



RELIABLE - PROVEN - TRUSTED - SINCE 1936



## ARROWHEAD CATALOG

[www.arrowheadbrass.com](http://www.arrowheadbrass.com)

## no lead no worries because your health matters

- the EPA regulations state that hose bibs and valves **MUST** be Lead-free if potable use can be anticipated.
- Arrowhead Brass products are 3rd-party certified to Lead-free standard by IAPMO.
- pending changes to the EPA standards will likely require that all plumbing valves be Lead-free



ASSE 1011



ASSE 1019-A: Anti-Siphon  
NSF/ANSI 372: Lead-free

## The Arrowhead Brass Mission

Arrowhead Brass is a US-based manufacturer of plumbing valves and irrigation products with a rich history dating back to 1936. Our mission is to be the global premier provider of these products and to stay true to our seven core values; customer commitment, quality, integrity, teamwork, respect, personal accountability, and good citizenship.

## Our Seven Core Values

### CUSTOMER COMMITMENT



We strive to foster relationships that have a positive impact on our customers' success

### QUALITY



We provide outstanding products and unsurpassed customer service that bring premium value to our customers every day.

### RESPECT



We value and respect our people, encourage their growth and celebrate their successes.

### PERSONAL ACCOUNTABILITY



We are all accountable for delivering on our commitments.

### GOOD CITIZENSHIP



We commit to being good citizens in the communities which we live and work and strive to improve the quality of life for communities in need.

### INTEGRITY



We uphold the highest standards of integrity in all our actions.























### TEAMWORK















We work together across all **Function**s to meet the needs of our customers and create a winning company culture.

# TABLE OF CONTENTS

## Brass

	<b>Ball Valves</b> P2		<b>Mini Ball Valves</b> P8		<b>Air Vents</b> P14
	<b>Gate Valves</b> P3		<b>Float Valves</b> P8		<b>Wastes</b> P15
	<b>Stop Valves</b> P4		<b>Bib Cocks</b> P9		<b>Siphons</b> P15
	<b>PPR Valves</b> P5		<b>Pressure Reducing Valves</b> P10		<b>Stainless Steel Braided Flexible Hose</b> P16
	<b>Y Strainers</b> P6		<b>Safety Relief Valves</b> P11		<b>WC TAP &amp; WM TAP</b> P17
	<b>Swing Check Valves</b> P6		<b>Hydraulic Balancing Valves</b> P12		<b>Fittings</b> P18-19
	<b>Non-Return Valves</b> P7		<b>Leakstop System</b> P13		<b>Manifolds</b> P20
	<b>Foot Valves</b> P7				

## Stainless steel

	<b>Ball Valves</b> P21		<b>Non-Return Valves</b> P23		<b>Pressure Reducing Valves</b> P25
	<b>Gate Valves</b> P21		<b>Y Strainers</b> P23		<b>Air Vents</b> P25
	<b>Stop Valves</b> P22		<b>Mini Ball Valves</b> P24		<b>Hydraulic Balancing Valves</b> P26
	<b>Swing Check Valves</b> P22		<b>WC TAP &amp; WM TAP</b> P24		<b>Fittings</b> P27



# BALL VALVES

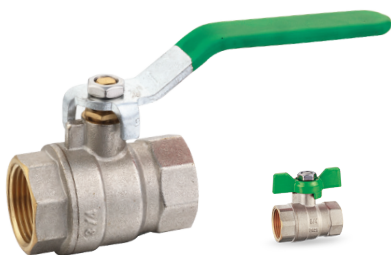
## Application Field

- Ball valves are widely used in fluid control systems, including various areas such as domestic water supply, heating, irrigation, fire protection, and sewage treatment.

## Function

- The most commonly used shut-off valves utilize a rotating ball to control the opening and closing of the valve.

### PN30 Ball Valve

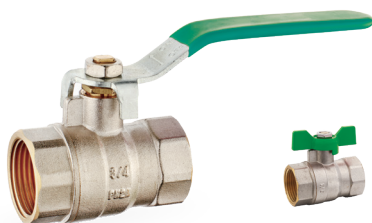


#### Specification

- Standard bore
- Fields of applications: Water
- Maximum working Pressure: 30 bar
- Female thread connections comply with ISO228
- Forged body
- Lever handle: 3/8"-2"
- Butterfly handle: 3/8"-1"
- Material: Brass

No.	Size
3BVB103	3/8"
3BVB104	1/2"
3BVB106	3/4"
3BVB108	1"
3BVB110	1 1/4"
3BVB112	1 1/2"
3BVB114	2"

### PN25 Ball Valve

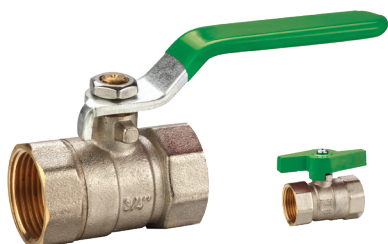


#### Specification

- Standard bore
- Fields of applications: Water
- Maximum working Pressure: 25 bar
- Female thread connections comply with ISO228
- Forged body
- Lever handle: 3/8"-2"
- Butterfly handle: 3/8"-1"
- Material: Brass

No.	Size
3BVB503	3/8"
3BVB504	1/2"
3BVB506	3/4"
3BVB508	1"
3BVB510	1 1/4"
3BVB512	1 1/2"
3BVB514	2"

### PN16 Ball Valve



#### Specification

- Reducing bore
- Fields of applications: water
- Maximum working pressure 16 bar
- Female thread connections comply with ISO228
- Forged body
- Material: Brass

No.	Size
3BVB503	3/8"
3BVB504	1/2"
3BVB506	3/4"
3BVB508	1"
3BVB510	1 1/4"
3BVB512	1 1/2"
3BVB514	2"



# GATE VALVES

## Application Field

- Gate valves are manual valves that can be fully opened or closed, commonly used in pipeline systems, water pumping stations, oil pipelines, and other industries.

## Function

- The most commonly used shut-off valve employs a rotating handwheel to raise and lower the gate.

### Gate Valve



#### Specification

- Fields of applications: water & non-causticity liquid & saturated steam
- Maximum working pressure: 16 bar
- Non-rising stem
- Female thread connections comply with ISO228
- Forged brass body, solid wedge
- Material: Brass

No.	Size
3GVC004	3/8"
3GVC006	1/2"
3GVC008	3/4"
3GVC010	1"
3GVC012	1¼"
3GVC014	1½"
3BVB114	2"

### Magnetic Gate Valve



#### Specification

- Fields of applications: water & non-causticity liquid & saturated steam
- Maximum working pressure: 16 bar
- Magnetic control with the key
- Female thread connections comply with ISO228
- Forged brass body, solid wedge
- Material: Brass

No.	Size
3DMI201	3/8"
3DMI202	1/2"
3DMI203	3/4"
3DMI204	1"
3DMI205	1¼"
3DMI206	1½"
3BVB114	2"

### Gate Valve with Lock



#### Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 90°C
- Female thread connections comply with ISO228
- Body: forged brass
- Control with the key
- Material: Brass

No.	Size
3DMB101	1/2"
3DMB102	3/4"
3DMB103	1"
3DMB104	1¼"
3DMB105	1½"
3DMB106	2"

# STOP VALVES

## Application Field

- Stop valves are commonly used in household water supply pipelines and have various other applications such as sewage treatment, natural gas transportation, chemical production, HVAC systems, and many other fields.

## Function

- They mainly serve to cut off and regulate the flow in pipeline systems or production facilities. It's important to note that stop valves have a certain directional flow as the general medium flows from bottom to top, so special attention is required during installation.

## Stop Valve



## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 90°C
- Female thread connections comply with ISO228
- Body: forged brass
- Material: Brass

No.	Size
3SUA011	1/2"
3SUA022	3/4"
3SUA033	1"
3SUA044	1 1/4"
3SUA055	1 1/2"
3SUA066	2"

# PPR VALVES

## Application Field

- PPR valves are extensively used in domestic water supply, heating systems, and other industries. However, they are not suitable for areas with strong ultraviolet radiation.

## Function

- PPR valves are connected using hot-melt PPR pipes and can be easily disassembled and replaced, providing convenient conditions for pipeline maintenance and repairs.

## PPR Ball Valve



### Specification

- Standard bore
- Fields of applications: Water
- Maximum working Pressure: 16 bar
- Maximum working temperature: 95°C
- The surface is plated according to demand
- Hot melt PPR tube to connect
- Material: Brass

No.	Size
3RBVP106	PPR20
3RBVP108	PPR25
3RBVP110	PPR32

## PPR Gate Valve



### Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Body: forged brass
- Hot melt PPR tube to connect
- Material: Brass

No.	Size
3GVP006	PPR20
3GVP008	PPR25
3GVP010	PPR32

## PPR Stop Valve



### Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Body: forged brass
- Hot melt PPR tube to connect
- Material: Brass

No.	Size
3SWP006	PPR20
3SWP008	PPR25
3SWP010	PPR32



# Y STRAINERS



No.	Size
3SYA004	1/2"
3SYA006	3/4"
3SYA008	1"
3SYA010	1 1/4"
3SYA012	1 1/2"
3SYA014	2"

## Application Field

- Y-type filters are widely used in areas such as domestic water supply, circulating cooling water systems, heat exchange systems, air conditioning and refrigeration systems, central heating systems, and hot water boiler systems.

## Function

- The main principle of Y-type filters is to trap substances smaller than the medium aperture size using the screening mesh, while some screens have special effects such as adsorption to protect the normal operation of equipment and pipelines.

## Specification

- Fields of applications: Water
- Maximum working Pressure: 16 bar
- Maximum working temperature: 95°C
- The filtration of coarse impurities (150um) helps to extend the service life of downstream equipment and pipelines.
- The pressure drop is small while allowing for high flow rates.
- It operates silently (<20 dBA).
- Material: Brass

# SWING CHECK VALVES



No.	Size
3CUA004	1/2"
3CUA006	3/4"
3CUA008	1"
3CUA010	1 1/4"
3CUA012	1 1/2"
3CUA014	2"

## Application Field

- suitable for the following scenarios:
- smaller pipe systems, such as residential buildings and small factories;
- low-pressure and medium-low-pressure systems, such as water supply and drainage systems and air conditioning systems;
- limited spaces, such as well covers and basements.

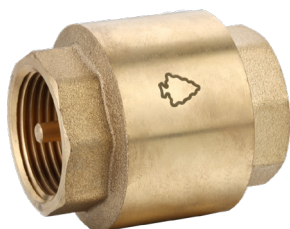
## Function

- The valve disc relies on the pressure of the flowing medium to open or close, preventing medium backflow. It must be installed horizontally with a specific flow direction and should not be installed in reverse.

## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Smooth flow path, small fluid resistance
- The valve closes quickly, the water hammer pressure is small
- Material: Brass

# NON-RETURN VALVES



## Application Field

- Applicable in the following scenarios:
- Sewage treatment systems: prevent sewage backflow, affect water quality and equipment life.
- Tap water pipeline system: prevent tap water backflow, pollute water quality, and prevent equipment damage.
- Oil and chemical systems: prevent backflow, thereby protecting equipment and important safety amount.

## Function

- The opening and closing of the valve are controlled by the tension and pressure of the spring, suitable for vertical or horizontal pipelines to prevent backflow, and there is a water flow direction, it can't be installed reversely.

## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Quick interruption of reverse water flow.
- Material: Brass

No.	Size
3CVC004	1/2"
3CVC006	3/4"
3CVC008	1"
3CVC010	1¼"
3CVC012	1½"
3CVC014	2"

# FOOT VALVES



## Application Field

- When the home tap water system needs to install a self-priming pump, and when agricultural irrigation or municipal water supply needs to use a centrifugal pump, foot valve needs to be installed at the import to avoid tap water backflow.

## Function

- Energy-saving valve, usually installed at the bottom of the pump, to play a one-way flow role, the valve cover has many reinforcement ribs for filtering larger impurities, and also has a supporting Function.

## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Female thread connections comply with ISO228
- Quick interruption of reverse water flow.
- Material: Brass

No.	Size
3CVJ004	1/2"
3CVJ006	3/4"
3CVJ008	1"
3CVJ010	1¼"
3CVJ012	1½"
3CVJ014	2"

# MINI BALL VALVES



No.	Size
3MBV004	1/2F*1/2F
3MBV104	1/2F*1/2M

## Application Field

- Mini ball valve, usually used for fluid control and adjustment in small flow pipes, to meet the pipeline system's requirements for fluid control and switching Functions.

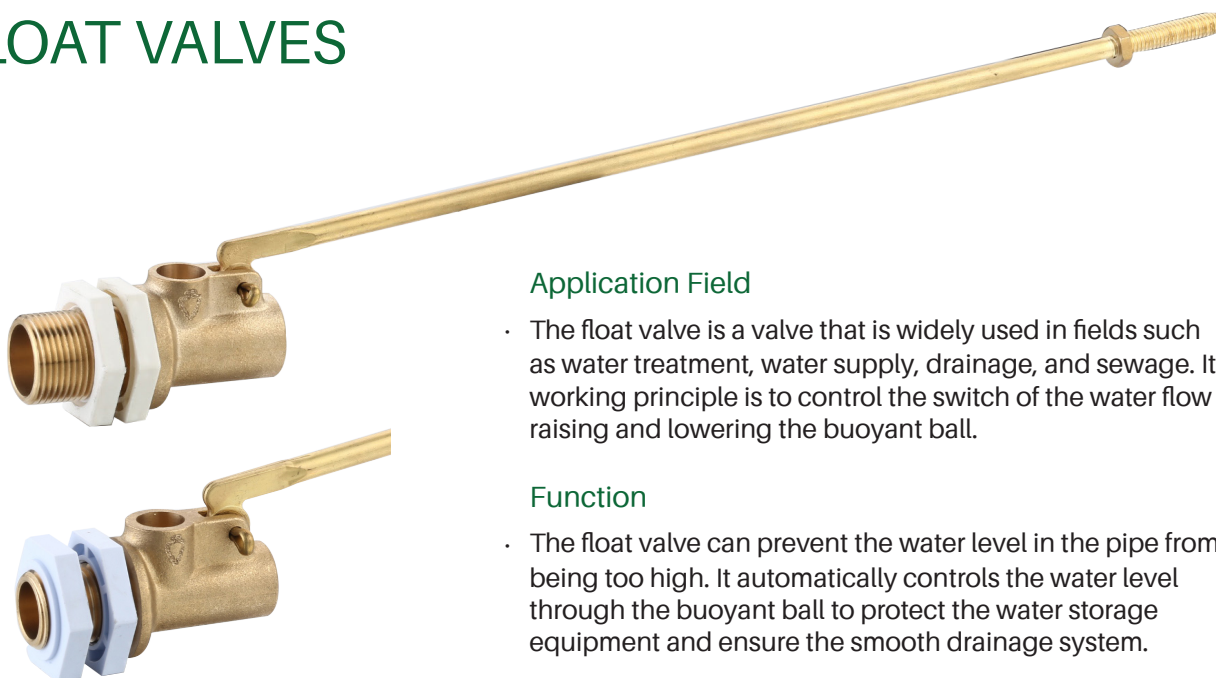
## Function

- Mini Ball Valve working torque is small, it's easy to open and close, the rotation of the ball valve body can control the flow rate in the pipeline, and the overall valve volume is relatively small, easy to operate.

## Specification

- Fields of applications: water
- Maximum working pressure: 10 bar
- Female thread connections comply with ISO228
- Forged brass body
- Material: Brass

# FLOAT VALVES



No.	Size
3FVA004	1/2"
3FVA006	3/4"

## Application Field

- The float valve is a valve that is widely used in fields such as water treatment, water supply, drainage, and sewage. Its working principle is to control the switch of the water flow by raising and lowering the buoyant ball.

## Function

- The float valve can prevent the water level in the pipe from being too high. It automatically controls the water level through the buoyant ball to protect the water storage equipment and ensure the smooth drainage system.

## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 50°C
- Material: Brass



# BIB COCKS

## Application Field

- BIB COCKS are widely used in environments such as households, shopping malls, industry, and outdoors, installed at the system end for water intake or drainage.

## Function

- By rotating the handle, the fluid medium can be started, closed and control the outlet water flow rate. The nozzle has two types: quick opening and slow opening.



## Specification

- Fields of applications: water
- Working pressure: 10 bar
- Threads comply with ISO228
- Forged brass body
- Material: Brass

No.	Size
3BBE011	1/2"
3BBE033	3/4"
3BBE034	1"



No.	Size	Material
3BBA011	1/2"	Brass (Native color)
3BBA033	3/4"	Brass (Native color)
3BBA034	1"	Brass (Native color)
3BBC011	1/2"	Brass (electroplating)
3BBC033	3/4"	Brass (electroplating)
3BBC034	1"	Brass (electroplating)

# PRESSURE REDUCING VALVES

## Application Field

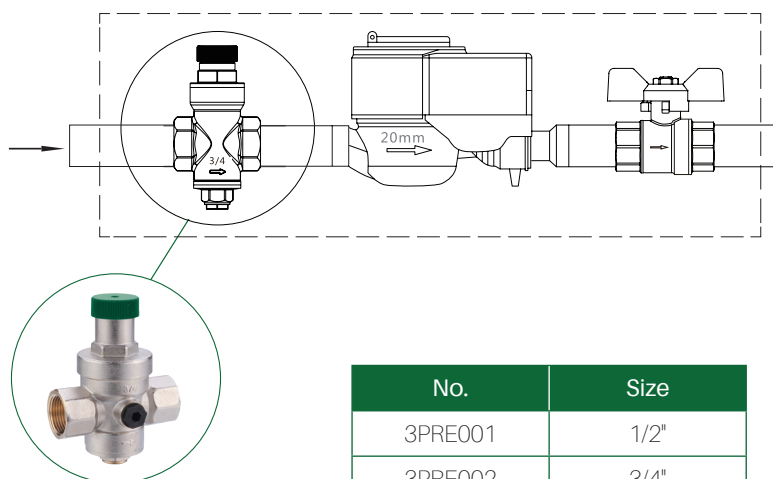
- Pressure reducing valves are installed in residential water system to reduce and stabilise inlet pressure from the water network which is generally too high and variable for domestic systems to work properly

## Function

- Variable orifice
- Offer best adjustment and shutting capability
- Pressure tapping points available for different flow testing equipments
- Material: Brass

## Specification

- Nominal Pressure: 16bar/25bar
- Maximum Upstream Pressure: 16 bar
- Downstream Pressure Setting Range: 1.5~5.5 bar
- Factory Setting: 3 bar
- Maximum Working Temperature: 70°C
- Pressure Gauge Scale: 0~10 bar
- Pressure Gauge Connection : Rp1/4" F
- Medium: water
- Optional pressure gauge installation



## Inclined Pressure Reducing Valve



No.	Size
3PRE001	1/2"
3PRE002	3/4"
3PRE003	1"
3PRE004	1 1/4"
3PRE005	1 1/2"
3PRE006	2"

## Visible Pre-adjustable Pressure Reducing Valve



No.	Size
3PRB312	1/2"
3PRB315	3/4"
3PRB318	1"
3PRB321	1 1/4"
3PRB324	1 1/2"
3PRB327	2"

# SAFETY RELIEF VALVES

## Safety relief valve, M × F



### Application Field

- AH safety relief valves are used for pressure control and protection for below systems:
- Boilers in heating system
- Hot water cylinders in the domestic hot water system
- Water system
- When the calibrated pressure is reached, the valve opens and discharges the excess pressure which would be dangerous for the boiler and the components in the system itself.

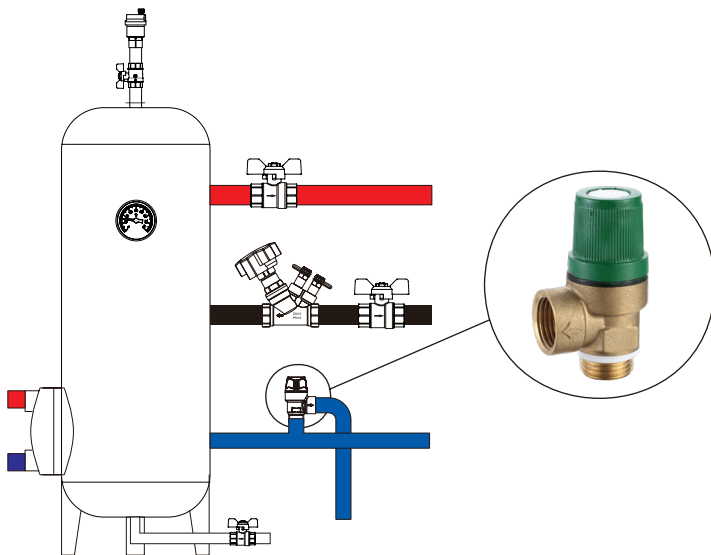
### Function

- Safety relief valves must be installed by qualified technical person.
- Safety relief valve must be installed in line with the flow direction indicated by the arrow on the valve body.
- The safety relief valve can be fitted vertically or horizontally, but not upside down.

### Specification

- Nominal pressure: PN10
- Temperature range: 5~110°C
- Max. opening pressure: Pset + 10%. Pset
- Min. closing differential: Pset - 20%. Pset
- Medium: water, air
- PED Category: IV
- Calibrations: Series 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8, 10 bar
- Material: Brass

## Safety relief valve, M × F



No.	Size
3ARA111	F×F1/2"
3ARA122	F×F 3/4"
3ARF111	M×F1/2"
3ARF122	M×F 3/4"



# HYDRAYLIC BALANCING VALVES

## Application Field

- Balancing valve is a regulating valve, usually used to regulate the flow of water, maintain the balance of water pressure, achieve energy saving and emission reduction, etc. It is commonly used in applications such as HVAC systems, industrial refrigeration, water treatment, and domestic water.

## Function

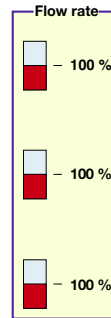
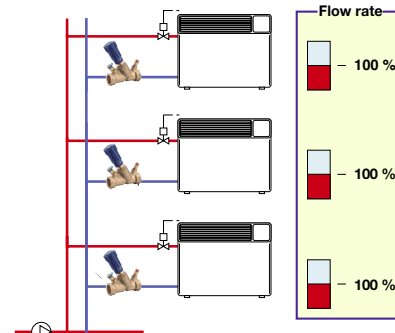
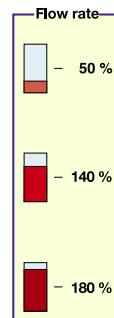
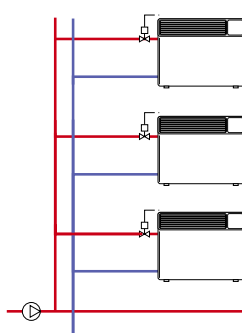
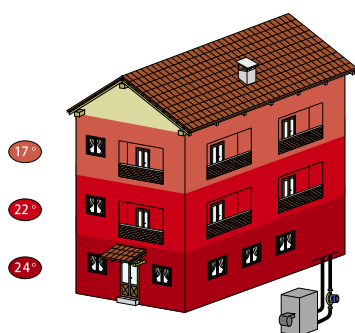
- This series thread static balancing valve boasts the variable orifice instead of the fixed orifice to achieve valve preset and highly enhance system debugging efficiency through valve open turns and KV comparison table. The system balance will be achieved rapidly by working with professional static balancing valve adjustment equipment and adjusting accurately.

## Specification

- Medium: water
- Max. percentage of glycol: 50%
- Max. working Pressure: PN25
- Temperature range: -10°C~120°C
- Accuracy:  $\pm 5\%$
- Number of setting turns: 4.5
- Connections: 1/2", 3/4", 1"
- Valve body pressure
- Tapping connections: FG1/4"
- Material: Brass



No.	Size
3STA101	1/2"
3STA102	3/4"
3STA103	1"
3STA104	1 1/4"
3STA105	1 1/2"
3STA106	2"



CARGA TOTAL

# LEAKSTOP SYSTEM

## Application Field

- When a water leakage is detected, report to the central controller; actively shut off the water supply to reduce the losses. Through the APP, receive notifications and remotely monitoring. It can be widely used in houses, apartments, buildings, data centers, computer rooms and other scenarios.

## Function

- Whole-house protection: Local monitoring
- Detect leakage: Remote monitoring
- Automatically shut-off: Simple installation
- Battery powered: Anti-lock



① : Central Controller; ② : Motorized Valve; ③ : Water Sensor;  
④ : Power Adapter; ⑤ : Backup Battery; ⑥ : Smart gateway

No.	Part Name	Code
1	Central Controller	3DPD001
2	Motorized Valve	3MBF000/002/004
3	Water Sensor	3DPD002
4	Power Adapter	3DPD003
5	Backup Battery	3DPD004
6	Smart gateway	3DPD005



# AIR VENTS



No.	Size
3AVA101	3/8"
3AVA102	1/2"
3AVA103	3/4"
3AVA104	1"

## Application Field

- Our product is suitable for water-based closed systems (such as EN12828) used for heat dissipation and cooling, such as the heating/cooling industry, wind power industry, marine engineering, industrial equipment and other fields. It automatically expels air (bubbles) in the system medium, improves efficiency, reduces oxidation and corrosion in the system, and reduces noise.

## Function

- When the system is filled with circulating water, the gas in the water continuously escapes and gathers at the highest point due to changes in temperature and pressure. When the gas accumulation reaches a certain level, the float will fall and drive the valve rod to move down, opening the exhaust port and continuously discharging the gas.

## Specification

- Max working pressure: 10 bar
- Max working temperature: 110°C
- Applicable medium: Water / ethylene glycol solution
- Max exhaust pressure: 15%
- The connect thread is conformed to the standard ISO 228
- Material: Brass



# WASTES



## Application Field

- A drain device refers to a device installed at the lowest outlet of a basin and connected to the sewage outlet of the sewer to drain water, generally installed under the kitchen vegetable basin and bathroom wash basin.

## Function

- The drain device not only effectively filters out impurities to prevent blockages in the sewage pipe, but it can also be manually closed to collect water. This device also enhances the overall cleanliness of the bathroom and ensures a healthy and safe home environment.



## Specification

Spring Bath Waste with Flat Plug  
1.1/2" BSP  
73mm Flange  
73mm Flat  
Plug × 75mm Slotted tail  
Washers and Plastic Back Nut



## Specification

Basin Waste  
with Brass Flip Plug Solid Body  
1.1/4" BSP  
60mm Flange  
85mm tail

## Specification

Spring Basin Waste  
with Brass Plug  
Solid Body  
1.1/4" BSP  
60mm Flange  
65mm tail



## Specification

Pull & Push Bath Waste  
Solid Body  
1.1/2" BSP  
73mm Flange  
33mm tail



# SIPHONS

## Application Field

- The trap is widely used in the drainage system of public places such as homes, hotels, hospitals, schools, shopping malls, office buildings, etc. The most common Application Field include: the sewer pipes of kitchens, bathrooms, toilets, the drainage pipes of basements, garages, swimming pools, sewage treatment plants, etc.

## Function

- The working principle of the trap is based on the gravity principle. When the sewage flows through the U-shaped trap of the pipe, the water in it will accumulate at the bend to form a U-shaped water seal. This water seal can prevent the gas or odor infiltrating in the pipe from flowing back into the room, playing a buffer role.



## Specification

1.1/4" × 32mm  
Siphon side-pipe with O-ring

## Specification

1.1/2" × 42mm Siphon



## Specification

P-trap, chrome plated  
1.1/4" × 32mm



## Specification

Pipe trap for bidet, chrome plated  
1.1/4" × 32mm



# STAINLESS STEEL BRAIDED FLEXIBLE HOSE



No.	Size
3GACc2	F3/8" * F3/8"
3GACc22	F3/8" * F1/2"
3GACc23	F1/2" * F1/2"
3GACc24	F3/4" * F3/4"
3GACc25	F1/2" * F3/4"

## Application Field

- Stainless steel wire braided hoses, with their good corrosion resistance, flexibility, high-temperature resistance, high-pressure resistance, and stress cracking performance, are widely used in the fields of domestic water drainage, petroleum, chemical industry, food, medical treatment, etc.

## Function

- Generally, we provide domestic water braided pipes, which are used to connect water pipes when installing sanitary ware such as washbasins. They are heat and aging resistant, flexible in connection, increase bending resistance, and have a certain shock absorption Function.

## Specification

- PEX inner hose, EPDM washer incorporated
- Stainless steel braid AISI 304
- Nickel plated brass end fittings
- Working Pressure: 10 bar
- Bursting Pressure: 30 bar
- Maximum Temperature: 90°C
- Length (cm): 15/20/25/30/35/40/45/50/60/70/80/90/100 (Please ask for other models)
- Certification: DVGW, KTW-A
- Material: Brass+stainless steel

# WC TAP & WM TAP

## Application Field

- The kitchen and bathroom angle valves are also widely used in the fields of construction decoration and commerce. In large projects such as buildings or hotels, the kitchen and bathroom angle valve can connect different pipes to ensure the correct operation of sewage and clean water systems.

## Function

- After installing the bathroom angle valve, it can play an on-off role. Especially during maintenance, the angle valve can be closed without having to close the main valve, which is very convenient. Moreover, when the water volume is large, it can also play a certain role in regulating the flow.

## Specification

- Maximum working pressure: 16 bar
- Fields of applications: water
- Threads comply with ISO228
- Polish chromed
- Forged brass

### Angle valve chrome



No.	Size
3ATB221	1/2" * 3/8"
3ATB222	1/2" * 1/2"
3ATB223	1/2" * 3/4"

### Angle valve chrome



No.	Size
3ATB323	3/4"

### Tap simple straight chrome



No.	Size
3ATA105	3/4"

# FITTINGS

## Application Field

- It is generally suitable for connection in pressure pipeline systems such as household tap water, gas pipelines, fire systems, refrigeration systems, etc.

## Function

- The pipe fittings are categorized by connection method, including threaded, welded, ferrule, sleeve, quick insert, etc.
- According to the classification of connected pipes, there are PEX fittings, aluminum plastic fittings, rigid pipe fittings, etc.
- According to the classification of fitting materials, there are brass fittings, bronze fittings, stainless steel fittings, carbon steel fittings, plastic fittings, etc.

## 3CA3

---

### Specification

- Easy connection system for copper pipe For use in potable water systems

Fixed Fitting Male



Elbow



Wall Plate Elbow



Tee



## 3CAA

---

### Specification

- Working pressure: 3-16bar
- Working temperature: -20°C to 120°C
- Compression connections comply with EN1254-2
- Natural and CP surface is available

Equal Coupling



Equal Elbow



Equal Tee

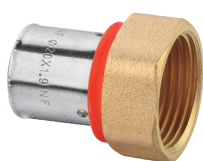


## BDG3

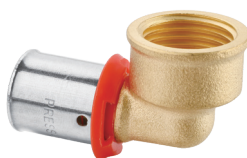
### Specification

- Combines the advantages of metal and plastic pipes Light and flexible
- Small thermal expansion factor
- Certified and fast installing system
- High resistance to pressure and temperature

### Fixed Fitting Female



### End Female Elbow



### Drop Ear Female Elbow



## 2PA3

### Specification

- Push-Fit Fittings allow the user to connect pipe in seconds with relative ease Instant push-fit connection for increased ease-of-use: No soldering required. No heavy or expensive tools Fits OD controlled copper, PEX, PB, Multilayer Pipe: Versatility with all accepted types of pipes Contains an inner lining that is effective in supporting PEX, PB, Multilayer Pipe: Ensures secure, reliable connection Design certified and agency tested For use in potable water systems Approved to be used underground and behind walls without access panels Designed for hydraulic heating as well as potable water distribution





# MANIFOLDS

## Application Field

- Splitters are commonly used pipe fittings that are mainly used in agriculture, industry, and homes to distribute water from pumps or other sources to multiple water outlets to meet different needs.

## Function

- The working principle of the water flow distributor mainly controls the ingress and direction of the water flow by adjusting the valve, and selects the on-off of the branch outlet according to the needs.

## Specification

- Maximum working pressure: 16 bar
- Working temperature: -20°C to 120°C
- Threads comply with ISO228
- Natural and CP surface is available

Female/Male, male connection  
branches, forged brass



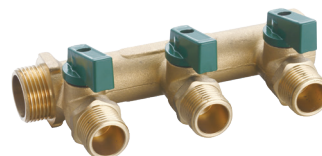
3MFJ

Male/Male, male connection  
branches, forged brass



3MFG

Female/Male, male connection  
branches, with ball valves, forged  
brass



3FML

Male body, connection branches,  
forged brass



3MFR

Male body, connection branches,  
forged brass



3MFS

# BALL VALVES



## Application Field

- Ball valve is a valve widely used in fluid control systems, including domestic water, heating, irrigation, firefighting, sewage treatment, and other fields.

## Function

- The use of a rotating ball to achieve the valve's on-off control Function is one of the most commonly used shut-off valves.

## Specification

- Standard bore
- Maximum working Pressure: 16 bar
- strong corrosion resistance.
- Female thread connections comply with ISO228
- Size: 3/8"-2"
- Material: Stainless steel

No.	Size
3BVG603	3/8"
3BVG604	1/2"
3BVG606	3/4"
3BVG608	1"
3BVG610	1 1/4"
3BVG612	1 1/2"
3BVG614	2"

# GATE VALVES



## Application Field

- A gate valve is a manually operated valve that can be fully opened or closed. It is commonly used in pipeline systems, pump stations, oil pipelines, and other fields.

## Function

- It uses a rotating handwheel and a lifting gate to achieve its open and closed Functions, and is one of the most commonly used shut-off valves.

## Specification

- Maximum working pressure: 16 bar
- Maximum working temperature: 90°C
- Non-rising stem
- Female thread connections comply with ISO228
- strong corrosion resistance.
- Material: Stainless steel

No.	Size
3GVG004	1/2"
3GVG006	3/4"
3GVG008	1"
3GVG010	1 1/4"
3GVG012	1 1/2"
3GVG014	2"

# STOP VALVES



No.	Size
3SWG004	1/2"
3SWG006	3/4"
3SWG008	1"
3SWG010	1 1/4"
3SWG012	1 1/2"
3SWG014	2"

## Application Field

- Home water pipes are one of the common uses of globe valves, but globe valves can also be used in a wide range of fields such as sewage treatment, natural gas transmission, chemical production, and HVAC systems.

## Function

- It mainly plays a role of cut-off and throttling in pipeline systems or production devices. The medium generally flows from bottom to top, so the globe valve has a certain directionality of water flow, which needs special attention during installation.

## Specification

- Maximum working pressure: 16 bar
- Maximum working temperature: 90°C
- Female thread connections comply with ISO228
- strong corrosion resistance.
- Material: Stainless steel

# SWING CHECK VALVES



No.	Size
3CUG004	1/2"
3CUG006	3/4"
3CUG008	1"
3CUG010	1 1/4"
3CUG012	1 1/2"
3CUG014	2"

## Application Field

- Applied to the following scenarios:
- Smaller piping systems, such as residential buildings and small factories;
- Low-pressure and medium-low pressure systems, such as water supply and drainage systems and air conditioning systems;
- Space-restricted locations, such as manhole covers and basements.

## Function

- The valve disc opens or closes automatically by the pressure of the fluid flow to prevent backflow. Its installation must be horizontal and has a flow direction; it can't be installed in reverse.

## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- The flow path is unobstructed, and the fluid resistance is small.
- The disc closes rapidly, low water hammer pressure.
- Material: Stainless steel

# NON-RETURN VALVES



## Application Field

- Applied to the following scenarios:
- Sewage treatment systems: to prevent sewage backflow, affecting water quality and equipment lifespan.
- Tap water pipeline systems: to prevent tap water backflow, polluting water quality and preventing equipment damage.
- Oil and chemical systems: to prevent a backflow phenomenon, thereby protecting equipment and key safety quantities.

## Function

- The valve is controlled by the tension and pressure of the spring and is suitable for vertical or horizontal pipes to prevent backflow. And it has a flow direction; it can't be installed in reverse.

## Specification

- Fields of applications: water
- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Quickly interrupt the reverse flow of water
- Material: Stainless steel

No.	Size
3CVG004	1/2"
3CVG006	3/4"
3CVG008	1"
3CVG010	1 1/4"
3CVG012	1 1/2"
3CVG014	2"

# Y STRAINERS



## Application Field

- Y-type filters are widely used in areas such as domestic water supply, circulating cooling water systems, heat exchange systems, air conditioning and refrigeration systems, central heating systems, and hot water boiler systems.

## Function

- The main principle of Y-type filters is to trap substances smaller than the medium aperture size using the screening mesh, while some screens have special effects such as adsorption to protect the normal operation of equipment and pipelines.

## Specification

- Fields of applications: Water
- Maximum working Pressure: 16 bar
- Maximum working temperature: 95°C
- Coarse filtering of impurities (150um) extends the life of downstream equipment and pipelines.
- Low pressure loss, high flow rate
- No noise (<20dBA)
- Material: Stainless steel

No.	Size
3SYG004	1/2"
3SYG006	3/4"
3SYG008	1"
3SYG010	1 1/4"
3SYG012	1 1/2"
3SYG014	2"

# MINI BALL VALVES



No.	Size
3MBG002	1/2F*1/2F
3MBG102	1/2F*1/2M

## Application Field

- The mini ball valve usually used in small-flow pipelines to control and regulate the fluid, thereby meeting the pipeline system's requirements for fluid control and switching Functions.

## Function

- The working torque of the Mini Ball Valve is not large, and opening and closing are easy. The flow rate in the pipe can be controlled by rotating the ball valve body. The overall size of the valve is relatively small, and operation is convenient.

## Specification

- Fields of applications: water
- Maximum working pressure: 10 bar
- Female thread connections comply with ISO228
- Material: Stainless steel

# WC TAP & WM TAP



No.	Size
3ATG105	1/2"
3ATG205	1/2"
3ATG305	1/2"

## Application Field

- Kitchen and bathroom angle valves are also widely used in building decoration and commercial fields. In large-scale projects such as buildings or hotels, kitchen and bathroom angle valves can connect different pipelines, ensuring the correct operation of sewage and clean water systems.

## Function

- After installing the bathroom angle valve, it can act as a switch, especially during repairs; you can shut off the angle valve without having to shut off the main valve, which is very convenient. Also, when there is a large amount of water, it can play a role in adjusting the flow rate.

## Specification

- Maximum working pressure: 16 bar
- Maximum working temperature: 95°C
- Fields of applications: water
- Threads comply with ISO228
- Material: Stainless steel



# PRESSURE REDUCING VALVES



## Application Field

- Pressure reducing valves are installed in residential water system to reduce and stabilise inlet pressure from the water network which is generally too high and variable for domestic systems to work properly

## Function

- Variable orifice
- Offer best adjustment and shutting capability
- Pressure tapping points available for different flow testing equipments

## Specification

- Maximum Upstream Pressure: 16 bar
- Downstream Pressure Setting Range: 1.5~5.5 bar
- Factory Setting: 3 bar
- Maximum Working Temperature: 70°C
- Pressure Gauge Scale: 0~10 bar
- Pressure Gauge Connection: G1/4"
- Medium: water
- Optional pressure gauge installation
- Material: Stainless steel

No.	Size
3PRG001	1/2"
3PRG002	3/4"
3PRG003	1"
3PRG004	1¼"
3PRG005	1½"
3PRG006	2"

# AIR VENTS



## Application Field

- This product is suitable for water-based closed systems (such as EN12828) for heat dissipation and cooling, such as heating/cooling industry, wind power industry, marine engineering, industrial equipment and other fields. It automatically discharges the air (bubbles) in the system medium, improves efficiency, reduces system oxidation corrosion, and reduces noise.

## Function

- When the system is full of water circulation, the gas in the water constantly escapes to the highest point due to temperature and pressure changes. When the gas accumulation reaches a certain level, the float will fall and drive the valve stem to move downward, the exhaust port will open, and the gas will be constantly discharged.

## Specification

- Max working pressure: 10 bar
- Max working temperature: 110°C
- Applicable medium: Water / ethylene glycol solution
- Max exhaust pressure: 15%
- The connect thread is conformed to the standard ISO 228
- Material: Stainless steel

No.	Size
3AVG101	1/2"
3AVG102	3/4"
3AVG103	1"
3AVG104	1¼"
3AVG105	1½"
3AVG106	2"

# HYDRAYLIC BALANCING VALVES



No.	Size
3STG101	1/2"
3STG102	3/4"
3STG103	1"
3STG104	1¼"
3STG105	1½"
3STG106	2"

## Application Field

- The balance valve is a regulating valve, usually used to adjust the water flow, maintain the water pressure balance, and achieve energy-saving emissions reductions. It is typically used in HVAC systems, industrial refrigeration, water treatment, domestic water, and other Application Field.

## Function

- This series thread static balancing valve boasts the variable orifice instead of the fixed orifice to achieve valve preset and highly enhance system debugging efficiency through valve open turns and KV comparison table. The system balance will be achieved rapidly by working with professional static balancing valve adjustment equipment and adjusting accurately.

## Specification

- Medium: Water
- Maximum Percentage of glycol: 50%
- Maximum working Pressure: PN25
- Temperature range: -10°C~120°C
- Accuracy: ±5%
- Number of setting turns: 4.5
- Connection: 1/2", 3/4", 1"
- Valve body pressure
- Tapping connections: FG1/4"
- Material: Stainless steel

# FITTINGS

## Application Field

- Generally suitable for connections in pressure pipeline systems such as domestic tap water, gas pipelines, fire systems, cooling systems, etc.

## Function

- Generally suitable for connections in pressure pipeline systems such as domestic tap water, gas pipelines, fire systems, cooling systems, etc.
- Fittings are classified according to the connection method, including threads, welding, crimping, clamping, quick insertion, etc.;
- According to the classification of connected pipes, there are PEX fittings, aluminum-plastic fittings, hard pipe fittings, etc.

## Specification

- Maximum working pressure: 16 bar
- Working temperature: -20°C to 120°C
- Threads comply with ISO228
- High corrosion resistance
- Material: Stainless steel

Socket FF



Socket FM



Socket MM



Male Nipple



Male Nipple



Reduce Socket



Socket FF



Elbow



Tee



# Our Journey



**1936**  
Frank V. Enterante & Paul Shaub begin making brass valves



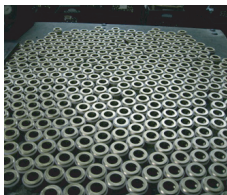
**1940-1945**  
Arrowhead is enlisted to make ammunition for WWII



**1960**  
3rd Generation Frank L. Enterante Develops Frost-Proof Technology



**2014**  
Arrowhead Brass goes lead-free



**2016**  
Global manufacturing supply chain service expansion



**2023**  
Continued globalization in North America & Central America

Reliable  
Proven  
Trusted  
Since  
1936



**1937**  
Pejsa Family in El Monte, California begin making brass bells



**1938**  
Pejsa brothers invent the irrigation anti-siphon valve still used today



**1940**  
The Valley Brass foundry was built



**2006**  
Acquisition of Champion Irrigation and merge and expansion of product lines

**2019**  
Arrowhead Brass began global expansion in Europe



# LIMITED WARRANTY

Arrowhead Brass warrants this products to be free from defects in material or workmanship, under normal use and service, for a period of three years from date of purchase by the original buyer (the "Warranty Period") from an authorized Arrowhead Brass dealer. Arrowhead Brass promises to replace or repair any part of this product that proves to be defective in material or workmanship during the warranty period. Company's liability is solely limited to original purchase price of the parts or products and no payment will be made for consequential or incidental costs or damages that may have been caused by part of product failure. Buyer's remedies are limited to return of the products and either repayment of the original purchase price or repair and/or replacement of nonconforming parts or products. **Products alleged to be defective must be returned to Company in a timely manner for inspection before any remedy may be applied.** The decision on how to remedy parts or products found to be defective will be made at the sole discretion of Arrowhead Brass. In no event shall Arrowhead Brass be liable for incidental or consequential damages, for damages resulting from improper installation, improper repair, or damages caused by neglect, abuse, or alteration. All implied warranties including any implied warranty of merchantability or fitness for any particular purpose are limited to a period of three years from the date of purchase. No person is authorized to change, add to, or create any warranty or obligation other than that set for here in. To obtain warranty service, contact your local dealer and/or contractor from whom you purchased this product. There are no warranties, express or implied, of the merchantability or fitness for a particular purpose, except as expressly described herein.





