

# Globe Valves / Check Valves / Strainers / Hydraulic Valves

# Compact Ball Valves Straight

### Globe Valves

Type	Material	Max. Operating Pressure
GBUCL	Main Body: SCS13A Gasket: BA - 15A PTFE 20A - 25A Expanded Graphite + PTFE Braided	Water, Oil, Air: 1.0MPa

**RoHS**

Part Number		Rc (PT)	S	L	(H)	W	Unit Price	Volume Discount Rate
Type	No.						1 ~ 4 pc(s).	5 ~ 10
GBUCL	8A	1/4	18	44	68	55		
	10A	3/8	22	48	68	55		
	15A	1/2	26	52	68	55		
	20A	3/4	34	60	93	60		
	25A	1	41	72	100	70		

**Features**  
 \*S-shaped flow valve with bulkhead inside body, positioning the center of inlet and outlet in straight line.

### Strainers

Type	Material	Max. Operating Pressure
STRY	Main Body: SCS13A Gasket: PTFE (With Filler)	Water, Oil, Air: 0.6MPa

**RoHS**

### Check Valves

Type	Material	Max. Operating Pressure
THKB	Main Body: SCS13A Gasket: Non-asbestos Sheet	Water, Oil, Air: 0.6MPa

**RoHS**

Part Number		Rc (PT)	S	L	H	Unit Price	Volume Discount Rate
Type	No.					1 ~ 4 pc(s).	5 ~ 10
THKB	15A	1/2	29	65	45		
	20A	3/4	35	80	55		
	25A	1	44	90	61		

**Features**  
 • Flexible structure that can be used by hanging one end of disc in hinge shape. In addition to horizontal piping, it can be used in vertical piping.  
 • The smooth fluid design reduces pressure losses.

Part Number		Rc (PT)	S	L	H	H1	d1	Unit Price	Volume Discount Rate
Type	No.							1 ~ 4 pc(s).	5 ~ 10
STRY	8A	1/4	21	65	50	67	15		
	10A	3/8	23	70	50	68	15		
	15A	1/2	29	85	60	80	18		
	20A	3/4	35	100	65	90	23		
25A	1	43	115	77	107	30			

**Features**  
 • Separates and removes foreign objects or dust in fluids.  
 • Mesh size is 40.

### Hydraulic Valves

#### Inline Flow Control Valves

Type	Material	Applicable Fluids	Operating Temp.	Max. Operating Pressure
BKFS	Main Body: Steel	Common Mineral Operational Oil	-10~60°C	34.5MPa

**RoHS**

Part Number		Rc (PT)	Max. Flow	B	C	D	E	F	G	H	Mass (g)	Unit Price	Volume Discount Rate
Type	No.											1 ~ 4 pc(s).	5 ~ 10
BKFS	8A	1/4	192/min	45.5	41	67	42	21	10.5	21	220		
	10A	3/8	302/min	56.5	49.5	70	44.5	25	12.5	25	365		
	15A	1/2	572/min	70	61	87.5	57	32	16	30	690		

**Features**  
 • Fine adjustments at low flow rate possible by 3 initial turns of the knob with a step needle.  
 • Flow rate setup time can be reduced by using the colorings as a guide.

Ordering Example **Part Number**  
**GBUCL10A**

### Check Valves

Type	Material	Applicable Fluids	Operating Temp.	Max. Operating Pressure
BCKB	Main Body: Steel	Common Mineral Operational Oil	-10~60°C	34.5MPa

**RoHS** ⚠️ Cracking Pressure=0.04MPa

Part Number		Rc (PT)	Max. Flow	B	C	G	Mass (g)	Unit Price	Volume Discount Rate
Type	No.							1 ~ 4 pc(s).	5 ~ 10
BCKB	8A	1/4	192/min	67	21	10.5	170		
	10A	3/8	302/min	70	25	12.5	260		
	15A	1/2	572/min	87.5	32	16	510		

**Features**  
 • Prevents reflux by integrating this valve into hydraulic circuit.

⚠️ The photo shows "open" status. Close condition can be obtained by counterclockwise rotation of 90°.

### PT / PF Male

Part Number	Handle Color	T R (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBPF	11F	Not specified (Orange)	1/8	1/8	43	
	12F	B (Black)	1/8	1/4		
	21F	W (White)	1/4	1/8		
	22F	Y (Yellow)	1/4	1/4		
	23F	W (White)	1/4	3/8	55	
	32F	B (Black)	3/8	1/4		
	33F	Y (Yellow)	3/8	3/8		
	34F	BL (Blue)	3/8	1/2		
43F	BL (Blue)	1/2	3/8			
44F	BL (Blue)	1/2	1/2			

**RoHS**

### PT Male / PF Female

Part Number	Handle Color	T R (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBPT	11F	Not specified (Orange)	1/8	1/8	43	
	12F	B (Black)	1/8	1/4		
	21F	W (White)	1/4	1/8		
	22F	Y (Yellow)	1/4	1/4		
	23F	W (White)	1/4	3/8	53	
	32F	B (Black)	3/8	1/4		
	33F	Y (Yellow)	3/8	3/8		
	43F	BL (Blue)	1/2	3/8		

**RoHS**

### Straight - PT Female / PF Male

Part Number	T Rc (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.			1 ~ 4 pc(s).	5 ~ 20
BBPW	11F	1/8	1/8	43	
	22F	1/4	1/4		
	33F	3/8	3/8		

**RoHS**

### PT / PF Female

Part Number	Handle Color	T Rc (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBFF	11F	Not specified (Orange)	1/8	1/8	43	
	12F	B (Black)	1/8	1/4		
	21F	W (White)	1/4	1/8		
	22F	Y (Yellow)	1/4	1/4		
	33F	BL (Blue)	3/8	3/8		

**RoHS**

### PT Male / Hose Connection

Part Number	Handle Color	Applicable Hose I.D. (mm)	T R (PT)	D	L	Unit Price	Volume Discount Rate
Type	No.					1 ~ 4 pc(s).	5 ~ 20
BBPH	61	Not specified (Orange)	6	1/8	7	56	
	93	W (White)	9	3/8	10.5	60	
	124	BL (Blue)	12	1/2	14	69.5	

**RoHS**

### PT Male / Tube Connection

Part Number	Handle Color	D	T R (PT)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBPC	61	Not specified (Orange)	6	1/8	49	
	62	B (Black)	6	1/4		
	81	W (White)	8	1/8		
	82	Y (Yellow)	8	1/4		
	83	BL (Blue)	8	3/8		
	102	BL (Blue)	10	1/4		
103	BL (Blue)	10	3/8	53		

**RoHS**

⚠️ Air Only  
 Ordering Example **Part Number** - **Color**  
**BBPC62** - **B**  
**BBPF11F** - **B**

⚠️ Be sure to use valves in fully open or close conditions.

Part Number	Handle Color	T R (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBPF	11F	Not specified (Orange)	1/8	1/8	43	
	12F	B (Black)	1/8	1/4		
	21F	W (White)	1/4	1/8		
	22F	Y (Yellow)	1/4	1/4		
	23F	W (White)	1/4	3/8		
	32F	B (Black)	3/8	1/4		
	33F	Y (Yellow)	3/8	3/8		
	43F	BL (Blue)	1/2	3/8		
44F	BL (Blue)	1/2	1/2	55		

Part Number	Handle Color	T R (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBPT	11F	Not specified (Orange)	1/8	1/8	43	
	12F	B (Black)	1/8	1/4		
	21F	W (White)	1/4	1/8		
	22F	Y (Yellow)	1/4	1/4		
	23F	W (White)	1/4	3/8		
	32F	B (Black)	3/8	1/4		
	33F	Y (Yellow)	3/8	3/8		
	43F	BL (Blue)	1/2	3/8		

Part Number	T Rc (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.			1 ~ 4 pc(s).	5 ~ 20
BBPW	11F	1/8	1/8	43	
	22F	1/4	1/4		
	33F	3/8	3/8		

Part Number	Handle Color	T Rc (PT)	F G (PF)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBFF	11F	Not specified (Orange)	1/8	1/8	43	
	12F	B (Black)	1/8	1/4		
	21F	W (White)	1/4	1/8		
	22F	Y (Yellow)	1/4	1/4		
	33F	BL (Blue)	3/8	3/8		

Part Number	Handle Color	Applicable Hose I.D. (mm)	T R (PT)	D	L	Unit Price	Volume Discount Rate
Type	No.					1 ~ 4 pc(s).	5 ~ 20
BBPH	61	Not specified (Orange)	6	1/8	7	56	
	93	W (White)	9	3/8	10.5	60	
	124	BL (Blue)	12	1/2	14	69.5	

Part Number	Handle Color	D	T R (PT)	L	Unit Price	Volume Discount Rate
Type	No.				1 ~ 4 pc(s).	5 ~ 20
BBPC	61	Not specified (Orange)	6	1/8	49	
	62	B (Black)	6	1/4		
	81	W (White)	8	1/8		
	82	Y (Yellow)	8	1/4		
	83	BL (Blue)	8	3/8		
	102	BL (Blue)	10	1/4		
103	BL (Blue)	10	3/8	53		

### Parts and Materials

Part No.	Part Name	Material	Qty.	Features
①	Body	Brass (Chrome Plating)	1	• Opening and closing are smooth and reliable. • Light torque enables easy opening/closing by turning its handle by 90°. (The diagram shows open condition.)
②	Socket	Brass (Chrome Plating)	1	
③	Ball	Brass (Chrome Plating)	1	
④	Stem	Brass	1	
⑤	Seat	Fluororesin	2	
⑥	Ring	Brass	1	
⑦	O-Ring	Synthetic Rubber	2	
⑧	Handle	Plastic	1	
⑨	Screw	Steel	1	
⑩	Caps	Plastic	1	
⑪	Spring Washer	Steel	1	

### Specifications

Applicable Fluids	Water, Air, Oil
Operating Temperature Range	-10 ~ 80°C (No Freezing)
Normal Operating Pressure	0.98MPa