

Electric Control Ball Valve



Designed for HVAC flow control of chilled/hot water, steam, or up to 50% ethylene glycol solution.

FEATURES:

- Equal-percentage flow characteristic
- On/Off, floating, and modulating control options
- Nominal pressure:

Brass threaded ball valve: PN20

Cast-iron flanged ball valve: PN16

Stainless-steel threaded ball valve: PN40

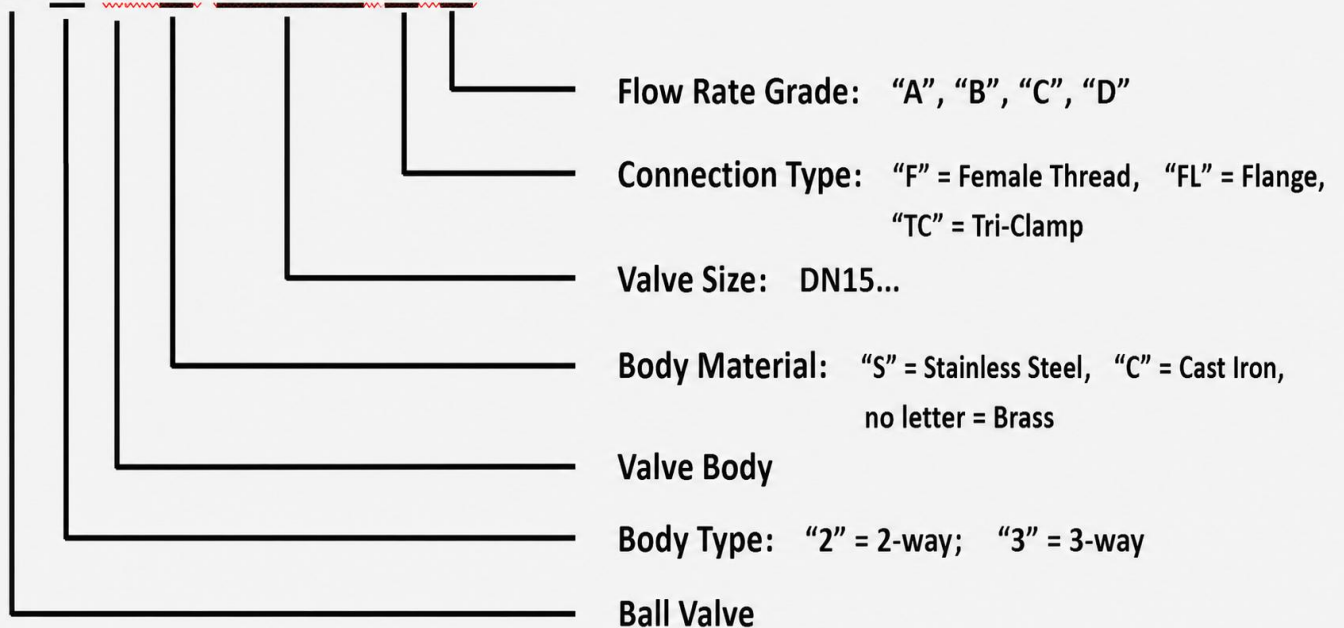
Stainless-steel clamp ball valve: PN16

Stainless-steel flanged ball valve: PN16



Product Code Description:

B X V-X-DNXX-X-X



Electric Control Ball Valve

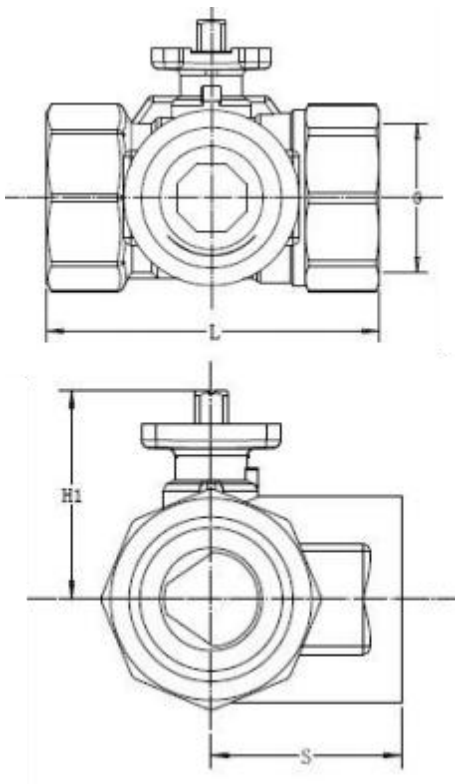
Brass Threaded Ball Valve Torque Table

Valve Size	DN15	DN20	DN25	DN32	DN40	DN50
Compatible Torque	5Nm				10Nm	



Brass Threaded Ball Valve Specifications

Model	DN	(A-B)Way KV (m³/h)	Bypass KV (m³/h)	Rot. Angle	Max. ΔP	2-Way (Kg)	3-Way (Kg)
B2 (3)V-DN15-F-A	15	2.5	2.5	0-90°	0.35 Mpa	0.2	0.25
B2 (3)V-DN15-F-B		4.0	4.0				
B2 (3)V-DN15-F-C		6.3	6.3				
B2 (3)V-DN15-F-D		10	10				
B2 (3)V-DN20-F-A	20	4.0	4.0			0.35	0.4
B2 (3)V-DN20-F-B		6.3	6.3				
B2 (3)V-DN20-F-C		10	10				
B2 (3)V-DN25-F-A	25	10	10			0.55	0.7
B2 (3)V-DN25-F-B		16	16				
B2 (3)V-DN32-F-A	32	16	16			0.85	1.10
B2 (3)V-DN32-F-B		25	25				
B2 (3)V-DN40-F-A	40	25	25			1.2	1.4
B2 (3)V-DN40-F-B		40	40				
B2 (3)V-DN50-F-A	50	40	40			1.95	2.20
B2 (3)V-DN50-F-B		63	63				



Brass Threaded Ball Valve Dimensions (mm)

Model	G	H1(mm)	L (mm)	S (mm)
B2V-DN15-F	G1/2	37.5	60	---
B2V-DN20-F	G3/4	44	73	---
B2V-DN25-F	G1	47	89	---
B2V-DN32-F	G1-1/4	52.5	102.5	---
B2V-DN40-F	G1-1/2	57	113	---
B2V-DN50-F	G2	62	127.5	---
B3V-DN15-F	G1/2	39	60	30.5
B3V-DN20-F	G3/4	44	66	32
B3V-DN25-F	G1	47	89	46.5
B3V-DN32-F	G1-1/4	52.5	98.5	49
B3V-DN40-F	G1-1/2	57	106	52
B3V-DN50-F	G2	62	123	69

Note: BSPP parallel pipe thread connection.

Electric Control Ball Valve



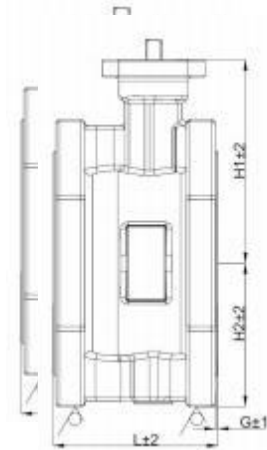
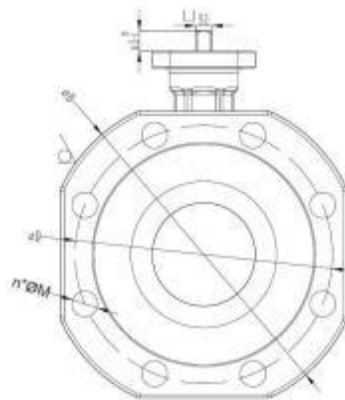
Cast-Iron Flanged Ball Valve Torque Table

Valve Size	DN40	DN50	DN65	DN80	DN100	DN125
Compatible Torque	10Nm		20Nm		40Nm	

Cast-Iron Flanged Ball Valve Specifications

Model	DN	(A-B)Way KV (m³/h)	Rot. Angle	Max. ΔP	2-Way (Kg)
B2V-C-DN40-FL	40	40	0-90 °	0.35Mpa	4.7
B2V-C-DN50-FL	50	49			5.7
B2V-C-DN65-FL	65	61			7
B2V-C-DN80-FL	80	100			9.1
B2V-C-DN100-FL	100	160			12.9
B2V-C-DN125-FL	125	200			18

Cast-Iron Flanged Ball Valve Dimensions (mm)



Model	φD(mm)	L (mm)	φB (mm)	H1 (mm)	H2(mm)	n-d
B2V-C-DN40-FL	110	90	150	100	62	4-18
B2V-C-DN50-FL	125	90	165	111	67	4-18
B2V-C-DN65-FL	145	90	185	121	78	4-18
B2V-C-DN80-FL	160	98	200	132	91	8-18
B2V-C-DN100-FL	180	115	220	143	100	8-18
B2V-C-DN125-FL	210	134	250	160	117	8-18

Caution: Do not insert fingers into an open valve; closing may cause injury.

Electric Control Ball Valve

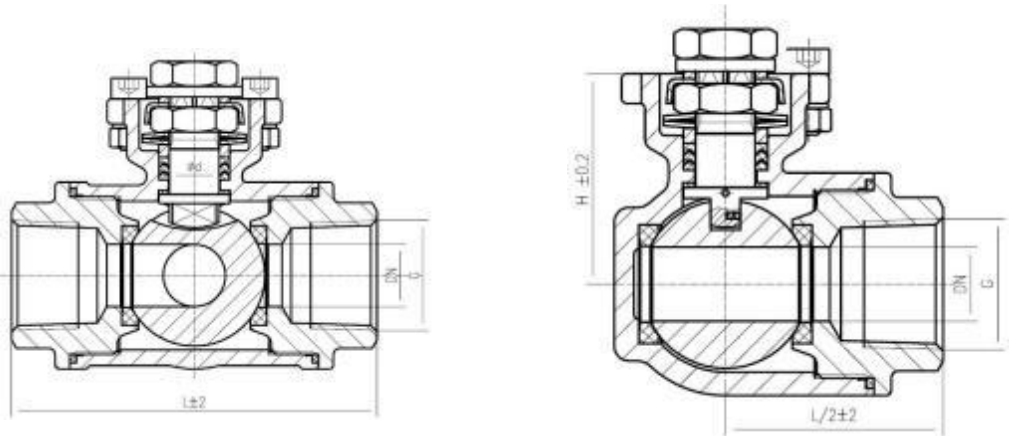
Threaded Stainless-Steel Valve Torque Table

Valve Size	DN15	DN20	DN25	DN32	DN40	DN50
Compatible Torque (2-Way)	5Nm	5Nm	10Nm	20Nm	30Nm	40Nm
Compatible Torque (3-Way)	10Nm	20Nm	20Nm	30Nm	40Nm	---

Threaded Stainless-Steel Valve Specifications

Model	DN	(A-B)Way KV (m ³ /h)	Bypass KV (m ³ /h)	Rot. Angle	Max. ΔP	2-Way (Kg)	3-Way (Kg)
B2 (3)V-S-DN15-F	15	2.5	2.5	0-90°	0.35 Mpa	0.23	0.35
B2 (3)V-S-DN20-F	20	4.0	4.0			0.28	0.42
B2 (3)V-S-DN25-F	25	10	10			0.4	0.6
B2 (3)V-S-DN32-F	32	16	16			0.6	1.0
B2 (3)V-S-DN40-F	40	25	25			0.93	1.4
B2V-S-DN50-F	50	40	---			1.3	---

Threaded Stainless-Steel Valve Dimensions (mm)



Model	G	DN(mm)	H (mm)	L (mm)
B2 (3)V-S-DN15-F	G1/2	12	43	74
B2 (3)V-S-DN20-F	G3/4	15	45	86
B2 (3)V-S-DN25-F	G1	20	56	98
B2 (3)V-S-DN32-F	G1-1/4	25	62	118
B2 (3)V-S-DN40-F	G1-1/2	32	74	130
B2V-S-DN50-F	G2	38	78	148

Note: NPT, BSPP, BSPT, BSPF and DIN 2999 threads are available.

Electric Control Ball Valve



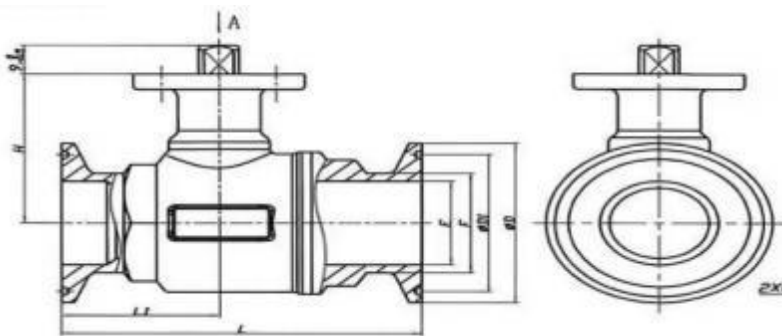
Clamp Stainless-Steel Valve Torque Table

Valve Size	DN15~DN40	DN50~DN65	DN80~DN100
Compatible Torque	5Nm	10Nm	20Nm

Clamp Stainless-Steel Valve Specifications

Model	DN	(A-B)Way KV (m ³ /h)	Rot. Angle	Max. ΔP	2-Way (Kg)
B2V-S-DN15-TC	15	6.3	0-90 °	0.35Mpa	0.23
B2V-S-DN20-TC	20	10			0.32
B2V-S-DN25-TC	25	16			0.48
B2V-S-DN32-TC	32	25			0.52
B2V-S-DN40-TC	40	40			0.82
B2V-S-DN50-TC	50	63			0.99
B2V-S-DN65-TC	65	80			1.55
B2V-S-DN80-TC	80	100			2.07
B2V-S-DN100-TC	100	160			3.2

Clamp Stainless-Steel Valve Dimensions (mm)



Model	L (mm)	L1 (mm)	H (mm)	φD (mm)	φD1 (mm)	φF (mm)	φE (mm)
B2V-S-DN15-TC	80	41	30	34	27.5	21.2	17.7
B2V-S-DN20-TC	80	42	34	34	37.5	22	18
B2V-S-DN25-TC	80	41.5	38	50.5	43.5	29.3	24
B2V-S-DN32-TC	80	40.5	42.6	50.5	43.5	34.3	29.4
B2V-S-DN40-TC	105	54	48.3	50.5	43.5	32.4	27.4
B2V-S-DN50-TC	108	58.5	53	64	56.5	45	40
B2V-S-DN65-TC	124	63.2	63.7	77.5	70.5	50	44
B2V-S-DN80-TC	125	65	74.2	91	83.5	65	58
B2V-S-DN100-TC	135	72.6	83.7	106	97	80	73

Electric Control Ball Valve

Flanged Stainless-Steel Valve Torque Table

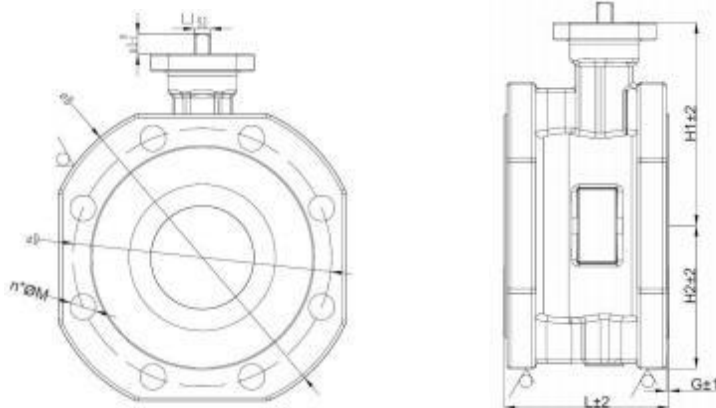


Valve Size	DN40~DN50	DN65~DN80	DN100~DN125
Compatible Torque	10Nm	20Nm	40Nm

Flanged Stainless-Steel Valve Specifications

Model	DN	(A-B)Way KV (m ³ /h)	Rot. Angle	Max. ΔP	2-Way (Kg)
B2V-S-DN40-FL	40	40	0-90°	0.35Mpa	4.5
B2V-S-DN50-FL	50	49			5.5
B2V-S-DN65-FL	65	61			7.3
B2V-S-DN80-FL	80	100			10.3
B2V-S-DN100-FL	100	160			13
B2V-S-DN125-FL	125	200			17.6

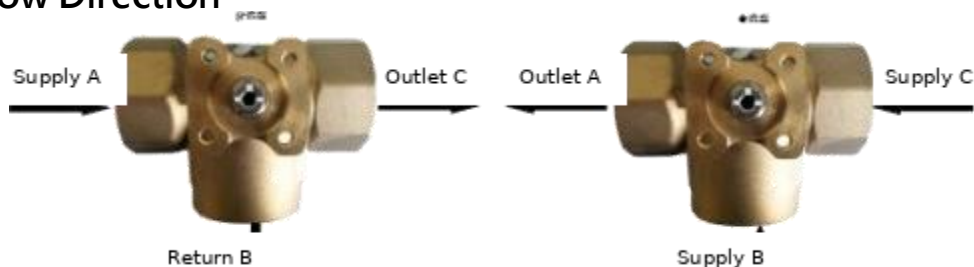
Flanged Stainless-Steel Valve Dimensions (mm)



Model	φD (mm)	L (mm)	φB (mm)	H1 (mm)	H2 (mm)	n-d
B2V-S-DN40-FL	110	90	150	100	62	4-18
B2V-S-DN50-FL	125	90	165	111	67	4-18
B2V-S-DN65-FL	145	90	185	121	78	4-18
B2V-S-DN80-FL	160	98	200	132	91	8-18
B2V-S-DN100-FL	180	115	220	143	100	8-18
B2V-S-DN125-FL	210	134	250	160	117	8-18

Electric Control Ball Valve

Flow Direction



Threaded Ball Valve Installation

Step 1



Step 2



Step 3



Step 4



Flanged Ball Valve Installation

Step 1



Step 2



Step 3



Step 4



1. Trained/experienced personnel only. Disconnect power and install the actuator as instructed.
2. Contains electrical/electronic parts. Do not discard as general waste; follow local regulations.