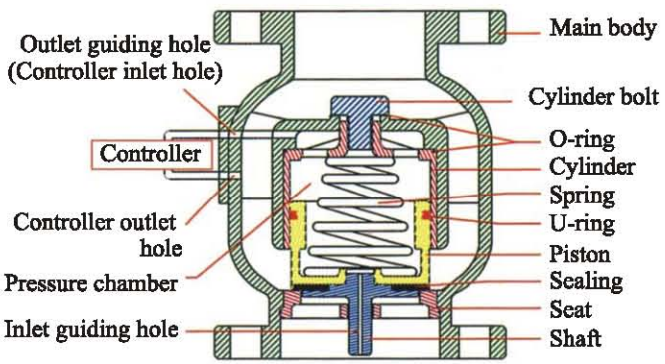
MULTI-FUNCTION AUTO-CONTROL VALVE

- 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/cm^2 = 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

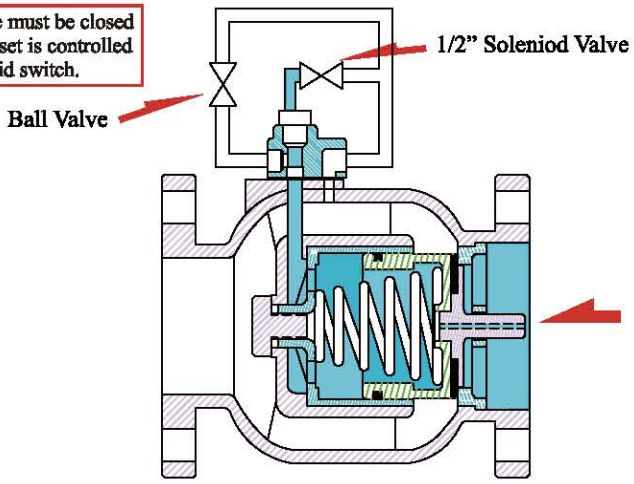
Thread End			
Size	Cast Iron	Bronze	Stainless Steel
1.5"		●	●
2"	●	●	

◎Production Size: 1.5"~ 56"

SOLENOID CONTROL VALVE

▶ Solenoid control valve is a kind of isolation valve, which can substitute traditional gate valves, ball valves and butterfly valves. The gate functioning is easily controlled by electrical power. The valve can be installed in fire control facility, water supply, or distant location where it's difficult to control the gate opening. The controller is directly fixed and can be easily installed on piping site. Interchangeable between manual and solenoid control.

Ball valve must be closed when the set is controlled by solenoid switch.

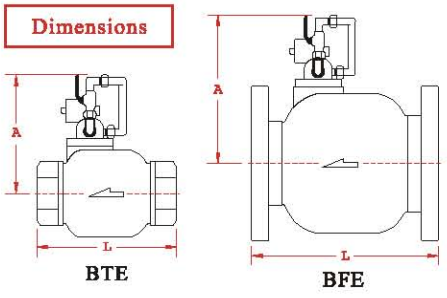


※ Specification of Solenoid Control Switch

- ▶ Working Voltage：DC12V, DC24V, AC110V/220V, 50/60Hz
- ▶ Electrifying Time Range：1 year continuously for 10,000 hours
- ▶ Allowable Voltage Range：±10%
- ▶ Applied Temperature：-15 ~ 80°C
- ▶ Durability：500,000 Cycles
- ▶ Applied Pressure Range：0.3 ~ 10 kgf/cm²
- ▶ Generally NC type (open when switch on), special order is needed for NO type (close when switch off) .

- ▶ The working pressure should be greater than 0.3 kgf/cm² and gate fully open with 1.5 kgf/cm², please check the pressure before installation.
- ▶ Please remove impurities or metal dusts inside the pipe thoroughly. If possible, please add filter to prevent pipe blocking.
- ▶ Avoid upside-down installation under insufficient flow. (Valve's inlet should face up when it is installed)

Dimensions



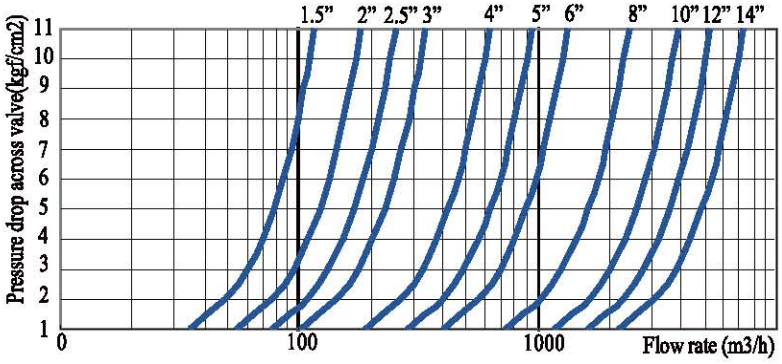
(Thread end)

Item No	Size	L(mm)	A(mm)	Weight(kg)	CV
BTE-40	1.5"	120	170	4	48
BTE-50	2"	200	190	10	75

(Flange end)

Item No	Size	L(mm)	A(mm)	Weight(kg)	CV
BFE-50	2"	190	190	13	75
BFE-65	2.5"	210	195	15	105
BFE-80	3"	225	210	20	140
BFE-100	4"	250	222	26	260
BFE-125	5"	280	245	38	390
BFE-150	6"	310	260	51	550
BFE-200	8"	420	300	95	1000
BFE-250	10"	470	335	152	1600
BFE-300	12"	530	370	202	2200
BFE-350	14"	600	415	285	3000

Flow Chart of Solenoid Control Valve



◎Production Size: 1.5" ~ 56"