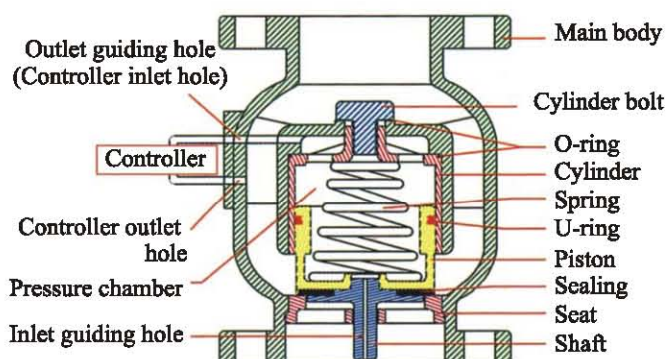




MULTI-FUNCTION AUTO-CONTROL VALVE

- ▶ Controller is fixed directly and designed of non-controller conduit. It reduces the damage of the controller conduit while transporting the equipment.
- ▶ Controller is designed to be quickly screw fastened, enabling fast and easy installation.
- ▶ The valve body can match with all types of controller without technical conversion, and all kinds of control valves can be formed.
- ▶ Cylinder design is adopted for the valve body structure, making the valve applicable to low and high pressure in both vertical and horizontal positions.
- ▶ Straight flow path is designed inside valve body. The large flow can reduce the malfunctions caused by impure water and effectively decrease turbulence and related bad effects.
- ▶ The valve body is shaped and formed as whole. Small volume, lightweight, and easy installation. Simple and elegant appearance.
- ▶ Professional manufacturers, best quality, and reasonable price.



▶ Patent Number : 135517

Part Name	Materials				
Main body	Cast Iron	Ductile Iron	Bronze	SS 304	SS 316
Cylinder bolt	Cast Iron	Ductile Iron	Brass	SS 304	SS 304
O-ring	NBR	NBR	NBR	NBR	NBR / Viton
Cylinder	Bronze	Bronze	Bronze	SS 304	SS 316
Spring	SS 304	SS 304	SS 304	SS 304	SS 304
U-ring	NBR	NBR	NBR	NBR	NBR / Viton
Piston	Bronze	Bronze	Bronze	SS 304	SS 316
Sealing	NBR	NBR	NBR	NBR	NBR / Viton
Seat	Bronze	Bronze	Bronze	SS 304	SS 316
Shaft	Bronze	Bronze	Bronze	SS 304	SS 316
Controller	Brass	Brass	Brass	SS 304	SS 304

1. Applied conditions: Fluid & Air

2. Applied temperature: -15° ~ 80°C

3. Connection ends: Available for all international standards

4. Materials of valve body: Cast Iron, Ductile Iron, Bronze & Stainless Steel

The valve body of main valve becomes functional by an inlet-guiding hole. This hole transfers pressure to pressure chamber. When enough pressure accumulates in the pressure chamber, it generates pushing force that makes the piston close to valve seat and generates the closing motion. There is another outlet guiding hole inside the pressure chamber. When the hole is open, pressure in pressure chamber dissipates and valve gate is pushed open by incoming water pressure.

● Stock Items

Flange End				
Size	Cast Iron	Ductile Iron	Bronze	Stainless Steel
2"	●	●	●	●
2.5"	●	●	●	●
3"	●	●	●	●
4"	●	●	●	●
5"	●	●	●	●
6"	●	●	●	●
8"	●	●	●	●
10"	●	●	●	●
12"	●	●	●	●
14"	●	●	●	●

(1 kgf/cm² = 14.2 psi)

Working Pressure		Test Pressure	
Cast Iron	: 16 kgf/cm ²	Cast Iron	: 24 kgf/cm ²
Ductile Iron	: 20 kgf/cm ²	Ductile Iron	: 30 kgf/cm ²
Bronze	: 16 kgf/cm ²	Bronze	: 24 kgf/cm ²
Stainless Steel	: 25 kgf/cm ²	Stainless Steel	: 38 kgf/cm ²

● Stock Items

Thread End			
Size	Cast Iron	Bronze	Stainless Steel
1.5"	●	●	●
2"	●	●	●

◎Production Size: 1.5"~ 56"

Pressure Reducing Valve



★ Pressure Adjusting Range

1 kgf/cm² ~ 7 kgf/cm²

2 kgf/cm² ~ 10 kgf/cm²

4 kgf/cm² ~ 12 kgf/cm²

★ Special order can be arranged for higher pressure adjustment range.

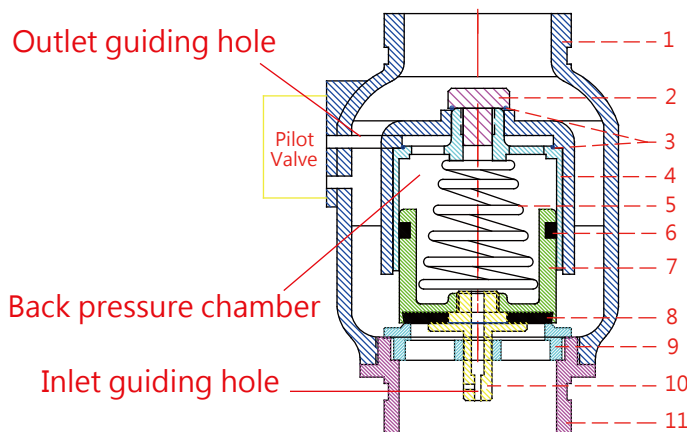
★ Applied Conditions : Water

★ Applied Temperature : -15 °C ~ 80 °C

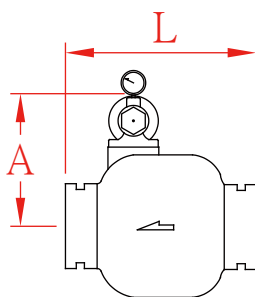
▼ Body Testing Pressure / Working Pressure

Ductile : 32 kgf/cm² / 20 kgf/cm²

- Please remove impurities or metal dusts inside the pipe thoroughly. If possible, please add filter.



No.	Part name	Material
1	Main Body	Ductile Iron
2	Cylinder Bolt	Ductile Iron
3	O-ring	NBR
4	Cylinder	Bronze
5	Spring	SS 304
6	U-ring	NBR
7	Piston	Bronze
8	Sealing	NBR
9	Seat	Bronze
10	Shaft	Bronze
11	Body Cover	Ductile Iron



Model : BGR (Grooved)

Size	L	A	Cv
3"	200	155	85
4"	210	165	110
6"	260	215	230

Unit : mm

