

SafetyRelief
Valve

Customized
Product

Diaphragm
CheckValve

QuickCoupling

Plasticjoint

DuckbillValve

Rubbervalue

FuelCheck
Valve

CATALOGUE



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Product Introduction

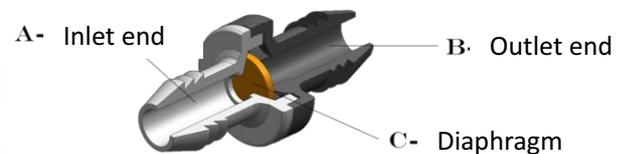
Diaphragm check valves have three parts including inlet end, outlet end and diaphragm. The bodies of two ends are injected using plastic parts, which can get better uniformity of dimension. The ultrasonic welding technique can make products solid and effectively reduce the cost.

We can change the materials of the bodies and diaphragms to adapt a variety of applications:

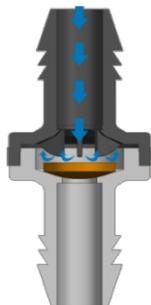
- Ozone sterilization system: FKM is always used as body material as it has excellent oxidation resistance.
- Fuel pipeline system: Nylon is always used as body material as it has excellent ability of high temperature resistance and anti-aging.
- Chemical reagent pipeline: PP is always used as body material as it has excellent ability of acid, alkali, and corrosion resistance.
- Ordinary air pipeline: ABS is always used as body material as it is economical and has good seal-ability.

Product Structure

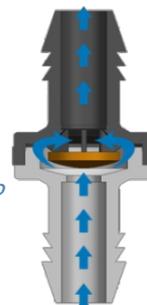
Part number	Optional Material			
A	PA66	ABS	PP	PVDF
B	PA66	ABS	PP	PVDF
C	EPDM	VMQ	FKM	FFKM



Working Principle



*Reverse seal condition:
Under certain pressure, when medium re-flux is happening, it will push the diaphragm to seal the channel.*



*Open condition:
Under certain pressure when medium comes from the inlet, it will flow around the diaphragm to the outlet end.*

Product Application

Auto Industry: Automobile fuel system, Wiper system and Carbon tank system

Chemical Industry: Pesticide mixture and irrigation

Food and Beverage: Coffee machine, Beer fresh-keeping, Liquid filling machine

Industrial Machinery: Ink supply system, Fuel supply system, Water cycle refrigerating system

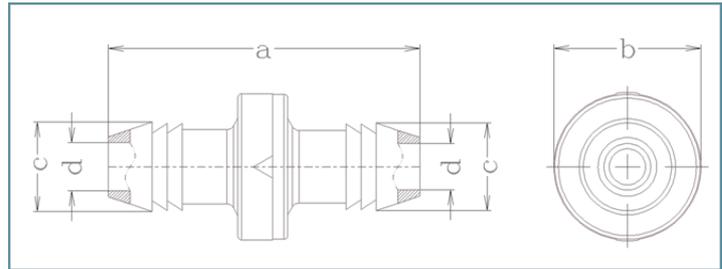
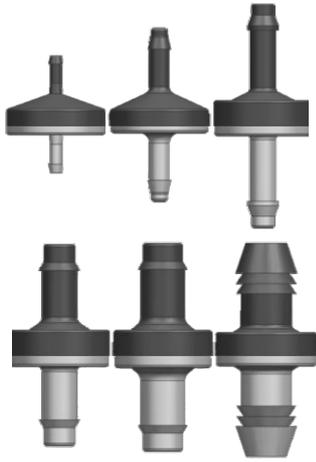
Medical Auxiliary Instruments: Medical air bed, Oxygen generator, Rehabilitation system for surgery, Ozone sterilization device

Swimming Pool and Hydrotherapy: Disinfecting system of circulating water

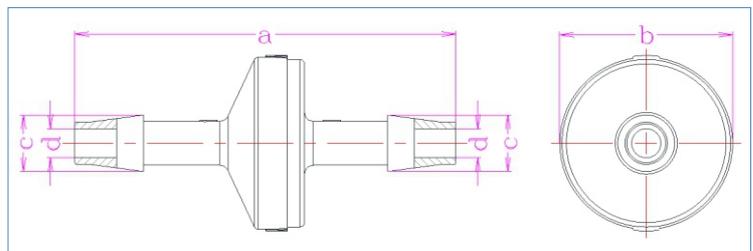
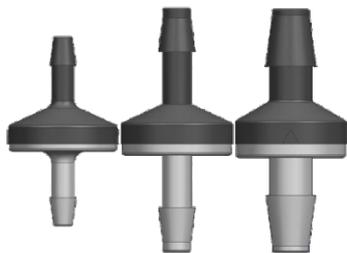
Water treatment: Ozone ions purify water

Specification and Dimension

(Remarks: The valve's dimensions are a little dfferent for different materials .)



Code	Specification	a (±0.5)	b (±0.5)	c (±0.1)	d (±0.1)
0116	1/16"	22.6	ø19.0	ø2.8	ø1.5
0216	1/8"	33.4	ø19.0	ø4.5	ø1.9
0316	3/16"	43.2	ø19.0	ø6.0	ø3.1
0416	1/4"	39.0	ø19.0	ø7.8	ø4.5
0516	5/16"	40.1	ø19.0	ø9.5	ø6.5
0616	3/8"	41.9	ø19.0	ø10.5	ø6.4



Code	Specification	a (±0.5)	b (±0.5)	c (±0.1)	d (±0.1)
0216	1/8"	32.6	ø19.5	ø4.5	ø1.9
0316	3/16"	43.0	ø19.5	ø6.4	ø3.3
0416	1/4"	42.9	ø19.5	ø8.8	ø4.5

Product introduction

Safety relief valve automatically controls the opening and closing of the sealing inside the valve body by sensing the change of the inlet pressure. When the pressure at the inlet end of the safety relief valve exceeds the normal working pressure of the system, the valve opens; When the pressure at the inlet end of the safety relief valve drops below the normal working pressure, the valve closes. Safety relief valve is for a safe and stable state of the pressure in the system piping, and it is a mechanical device for system pressure regulation.

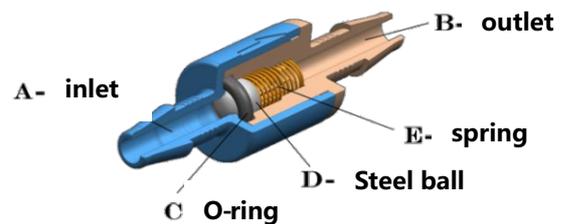
Our company mainly produces miniature safety relief valves. There are several types of mechanical structures: spring ball-type, spring lever-type and rubber umbrella-type.

The miniature safety relief valve is widely used. Examples are as below:

Gas fuel tank explosion-proof	Applying rubber umbrella core
Post-surgical assistive device	Applying spring ball-type safety relief valve
Household steam mop	Applying spring ball-type safety relief valve
Medical scaling machine	Applying spring lever-type safety relief valve
Wild camping air cushion	Applying spring lever-type safety relief valve

Product structure

Part Number	Optional material		
A	PP	PVDF	
B	PP	PVDF	
C	EPDM	VMQ	FKM
D	SUS316L		
E	SUS304 (SUS316、SUS302), Different specifications of spring material selecton		



Working principle



Sealing state : When the fluid pressure of the inlet end is less than the pressure relief value, it is in a sealing state ; when products is still tanding, it is in a sealing state.



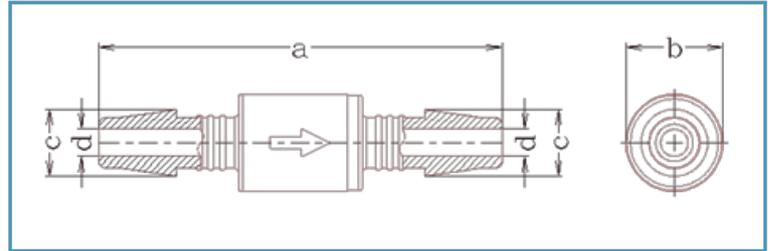
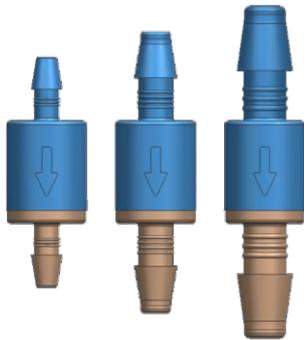
Pressure relief state : When the fluid pressure of the inlet end is greater than the pressure relief value, the steel ball is pushed forward, and the fluid flows out around the steel ball, thereby achieving the function of safe pressure relief.

Specification and Dimension

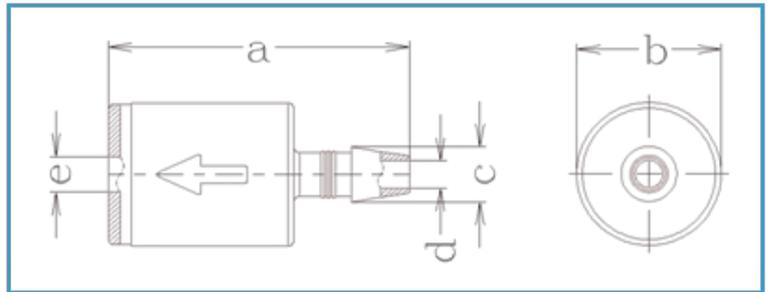
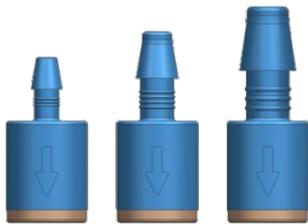
Optional Scope :

Standard valve : opening pressure 0.1-3.0Kpa

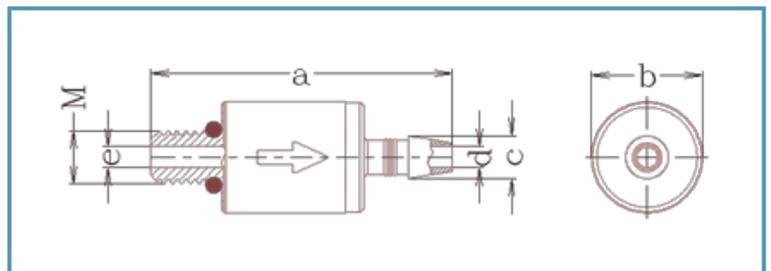
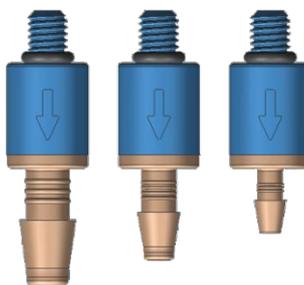
Non-standard valve : the optional scope of opening pressure 0.2-50.0Kpa, tolerance $\pm 20\%$, please confirm with our staff for the specific requirement



Code	Specification	a (± 0.5)	b (± 0.3)	c (± 0.1)	d (± 0.1)
0216	1/8"	36.0	$\varnothing 12.5$	$\varnothing 4.8$	$\varnothing 2.6$
0316	3/16"	44.0	$\varnothing 12.5$	$\varnothing 6.5$	$\varnothing 3.2$
0416	1/4"	52.0	$\varnothing 12.5$	$\varnothing 8.6$	$\varnothing 3.6$



Code	Specification	a (± 0.5)	b (± 0.3)	c (± 0.1)	d (± 0.1)	e (± 0.1)
0216	1/8"	26.0	$\varnothing 12.5$	$\varnothing 4.8$	$\varnothing 2.6$	$\varnothing 3.1$
0316	3/16"	30.0	$\varnothing 12.5$	$\varnothing 6.5$	$\varnothing 3.2$	$\varnothing 3.1$
0416	1/4"	34.0	$\varnothing 12.5$	$\varnothing 8.6$	$\varnothing 3.6$	$\varnothing 3.1$

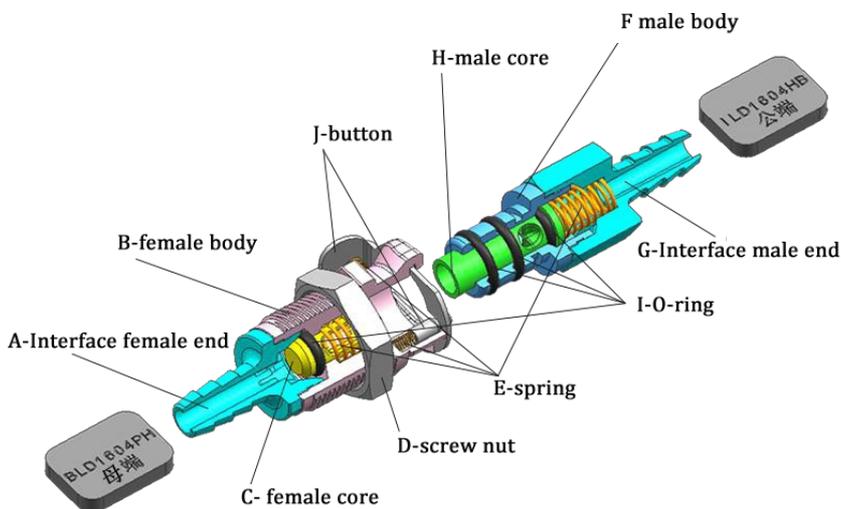


Code	Specification	a (± 0.5)	b (± 0.3)	c (± 0.1)	d (± 0.1)	e (± 0.1)	M
0216	1/8"	26.0	$\varnothing 12.5$	$\varnothing 4.8$	$\varnothing 2.6$	$\varnothing 2.4$	M6
0316	3/16"	30.0	$\varnothing 12.5$	$\varnothing 6.5$	$\varnothing 3.2$	$\varnothing 2.4$	M6
0416	1/4"	34.0	$\varnothing 12.5$	$\varnothing 8.6$	$\varnothing 3.6$	$\varnothing 2.4$	M6

Product introduction

Quick coupling is also called quick disconnect connector, and it is mainly used in gas and liquid connecting pipes, the pipe diameter is usually less than 1/2 inch. Quick coupling must be used with the male end and the female end, male and female ends are independent of the piping system, each can have shut-off function to prevent gas or liquid leakage in the pipeline; When the male end and the female end are locked together by the snap ring, the pipeline can be instantly formed into a passage; While the snap ring is released, the male end and the female end are naturally separated, and the ends of the pipeline are instantaneously cut off. Mainly used in medical aids, home use electrical appliances, ink systems, beverage machines, water circulation refrigeration systems, etc.

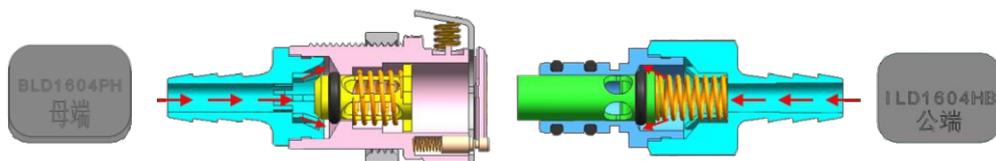
Product structure



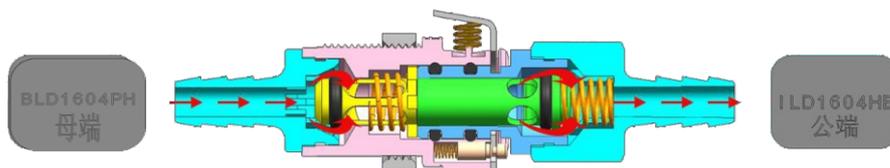
(Special material optional)

part number	material
A	POM
B	POM
C	POM
D	SUS304
E	SUS304 SUS316
F	POM
G	POM
H	POM
I	EPDM
J	SUS304

Working principle



Unconnected state: shut-off core is off, fluid is not circulated



Connected state: shut-off core is open, fluid is circulated

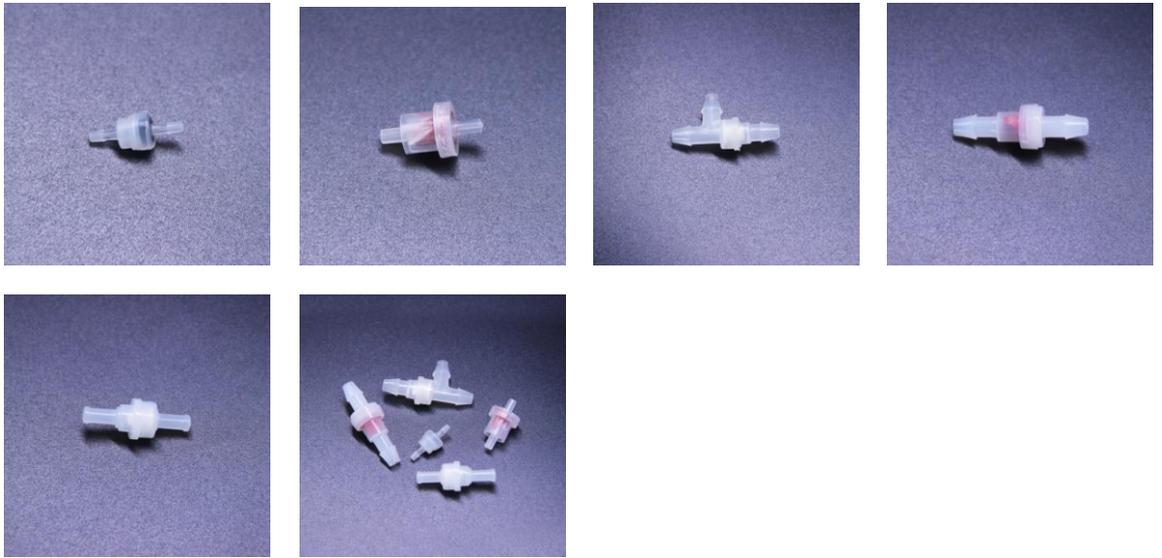
Specification and Dimension

M Series Quick Coupling List				
Picture	1/8"	3/16"	1/4"	Shut-Off
	IM0216HB	IM0316HB	IM0416HB	NO
	IMD0216HB	IMD0316HB	IMD0416HB	YES
	IMD0216PH	IMD0316PH	IMD0416PH	YES
	IM0216PH	IM0316PH	IM0416PH	NO
	IM0216HBL			NO
	IMD0216HBL			YES
	BM0216HB	BM0316HB	BM0416HB	NO
	BMD0216HB	BMD0316HB	BMD0416HB	YES
	BM0216PH	BM0316PH	BM0416PH	NO
	BMD0216PH	BMD0316PH	BMD0416PH	YES

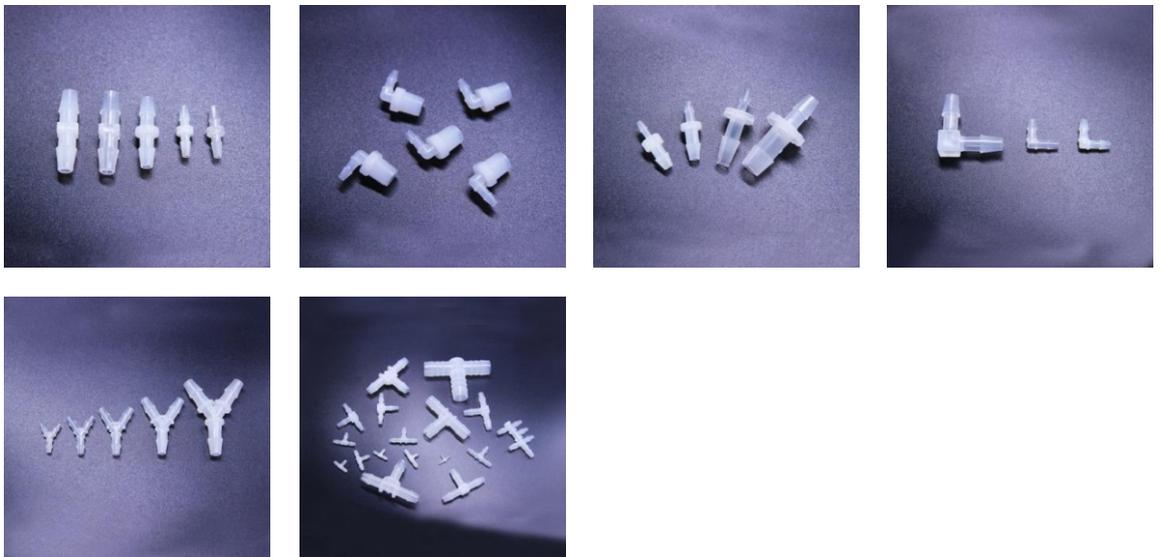
L Series Quick Coupling List				
Picture	1/4"	5/16"	3/8"	Shut-Off
	IL0416HB	IL0516HB	IL0616HB	NO
	ILD0416HB			YES
	ILD0416PH	ILD0516PH		YES
	IL0416PH	IL0516PH		NO
	BLD0416HB	BLD0516HB		YES
	BL0416HB	BL0516HB		NO
	BLD0416PH	BLD0516PH		YES
	BL0416PH	BL0516PH		NO

Mass Production	Under Development	To Be Developed
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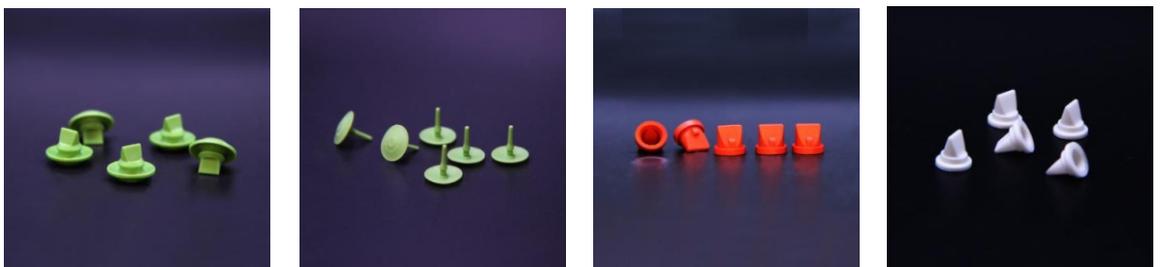
Duckbill valve



Plastic joint



Rubber valve



Customized product



Due to continuous improvement of our products, we reserve the right to modify specificacati without prior nr notice.