

Push-In Fitting Type Shut-off Valve (2 port valve)

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)



(1) Ball Valve

(2) Type

Code	C	LC	U	LU	G	LG	M	LM
Type	Straight	Elbow	Union Straight	Union Elbow	Unequal dia. Union Straight	Unequal dia. Union Elbow	Bulkhead Union Straight	Bulkhead Union Elbow

(3) Effective sectional area (Series)

Code	No code	20	60
Effective sectional area (mm ²)	10	20	60

(4) Port 1 size (øD, øD₁, R)

■ Tube dia.

Code	mm size (mm)						inch size (inch)					
	10 Series	3	4	6			1/8	5/32				
	20 and 60 series			06	08	10	12			1/4	5/16	3/8
Tube O.D.	ø3	ø4	ø6	ø8	ø10	ø12	ø1/8	ø5/32	ø1/4	ø5/16	ø3/8	ø1/2

■ Thread size

Code	Taper pipe thread				National pipe thread tapered			
	01	02	03	04	N1	N2	N3	N4
Thread size	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(5) Port 2 size (øD₂, R)

■ See (4) for the Tube dia. and thread size.

* For 10 series and inch size, please enter a hyphen "-" before Port 2 size.

(6) Wrench size specification

Code	No code	U
Wrench size spec.	mm size	inch size

Model Designation of accessories for 20 and 60 Series



(1) Ball Valve

(2) Type

Code	UH	LCP	LO
Type	mounting bracket for Union type	Co-rotating stopper for Elbow type	Lockout

(3) Applicable series (No entry for Lockout.)

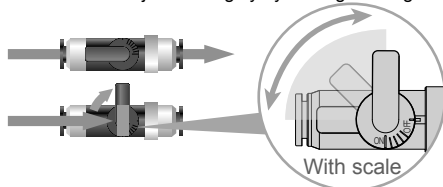
Code	20	60
Series	20 Series	60 Series

Characteristics

● Mini (10) series

■ Lever with scale allows for rough flow rate adjustment.

The flow rate can be adjusted roughly by turning the angle of the lever.



■ There is only little flow loss thanks to the large orifice diameter.

● Optional for 20 and 60 Series

■ Adding optional items will make it even more convenient.

Environmentally friendly recycled materials are used.

● Mounting bracket for Union type

The valve is fixed to improve the stability of handle operation.
Piping is stable and work efficiency is improved.



● Co-rotating stopper for Elbow type

Prevents co-rotation when the body rotates in conjunction with the handle.
Piping position can be adjusted every 15°



Good



Not good

● Lockout

Prevents erroneous operations by workers
It can be installed on the valve handle regardless of the handle position.
The handle position can be visually recognized through semi-transparent lockout cover.



Lock with a padlock or cable ties (*).

* Please prepare by yourself.
Padlock shackle diameter:
4.5 mm or less.

Ball Valve

Specifications

Series	10	20	60
Fluid medium	Air	Air, water (conditional*)	
Max. operating pressure	0.7 MPa	0.9 MPa	
Max. vacuum	-100 kPa		
Operating temp. range	0 to 60°C (No freezing)		
Effective sectional area	10 mm²	20 mm²	60 mm²

△ Warning:

* Make sure to follow the instructions below when the fluid medium is water.

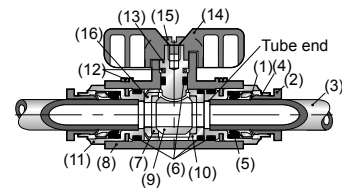
1. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.
2. Tap water in Japan, which is soft water (low mineral content) can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
3. Be sure to place Insert ring (WR) into the tube edge when using water as a fluid medium.

Sectional drawing

20 and 60 series

Union straight:

BVU (Handle: Opened)



No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release ring	POM
(3)	Tube	Polyurethane or nylon, etc.
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	O-ring	NBR
(7)	Ball seal	PTFE
(8)	Resin body	10 Series: PBT 20 and 60 series: Glass fiber reinforced PPS
(9)	Ball	Nickel-plated brass
(10)	Ball support	Nickel-plated brass
(11)	Metallic body	Nickel-plated brass
(12)	Lock pin	Stainless steel
(13)	Stem	Nickel-plated brass
(14)	Cock	POM
(15)	Machine screw	Steel
(16)	Ball holder	Nickel-plated brass

RoHS2 (2011/65/EU+EU2015/863) compliant

Mini (10) series

Type	Model code BVU ϕ D ₁ - ϕ D ₂		Type	Model code BVG ϕ D ₁ - ϕ D ₂		Type	Model code BVM ϕ D ₁ - ϕ D ₂	
Union BVU	BVU3-3 BVU4-4 BVU6-6 BVU ¹ / ₈ - ¹ / ₈ BVU ⁵ / ₃₂ - ⁵ / ₃₂		Unequal Dia. Union Straight BVG	BVG4-3 BVG6-4		Bulkhead Union Straight BVM	BVM6-4 BVM6-6	
Type	Model code BVC R- ϕ D	Model code BVC R- ϕ DU	Type	Model code BVL C R- ϕ D	Model code BVL C R- ϕ DU	Type	Model code BVL C ϕ D-R	Model code BVL C ϕ D-RU
Straight BVC	BVC01-3 BVC01-4 BVC01-6	BVCN1- ¹ / ₈ U BVCN1- ⁵ / ₃₂ U	Elbow A BVLC	BVLC01-3 BVLC01-4 BVLC01-6	BVLCN1- ¹ / ₈ U BVLCN1- ⁵ / ₃₂ U	Elbow B BVLC	BVLC3-01 BVLC4-01 BVLC6-01	BVLC ¹ / ₈ -N1U BVLC ⁵ / ₃₂ -N1U
Type	Model code BVL U ϕ D ₁ - ϕ D ₂		Type	Model code BVL G ϕ D ₁ - ϕ D ₂		Type	Model code BVL M ϕ D ₁ - ϕ D ₂	
Union Elbow BVL U	BVL U3-3 BVL U4-4 BVL U6-6 BVL U ¹ / ₈ - ¹ / ₈ BVL U ⁵ / ₃₂ - ⁵ / ₃₂		Unequal dia. Union Elbow BVL G	BVL G3-4 BVL G4-3 BVL G4-6 BVL G6-4		Bulkhead Union Elbow BVL M	BVL M6-4 BVL M6-6	



Notes

- *1. Release ring color : White for inch type



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag

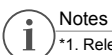
RoHS2 (2011/65/EU+EU2015/863) compliant

20 and 60 series

Type	Model code BVU[3]-øD ₁ øD ₂		Type	Model code BVG[3]-øD ₁ øD ₂		Type	Model code BVM[3]-øD ₁ øD ₂	Model code BVM[3]-øD ₁ øD ₂ U
Union BVU	BVU20-0606 BVU20-0808 BVU60-1010 BVU60-1212 BVU20-1/4-1/4 BVU20-5/16-5/16 BVU60-3/8-3/8 BVU60-1/2-1/2		Unequal Dia. Union Straight BVG	BVG20-0806 BVG60-1210 BVG20-5/16-1/4 BVG60-1/2-3/8		Bulkhead Union Straight BVM	BVM20-0806 BVM20-0808 BVM60-1210 BVM60-1212	BVM20-5/16-1/4U BVM20-5/16-5/16U BVM60-1/2-3/8U BVM60-1/2-1/2U BVM20-1/4-1/4U
								
Type	Model code BVC[3]-øD R	Model code BVC[3]-øD-RU	Type	Model code BVLC[3]-øD R	Model code BVLC[3]-øD-RU			
Straight BVC	BVC20-0601 BVC20-0602 BVC20-0603 BVC20-0801 BVC20-0802 BVC20-0803 BVC60-1002 BVC60-1003 BVC60-1004 BVC60-1202 BVC60-1203 BVC60-1204	BVC20-1/4-N1U BVC20-1/4-N2U BVC20-1/4-N3U BVC20-5/16-N1U BVC20-5/16-N2U BVC20-5/16-N3U BVC60-3/8-N2U BVC60-3/8-N3U BVC60-3/8-N4U BVC60-1/2-N2U BVC60-1/2-N3U BVC60-1/2-N4U	Elbow BVLC	BVLC20-0601 BVLC20-0602 BVLC20-0603 BVLC20-0801 BVLC20-0802 BVLC20-0803 BVLC60-1002 BVLC60-1003 BVLC60-1004 BVLC60-1202 BVLC60-1203 BVLC60-1204	BVLC20-1/4-N1U BVLC20-1/4-N2U BVLC20-1/4-N3U BVLC20-5/16-N1U BVLC20-5/16-N2U BVLC20-5/16-N3U BVLC60-3/8-N2U BVLC60-3/8-N3U BVLC60-3/8-N4U BVLC60-1/2-N2U BVLC60-1/2-N3U BVLC60-1/2-N4U			
								
Type	Model code BVLU[3]-øD ₁ øD ₂		Type	Model code BVLG[3]-øD ₁ øD ₂		Type	Model code BVL[3]-øD ₁ øD ₂	Model code BVL[3]-øD ₁ øD ₂ U
Union Elbow BVLU	BVLU20-0606 BVLU20-0808 BVLU60-1010 BVLU60-1212 BVLU20-1/4-1/4 BVLU20-5/16-5/16 BVLU60-3/8-3/8 BVLU60-1/2-1/2		Unequal dia. Union Elbow BVLG	BVLG20-0608 BVLG20-0806 BVLG60-1012 BVLG60-1210 BVLG20-1/4-5/16 BVLG20-5/16-1/4 BVLG60-3/8-1/2 BVLG60-1/2-3/8		Bulkhead Union Elbow BVL	BVL20-0806 BVL20-0808 BVL60-1210 BVL60-1212	BVL20-1/4-1/4U BVL20-5/16-1/4U BVL20-5/16-5/16U BVL20-1/2-3/8U BVL20-1/2-1/2U
								

Accessories

Type	Model code	Type	Model code	Type	Model code
Mounting bracket for Union type BVUH	BVUH20 BVUH60	Elbow type co-rotating stopper BVLC	BVLC20 BVLC60	Lockout BVLO	BVLO
					



Notes

- *1. Release ring color : White for inch type
- *2. The material of the union type mounting bracket and the elbow type co-rotating stopper is PBT, and the material of the lockout is PP.



CAD data is available
at PISCO website.



Packaging specifications

- 1 pc. /bag
- 1 set (2 pieces)/ bag: Elbow type stopper
- The elbow type co-rotating stopper is a set of 2 parts.

