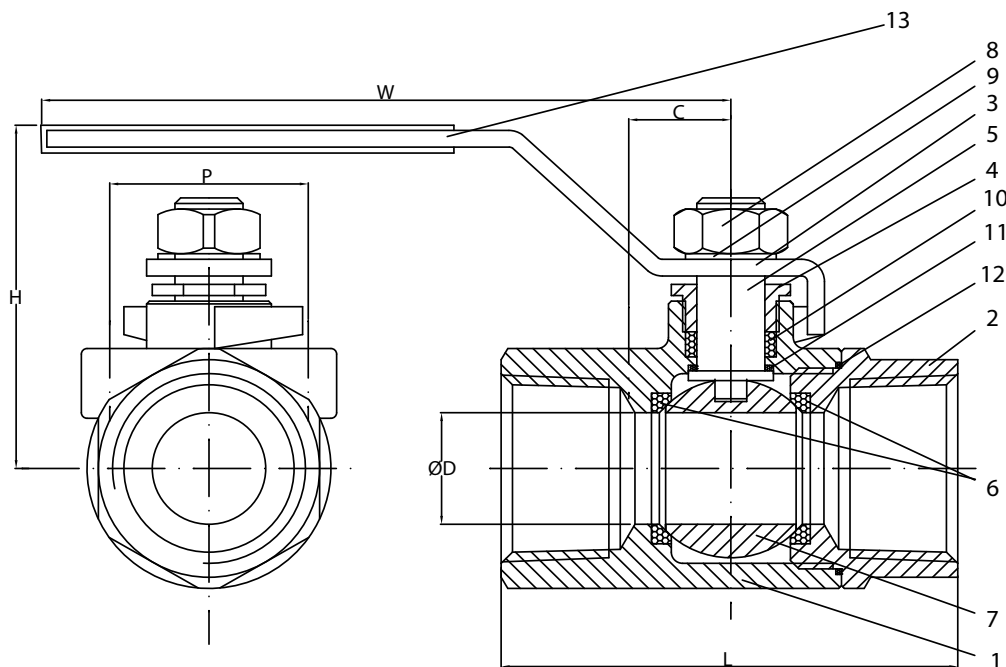
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STAINLESS STEEL VALVES

2-PC Stainless Steel Ball Valve – 2000/1500 WOG

V220/V215



Unit: Inch

NO.	Part Name	Qty	Materials		
1	Body	1	ASTM	A351	CF8M
2	End Cap	1	ASTM	A351	CF8M
3	Handle	1	SUS304		
4	Gland	1	SUS304		
5	Stem	1	SUS316		
6	Seat Ring	2	Teflon		
7	Ball	1	SUS316		
8	Handle Nut	1	SUS304		
9	Spring Washer	1	SUS304		
10	Grand Packing	3	Teflon		
11	Thrust Washer	1	Teflon		
12	Seal	1	Teflon		
13	Handle Device	1	Plastic		

	Size	D Port	L	W	H	C	P
V220 (1/4" - 1")	1/4"	0.43	2.01	3.78	1.87	0.50	1.12
	3/8"	0.43	2.01	3.78	1.87	0.50	1.12
	1/2"	0.49	2.32	3.78	1.87	0.50	1.12
	3/4"	0.63	2.72	4.96	2.15	0.88	1.38
	1"	0.79	3.17	4.96	2.26	0.88	1.38
V215	1-1/4"	0.98	3.72	7.05	2.78	0.95	1.50
	1-1/2"	1.26	4.00	7.05	2.97	0.95	1.50
	2"	1.50	4.70	7.05	3.15	0.95	1.50

STAINLESS STEEL VALVES

2-PC Stainless Steel Ball Valve – Full Port, 1000 WOG

V210FP



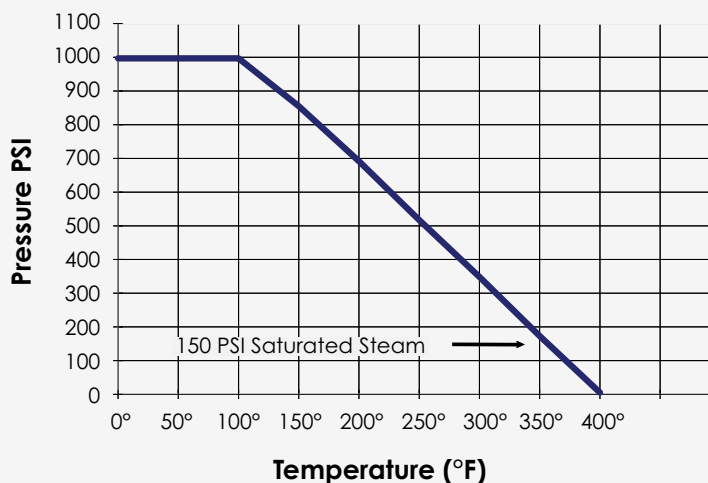
Design Features

- Blow-out Proof Stem
- Pressure Balance Hole Ball Slot
- Full Port
- Various Thread Standards Available
- Locking Device is Available Upon Request

Applicable Standards

- Design: ASME/ANSI B16.34 EN12516
- Wall Thickness: ASME/ANSI B16.34 EN12516
- Pipe Thread: ASME/ANSI B1.20.1
- Inspection & Testing: ASME/ANSI B16.34 EN12516

Size	Cv	Weight (Lbs)	Port	Torque (In-Lbs)
1/4"	6	0.56	0.43	35
3/8"	8	0.49	0.49	35
1/2"	12	0.70	0.63	40
3/4"	28	1.18	0.98	60
1"	37	1.64	0.79	100
1-1/4"	48	2.56	1.26	130
1-1/2"	82	3.69	1.50	160
2"	115	6.24	2.01	225
2-1/2"	315	13.31	2.56	420
3"	370	19.60	3.15	1350



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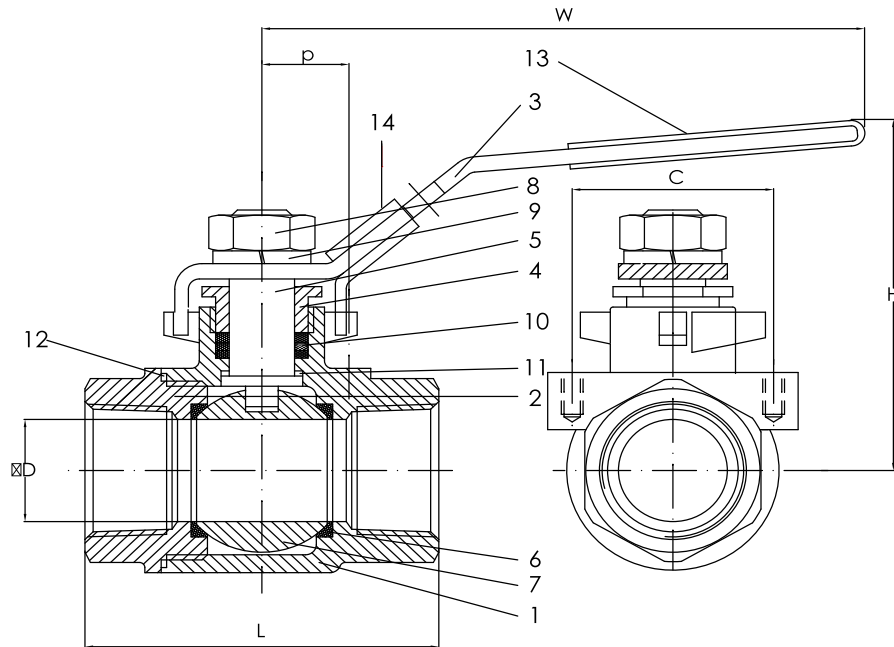
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STAINLESS STEEL VALVES

2-PC Stainless Steel Ball Valve – Full Port, 1000 WOG

V210FP



Unit: Inch

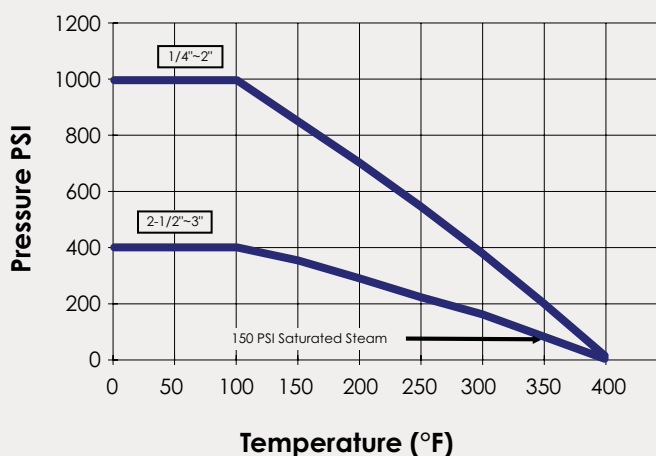
No.	Part Name	Qty	Material		
1	Body	1	ASTM	A351	CF8M
2	End Cap	1	ASTM	A351	CF8M
3	Handle	1	SUS304		
4	Gland	1	SUS304		
5	Stem	1	SUS316		
6	Seat Ring	2	Teflon		
7	Ball	1	SUS316		
8	Handle Nut	1	SUS304		
9	Spring Washer	1	SUS304		
10	Gland Packing	1	PTFE		
11	Thrust Washer	1	PTFE		
12	Seal	1	PTFE		
13	Handle Cover	1	Plastic		
14	Locking Device	1	SUS304		

Size	D Port	L	W	H	C	P
1/4"	0.43	1.97	3.78	2.13	1.12	0.50
3/8"	0.49	1.97	3.78	2.13	1.12	0.50
1/2"	0.63	2.44	3.78	2.24	1.12	0.50
3/4"	0.79	2.80	4.96	2.70	1.38	0.88
1"	0.98	3.82	4.96	2.85	1.38	0.88
1-1/4"	1.26	4.09	7.01	3.56	1.50	0.95
1-1/2"	1.50	3.27	7.01	3.74	1.50	0.95
2"	2.01	4.92	7.01	4.11	1.50	0.95
2-1/2"	2.56	6.85	9.61	4.72	2.56	1.75
3"	3.15	6.02	9.61	5.16	2.56	1.75

STAINLESS STEEL VALVES

3-PC Stainless Steel Ball Valve – Full Port 1000 WOG

V310FP/SWV310FP



Design Features

- Blow-out proof stem
- Pressure balance hole ball slot
- Full Port
- Various threaded standards available
- Locking device is available upon request

Applicable Standards

- Design: ASME/ANSI B16.34 EN12516
- Wall thickness: ASME/ANSI B16.34 EN12516
- Pipe thread: ASME/ANSI B1.20.1
- Socket weld: ASME/ANSI B16.11
- Inspection & testing: ASME/ANSI B16.34 EN12266

V310FP Threaded				
Size	Cv	Weight (Lbs)	Port	Torques (Lbs)
1/4"	6	0.69	0.43	36
3/8"	7	0.68	0.50	36
1/2"	10	1.03	0.63	40
3/4"	25	1.28	0.77	65
1"	35	2.47	0.98	100
1-1/4"	46	3.35	1.26	155
1-1/2"	80	4.36	1.50	185
2"	110	7.58	1.97	225
2-1/2"	310	14.17	2.56	420
3"	360	21.76	3.15	1380

SWV310FP Socket Weld				
Size	Cv	Weight (Lbs)	Port	Torques (Lbs)
1/2"	10	0.99	0.63	40
3/4"	25	1.28	0.77	65
1"	35	2.40	0.98	100
1-1/4"	46	3.30	1.26	155
1-1/2"	80	4.28	1.50	185
2"	110	7.46	1.97	225
2-1/2"	310	13.29	2.56	420
3"	360	20.76	3.15	1380

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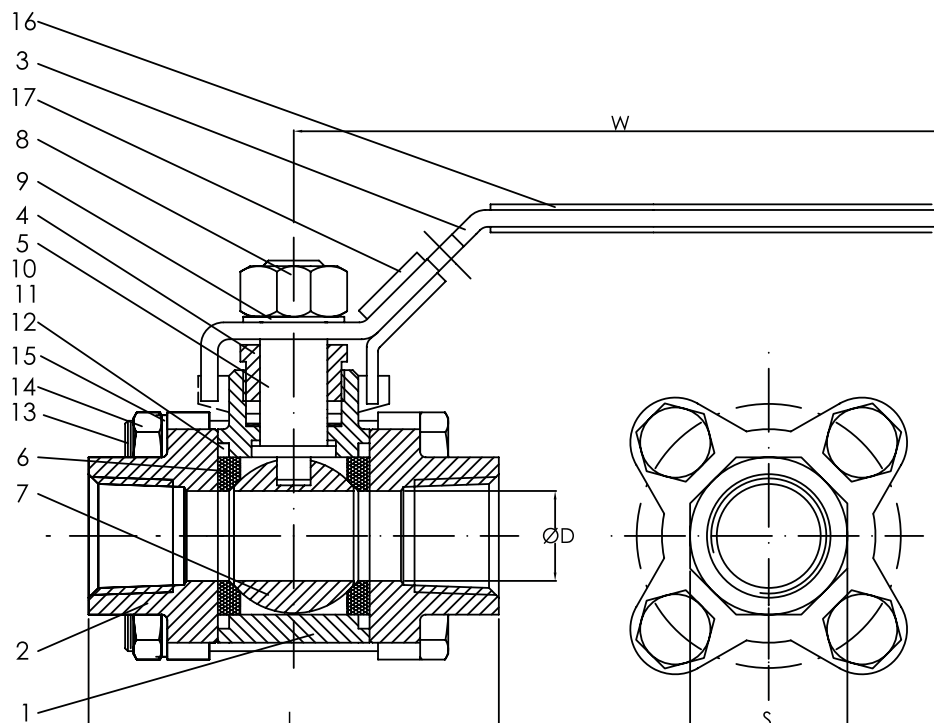
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STAINLESS STEEL VALVES

3-PC Stainless Steel Ball Valve – Full Port 1000 WOG

V310FP/SWV310FP



Unit: Inch

NO.	Part Name	Qty.	Material		
1	Body	1	ASTM	A351	CF8M
2	End Cap	2	ASTM	A351	CF8M
3	Handle	1	SUS 304		
4	Gland	1	SUS 304		
5	Stem	1	SUS 316		
6	Seat Ring	2	Teflon		
7	Ball	1	SUS 316		
8	Handle Nut	1	SUS 304		
9	Spring Washer	1	SUS 304		
10	Thrust Washer	1,2	Teflon		
11	Thrust Washer	1	Teflon		
12	Seal Washer	2	Teflon		
13	Bolts	4	SUS 304		
14	Nut	4	SUS 304		
15	Spring Washer	4	SUS 304		
16	Handle Cover	1	Plastic		
17	Locking Device	1	SUS 304		

Size	D Port	S	L	W	H
1/4"	0.43	0.87	2.17	3.80	1.70
3/8"	0.50	0.87	2.17	3.80	1.70
1/2"	0.63	1.06	2.52	4.25	2.05
3/4"	0.77	1.30	2.91	4.25	2.15
1"	0.98	1.58	3.31	7.01	2.68
1-1/4"	1.26	1.97	3.78	7.01	2.87
1-1/2"	1.50	2.21	4.13	7.01	3.05
2"	1.97	2.76	4.84	7.01	3.43
2-1/2"	2.56	3.43	5.98	9.61	4.72
3"	3.15	3.94	6.85	9.61	5.16

LOCATIONS

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Sparks, NV 89434

LONG BEACH PIPE DEPOT
2396 E. Artesia Blvd
Long Beach, CA 90805

DALLAS DISTRIBUTION CENTER
10614 King William Drive
Dallas, TX 75220

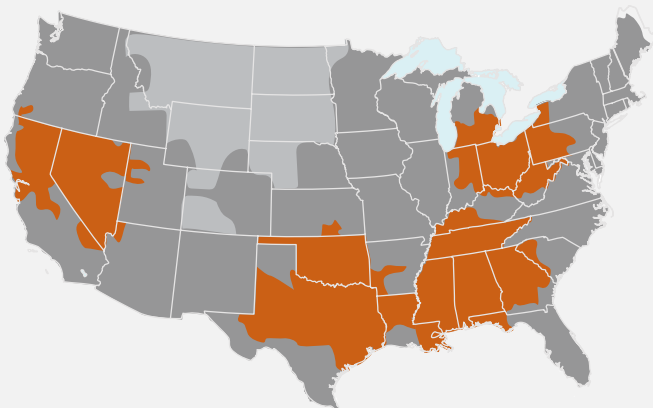
CLEVELAND HEADQUARTERS
One Merit Drive/PO Box 43127
Cleveland, OH 44143

BIRMINGHAM DISTRIBUTION CENTER
220 Oxmoor Court
Birmingham, AL 35209

HOUSTON DISTRIBUTION CENTER
4680 S. Sam Houston Pkwy W, Suite 120
Houston, TX 77053

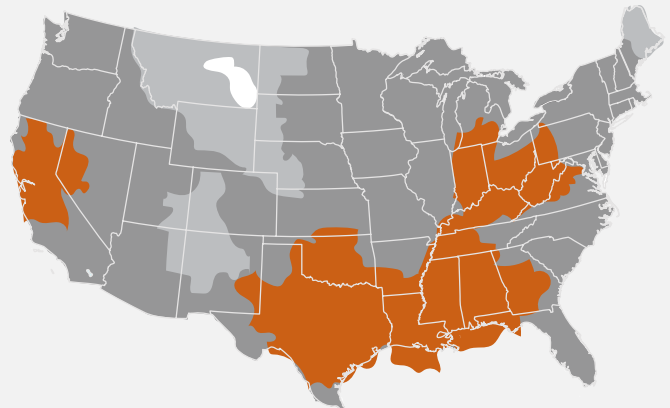
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