

BV2-Series Ball Valve

Used in sanitary processes when you need a valve for isolation or control of the flow of a product. The 3-piece design allows for seat and/or ball replacement without removing the valve from the process line.

They are found in the food processing, beverage, winery, brewery, pet product, and industrial markets.

Sizes

- 1/2" to 4"

Features

- Live-loaded stem packing
- Precision stainless steel balls reduce torque and friction losses while extending seat life
- Integral ISO 5211 mounting pad
- Lockable handle can prevent accidental actuation
- Standard internal entry blow-out proof stem design
- Full port design matches ball and seat ports to tube I.D. for lower pressure drop and less turbulent flow
- Compact design for areas with tight space restrictions
- Fully encapsulated construction produces bubble tight seal
- Identification tagging available
- Balanced encapsulated construction minimizes cold flow



1/2" to 2"

2-1/2" to 4"

Specifications

- Standard connections: clamp (other options available, see part number key)
- Valve data
 - Maximum pressure
 - 1/2" - 2": **1000 PSI WOG**
 - 2-1/2" - 4": **800 PSI WOG**
 - Operating temperature: **-20°F to 450°F (-29°C to 232°C)**
- Materials of construction
 - Product contact metal components: CF8M stainless steel
 - Non-product contact metal components: CF8M, 316, 304 stainless steel
 - Product contact seals: Virgin PTFE (standard), 15% glass reinforced PTFE, 25% carbon reinforced PTFE (not food grade), 50% stainless steel reinforced PTFE, and ultra-high molecular weight polyethylene
- Surface finish
 - Product contact metal components: ≤ 32 Ra
 - Non-product contact metal components: as cast or RA ≤ 63
- Seat lubricant: BESSIL F-100
- Stem lubricant: G.A. BESSIL 25

BV2-Series Flow Coefficient Chart for V-Port (Percent and Angle of Ball Rotation)

Size	V-Port Angle	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1/2"	30°	0	.04	.23	.47	.77	1.19	1.83	2.47	3.43	4.65	5.55
	60°	0	.04	.28	.73	1.11	1.83	2.92	4.29	7.00	9.43	12.78
3/4"	30°	0	.07	.30	.61	.99	1.57	2.42	3.25	4.52	6.12	7.30
	60°	0	.07	.35	.93	1.46	2.42	3.85	5.64	9.21	12.41	16.25
1"	30°	0	.08	.45	1.25	2.06	3.54	5.30	7.70	10.49	12.84	15.48
	60°	0	.09	.68	1.74	2.78	5.13	8.00	11.88	18.71	23.22	32.81
1-1/2"	30°	0	.07	.65	1.88	3.39	5.66	8.36	12.12	16.17	20.44	23.88
	60°	0	.09	.92	2.81	4.69	8.89	14.85	21.16	30.73	45.88	59.74
2"	30°	0	.09	1.18	3.79	7.53	12.26	17.83	26.44	36.45	48.09	55.85
	60°	0	.11	1.51	5.80	10.39	20.60	33.98	48.75	69.04	104.23	135.75
2-1/2"	30°	0	.09	1.15	4.42	7.91	13.39	20.05	30.43	41.92	56.30	76.95
	60°	0	.13	1.46	5.91	11.90	23.24	37.92	59.31	83.29	113.65	162.50
3"	30°	0	.12	1.20	4.15	9.49	15.96	26.78	38.91	53.31	69.77	85.91
	60°	0	.15	2.89	6.70	15.82	29.36	46.32	73.60	106.74	149.88	193.20
4"	30°	0	.16	1.75	7.84	18.59	35.21	58.60	87.89	124.21	158.53	196.35
	60°	0	.26	2.20	12.44	33.67	62.98	106.26	160.49	233.96	329.50	437.29

BV2-Series Ball Valve - Part Number Key

BV2-Series Sanitary Ball Valve Part Number Key Example: BV2CV-050CC-A		Series	Seat	Seat Material	Valve Size	Connection End 1	Connection End 2	Handle	Surface Finish
		BV2	C	V	- 050	C	C	- A	
Series	Code								
BV2	BV2								
Seat Type	Code								
Encapsulated	C								
Non-encapsulated	N								
Seat Material	Code								
Virgin PTFE (standard)	V								
15% glass reinforced PTFE	G								
25% carbon reinforced PTFE	C								
50% stainless steel reinforced PTFE	S								
Ultra high molecular weight polyethylene	U								
Valve Size	Code								
1/2"	050								
3/4"	075								
1"	100								
1-1/2"	150								
2"	200								
2-1/2"	250								
3"	300								
4"	400								
Connection End 1	Code								
Clamp (standard)	C								
Weld	B								
Female I-line	F								
Male I-line	M								
Threaded bevel	T								
Plain bevel with nut	P								
Q-line	Q								
DIN male	D								
DIN liner with nut	L								
Connection End 2	Code								
Clamp (standard)	C								
Weld	B								
Female I-line	F								
Male I-line	M								
Threaded bevel	T								
Plain bevel with nut	P								
Q-line	Q								
DIN male	D								
DIN liner with nut	L								
Surface Finish	Code								
32 Ra (I.D. mech. polish)	blank								
25 Ra (I.D. mech. polish)	B								
20 Ra (I.D. mech. polish)	C								
15 Ra (I.D. mech. polish)	D								
10 Ra (I.D. mech. polish)	E								

BV2-Series Ball Valve - Part Number Key (Actuated)

Sanitary 2-Way Actuated Ball Valve Part Number Key Example: 2CV50CA1XX00XX1		Series	Seat Material	Size	Connections	Surface Finish				
Series	Code	2C	V	50	C	A				
Encapsulated	2C	←	←	←	←	↓				
Non-encapsulated	2N									
Encapsulated 30° V Port	2M									
Encapsulated 60° V Port	2L									
Seat Material	Code									
Virgin PTFE	V									
RTFE (15% glass reinforced PTFE)	G									
25% carbon reinforced PTFE	C									
50% stainless steel reinforced PTFE	S									
UHMW (encapsulated only)	U									
Size	Code									
1/2"	50									
3/4"	75									
1"	10									
1-1/2"	15									
2"	20									
2-1/2"	25									
3"	30									
4"	40									
Connections	Code									
Clamp	C									
Weld	B									
Female I-line	F									
Male I-line	M									
Threaded bevel	T									
Plain bevel with nut	P									
Q-line	Q									
Female NPT	1									
Flange	K									
Clamp x weld	D									
Male x female I-line	X									
Surface Finish	Code									
32 Ra	A									
25 Ra	B									
20 Ra	C									
15 Ra	D									
10 Ra	E									

Continue number selection by following column 1 (pneumatic actuators) or 2 (electric actuators) on page 5.

BV2-Series Ball Valve - Part Number Key (Actuated)

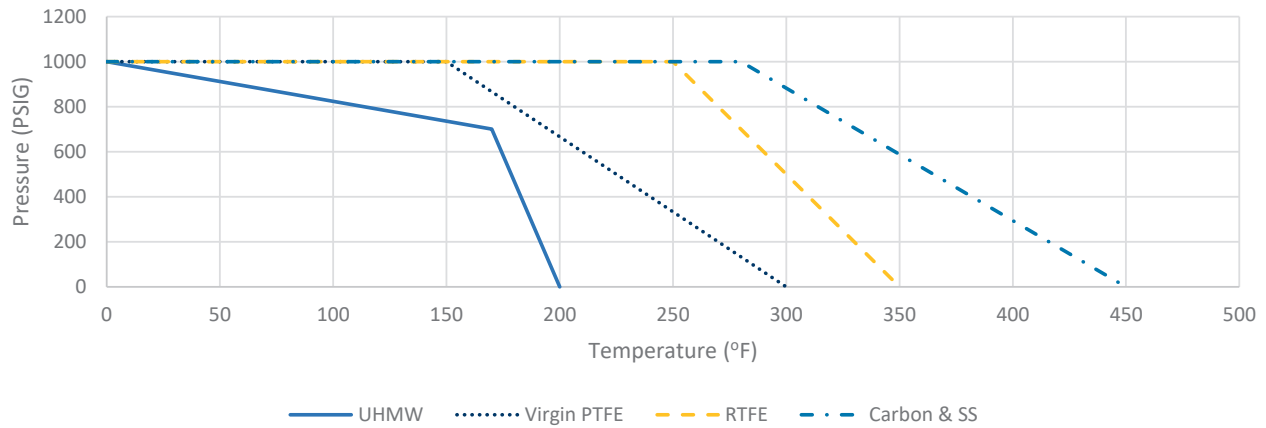
1. Pneumatic Actuator, Spring Return Manual Handle, or Manual Handle with Feedback					2. Electric Actuator			
Actuator	Actuator Options	Feedback	Control	Valve Operation	Actuator	Voltage	Option 1	Option 2
1	XX	00	XX	1	E	B	1	1
Actuator				Code	Actuator			Code
Aluminum spring return pneumatic rack and pinion				1	Electric			E
Aluminum double acting pneumatic rack and pinion				2	Oversized (1-UP) electric			F
Stainless steel spring return pneumatic rack and pinion				3	Nema 7 electric			G
Stainless steel double acting pneumatic rack and pinion				4	Electric with riser kit			H
Manual handle				5	Voltage			Code
Dead man spring return handle				6	115VAC			B
Technopolymer spring return pneumatic rack and pinion				7	12VDC			C
Actuator Options				Code	24VAC			D
None				XX	24VDC			E
Oversized (1-UP)				AA	220VAC			F
Actuator mounted perpendicular to flow				AB	12VAC			G
High temp FKM elastomers				AC	Option 1			Code
Extended travel stops				AD	None			1
Riser kit				AE	Torque switches			2
Feedback				Code	4-20mA Input/Output modulating controller			3
None				00	Current position transmitter			4
Limit switch box, OPEN/CLOSE beacon, (2) SPDT mech. switches				11	Potentiometer			5
Limit switch box, OPEN/CLOSE beacon, (2) switches, magnetic reed SPDT, hermetically sealed, up to SIL3, Exia ready, cULusClass 1/2 div1/2				12	Local control unit			6
Limit switch box, OPEN/CLOSE beacon, AS-I				13	Two extra travel cams and switches			7
Limit switch box, OPEN/CLOSE beacon, (2) proximity SPDT switches, aluminum Exd IIB certified enclosure				14	Three position cam set			8
Limit switch box, OPEN/CLOSE beacon, (2) DPDT mech. switches				15	Local control unit with lock			9
Limit switch box, OPEN/CLOSE beacon, (2) switches, electro mec. SPDT, silver contacts, up to SIL3, cULus Class 1/2 Div 1				16	1-5V Input/2-10V output modulating controller			A
Limit switch box, OPEN/CLOSE beacon, inductive proximity P+F NBB2-V3-E2, 3 wire PNP NO				17	2-10V Input/Output modulating controller			B
Limit switch box, OPEN/CLOSE beacon, 4-20ma analog position transmitter				18	75% duty cycle			C
Limit switch box, OPEN/CLOSE beacon, SPDT proximity, 0.25A@120VAC, 0.416A@48VDC, resistive				19	Relay			D
Limit switch box, OPEN/CLOSE beacon, 4-20ma analog position transmitter + 2 SPDT mechanical switches				20	Four position cam set			E
Stainless steel limit switch box, OPEN/CLOSE beacon, (2) proximity SPDT switches				21	25% duty cycle (actuator code G only)			F
Stainless steel limit switch box, OPEN/CLOSE beacon, (2) inductive NUMAR Exia ready switches				22	75% duty cycle (actuator code G only)			G

BV2-Series Ball Valve - Part Number Key (Actuated)

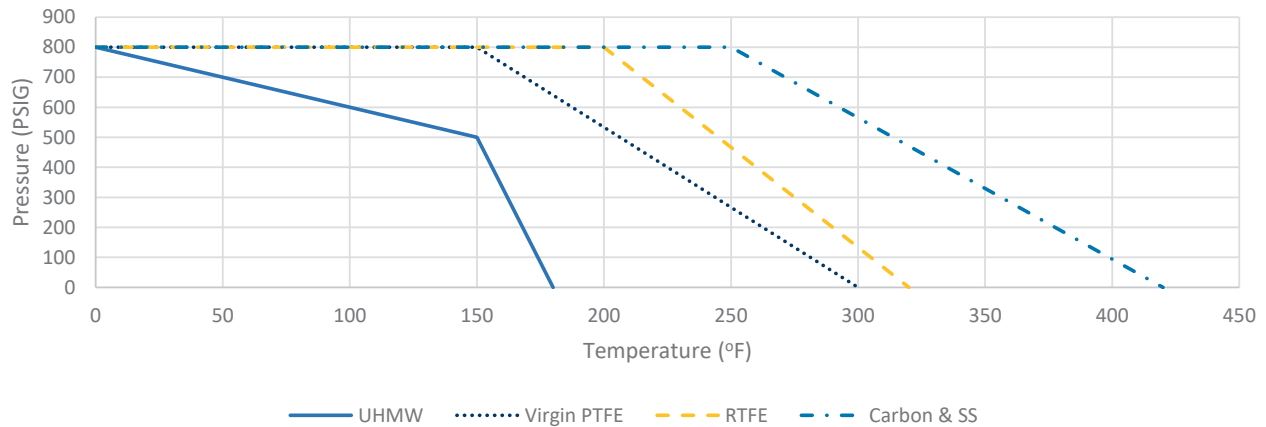
Control	Code	Option 2	Code
None	XX	None	1
Single coil solenoid, 120VAC	AA	Torque switches	2
Single coil solenoid, 24VDC	AB	4-20mA input/output modulating controller	3
Single coil solenoid, 12VDC	AC	Current position transmitter	4
Single coil solenoid, 220VAC	AD	Potentiometer	5
Dual coil solenoid, 120VAC	AE	Local control unit	6
Dual coil solenoid, 24VDC	AF	Two extra travel cams and switches	7
Dual coil solenoid, 220VAC	AG	Three position cam set	8
Pneumatic positioner 3-15psi input, no feedback	AH	Local control unit with lock	9
Pneumatic positioner 3-15psi input, (2) SPDT mech. switches for feedback	AI	1-5V input/2-10V output modulating controller	A
Pneumatic positioner 3-15psi input, 4-20mA for feedback	AJ	2-10V input/output modulating controller	B
Electropneumatic positioner 4-20mA input, no feedback	AK	75% duty cycle	C
Electropneumatic positioner 4-20mA input, (2) SPDT mech. switches for feedback	AL	Relay	D
Electropneumatic positioner 4-20mA input, 4-20mA for feedback	AM	Four position cam set	E
Electropneumatic positioner 0-10v input, no feedback	AN	25% duty cycle (actuator code G only)	F
Electropneumatic positioner 0-10v input, (2) SPDT mech. switches for feedback	AO	75% duty cycle (actuator code G only)	G
Electropneumatic positioner 0-10v input, 4-20mA for feedback	AP		
V200 rotary electropneumatic positioner 4-20mA input, 4-20mA feedback	AQ		
Electropneumatic positioner 4-20mA input, no feedback, class 1, div II explosion proof	AR		
Single coil solenoid, 24VDC and 24V banjo solenoid valve with form B plug	AS		
Single coil solenoid, 24VDC, AS-I, 2.5W low power	AT		
Single coil solenoid, 24VDC, intrinsically safe	AU		
Single coil solenoid, 120VAC, exp. proof, class H coil	AV		
Single coil solenoid, 24VDC, exp. proof, class H coil	AW		
Single coil solenoid, 24VAC	AX		
V200 rotary electropneumatic positioner 4-20mA input, 4-20mA feedback, class 1, div II explosion proof	AY		
Single coil solenoid, 24VDC, molded LED, ind. form, 2M leads	AZ		
TUFRAM COATED electropneumatic positioner 4-20mA input, no feedback	BA		
V200 rotary pneumatic positioner, (2) REED SWITCH feedback	BB		
Single coil solenoid, 24VDC, pre-wired to limit switch WITH CORDSET (Dual Keyway, 1/2"-20 UNF mating thread, single ended, straight female connector, 22 AWG PVC, auto color code 2P to 6P cable, 12' length)	BC		
Single coil solenoid, 24VDC, pre-wired to limit switch, 6P MALE CONNECTOR	BD		
Single coil solenoid, stainless steel, 24VDC	BE		
Valve Operation	Code		
Normally closed (spring return)	1		
Normally open (spring return)	2		
Fail in place (actuator code 2, 4, or 5)	3		

BV2-Series Ball Valve - Pressure Temperature Chart

0.50 in - 2.00 in



2.50 in - 4.00 in



BV2-Series Ball Valve - Break Torque, Weight, Cv, and Vacuum Testing Chart

Part #	Size	Base Break Torque (in-lb)	Weight (lbs)	Flow Coefficient (Cv)	Vacuum Testing (Virgin PTFE Seals)	
					Body Leakage (atm-cc/sec)	Helium Leak Rate Test (Torr)
BV2_-050_	1/2"	38	1.5	8	1 x 10 ⁻⁹	1 x 10 ⁻⁵
BV2_-075_	3/4"	40	1.9	29		
BV2_-100_	1"	109	2.7	66		
BV2_-150_	1-1/2"	387	4.8	192		
BV2_-200_	2"	432	8.9	434	1 x 10 ⁻⁷	1 x 10 ⁻⁴
BV2_-250_	2-1/2"	738	18.7	723		
BV2_-300_	3"	810	29.7	1124		
BV2_-400_	4"	895	43.6	2100		

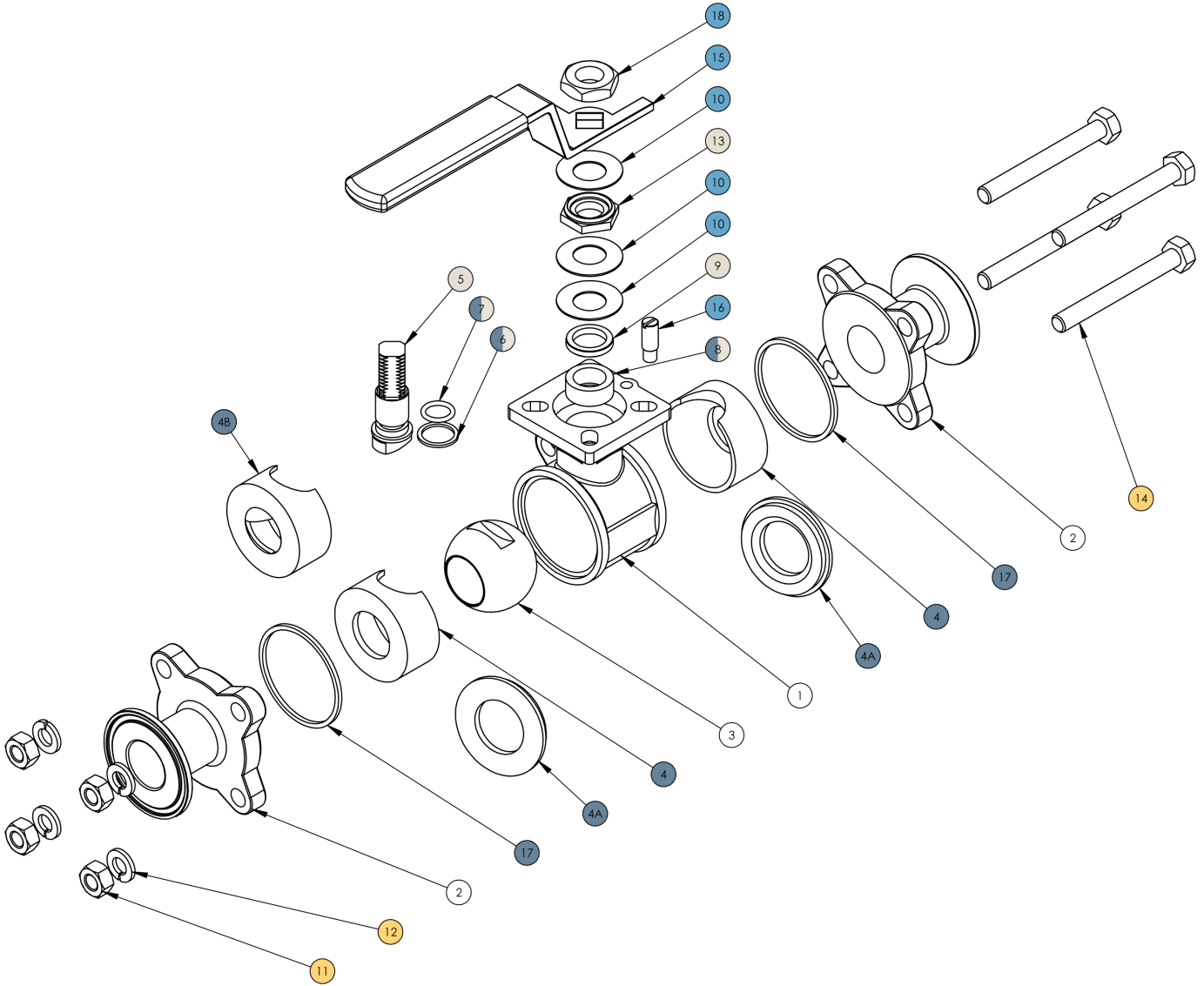
BV2-Series Seat Multiplier

Code (Seat Material)	Material Torque Multiplier
U (UHMW)	0.9
V (Virgin PTFE)	1
G (15% Glass Reinforced RTFE)	1 (4" = 2.0)
C (25% Carbon Reinforced PTFE)	1.75
S (50% Stainless Steel Reinforced PTFE)	1.75

NOTE: 1) Base Break Torque * Material Torque Multiplier = Material Break Torque





















BV2-Series Ball Valve - Bill of Materials


1/2" to 1"





BV2-Series Ball Valve - Bill of Materials


1/2" to 1"

Item	BV2 Size	Part #	Description	Materials	Quantity
1	1/2"	BV-2C-1-050	body	CF8M	1
	3/4"	BV-2C-1-075	body	CF8M	1
	1"	BV-2C-1-100	body	CF8M	1
2	1/2"	BV-2X-CE050	triclamp end	CF8M	2
	3/4"	BV-2X-CE075	triclamp end	CF8M	2
	1"	BV-2X-CE100	triclamp end	CF8M	2
3	1/2"	BV-2X-BL050	ball	CF8M	1
	3/4"	BV-2X-BL075	ball	CF8M	1
	1"	BV-2X-BL100	ball	CF8M	1
4	all		encapsulated seat	see repair kits	2
4A	all		non-encapsulated seat	see repair kits	2
4B	all		v-port encapsulated seat	see repair kits	1
5	all		stem	316 SS	1
6	all	 	thrust washer	see repair kits	1
7	all	 	stem O-ring	FKM	1
8	all	 	stem packing	see repair kits	3
9	all		gland ring	316 SS	1
10	all		bevel washer	301 SS	3
11	all		hex nut	304 SS	4
12	all		lockwasher	304 SS	4
13	all		stem lock nut	304 SS	1
14	all		body bolt	304 SS	4
15	all		handle	304 SS / Vinyl	1
16	all		stop pin	316 SS	1
17	all		body seal	see repair kits	2
18	all		handle nut	304 SS	1

 Included in seat kit (pg 21-22)

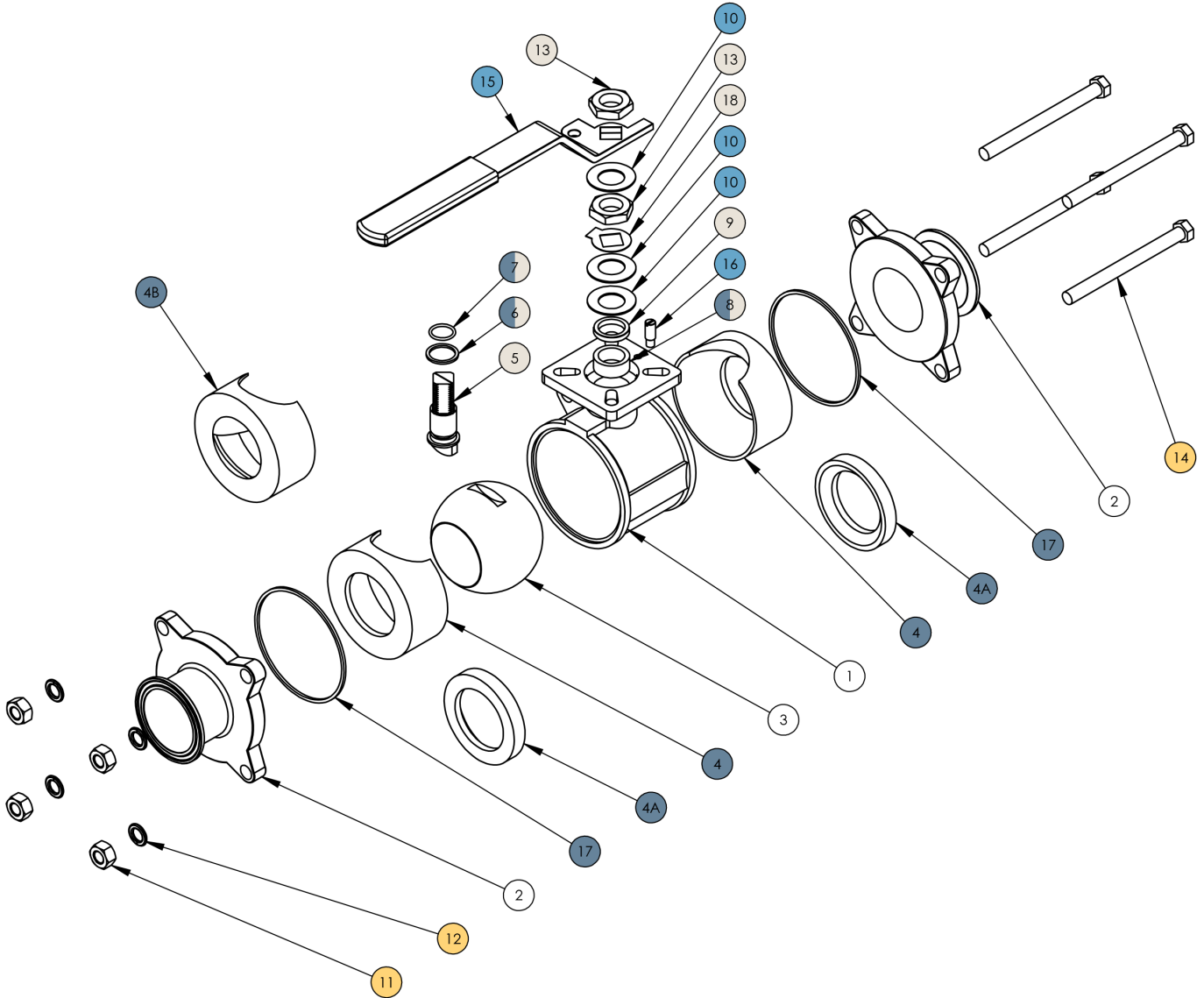
 Included in handle kit (pg 22)

 Included in stem kit (pg 22)

 Included in bolt and nut kit (pg 22)





















BV2-Series Ball Valve - Bill of Materials


1-1/2" to 2"





BV2-Series Ball Valve - Bill of Materials


1-1/2" to 2"

Item	BV2 Size	Part #	Description	Materials	Quantity
1	1/2"	BV-2C-1-150	body	CF8M	1
	3/4"	BV-2C-1-200	body	CF8M	1
2	1/2"	BV-2X-CE150	triclamp end	CF8M	2
	3/4"	BV-2X-CE200	triclamp end	CF8M	2
3	1/2"	BV-2X-BL150	ball	CF8M	1
	3/4"	BV-2X-BL200	ball	CF8M	1
4	all		encapsulated seat	see repair kits	2
4A	all		non-encapsulated seat	see repair kits	2
4B	all		v-port encapsulated seat	see repair kits	1
5	all		stem	316 SS	1
6	all	 	thrust washer	see repair kits	1
7	all	 	stem O-ring	FKM	1
8	all	 	stem packing	see repair kits	3
9	all		gland ring	316 SS	1
10	all		bevel washer	301 SS	3
11	all		hex nut	304 SS	4
12	all		lockwasher	304 SS	4
13	all		stem nut	304 SS	2
14	all		body bolt	304 SS	4
15	all		handle	304 SS / Vinyl	1
16	all		stop pin	316 SS	1
17	all		body seal	see repair kits	2
18	all		tab washer	304 SS	1

 Included in seat kit (pg 21-22)

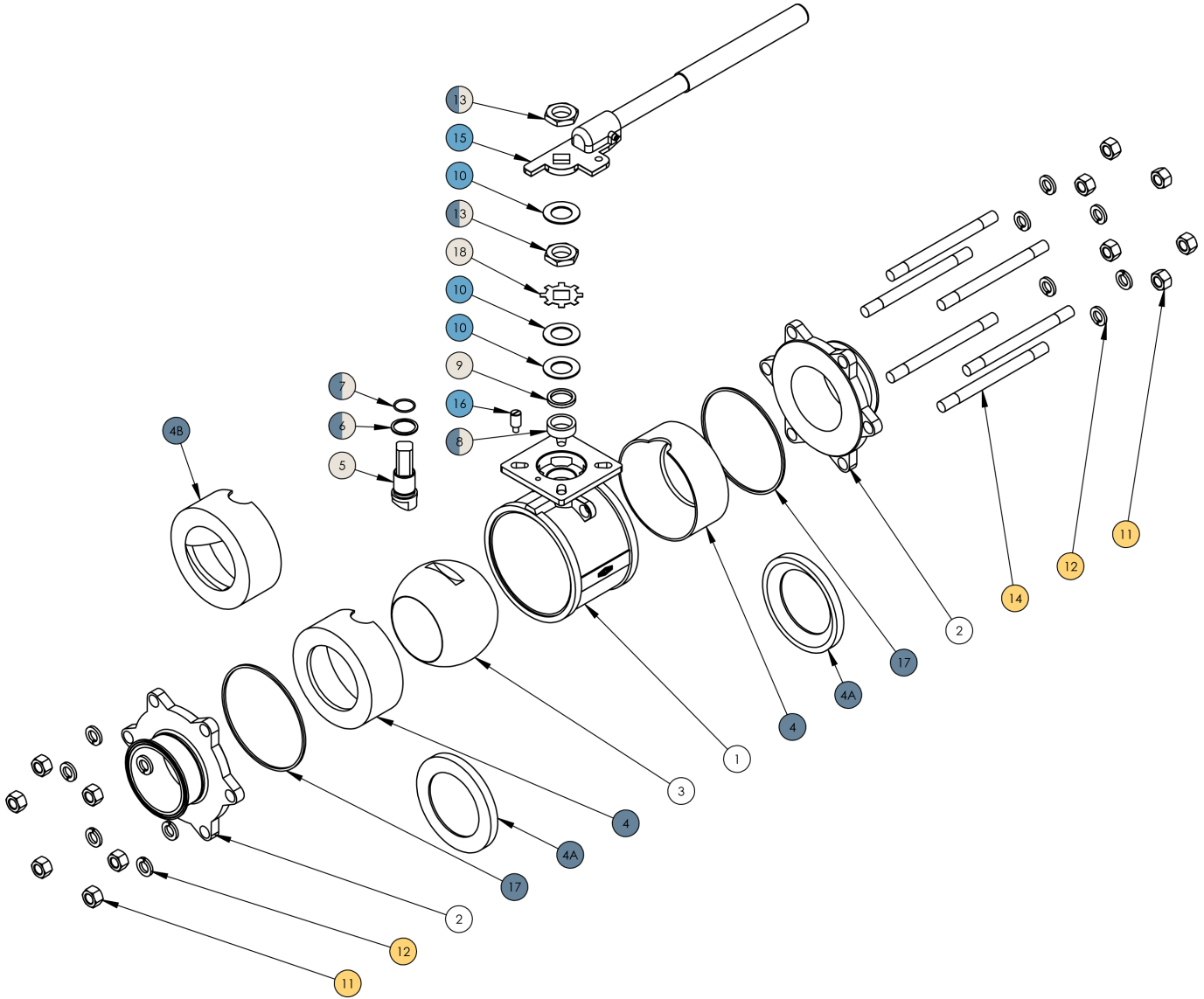
 Included in handle kit (pg 22)

 Included in stem kit (pg 22)

 Included in bolt and nut kit (pg 22)






















BV2-Series Ball Valve - Bill of Materials


2-1/2" to 4"





BV2-Series Ball Valve - Bill of Materials


2-1/2" to 4"

Item	BV2 Size	Part #	Description	Materials	Quantity		
					2-1/2"	3"	4"
1	2-1/2"	BV-2C-1-250	body	CF8M	1	1	1
	3"	BV-2C-1-300	body	CF8M	1	1	1
	4"	BV-2C-1-400	body	CF8M	1	1	1
2A	2-1/2"	BV-2X-CE250	triclamp end	CF8M	2	2	2
	3"	BV-2X-CE300	triclamp end	CF8M	2	2	2
	4"	BV-2X-CE400	triclamp end	CF8M	2	2	2
3	2-1/2"	BV-2X-BL250	ball	CF8M	1	1	1
	3"	BV-2X-BL300	ball	CF8M	1	1	1
	4"	BV-2X-BL400	ball	CF8M	1	1	1
4	all		encapsulated seat	see repair kit	2	2	2
4A	all		non-encapsulated seat	see repair kit	2	2	2
4B	all		v-port encapsulated seat	see repair kit	1*		
5	all		stem	316 SS	1	1	1
6	all	 	thrust washer	see repair kit	1	1	1
7	all	 	stem O-ring	FKM	1	1	1
8	all	 	stem packing	see repair kit	3	3	3
9	all		gland ring	316 SS	1	1	1
10	all		bevel washer	301 SS	3	3	3
11	all		hex nut	304 SS	4	8	12
12	all		lockwasher	304 SS	4	8	12
13	all	 	stem nut	304 SS	2	2	2
14	all		body bolt	304 SS	4	4	6
15	all		handle	304 SS/vinyl	1	1	1
16	all		stop pin	316 SS	1	1	1
17	all		body seal	see repair kit	2	2	2
18	all		tab washer	304 SS	1	1	1

 Included in seat kit (*V-port seat kits include (1) v-port seat and (1) encapsulated seat) (pg 21-22)

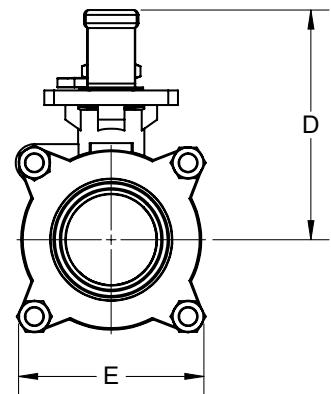
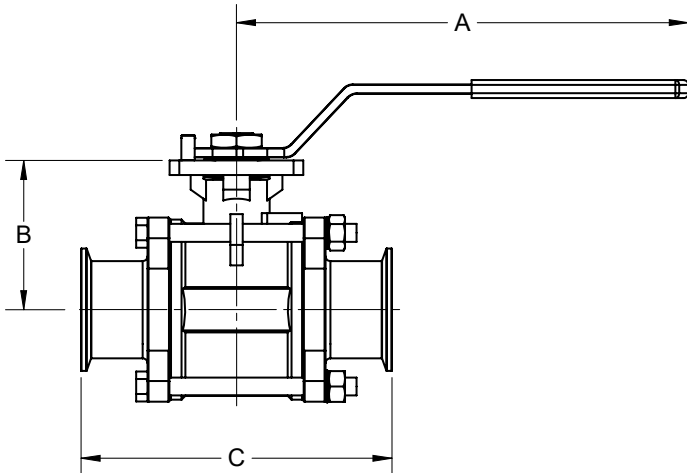
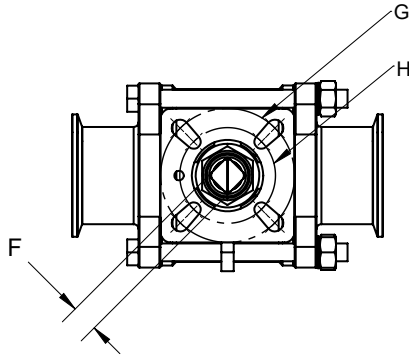
 Included in handle kit (pg 22)

 Included in stem kit (pg 22)

 Included in bolt and nut kit (pg 22)

BV2-Series Ball Valve - Dimensions

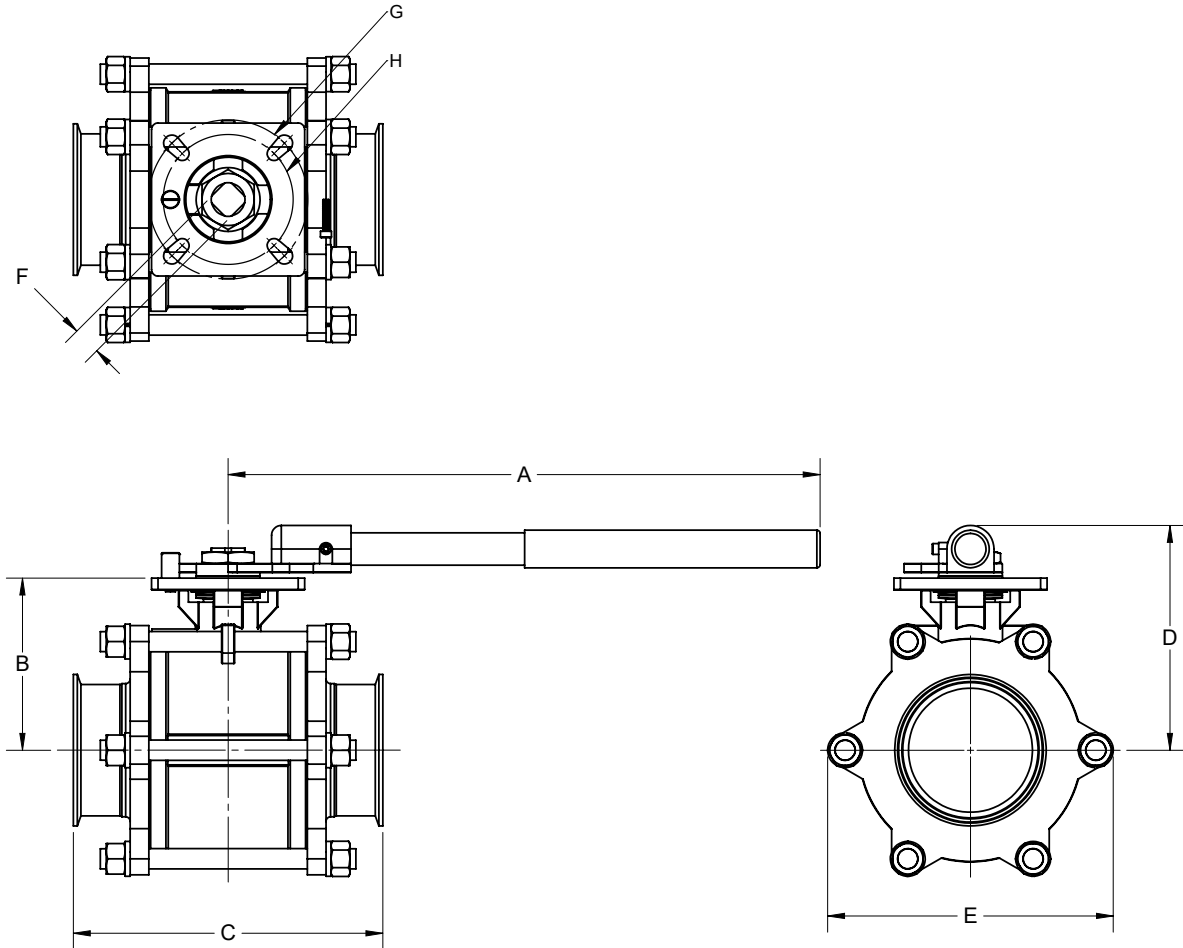
1/2" to 2"



Size	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (ISO 5211)	H (ISO 5211)
1/2"	4.9	1.5	4.3	3.1	2.0	9	F04	F03
3/4"	4.9	1.8	4.7	3.4	2.2	9	F04	F03
1"	5.5	2.1	4.9	3.6	2.4	11	F05	F04
1-1/2"	9.3	2.7	5.6	4.4	3.1	14	F07	F05
2"	9.5	3.1	6.4	4.7	3.7	14	F07	F05
2-1/2"	18.0	3.8	7.8	5.2	4.9	17	F10	F07
3"	18.0	4.2	9.0	5.7	5.4	17	F12	F10
4"	18.0	5.3	9.6	6.9	8.8	22	F12	F10

BV2-Series Ball Valve - Dimensions

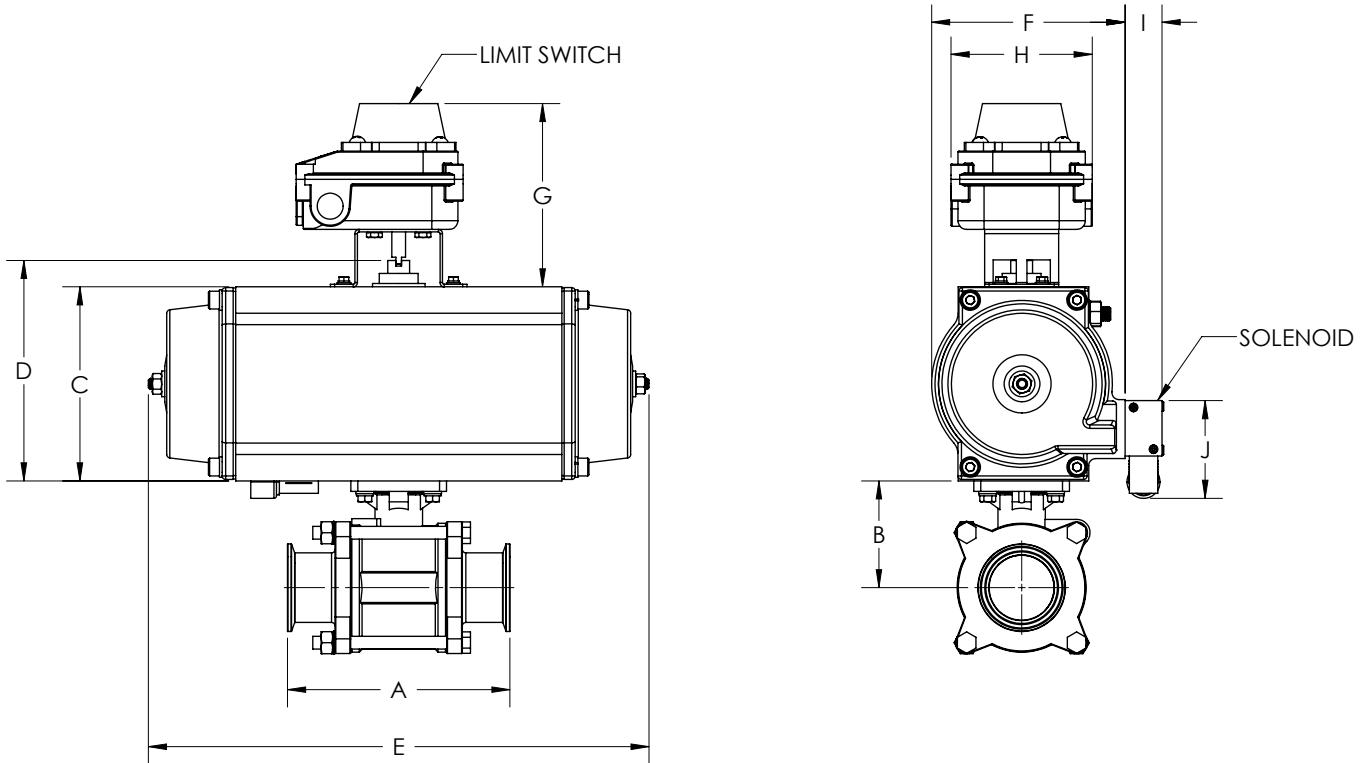
2-1/2" to 4"



Size	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (ISO 5211)	H (ISO 5211)
1/2"	4.9	1.5	4.3	3.1	2.0	9	F04	F03
3/4"	4.9	1.8	4.7	3.4	2.2	9	F04	F03
1"	5.5	2.1	4.9	3.6	2.4	11	F05	F04
1-1/2"	9.3	2.7	5.6	4.4	3.1	14	F07	F05
2"	9.5	3.1	6.4	4.7	3.7	14	F07	F05
2-1/2"	18.0	3.8	7.8	5.2	4.9	17	F10	F07
3"	18.0	4.2	9.0	5.7	5.4	17	F12	F10
4"	18.0	5.3	9.6	6.9	8.8	22	F12	F10

BV2-Series Ball Valve - Dimensions

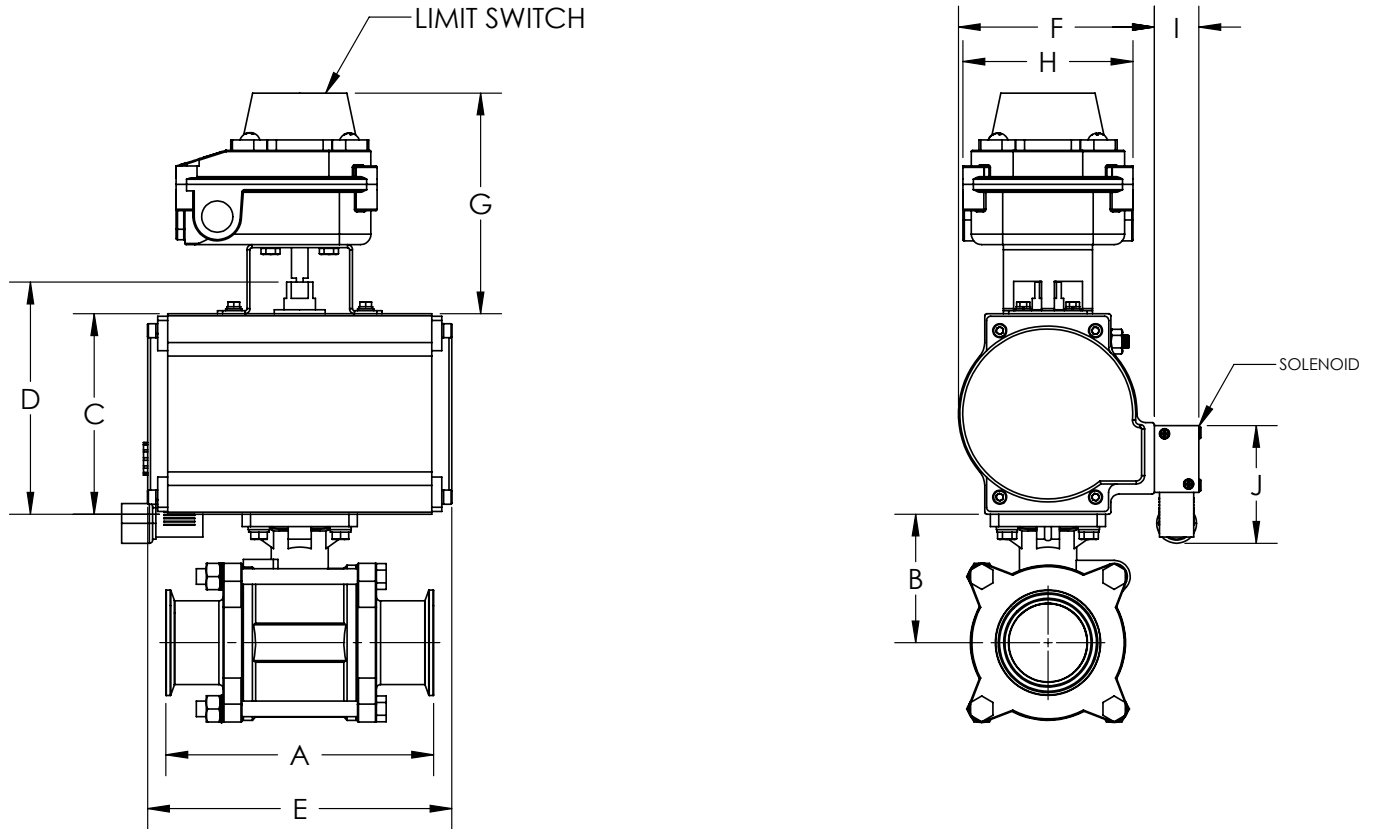
Spring Return



Size	A (in)	B (in)	RP-BA Series Actuator	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	J (in)
								XLS-B4 series	X series		
1/2"	4.3	1.5	RP-BA-025-SR	3.1	3.83	7.66	3.20	5.27	4.06	1.07	2.81
3/4"	4.7	1.8									
1"	4.9	2.1	RP-BA-025-SR05	3.1	3.83	7.66	3.20				
1-1/2"	5.6	2.7	RP-BA-045-SR	3.86	4.63	8.09	3.72				
2"	6.4	3.1	RP-BA-101-SR	4.79	5.54	9.84	4.68				
2-1/2"	7.8	3.8	RP-BA-225-SR	5.58	6.34	13.98	5.56				
3"	9.0	4.2	RP-BA-365-SR	6.94	7.72	16.61	7.25				
4"	9.6	5.3	RP-BA-500-SR	7.73	8.50	19.17	8.05				

BV2-Series Ball Valve - Dimensions

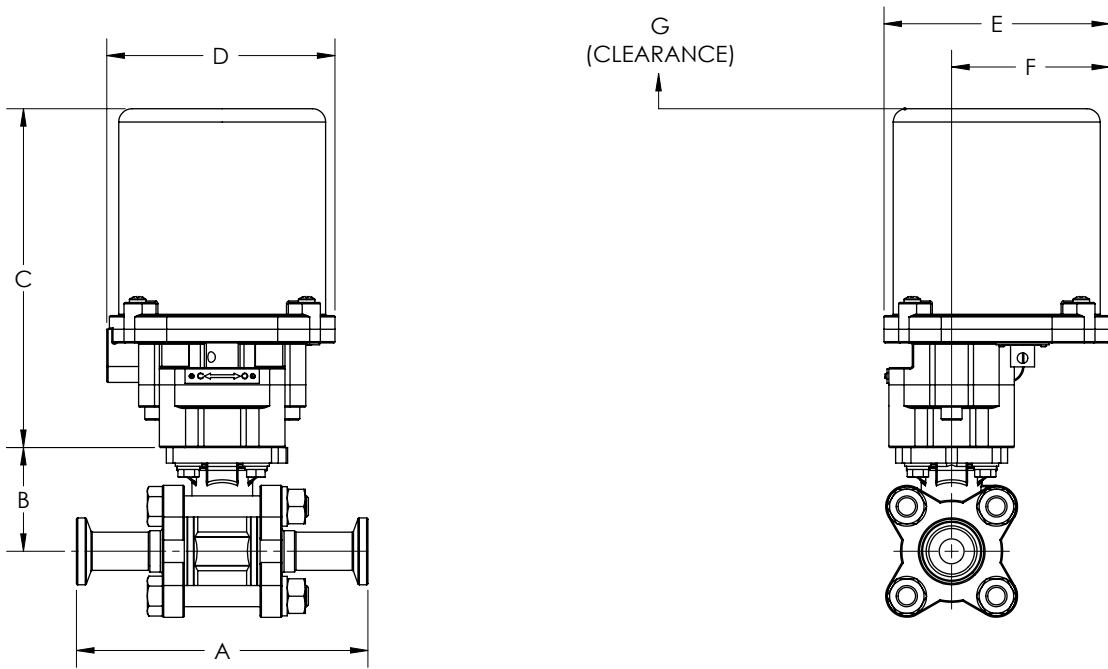
Double Acting



Size	A (in)	B (in)	RP-BA Series Actuator	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	J (in)
								XLS-B4 series		X series	
1/2"	4.3	1.5	RP-BA-012-DA	2.60	3.39	4.72	2.93	5.27	4.06	1.07	2.81
3/4"	4.7	1.8									
1"	4.9	2.1	RP-BA-025-DA05	3.10	3.87	5.68	3.20				
1-1/2"	5.6	2.7	RP-BA-045-DA	3.86	4.63	5.87	3.72				
2"	6.4	3.1									
2-1/2"	7.8	3.8	RP-BA-101-DA	4.79	5.54	7.20	4.77				
3"	9.0	4.2	RP-BA-225-DA	5.58	6.34	10.22	5.56				
4"	9.6	5.3									

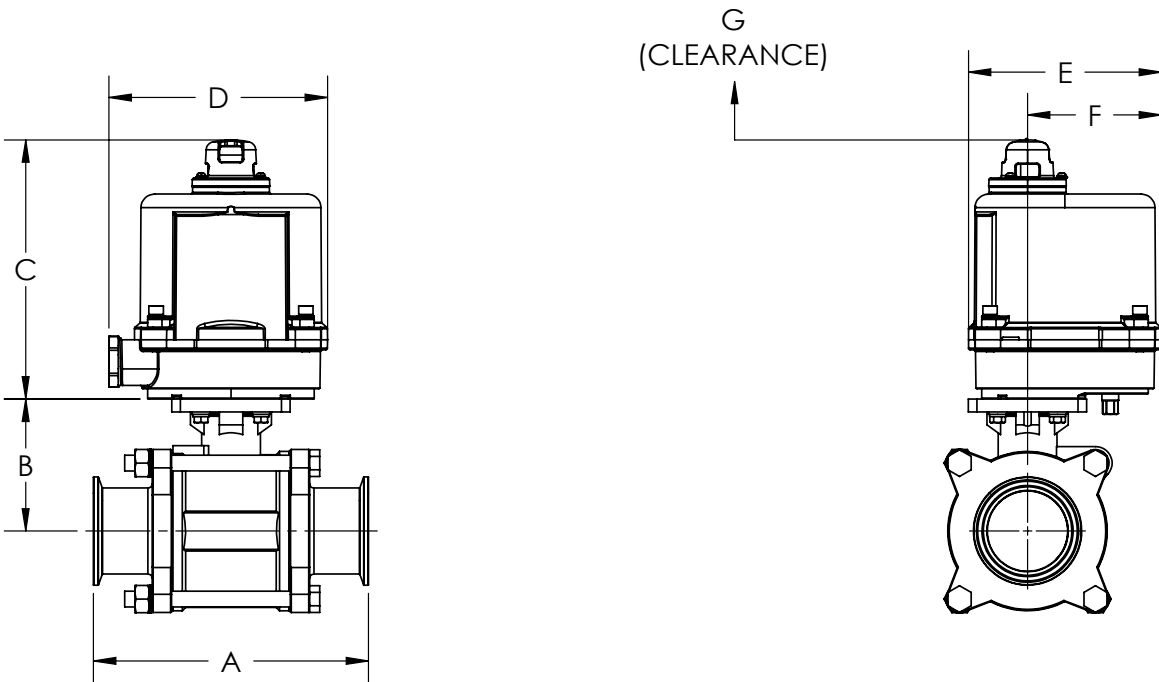
BV2-Series Ball Valve - Dimensions

Electric Actuator - BM-T



NOTE: The electric actuator shown is a BM-T model. For more information on actuation accessories see relevant EPRG for electric actuators.

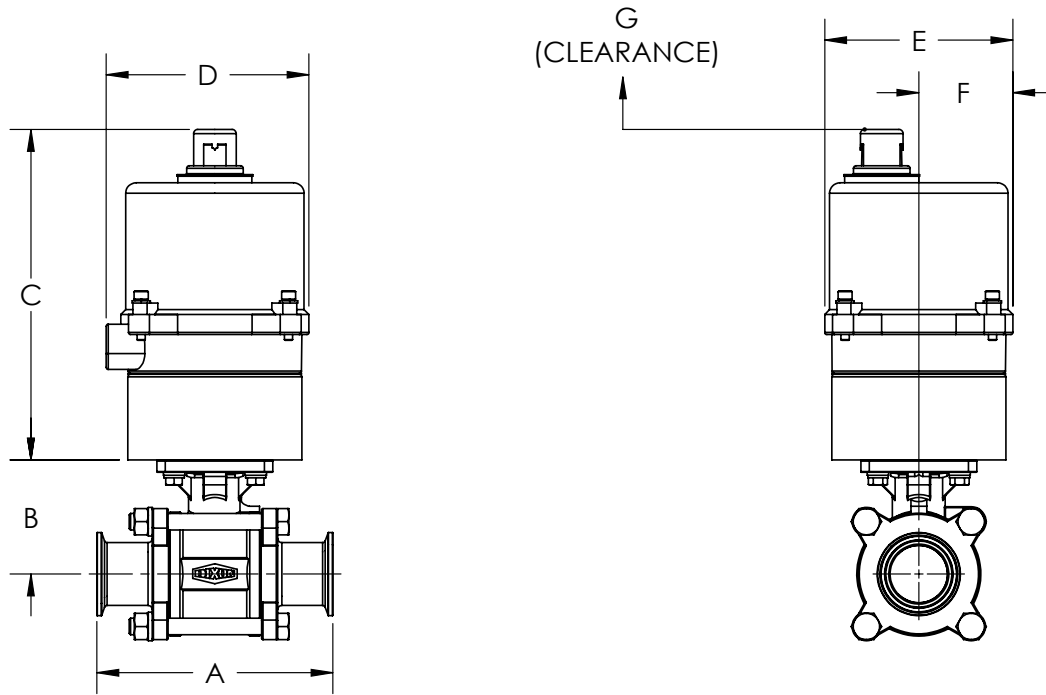
Electric Actuator - OM-1



NOTE: The electric actuator shown is a BEOM-1 model. For more information on actuation accessories, see relevant EPRG for electric actuators.

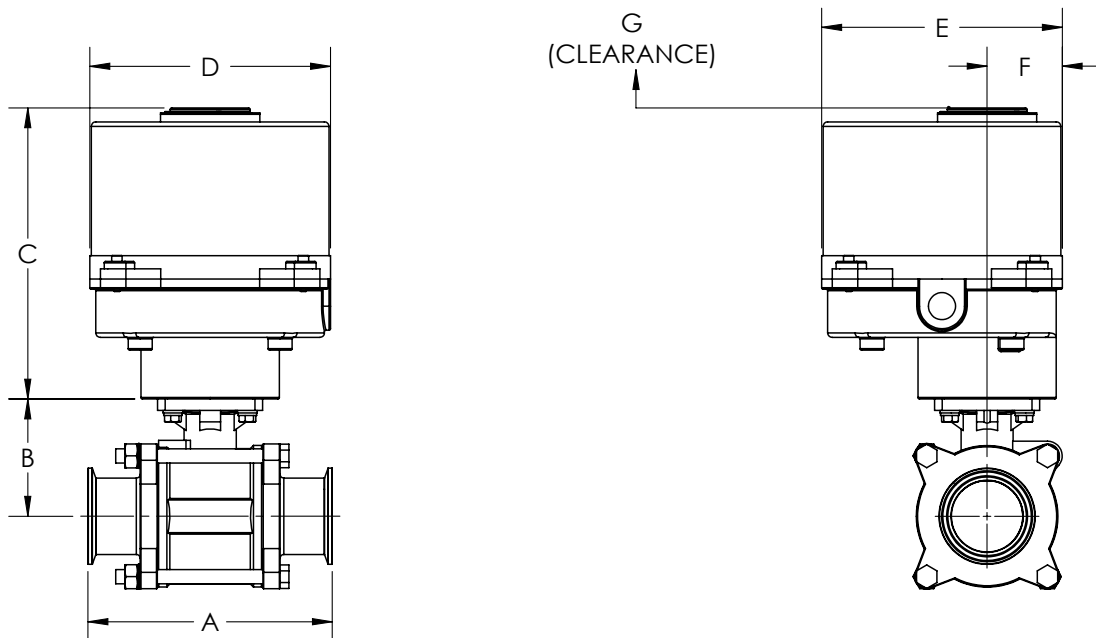
BV2-Series Ball Valve - Dimensions

Electric Actuator - OM-A



NOTE: The electric actuator shown is a BEOM-A model. For more information on actuation accessories see relevant EPRG for electric actuators.

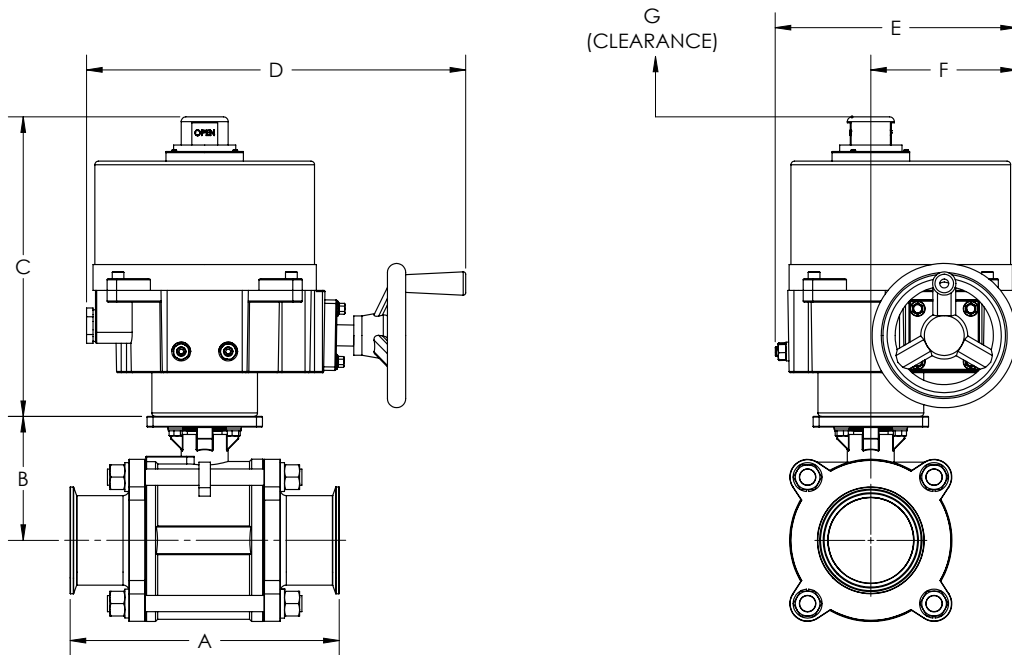
Electric Actuator - BM-2



NOTE: The electric actuator shown is a BM-2 model. For more information on actuation accessories, see relevant EPRG for electric actuators.

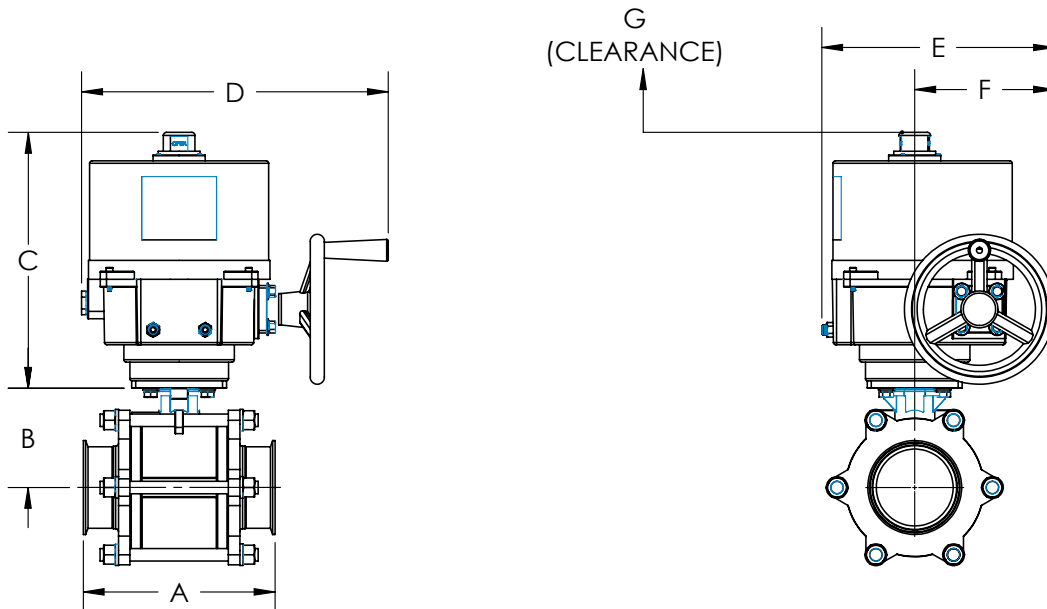
BV2-Series Ball Valve - Dimensions

Electric Actuator - OM-3



NOTE: The electric actuator shown is an OM-3 model. For more information on actuation accessories see relevant EPRG for electric actuators.

Electric Actuator - OM-4



NOTE: The electric actuator shown is an OM-4 model. For more information on actuation accessories, see relevant EPRG for electric actuators.

BV2-Series Ball Valve - Dimensions

Size	A (in)	B (in)	Electric Actuator Series	C (in)	D (in)	E (in)	F (in)	G (in)
1/2"	4.3	1.5	BM-T	4.96	3.43	3.35	2.34	3.35
3/4"	4.7	1.8						
1"	4.9	2.1	OM-1	6.02	4.80	4.49	3.11	4.72
1-1/2"	5.6	2.7	OM-A	7.83	4.80	4.49	2.24	4.72
2"	6.4	3.1	BM-2	7.68	6.34	6.30	4.33	4.72
2-1/2"	7.8	3.8	OM-3	10.55	12.84	7.13	4.84	6.50
3"	9.0	4.2						
4"	9.6	5.3	OM-4	12.99	15.43	11.58	7.24	8.07

Repair Kit Part Numbers



Encapsulated Seat Kit

Size	Material				
	Virgin PTFE	RTFE	25% Carbon PTFE	50% Stainless Steel PTFE	UHMW
1/2"	BV-2C-VK050	BV-2C-GK050	BV-2C-CK050	BV-2C-SK050	BV-2C-UK050
3/4"	BV-2C-VK075	BV-2C-GK075	BV-2C-CK075	BV-2C-SK075	BV-2C-UK075
1"	BV-2C-VK100	BV-2C-GK100	BV-2C-CK100	BV-2C-SK100	BV-2C-UK100
1-1/2"	BV-2C-VK150	BV-2C-GK150	BV-2C-CK150	BV-2C-SK150	BV-2C-UK150
2"	BV-2C-VK200	BV-2C-GK200	BV-2C-CK200	BV-2C-SK200	BV-2C-UK200
2-1/2"	BV-2C-VK250	BV-2C-GK250	BV-2C-CK250	BV-2C-SK250	BV-2C-UK250
3"	BV-2C-VK300	BV-2C-GK300	BV-2C-CK300	BV-2C-SK300	BV-2C-UK300
4"	BV-2C-VK400	BV-2C-GK400	BV-2C-CK400	BV-2C-SK400	BV-2C-UK400



Non-Encapsulated Seat Kit

Size	Material				
	Virgin PTFE	RTFE	25% Carbon PTFE	50% Stainless Steel PTFE	UHMW
1/2"	BV-2N-VK050	BV-2N-GK050	BV-2N-CK050	BV-2N-SK050	BV-2N-UK050
3/4"	BV-2N-VK075	BV-2N-GK075	BV-2N-CK075	BV-2N-SK075	BV-2N-UK075
1"	BV-2N-VK100	BV-2N-GK100	BV-2N-CK100	BV-2N-SK100	BV-2N-UK100
1-1/2"	BV-2N-VK150	BV-2N-GK150	BV-2N-CK150	BV-2N-SK150	BV-2N-UK150
2"	BV-2N-VK200	BV-2N-GK200	BV-2N-CK200	BV-2N-SK200	BV-2N-UK200
2-1/2"	BV-2N-VK250	BV-2N-GK250	BV-2N-CK250	BV-2N-SK250	BV-2N-UK250
3"	BV-2N-VK300	BV-2N-GK300	BV-2N-CK300	BV-2N-SK300	BV-2N-UK300
4"	BV-2N-VK400	BV-2N-GK400	BV-2N-CK400	BV-2N-SK400	BV-2N-UK400

Repair Kit Part Numbers



Encapsulated 60° V-Port Seat Kit

Size	Material				
	Virgin PTFE	RTFE	25% Carbon PTFE	50% Stainless Steel PTFE	UHMW
1/2"	BV-2L-VK050	BV-2L-GK050	BV-2L-CK050	BV-2L-SK050	BV-2L-UK050
3/4"	BV-2L-VK075	BV-2L-GK075	BV-2L-CK075	BV-2L-SK075	BV-2L-UK075
1"	BV-2L-VK100	BV-2L-GK100	BV-2L-CK100	BV-2L-SK100	BV-2L-UK100
1-1/2"	BV-2L-VK150	BV-2L-GK150	BV-2L-CK150	BV-2L-SK150	BV-2L-UK150
2"	BV-2L-VK200	BV-2L-GK200	BV-2L-CK200	BV-2L-SK200	BV-2L-UK200
2-1/2"	BV-2L-VK250	BV-2L-GK250	BV-2L-CK250	BV-2L-SK250	BV-2L-UK250
3"	BV-2L-VK300	BV-2L-GK300	BV-2L-CK300	BV-2L-SK300	BV-2L-UK300
4"	BV-2L-VK400	BV-2L-GK400	BV-2L-CK400	BV-2L-SK400	BV-2L-UK400



Encapsulated 30° V-Port Seat Kit

Size	Material				
	Virgin PTFE	RTFE	25% Carbon PTFE	50% Stainless Steel PTFE	UHMW
1/2"	BV-2M-VK050	BV-2M-GK050	BV-2M-CK050	BV-2M-SK050	BV-2M-UK050
3/4"	BV-2M-VK075	BV-2M-GK075	BV-2M-CK075	BV-2M-SK075	BV-2M-UK075
1"	BV-2M-VK100	BV-2M-GK100	BV-2M-CK100	BV-2M-SK100	BV-2M-UK100
1-1/2"	BV-2M-VK150	BV-2M-GK150	BV-2M-CK150	BV-2M-SK150	BV-2M-UK150
2"	BV-2M-VK200	BV-2M-GK200	BV-2M-CK200	BV-2M-SK200	BV-2M-UK200
2-1/2"	BV-2M-VK250	BV-2M-GK250	BV-2M-CK250	BV-2M-SK250	BV-2M-UK250
3"	BV-2M-VK300	BV-2M-GK300	BV-2M-CK300	BV-2M-SK300	BV-2M-UK300
4"	BV-2M-VK400	BV-2M-GK400	BV-2M-CK400	BV-2M-SK400	BV-2M-UK400



Handle Kits



Stem Kits (Virgin PTFE)

Size	Part Number
1/2"	BV-23-HA050-075
3/4"	
1"	BV-23-HA100
1-1/2"	BV-23-HA150-200
2"	
2-1/2"	BV-23-HA-17
3"	
4"	BV-23-HA-22

Size	Part Number
1/2"	BV-2X-SM050
3/4"	BV-2X-SM075
1"	BV-2X-SM100
1-1/2"	BV-2X-SM150
2"	BV-2X-SM200
2-1/2"	BV-2X-SM250
3"	BV-2X-SM300
4"	BV-2X-SM400



Bolt and Nut Kits

Size	Part Number
1/2"	BV-2X-BN050
3/4"	BV-2X-BN075
1"	BV-2X-BN100
1-1/2"	BV-2X-BN150
2"	BV-2X-BN200
2-1/2"	BV-2X-BN250
3"	BV-2X-BN300
4"	BV-2X-BN400

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