

Ball Valves

One-Touch Couplings

Union Straight - Single Handle

BVUS

RoHS 10

Straight - Single Handle

BVCS

RoHS 10

Elbows - Single Handle

BVCE

RoHS 10

Union Straight - Double Handle

BVUSB

RoHS 10

Straight - Double Handle

BVCSB

RoHS 10

Elbows - Double Handle

BVCEB

RoHS 10

Part Number Type	D	B1	B2	C1	C2	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30
BVUS	4	36.9	20.3	10.9	11	3.4	13		
	6	40.1	23.1	11.7	11.6	10.3	13		

Part Number Type	D	B1	L1	C	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30
BVCS	4	40.6	36.6	11	3.8	15		
	6	41	37	11.6	10.5	15		

Part Number Type	D	C	E1	E2	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30
BVCE	4	10.9	36.8	21.8	4	21		
	6	11.7	39.6	24.6	8	21		

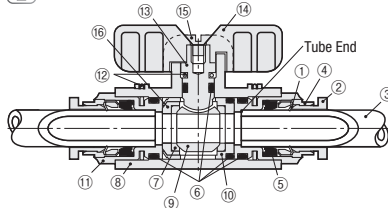
Part Number Type	D	B1	B2	P	C	E	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30
BVUSB	6	53.9	27	17	17	31.4	10.5	45		
	8	55.4	27.7	17	18.2	31.4	20.5	41		
	10	65.4	32.7	24	20.7	37.8	41	104		
	12	68.6	34.3	24	23.3	37.8	55.5	100		

Part Number Type	D	Nominal	R	A	B	L1	L2	P	C	E1	E2	Width Across H	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30
BVCSB	6	1	1/8	8	59	55	28	17	17	31.4	17	12.5	56	59		
		2	1/4	11	62	55.9	29	17	17	31.4	17	12.5	56	59		
	8	1	1/8	8	59.7	55.7	28	17	18.2	31.4	17	22	54	57		
		2	1/4	11	62.7	56.7	29	17	18.2	31.4	17	23	57	57		
	10	2	1/4	11	73.7	67.7	35	24	20.7	37.8	24	39.5	131	134		
		3	3/8	12	74.7	68.4	35.7	24	20.7	37.8	24	41	134	134		

Part Number Type	D	Nominal	R	A	B	L1	L2	P	C	E1	E2	Width Across H	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30
BVCEB	6	1	1/8	8	54.2	50.2	28	17	17	37	27	17	11.5	57		
		2	1/4	11	57.2	51.2	29	17	17	37	27	17	11.5	60		
	8	1	1/8	8	54.2	50.2	28	17	18.2	37.7	27.7	17	17.5	54		
		2	1/4	11	57.2	51.2	29	17	18.2	37.7	27.7	17	18.5	58		
	10	2	1/4	11	68.7	62.7	37.5	24	20.7	44.7	32.7	24	35.5	134		
		3	3/8	12	69.7	63.4	38.2	24	20.7	44.7	32.7	24	36	136		

Ordering Example
 Part Number - Nominal
BVUS6 - 2
BVCSB6 - 2

Structure Diagram



No.	Name of Parts	Material
①	Lock Pawl	Stainless Steel
②	Release Ring	POM / Polyacetal
③	Tube	Polyurethane or Nylon
④	Guide Ring	Brass (Electroless Nickel Plating)
⑤	Elastic Sleeve	NBR, Nitrile Rubber
⑥	O-Rings	NBR, Nitrile Rubber
⑦	Ball Seal	Teflon Resin
⑧	Resin Body	Single Handle Type: PBT, Polybutylene Terephthalate Double Handle Type: PPS, Polyphenylene Sulfide
⑨	Ball	Brass (Electroless Nickel Plating)
⑩	Ball Holder	Brass (Electroless Nickel Plating)
⑪	Coupling Metal Body	Brass (Electroless Nickel Plating)
⑫	Lock Pin	Stainless Steel
⑬	Stem	Brass (Electroless Nickel Plating)
⑭	Handle	POM / Polyacetal
⑮	Flat Pan-Head Screw	Steel
⑯	Ball Holder	Brass (Electroless Nickel Plating)

Features

- Single handle type has a scale on lever and is able to control the flow.
- Double handle type is possible to flow water.

Specifications

Type	Single Handle	Double Handle
Applicable Fluid	Air	Air, Water (*)
Operating Temperature Range	0 ~ 60°C (No Freezing)	
Operating Pressure Range	0 ~ 0.7MPa	0 ~ 0.9MPa
Operating Vacuum Level	-100kPa	

- * Observe following conditions when water is the applicable fluid.
1. Operating Pressure: 0 ~ 0.3MPa
 2. No water hammer (impulsive flow)
 3. Attach Insert for Soft Tubes (P1390) to plumbing tube.

Check Valves

Check Valves

BVCVP

RoHS 10

Part Number Type	Tube O.D. (mm) D	Nominal Selection	Flow Direction	Thread Size T	A	B	L	P	H (Wrench Flats)	X	Y	Effective Sectional Area (mm ²)	Mass (g)	Unit Price 1-9 pc(s).	Volume Discount Rate 10-30	
BVCVP	4	M5	A	M5x0.8	3	24.2	21.2	9	8	9.8	7.8	2.6	4.3			
		1	B	R1 / 8	8	23.9	19.9	9	10			2.7	7.7			
		4	-	-	-	31.5	-	9	-			2.9	3.7			
		1	A	R1 / 8	8	30.5	26.5	11	10			7.2	9.0			
		2	B	R1 / 4	11	27.8	21.8	11	14			7.3	16.1			
		6	-	-	-	34	-	11	-			7.5	5.4			
	6	8	1	A	R1 / 8	8	35.5	31.5	14	14	-	-	7.3	19.3		
			2	B	R1 / 4	11	39.5	33.5	14	14			14.5	21.7		
			8	-	-	-	47.3	-	15	-			15.5	13.0		

Name of Parts	Material	Surface Treatment
Resin Body	PBT	-
O-Rings	NBR	-
Valve Body	POM	-
Valve Retainer	POM	-
Valve Gasket	NBR	-
Release Ring	POM	-
Guide Ring	Brass	Electroless Nickel Plating
Spring	Stainless Steel	-
Elastic Sleeve	NBR	-
Metal Part	Brass	Electroless Nickel Plating

Features

- Capable of maintaining OUT pressure unchanged to prevent a back flow of air.
- Suitable for holding vacuum and for low-pressure plumbing.
- Lightweight due to resin material.

Specifications

Applicable Fluid	Air
Operating Pressure Range	0.1 ~ 0.9MPa
Min. Operating Pressure*	0.01MPa
Operating Temperature Range	0 ~ 60°C (No Freezing)
Minimum reverse differential pressure	0.04MPa

*The minimum differential pressure is the initial pressure on the secondary (OUT) side when air flows from the free flow side.

Ordering Example
 Part Number - Nominal - Flow Direction
BVCVP4 - M5 - B
BVCVP6 - 6 - B