



舒朋士微信公众号

中国代表处

舒朋士环境科技（上海）有限公司
地址：上海市杨浦区国宾路36号1506室
电话：021-54737855
邮编：201200

中国工厂及研发中心

舒朋士环境科技（常州）股份有限公司
地址：江苏省常州市武进区景德西路399号
电话：0519-85258081
邮编：213166

更多业务请咨询：400-680-2108 | 或登陆：www.supumps.com.cn

China Office

Supumps Environmental Technology (Shanghai) Co.,Ltd.
Add: Room 1506, No. 36 Guobin Road, Yangpu District, Shanghai,China
Tel: 86-21-54737855
Zip: 201200

China Factory And China R&D Center

Supumps Environmental Technology (Changzhou) Co.,Ltd.
Add: NO.399, Jingde West Road, Wujin District, Changzhou, Jiangsu
Tel: 86-519-85258081
Zip: 213166

www.supumps.com.cn P/N: QY122001 2025年11月第一版

Supumps® 舒朋士®

股票代码:873161

Pneumatic tube bag valve



Building an Ecological Water Environment

To Become a Leading System Solution Provider in the Water Industry



Sponge City



Beautiful Countryside



Black and Odorous Water Remediation



Yangtze River Conservation

Excellence · Innovation · Inclusiveness · Gratitude · Integrity



Supumps is a professional provider of smart drainage system solutions. As one of the earliest promoters, specialized manufacturers, and large-scale producers of integrated prefabricated pump stations in China, Supumps pioneers the integration of high-tech such as IoT, AI, and big data with drainage equipment. The company develops high-quality products and services for industries including integrated intelligent prefabricated pump stations, integrated pump gates, integrated smart interception & lifting chambers, high-dryness dewatering technology for river/lake sediment and construction slurry, and rainwater regulation, storage and treatment solutions. It delivers high-quality products and services for China’s “Sponge City”, “Beautiful Countryside”, “Black and Odorous Water Remediation”, and “Yangtze River Conservation” initiatives. In 2018, Supumps was officially listed on the New Third Board (Stock Code: 873161).

To date, Supumps has obtained over 80 national patents and 7 software copyrights. In 2016, Supumps was successfully selected into the Catalogue of Advanced and Applicable Technologies and Products for Sponge City Construction issued by the Ministry of Housing and Urban-Rural Development (MOHURD), and passed the Construction Industry Scientific and Technological Achievements Evaluation. It is the only company in the industry to receive both honors.

2018: Participated in the compilation of the Green Building Material Evaluation Standard for Integrated Prefabricated Pump Stations, edited by the Science and Technology & Industrial Development Center of MOHURD.

2018: Participated in the compilation of the HMPP Integrated Pump Station Industry Standard, edited by the China Institute of Building Standard Design & Research.

2019: Co-edited the National Standard Reference Atlas for Integrated Pump Stations and the Technical Specification for the Application of Integrated Smart Interception & Lifting Chambers with the China Institute of Building Standard Design & Research.

2020: Participated in the compilation of the Technical Specification for Urban Rainwater Interception Wells in Shanghai, edited by the Shanghai Urban Construction Design & Research Institute and the Shanghai Drainage Administration.

2020: Participated in the compilation of the Technical Specification for Interception Facilities in Combined Sewerage Systems, edited by Beijing University of Civil Engineering and Architecture and Beijing Drainage Group.

2021: Participated in the compilation of the Technical Specification for Urban Rainwater Regulation and Storage, edited by Chongqing Municipal Design Institute.

2021: Participated in the compilation of the Standard Atlas for Municipal Drainage Structures in Chongqing, edited by Chongqing Municipal Design Institute.

2021: Participated in the compilation of the Technical Specification for Integrated Operation Monitoring and Intelligent Management of Urban Drainage Systems and Pump Stations, edited by Tongji University.

2022: Co-edited the national standard Integrated Equipment for Drainage Pump Stations with the China Construction Metal Structure Association.

2023: Participated in the compilation of the national standard Integrated Rainwater Shaft Pump Station Equipment, edited by the Central South Design Institute of China Municipal Engineering.

2024: Participated in the compilation of the national standard Integrated Equipment for Urban Rainwater and Sewage Diversion, Lifting and Pump Stations, edited by the China Institute of Building Standard Design & Research.

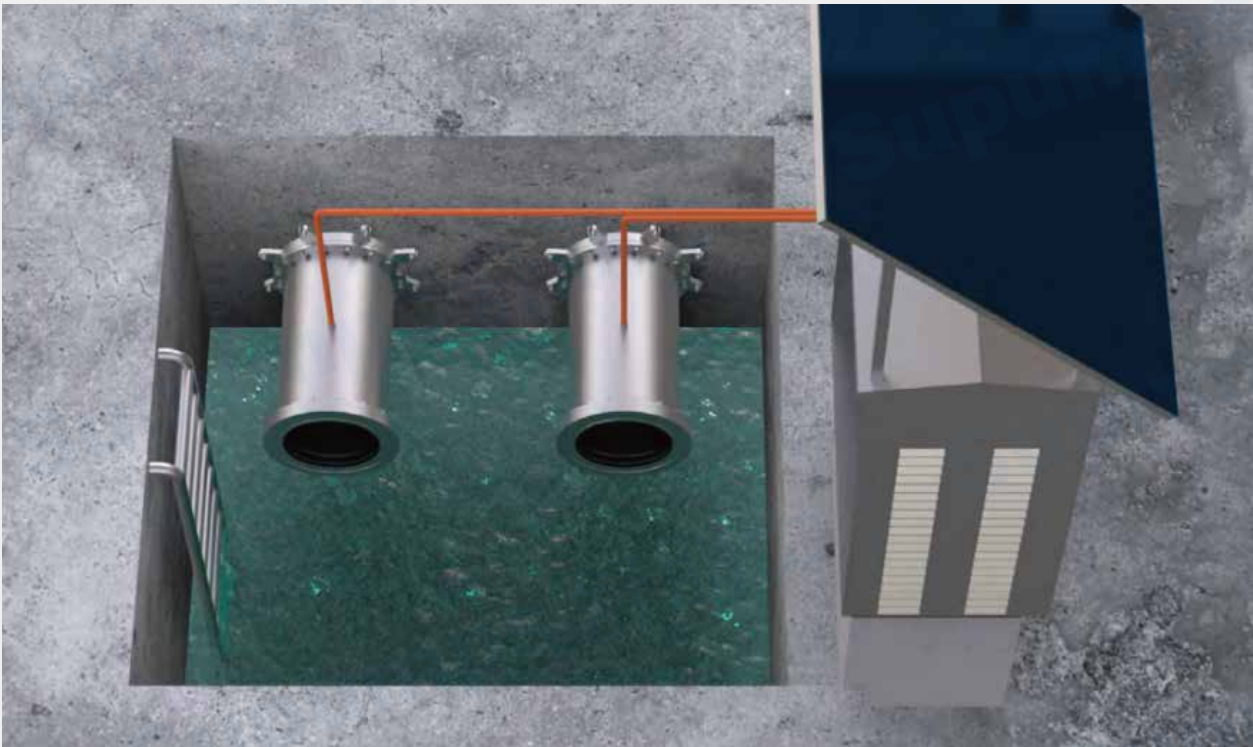
Pneumatic Pinch Valve

Product Overview

Pneumatic Pinch Valve (also known as squeeze valve / airbag valve)
Pneumatic pinch valves are fluid shut-off devices that use a fiber-reinforced rubber sleeve as the only wetted part. With excellent wear and corrosion resistance, they serve as an ideal alternative to traditional ball valves, butterfly valves, and diaphragm valves.
Key features:
Achieves 100% full opening
Smooth, flexible sleeve resists clogging by debris
Provides superior sealing performance for media containing abrasive solids (e.g., particles, fibers, powders, sludges)
For water service versions: trouble-free opening/closing cycle life $\geq 200,000$ times



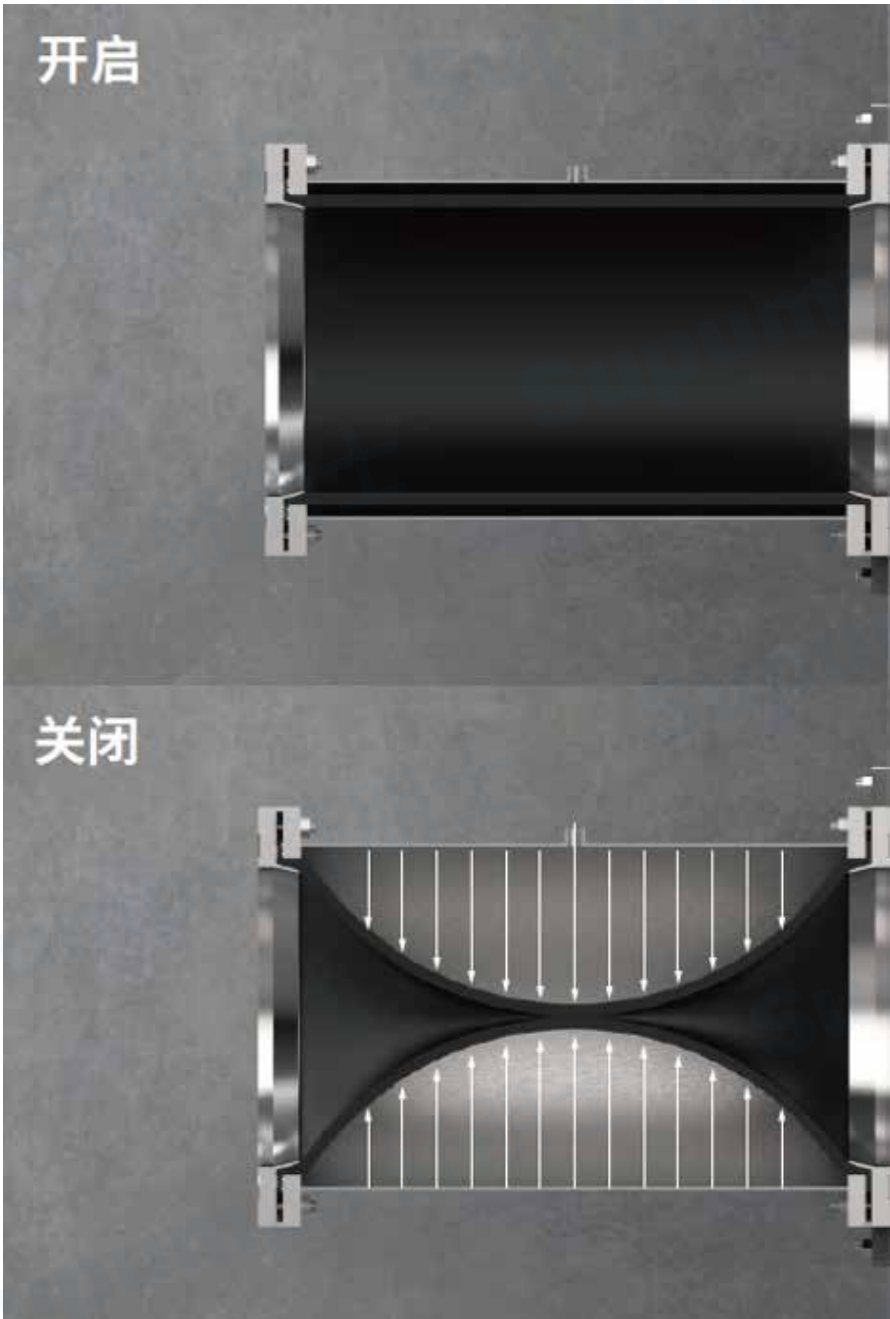
AFG Series



Used for fluid control in bidirectional pipeline connections or unidirectional pipeline connections within manholes.

Working Principle

Between the inner liner and the valve body is an air chamber.
When the air in the chamber is at atmospheric pressure, the inner liner remains in its natural state, and the valve is open.
When the chamber is pressurized with compressed air, the inner liner is squeezed and deformed, closing the valve.
When the compressed air is released, the inner liner returns to its natural state via its own elasticity or the pipeline pressure, reopening the valve.



Features

- 100% full opening; the valve sleeve is smooth and flexible, resisting clogging by debris.
- Excellent sealing performance for media containing abrasive solids such as particles, fibers, powders, and sludges.
- No pressure loss and water hammer resistant.

Main Performance

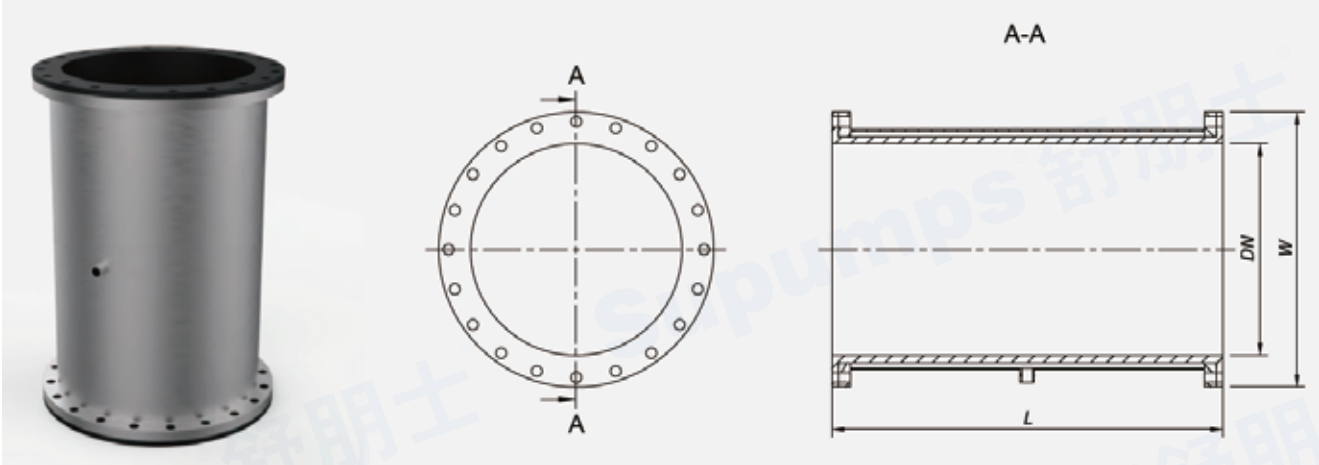
- Application Water conservancy/municipal water projects; discharge management of rain water, sewage, and mixed wastewater
- Leakage: Zero leakage
- Zero-leakage closing pressure differential: 0.05~0.1 MPa
- Medium temperature: 0°C~60°C
- Ambient temperature: -20°C~60°C
- Water pressure: ≤0.15 MPa

Materials

Component	Material
Air Nozzle	Thread type customizable per customer requirements
Valve Body	Stainless steel or carbon steel
Valve Sleeve	Optional materials: natural rubber, nitrile rubber (NBR), EPDM, silicone rubber, neoprene rubber (CR), fluororubber (FKM), etc.
Flange Rating	Customizable per customer requirements

Technical Specifications

AFG-1 Series

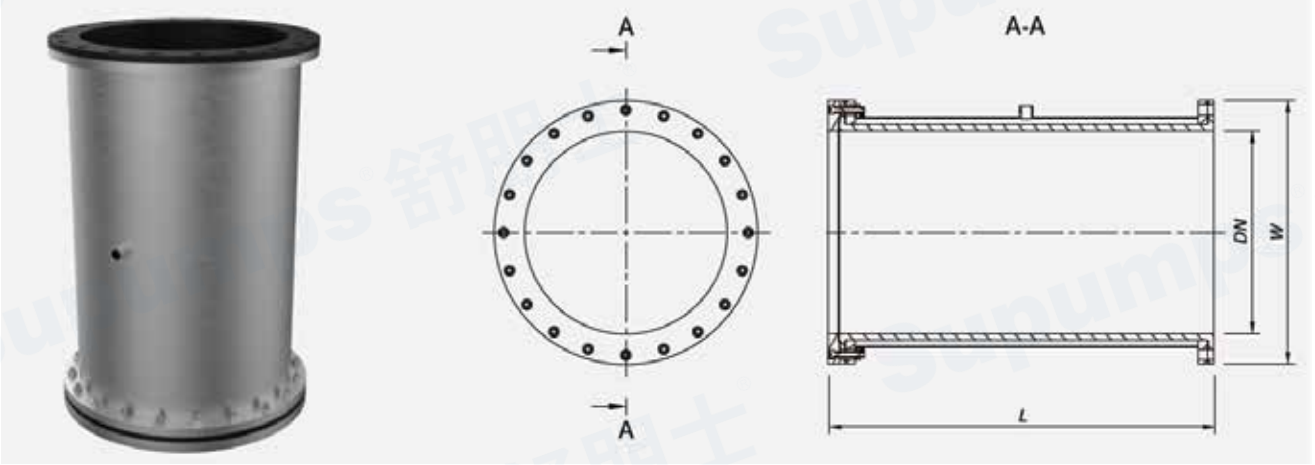


Delivered Configuration Description The delivered unit features rubber-lined flanges at both ends, suitable for installation conditions requiring flange-to-flange connection at both ends of the pipeline.

DN	Dimensions(mm)			Weight (Kg)	Closing Pressure (Bar)	Air Consumption (m³)	Temperature Resistance (°C)	Flange Rating (PN)
	L	W	Air Nozzle					
200	370	335	G1/2	70	0.5~1	0.03	-30~80	10
300	555	440	G1/2	100	0.5~1	0.05	-30~80	10
400	740	565	G3/4	140	0.5~1	0.09	-30~80	10
500	925	670	G3/4	170	0.5~1	0.17	-30~80	10
600	1110	780	G3/4	200	0.5~1	0.27	-30~80	10
800	1480	1010	G1	280	0.5~1	0.61	-30~80	10
1000	1850	1220	G1	550	0.5~1	1.13	-30~80	10
1200	2220	1440	G1	900	0.5~1	1.92	-30~80	6
1600	2960	1915	G1-1/2	3000	0.5~1	4.49	-30~80	6
1800	3330	2115	G1-1/2	4000	0.5~1	6.17	-30~80	6
2000	3700	2325	G2	5500	0.5~1	8.29	-30~80	6

Technical Specifications

AFG-2 Series

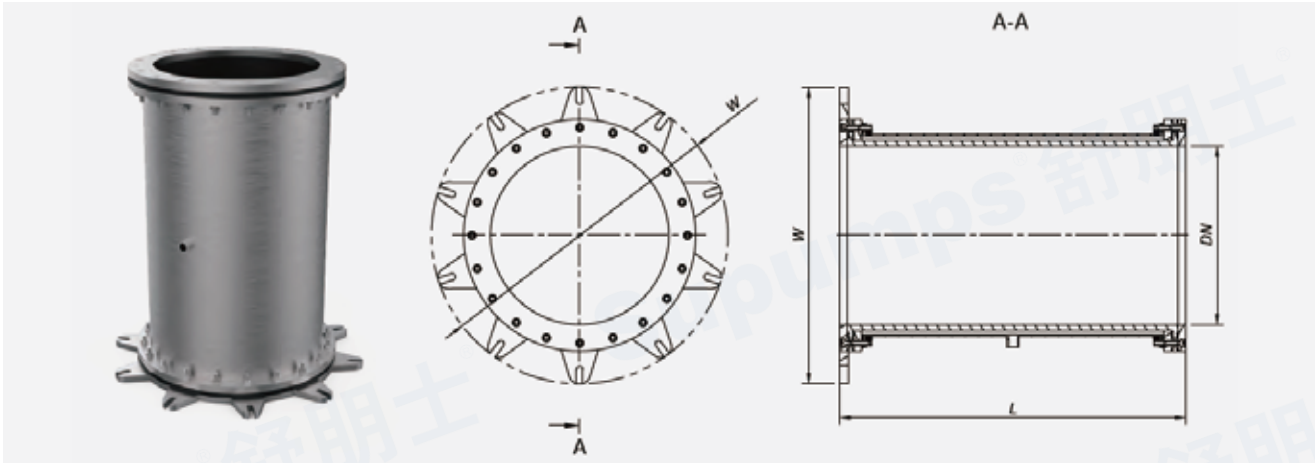


Delivered Configuration Description The delivered unit features a rubber-lined flange at one end for connection to on-site flanges, and a stainless steel flange at the other end (locked in place and serving as the inlet/outlet port). This configuration is suitable for installation conditions requiring flange connection within manholes or chambers.

DN	Dimensions(mm)			Weight (Kg)	Closing Pressure (Bar)	Air Consumption (m³)	Temperature Resistance (°C)	Flange Rating (PN)
	L	W	Air Nozzle					
200	392	335	G1/2	70	0.5~1	0.03	-30~80	10
300	580	440	G1/2	100	0.5~1	0.05	-30~80	10
400	767	565	G3/4	140	0.5~1	0.09	-30~80	10
500	954	670	G3/4	170	0.5~1	0.17	-30~80	10
600	1142	780	G3/4	200	0.5~1	0.27	-30~80	10
800	1514	1010	G1	280	0.5~1	0.61	-30~80	10
1000	1888	1220	G1	550	0.5~1	1.13	-30~80	10
1200	2262	1440	G1	900	0.5~1	1.92	-30~80	6
1600	3016	1920	G1-1/2	1500	0.5~1	4.49	-30~80	6
1800	3390	2120	G1-1/2	2000	0.5~1	6.17	-30~80	6
2000	3764	2320	G2	3000	0.5~1	8.29	-30~80	6

Technical Specifications

AFG-3 Series

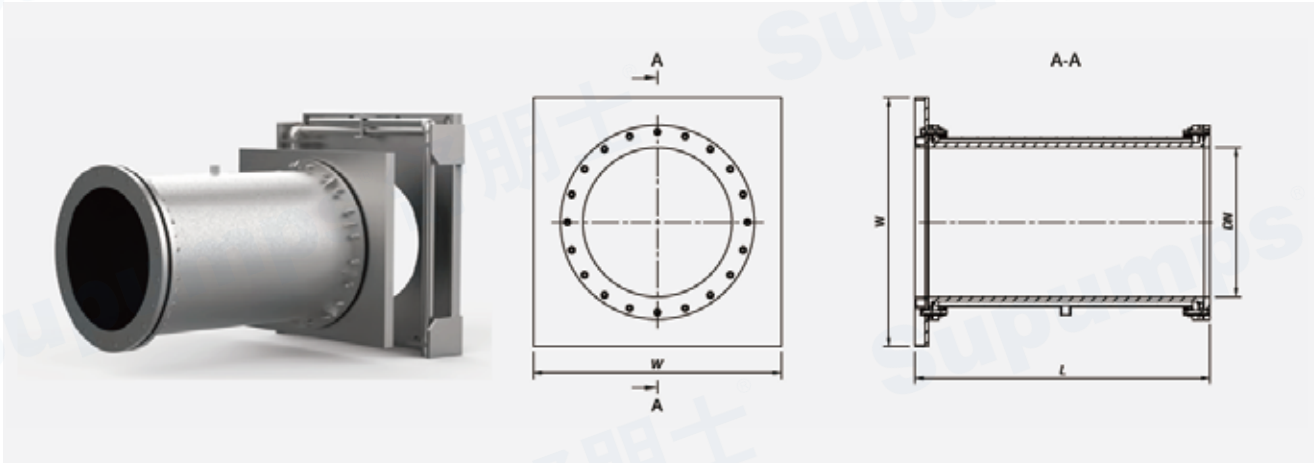


Delivered Configuration Description The unit is supplied with both ends secured by stainless steel flanges. One end functions as the inlet/outlet port, while the opposite end is fitted with mounting claws for wall-mounting at the pipe opening inside the manhole.

DN	Dimensions(mm)			Weight (Kg)	Closing Pressure (Bar)	Air Consumption (m³)	Temperature Resistance (°C)	Flange Rating (PN)
	L	W	Air Nozzle					
200	392	485	G1/2	70	0.5~1	0.03	-30~80	10
300	580	600	G1/2	100	0.5~1	0.05	-30~80	10
400	767	750	G3/4	140	0.5~1	0.09	-30~80	10
500	954	870	G3/4	170	0.5~1	0.17	-30~80	10
600	1142	1000	G3/4	200	0.5~1	0.27	-30~80	10
800	1514	1250	G1	280	0.5~1	0.61	-30~80	10
1000	1888	1480	G1	550	0.5~1	1.13	-30~80	10
1200	2262	1700	G1	900	0.5~1	1.92	-30~80	6
1600	3016	2200	G1-1/2	1500	0.5~1	4.49	-30~80	6
1800	3390	2400	G1-1/2	2000	0.5~1	6.17	-30~80	6
2000	3764	2600	G2	3000	0.5~1	8.29	-30~80	6

Technical Specifications

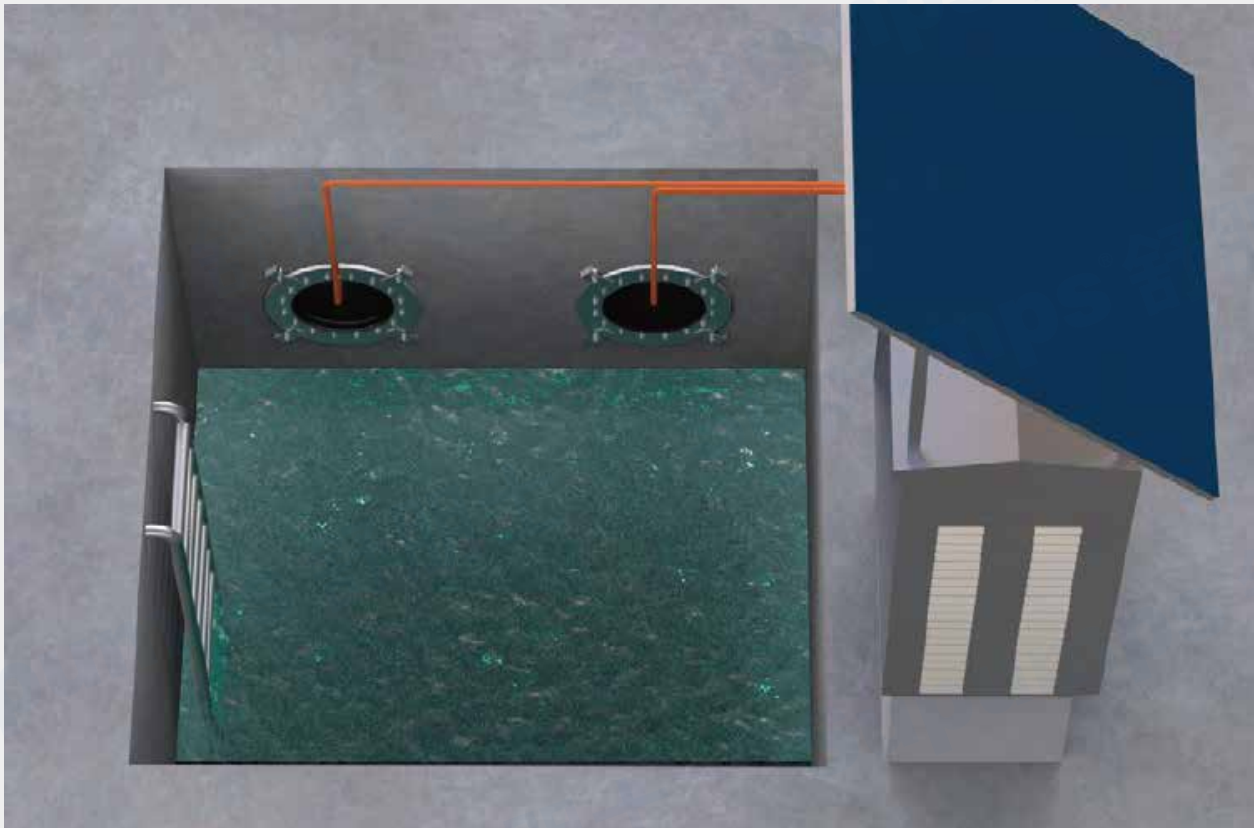
AFG-4 Series



Delivered Configuration Description Composed of two main components (valve body + base plate), designed for rapid installation in confined manholes where personnel access is not possible. A pre-embedded base plate is installed on the wall near the pipe opening, allowing the valve body to be quickly connected to the base plate. This design significantly improves sealing performance, safety, and reliability, while greatly enhancing construction efficiency and reducing installation costs

DN	Dimensions(mm)			Weight (Kg)	Closing Pressure (Bar)	Air Consumption (m³)	Temperature Resistance (°C)	Flange Rating (PN)
	L	W	Air Nozzle					
200	417	550	G1/2	70	0.5~1	0.03	-30~80	10
300	609	700	G1/2	100	0.5~1	0.05	-30~80	10
400	806	800	G3/4	140	0.5~1	0.09	-30~80	10
500	999	900	G3/4	170	0.5~1	0.17	-30~80	10
600	1194	1000	G3/4	200	0.5~1	0.27	-30~80	10
800	1569	1250	G1	280	0.5~1	0.61	-30~80	10
1000	1956	1500	G1	550	0.5~1	1.13	-30~80	10
1200	2336	1800	G1	900	0.5~1	1.92	-30~80	6
1600	3100	2250	G1-1/2	1500	0.5~1	4.49	-30~80	6
1800	3484	2500	G1-1/2	2000	0.5~1	6.17	-30~80	6
2000	3876	2750	G2	3000	0.5~1	8.29	-30~80	6

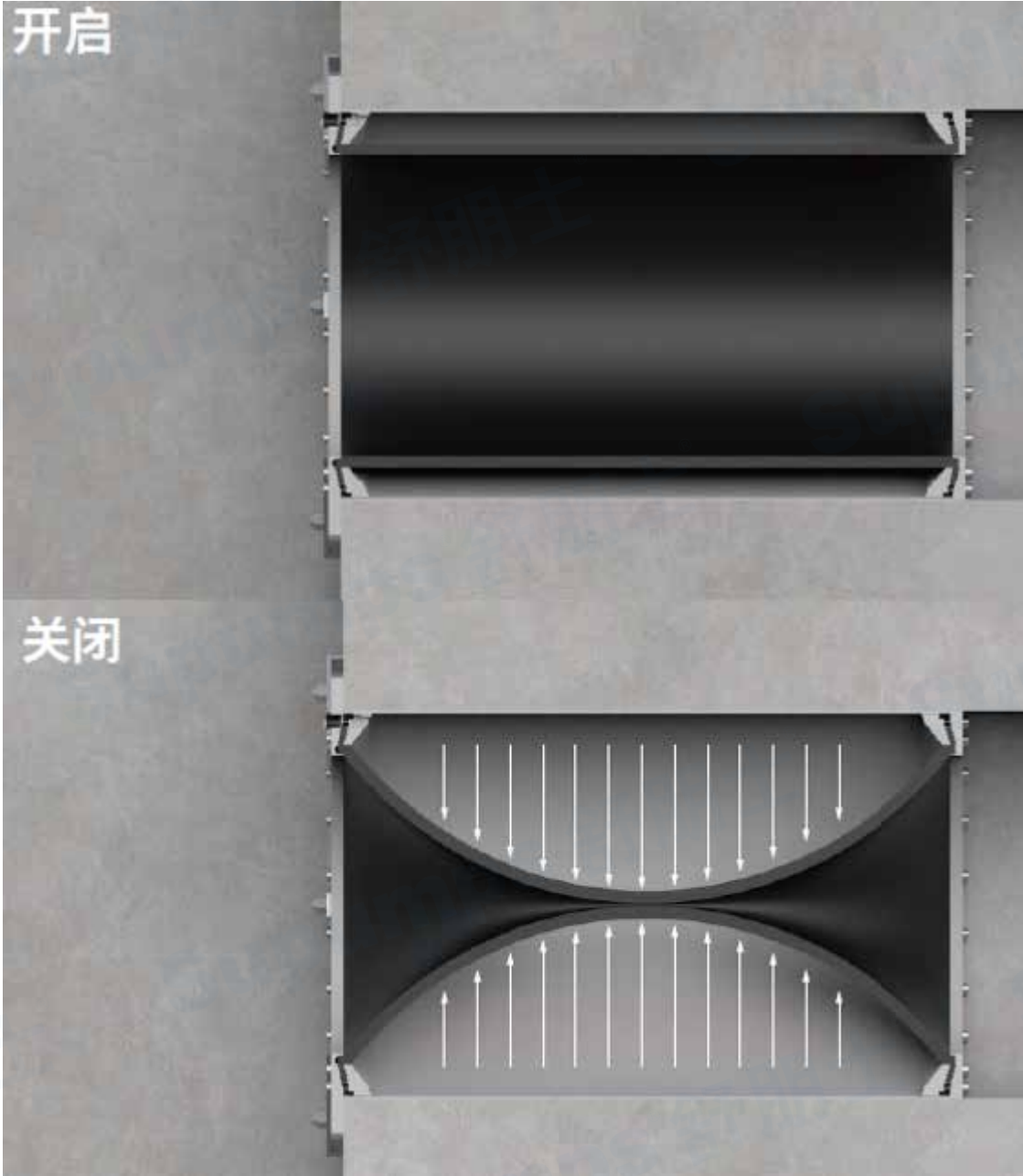
AP Series



Space-saving insertion-type installation inside manholes

工作原理 Working principle

Between the inner liner and the valve body is an air chamber. When the air in the chamber is at atmospheric pressure, the inner liner remains in its natural state, and the valve is open. When the chamber is pressurized with compressed air, the inner liner is squeezed and deformed, closing the valve. When the compressed air is released, the inner liner returns to its natural state via its own elasticity or pipeline pressure, reopening the valve.



Feature

- Full opening up to 100%; the valve sleeve is smooth and flexible, resisting clogging by debris.
- Excellent sealing performance for media containing abrasive solids such as particles, fibers, powders, and sludges.
- Compact footprint, low cost, and easy maintenance.
- Can be inserted inside the pipeline, occupying no external space.
- No pressure loss and water hammer resistant.

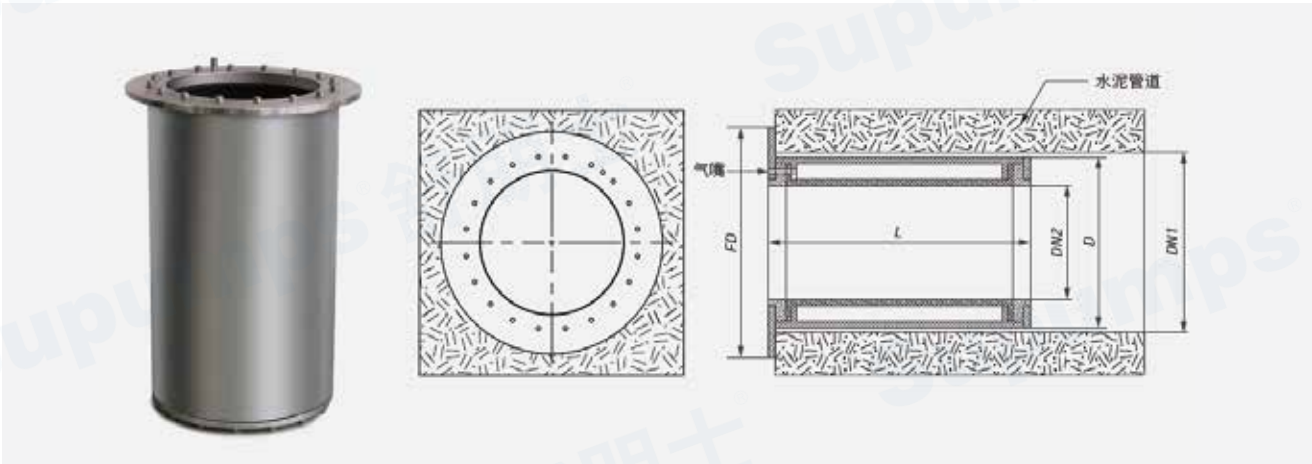
Main performance

- Application Environment: Water conservancy/municipal water projects; discharge management of rainwater, sewage, and mixed wastewater.
- Medium Temperature: 0°C~60°C
- Ambient Temperature: -20°C~60°C
- Water Pressure: ≤0.15MPa

Material

Component	Material
Valve Body	Stainless steel: 304/316/316L (optional)
Valve Sleeve	Natural rubber-based composite rubber, polymers, or polymer composite materials, etc.
Installation Components	Stainless steel: 304, A2-70; silicone rubber

Technical Specifications

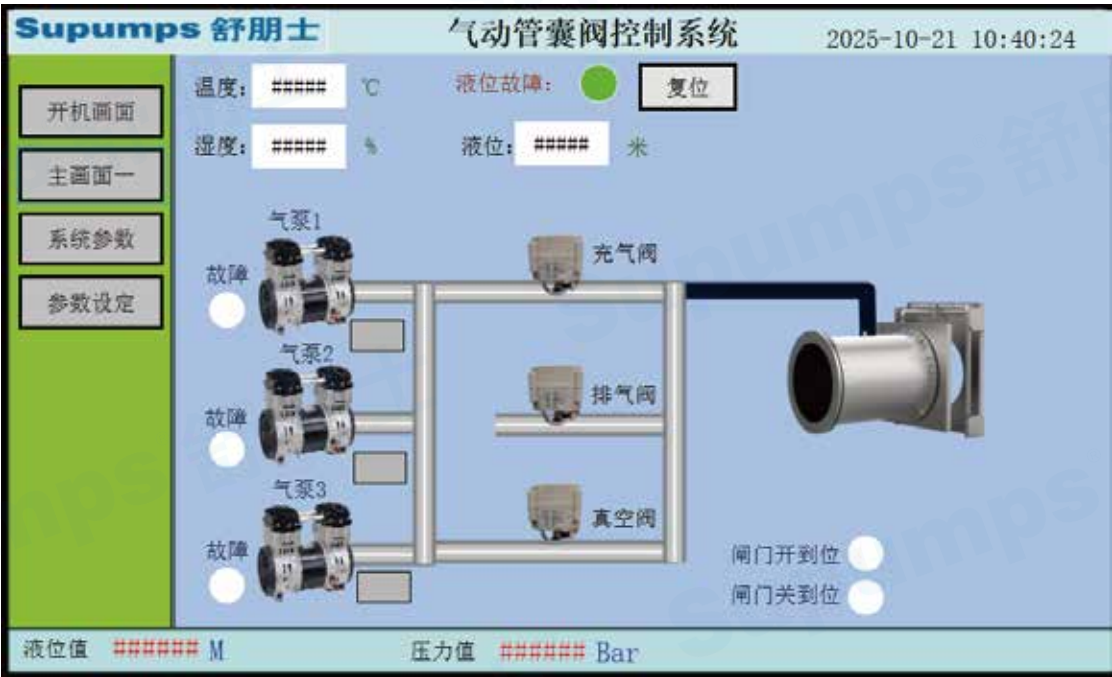


Dimensions(mm)						Weight (kg)	Closing Pressure (Bar)	Air Consumption (m³)
Pipe Inner Diameter DN1	Valve Nominal Diameter DN2	Valve Body Outer Diameter D	Pressure Plate Diameter FD	Total Valve Length L	Air Nozzle (thread customizable)			
200	125	190	260	453	G1/4	30	1.5~2	0.01
300	200	290	400	655	G1/4	40	1.5~2	0.02
400	295	390	500	840	G1/4	70	0.5~1	0.05
500	390	490	600	1013	G3/8	100	0.5~1	0.09
600	480	590	700	1252	G3/8	180	0.5~1	0.15
800	600	780	920	1633	G1/2	340	0.5~1	0.35
1000	800	980	1120	2026	G1/2	550	0.5~1	0.75
1200	1000	1180	1320	2400	G3/4	820	0.5~1	1.4
1600	1380	1580	1740	3154	G3/4	1300	0.5~1	3
1800	1560	1780	1980	3528	G1	2000	0.5~1	4.5
2000	1700	1960	2200	3914	G1-1/2	2400	0.5~1	6

Supumps Smart Cloud

Developed independently by Supumps, the Smart Cloud platform enables true unmanned operation. While focusing on product innovation, we prioritize service quality and efficiency, and conduct in-depth research into industry needs and customer value creation. Our cloud platform supports English mode and is capable of building international industrial IoT systems. Leveraging the technological innovation and automated production capabilities of our "Industry 4.0" smart factory, we strive to keep pace with the "information age" and deliver truly intelligent industrial drainage system solutions.

While providing cloud services via the Web, we also offer convenient mobile alerts to customers via SMS or mobile APP, allowing them to monitor on-site equipment status anytime, anywhere. Additionally, video integration can be added to enable real-time viewing of on-site pump station footage.



Pneumatic Pinch Valve Control System (control panel screenshot)



Standard Outdoor Cabinet (field equipment)



Control Room Remote Monitoring & Operation Platform (control room display)

Smart Pump Station | Unmanned Operation

Unmanned Operation Features



Intelligent control, no on-site personnel required



Control system can be integrated at the top of the pump station



GPRS remote monitoring, full operational visibility



Outdoor-rated design

Functions

- Remote monitoring, operation and maintenance with SMS and phone call alerts
- Monitoring system can be integrated into the owner's existing platform without modification
- Liquid level control with dual protection using hydrostatic pressure sensors and float switches
- Anti-theft alarm for auxiliary lighting and cylinder control cabinets
- Variable frequency drive, electronic soft start, or star-delta start available as required
- Control cabinet size designed based on thermal load calculations, with thermal management system to ensure stable operation
- Control cabinet designed to resist corrosive gas ingress

O&M Platform Advantages



Key Points for Installation and Maintenance

- The valve body can be installed in any orientation, but a minimum clearance of $\geq 20\text{mm}$ must be reserved for sleeve replacement.
- The control medium must be clean, oil-free and moisture-free. It is recommended to install a filter regulator (40 μm filtration rating).
- During disassembly, first release all control pressure, then loosen the valve body bolts to quickly replace the sleeve.
- For long-term idle periods, keep the valve slightly open to prevent permanent deformation of the sleeve.

Optional Attachments

- | | | | |
|--|---|--|---|
| ☐ Solenoid Valve | ☐ Limit Switch | ☐ Positioner | ☐ Filter Regulator |
| ☐ Quick Exhaust Valve | ☐ Vacuum Breaker | ☐ Handwheel Manual Operator | |