

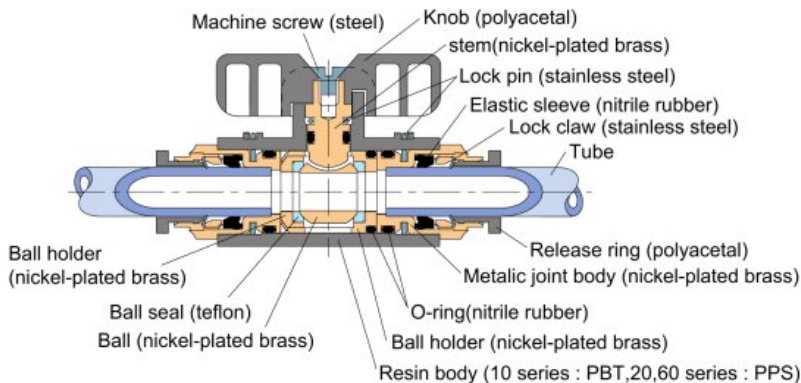


# Ball Valve - shut-off valve

## Characteristics

- The Ball Valve turns on and off the air pressure to pneumatic equipment.
- It provides effective sectional area appropriate to the tube size.
- The graduations on the lever enables rough adjustments of flow rate (10 series).
- Water can be passed because of PPS used for the body resin (20, 60 series).

## Construction



## Specification

Series	10 Series	20 Series	60 Series
Fluid admitted	Air	Air, water (conditional)	
Service pressure range	0~102psi(0~0.7MPa)	0~130psi(0~0.9MPa)	
Working vacuum	-29.5in. Hg (-100KPa)		
Service temperature range	32~140°F (0~60°C)		
Effective cross-sectional area	10mm <sup>2</sup> (0.542Cv)	20mm <sup>2</sup> (1.084Cv)	60mm <sup>2</sup> (3.252Cv)

### Warning

- \*Conditions of Water (when used)
1. Operating temperature : 32~140°F(0~60°C)
  2. Operating pressure : 0~43.5psi(0~0.3MPa)
  3. No water hammer is allowed.
  4. Be sure to install the insert ring.

## Model Designation (Example)

Model Designation Example: **BVC** (1) **20** (2) **N1** (3) **1/8** (4) **U** (5)

(1) Type  
 BVC, BVLC, BVU  
 BVLU, BVG, BVM  
 BVLG, BVLM

(2) Effective cross-sectional area

Code	No code	20	60
Effective cross-sectional area	10mm <sup>2</sup>	20mm <sup>2</sup>	60mm <sup>2</sup>

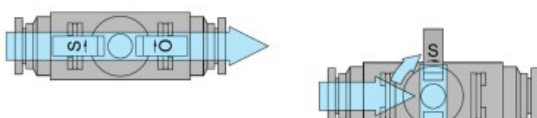
(3) Port size

Port size	tube dia (mm)					in. size					Taper pipe thread				American standard Taper pipe thread				
Code	04	06	08	10	12	1/8	5/32	1/4	5/16	3/8	1/2	01	02	03	04	N1	N2	N3	N4
Size	φ4	φ6	φ8	φ10	φ12	φ1/8	φ5/32	φ1/4	φ5/16	φ3/8	φ1/2	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2
Port size	Tube dia (mm)					in. size					Taper pipe thread				American standard Taper pipe thread				
Code	04	06	08	10	12	1/8	5/32	1/4	5/16	3/8	1/2	01	02	03	04	N1	N2	N3	N4
Size	φ4	φ6	φ8	φ10	φ12	φ1/8	φ5/32	φ1/4	φ5/16	φ3/8	φ1/2	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(4) Port size

Port size	Tube dia (mm)					in. size				
Code	04	06	08	10	12	1/8	5/32	1/4	5/16	
Size	φ4	φ6	φ8	φ10	φ12	φ1/8	φ5/32	φ1/4	φ5/16	
in. size	Taper pipe thread				American standard Taper pipe thread					
3/8	1/2	01	02	03	04	N1	N2	N3	N4	
φ3/8	φ1/2	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2	

(5) Hexagon flat-to-flat specification  
 U: Hexagon flat-to-flat inch spec. (NPT)  
 No code: Hexagon flat-to-flat mm spec.



- Either of the ports can be an air inlet port. Turn the lever in O direction and air flows. Turn the lever to the end stop in S direction and air stops.

