



Valves & Gate Valves  
Alarm Devices & Monitoring





Mercatura – or more precisely, the people behind the creation of this brand – have been active in the fire protection industry since the late 1990s. They initially developed their business in Eastern Europe and Asia. In 2015, they decided to expand into Hungary, where the Mercatura brand was established, with its headquarters in Budapest.

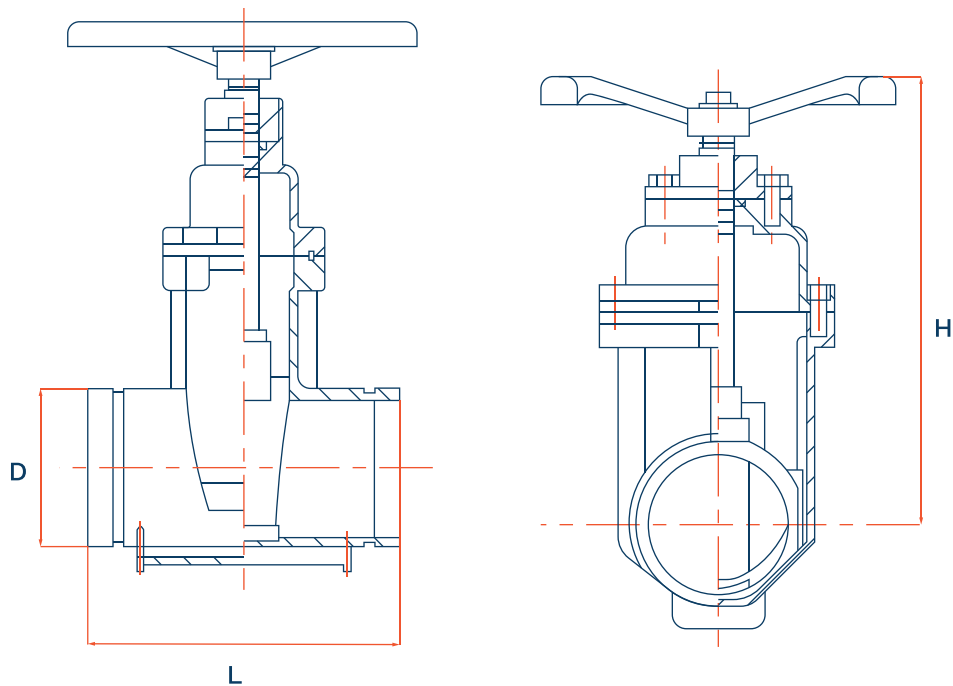
Mercatura is a brand that prides itself on delivering high-quality products. All solutions undergo rigorous in-house testing and are certified by internationally recognized institutions such as FM, UL, CNBOP and PAVUS. The product portfolio continues to grow, and the company's ambitious goal is to provide fire safety solutions across Europe, the Middle East, and Africa.

In 2025, with its main headquarters in Budapest, the company decided to open its own warehouse in Poland. This investment aims to accelerate delivery times and expand the product line with the introduction of grooved fittings systems and DELUGE systems.

Mercatura products are modern, technologically advanced solutions that guarantee proven quality.

**Your safety is our priority.**

# NRS GATE VALVE TRANSIT GV-01/G



**Model:**  
Transit GV-01/G

**Sizes:**  
2"/DN50, 2-1/2"/DN65, 3"/DN80, 4"/DN100, 5"/DN125,  
6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
350 PSI (24 bar)

**Hydrostatic test pressure:**  
450 PSI (31 bar)

**Operating temperature:**  
0°C - 100°C

**End connections:**  
Grooved-end dimensions in accordance  
with ANSI/AWWA C606 or ISO 6182

**Coating:**  
Ductile iron with RAL 3000 epoxy coating

**Notes:**  
The integral bracket allows monitoring of the valve  
in the open position via a supervisory switch.  
If closed-position monitoring is required, please specify  
this before placing the order

## Main Parts & Materials Specification

**Body:**  
Ductile iron A536 65-45-12

**Bonnet:**  
Ductile iron A536 65-45-12

**Wedge (disc):**  
Ductile iron A536 65-45-12 + EPDM

**Stem:**  
Stainless steel SS304 / SS316 / SS420 / SS431

**Yoke:**  
Ductile iron A536 65-45-12

**Handwheel:**  
Ductile iron A536 65-45-12



## Valve Dimension Table

Size (D)			Pressure	Dimensions (mm)		Ref. No
Inches	DN	mm		L	H	
2"	50	60.3	350	178	254	GV-01/G-060
2 1/2"	65	76.1	350	190	275	GV-01/G-076
3"	80	88.9	350	203	301	GV-01/G-089
4"	100	114.3	350	229	355	GV-01/G-114
5"	125	139.7	350	254	443	GV-01/G-139
6"	150	168.3	350	267	448	GV-01/G-168
8"	200	219.1	350	292	548	GV-01/G-219
10"	250	273.0	350	330	626	GV-01/G-273
12"	300	323.9	350	356	722	GV-01/G-324

## Handwheel Closing Torque

Size			Closing torque [Nm]
Inches	DN	mm	
2"	50	60.3	27
2 1/2"	65	76.1	38
3"	80	88.9	65
4"	100	114.3	80
5"	125	139.7	100
6"	150	168.3	125
8"	200	219.1	160
10"	250	273.0	240
12"	300	323.9	300

## Installation

1. Thoroughly clean the piping system and valves; they must be free of debris.
2. Immediately before installation, visually check that the valve seat and ports are clean.
3. Support each valve independently to eliminate movement and pipe strain from connected piping.
4. Confirm the valve pressure class matches the service conditions.
5. Cycle the valve fully from open to closed.
6. Gate valves are not intended for throttling service.
7. Install gate valves vertically on horizontal runs and horizontally on vertical runs

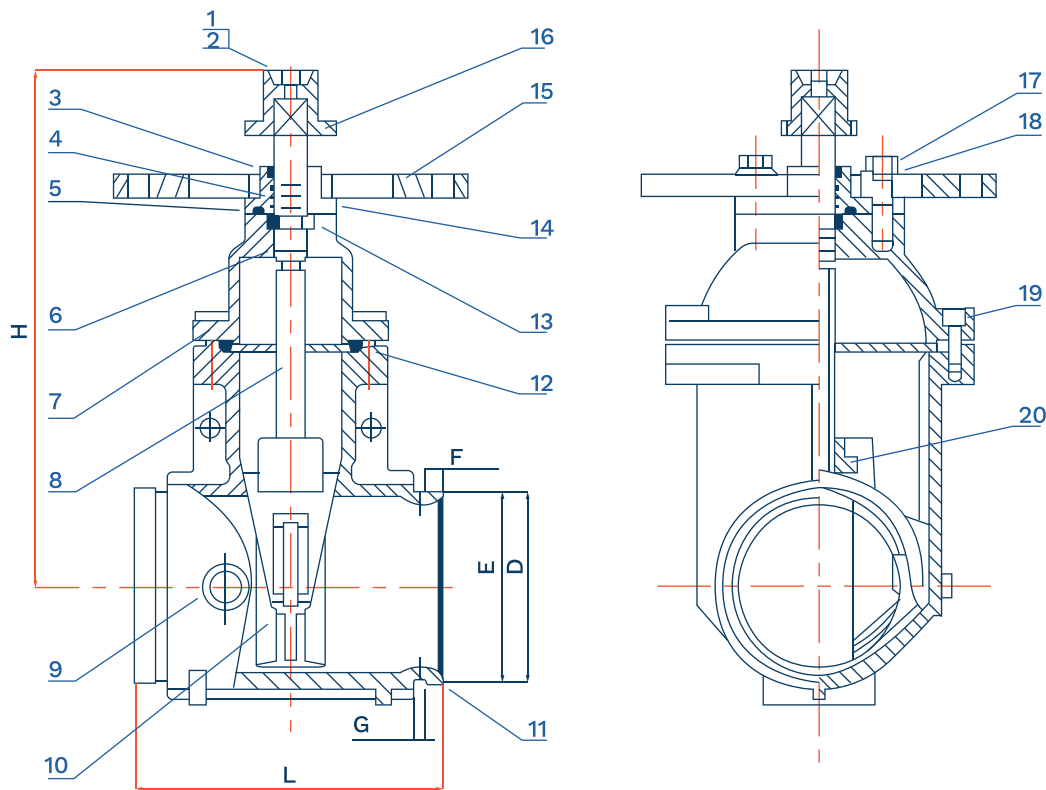
## Operation

Hand-operated, multi-turn valves. They typically open by turning the handwheel counterclockwise and close by turning clockwise.

## Inspection & Maintenance

Periodically inspect and cycle the valves to prevent the accumulation of debris in the piping and valve body.

# GROOVED WEDGE GATE VALVE FOR INDICATOR POST TRANSIT GV-02/G



**Model:**  
Transit GV-02/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125,  
6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
300 psi (21 bar)

**Hydrostatic test pressure:**  
450 psi (31 bar)

**Operating temperature:**  
0°C - 100°C

**End connections:**  
Grooved-end dimensions in accordance  
with ANSI/AWWA C606 or ISO 6182

**Actuation:**  
Indicator post operated

**Coating:**  
Ductile iron with RAL 3000 epoxy coating

**Notes:**  
Design and dimensions per AWWA C515

## Main Parts & Materials Specification

1. Flat washer: Carbon steel	2. Bolt: Carbon steel	3. Sealing ring: EPDM	4. O-ring: EPDM	5. Sealing ring: EPDM
6. O-ring: EPDM	7. Bonnet: Ductile iron	8. Stem: Stainless steel	9. Plug: Bronze	10. Wedge: Ductile iron
11. Body: Ductile iron	12. Sealing ring: EPDM	13. Stem guide: Brass	14. Gland: Ductile iron	15. Indicator-post flange: Ductile iron
16. Square operating nut: Ductile iron	17. Bolt: Carbon steel	18. Flat washer: Carbon steel	19. Bolt: Carbon steel	20. Wedge nut: Bronze



## Valve Dimension Table

Size (D)		Dimensions (mm)						Ref. No
Inches	DN	L	F	D	E	G	H	
2"	50	178	15.9	60.3	57.2	7.9	278	M-GV-02/G-060
2 1/2"	65	190	15.9	76.1	72.3	7.9	292	M-GV-02/G-076
3"	80	203	15.9	88.9	84.9	7.9	322	M-GV-02/G-089
4"	100	229	15.9	114.3	110.1	9.5	342	M-GV-02/G-114
5"	125	254	15.9	139.7	135.5	9.5	412	M-GV-02/G-139
6"	150	267	15.9	168.3	160.8	9.5	448	M-GV-02/G-168
8"	200	292	19	219.1	214.3	11.1	534	M-GV-02/G-219
10"	250	330	19	273	268.3	12.7	635	M-GV-02/G-273
12"	300	356	19	323.9	318.3	12.7	720	M-GV-02/G-324

## Installation

1. Thoroughly clean the piping system and valves; they must be free of debris.
2. Immediately before installation, visually inspect the valve seat and flow passages.
3. Support each valve independently to prevent movement and loads from the connected piping.
4. Verify that the valve pressure rating matches the system requirements.
5. Cycle the valve fully at least once from open to closed.
6. Wedge gate valves are not intended for throttling service.
7. Install gate valves vertically on horizontal runs and horizontally on vertical runs.
8. Additional installation instructions are available in the indicator post data sheet.

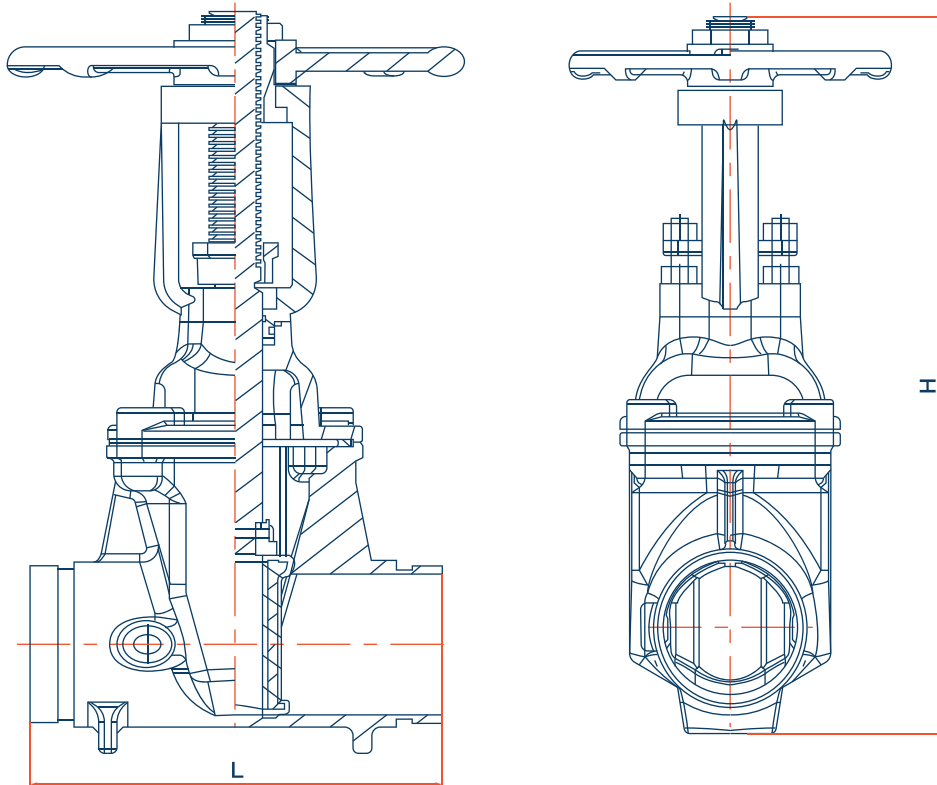
## Operation

Wedge gate valves are hand-operated, multi-turn devices. They typically open by turning the handwheel (or other actuator) counterclockwise and close by turning clockwise.

## Inspection & Maintenance

Valves should undergo periodic inspections and be cycled several turns to prevent the accumulation of debris in the piping and in the valve body

# OUTSIDE SCREW & YOKE GATE VALVE TRANSIT GV-04/G



**Model:**  
Transit OS&Y GV-04/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125,  
6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
300 psi (21 bar)

**Hydrostatic test pressure:**  
450 psi (31 bar)

**Operating temperature:**  
0°C - 100°C

**End connections:**  
Grooved-end dimensions in accordance  
with ANSI/AWWA C606 or ISO 6182

**Coating:**  
Ductile iron with RAL 3000 epoxy coating

**Notes:**  
Design and dimensions per AWWA C515

## Main Parts & Materials Specification

**Body:**  
Ductile iron A536 65-45-12

**Bonnet:**  
Ductile iron A536 65-45-12

**Wedge (disc):**  
Ductile iron A536 65-45-12 + EPDM

**Stem:**  
Stainless steel SS304 / SS316 / SS420 / SS431

**Yoke:**  
Ductile iron A536 65-45-12

**Handwheel:**  
Ductile iron A536 65-45-12



## Valve Dimension Table

Size (D)			Dimensions (mm)			Ref. No
Inches	DN	mm	L	H min	H max	
2"	50	60.3	178	420	482	M-GV-04/G-060
2 1/2"	65	76.1	190	435	505	M-GV-04/G-076
3"	80	88.9	203	500	584	M-GV-04/G-089
4"	100	114.3	229	580	687	M-GV-04/G-114
6"	150	168.3	267	770	931	M-GV-04/G-168
8"	200	219.1	292	930	1136	M-GV-04/G-219
10"	250	273.0	330	1125	1383	M-GV-04/G-273
12"	300	323.8	356	1295	1604	M-GV-04/G-324

## Handwheel Closing Torque

Size			Closing torque [Nm]
Inches	DN	mm	
2"	50	60.3	27
2 1/2"	65	76.1	38
3"	80	88.9	65
4"	100	114.3	80
6"	150	168.3	125
8"	200	219.1	160
10"	250	273.0	240
12"	300	323.8	300

## Installation

1. Thoroughly clean the piping system and valves; they must be free of debris.
2. Immediately before installation, visually inspect the valve seat and flow passages.
3. Support each valve independently to prevent movement and loads transmitted from the connected piping.
4. Verify that the valve pressure rating matches the system service conditions

## Operation

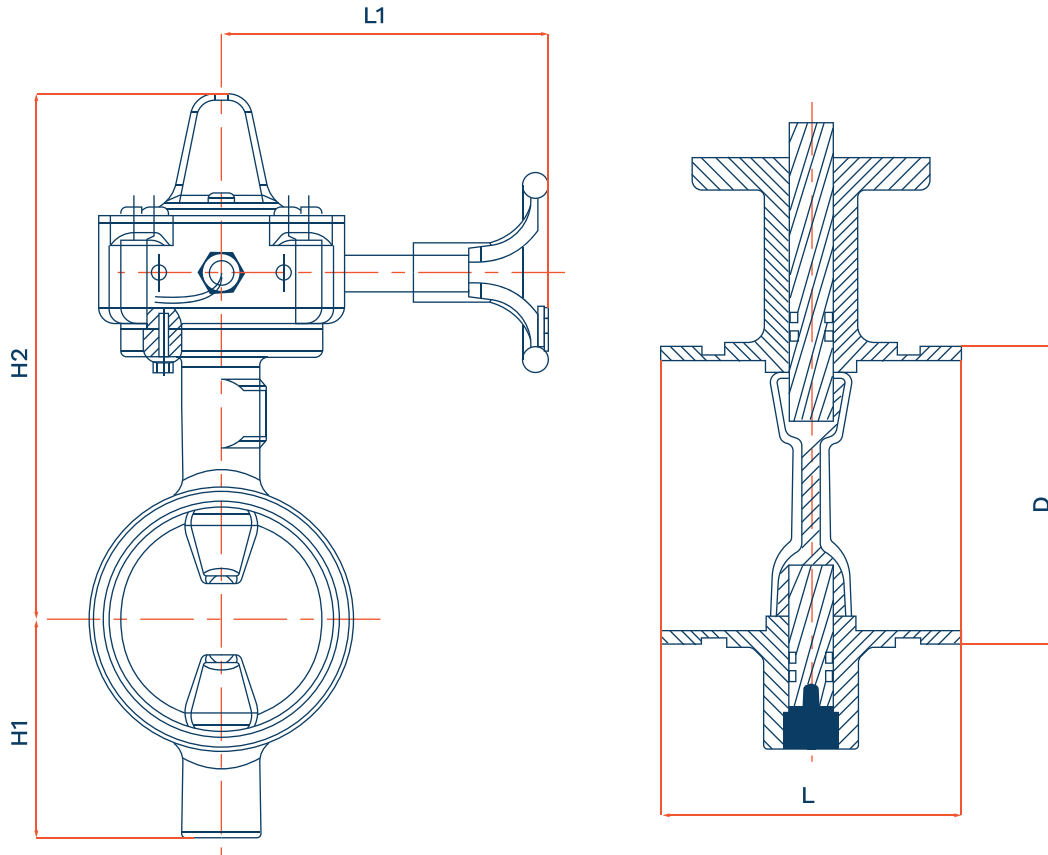
Wedge gate valves are hand-operated, multi-turn devices. They typically open by turning the handwheel (or other operator) counterclockwise and close by turning clockwise.

## Inspection & Maintenance

1. Perform regular inspections and cycle the valve several turns to prevent debris build-up in the piping and valve body.
2. If leakage is observed at the packing area, tighten the gland nuts evenly—about a quarter turn clockwise—to increase packing compression.
3. Replace packing only with the system depressurized. Although a backseat allows replacement under pressure, this method is not recommended.
4. Perform at least one full cycle from fully open to fully closed.
5. Before pressurizing the system, verify the gland nuts are correctly tightened.
6. Wedge gate valves are not intended for throttling service.
7. Install gate valves vertically on horizontal runs and horizontally on vertical runs.

# BUTTERFLY VALVE MONARCH

## BFV-02/G



**Model:**  
Monarch BFV-02/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125,  
6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
300 psi (21 bar)

**Hydrostatic test pressure:**  
450 psi (31 bar)

**Operating temperature:**  
0°C - 100°C

**End connections:**  
Grooved-end dimensions in accordance  
with ANSI/AWWA C606 or ISO 6182

**Actuation:**  
Gear operator

**Coating:**  
Ductile iron with RAL 3000 epoxy coating

**Supervisory switches:**  
BFV gearbox includes one internal supervisory (tamper)  
switch and one internal auxiliary switch

**Notes:**  
Valves may be used outdoors. Painted/coated surfaces  
can show wear or corrosion during service; this does not  
affect proper operation.

Install butterfly valves at appropriate distances from  
pumps, elbows, expanders, reducers and other  
fittings; as a rule of thumb keep at least five pipe  
diameters of straight run.

## Main Parts & Materials Specification

**Body:**  
Ductile iron A536 65-45-12

**Short shaft:**  
Stainless steel AISI 431

**Wedge (disc):**  
Ductile iron A536 65-45-12 + EPDM

**Signalling gearbox:**  
Stainless steel SS304 / SS316 / SS420

**Shaft:**  
Stainless steel AISI 431

**Handwheel:**  
Ductile iron A536 65-45-12



## Valve Dimension Table

Size (D)			Dimensions (mm)			Ref. No
Inches	DN	mm	L	H min	H max	
2"	50	60.3	178	420	482	M-BFV-02/G-060
2 1/2"	65	76.1	190	435	505	M-BFV-02/G-076
3"	80	88.9	203	500	584	M-BFV-02/G-089
4"	100	114.3	229	580	687	M-BFV-02/G-114
6"	150	168.3	267	770	931	M-BFV-02/G-168
8"	200	219.1	292	930	1136	M-BFV-02/G-219
10"	250	273.0	330	1125	1383	M-BFV-02/G-273
12"	300	323.8	356	1295	1604	M-BFV-02/G-324

## Design Requirements

1. Use only couplings and piping components with the appropriate system approvals.
2. Ensure the valve's rated pressure and temperature range match the installation service conditions.
3. Provide service access to the gearbox and any signalling/monitoring components.
4. Provide straight runs upstream and downstream of the valve and properly support the piping to minimise distortion and ensure a tight, reliable installation.

## Installation

Handle the valve carefully to avoid damage to the seat and sealing surfaces.

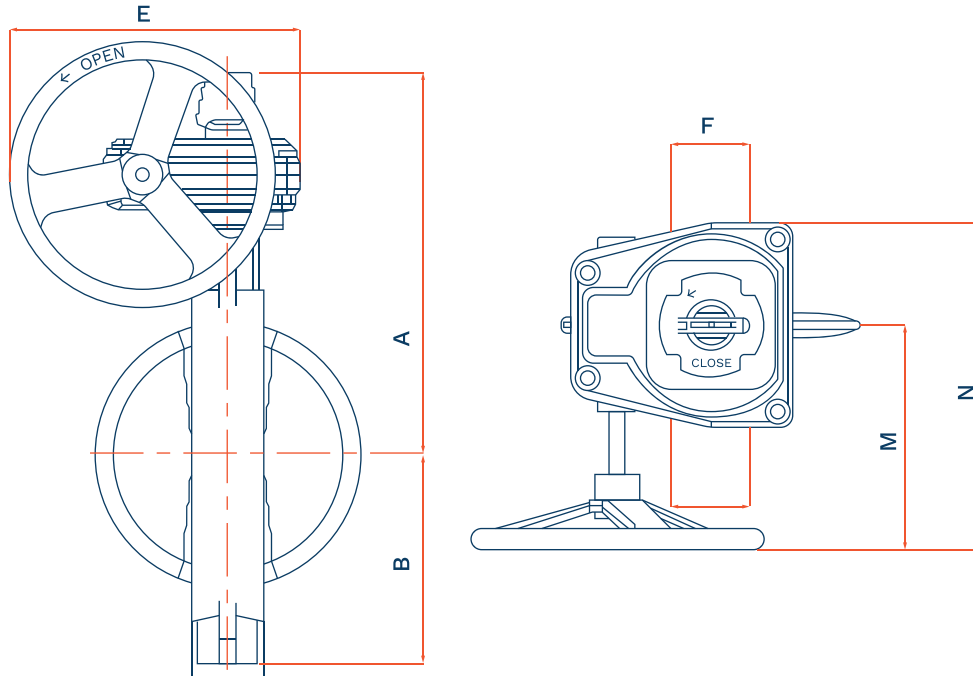
1. Verify the valve PN/class matches the system parameters.
2. Thoroughly clean and flush the pipeline and all mating components.
3. Immediately before installation, check that the seat and flow passage are clean; cycle once from open to closed.
4. Lightly lubricate coupling gaskets with an EPDM/NBR-compatible lubricant.
5. Place the valve between the pipes and orient it to the flow arrow on the body.
6. Install with the disc almost fully closed. Before final tightening, ensure the disc does not rub the pipe edges and moves freely.
7. Tighten all connectors evenly per the coupling manufacturer's instructions. Do not use the valve as a lever to align piping and do not apply excessive torque to the gearbox.
8. Independently support upstream and downstream piping to avoid transferring stresses to the body.
9. Route control lines and wiring (if signalling is used) in accordance with local codes and fire-protection requirements.

**Note:** Using impact tools or excessive force may damage sealing elements and may void the warranty.

## Inspection & Maintenance

1. Perform inspections at least once a year or as required by the authority having jurisdiction (AHJ).
2. Check the tightness of joints, correct operation of the gearbox, and absence of leakage at the seat.
3. Installation, inspections, and repairs must be carried out by qualified personnel authorized by the relevant bodies.
4. If full closure cannot be achieved, check for debris in the flow path and around the seat; clean the system and retest as needed.
5. After any intervention, verify that the valve operates correctly and continues to meet approval requirements.

# BUTTERFLY VALVE MONARCH BFV-02/W



**Model:**  
Monarch BFV-02/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150,  
8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
300 psi (21 bar)

**Hydrostatic test pressure:**  
450 psi (31 bar)

**Operating temperature:**  
0°C - 100°C

**End connections:**  
Grooved-end dimensions in accordance  
with ANSI/AWWA C606 or ISO 6182

## Main Parts & Materials Specification

**Body:**  
Ductile iron A536 65-45-12

**Wedge (disc):**  
Stainless steel SS431 (AISI 431)

**Shaft:**  
Ductile iron + EPDM

**Worm:**  
Ductile iron A536 65-45-12

**Signalling gearbox:**  
Ductile iron A536 65-45-12

**Handwheel:**  
Ductile iron A536 65-45-12

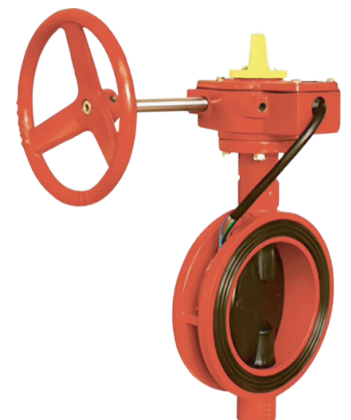
**Actuation:**  
Gear operator

**Coating:**  
Ductile iron with RAL 3000 epoxy coating

**Supervisory switches:**  
BFV gearbox includes one internal supervisory (tamper)  
switch and one internal auxiliary switch

**Notes:**  
Valves may be used outdoors. Painted/coated surfaces can  
show wear or corrosion during service; this does not affect  
proper operation.

Install butterfly valves at appropriate distances from pumps,  
elbows, expanders, reducers and other fittings; as a rule  
of thumb keep at least five pipe diameters of straight run.



## Valve Dimension Table

Size (D)			Dimensions (mm)						Ref. No
Inches	DN	MM	A	B	E	F	M	N	
2"	50	60.3	230/9.00	74/2.91	43/1.69	190/7.48	150/5.90	228/8.98	M-GV-02/G-060
2 1/2"	65	76.1	2240/9.45	85/3.35	46/1.81	190/7.48	150/5.90	228/8.98	M-GV-02/G-076
3"	80	88.9	250/9.85	95/3.75	46/1.81	190/7.48	150/5.90	228/8.98	M-GV-02/G-089
4"	100	114.3	265/10.45	114/4.55	52/2.06	190/7.48	150/5.90	228/8.98	M-GV-02/G-114
5"	125	139.7	280/11.00	130/5.10	56/2.19	215/8.46	150/5.90	228/8.98	M-GV-02/G-139
6"	150	168.3	295/11.60	145/5.70	56/2.19	215/8.46	150/5.90	228/8.98	M-GV-02/G-168
8"	200	219.1	360/14.15	170/6.70	60/2.38	280/11.02	200/7.85	303/11.93	M-GV-02/G-219
10"	250	273.0	410/16.15	210/8.30	68/2.70	280/11.02	200/7.85	303/11.93	M-GV-02/G-273
12"	300	323.9	435/17.10	240/9.50	79/3.13	280/11.02	200/7.85	303/11.93	M-GV-02/G-324

## Design Requirements

- Install the butterfly valve only with approved grooved couplings and piping components.
- Bidirectional flow; the valve may be installed in any orientation.
- The gear operator with handwheel provides slow closing to reduce water hammer when operating under flow.
- With the disc fully open, the valve introduces very low throttling and minimal pressure loss.

## Installation

Handle the valve carefully to avoid damage to the seat and sealing surfaces. Before installation:

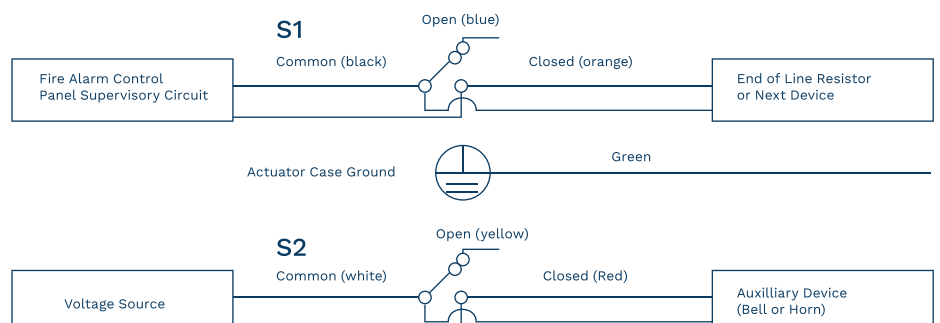
1. Verify the valve pressure class matches the service conditions.
2. Clean the pipeline and flange faces.
3. Place the valve between the flanges and insert bolts/nuts so the gasket/elastomer seats uniformly on the flange faces.
4. Install with the disc nearly fully closed.
5. Before final tightening, gently open the valve and ensure the disc does not rub pipe edges and moves freely.
6. For lug bodies insert bolts and tighten evenly to achieve uniform gasket compression. Do not force wafer valves into gaps that are too narrow—this may damage the elastomer.
7. Provide independent support for the piping upstream and downstream of the valve to prevent loads being transferred to the body. Do not use the valve to correct pipe alignment.
8. Do not apply excessive torque to the gearbox or use cheater bars to set the valve. Excess force may damage parts and sealing surfaces and may void the warranty.
9. Route conduit and wiring for supervisory/auxiliary switches (if used) in accordance with local codes and fire-protection requirements.

## Inspection & Maintenance

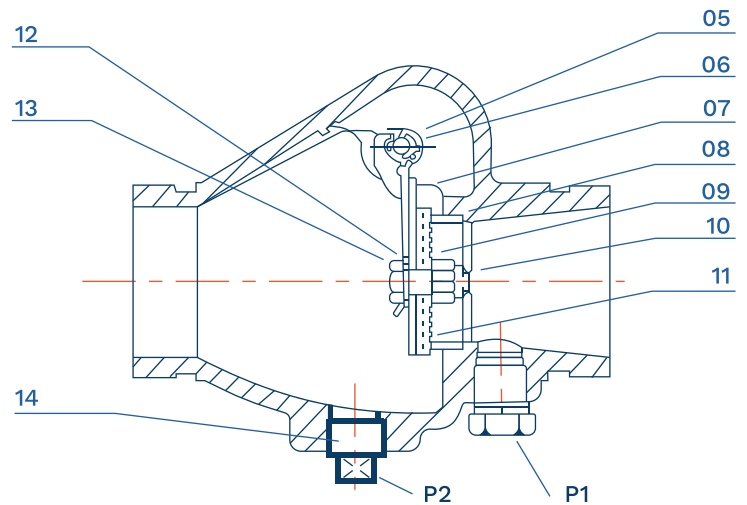
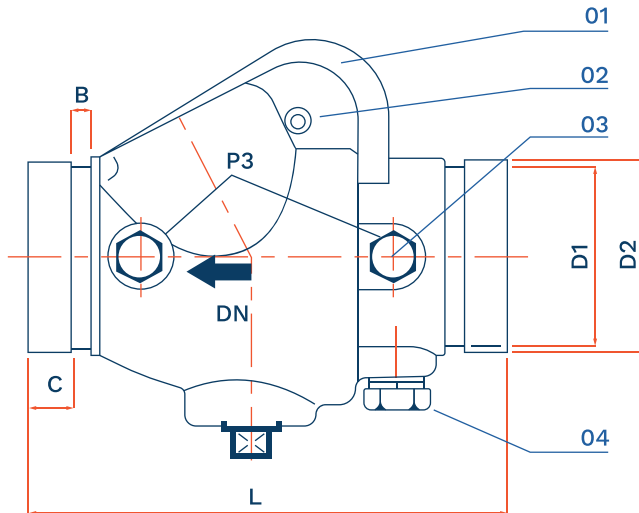
1. Perform inspections at least once a year or as required by the authority having jurisdiction.
2. Check joint tightness, correct gearbox operation and absence of leakage at the seat.
3. Installation, inspections and repairs must be performed by qualified personnel authorized by the relevant bodies.
4. If full shutoff cannot be achieved, check for debris in the flow path and around the seat; clean the system and retest.
5. After any intervention, verify proper operation and continued compliance with approvals.
6. After any intervention, verify that the valve operates correctly and continues to meet approval requirements.

## Connection Instruction

The BVW-1 valve is supplied with one built-in supervisory position switch and one auxiliary switch. Both are actuated by a cam coupled to the valve stem and indicate the closed position. Install and configure in accordance with applicable standards and local authority requirements. The switches change state and make the circuit after two full turns of the handwheel from the fully open position.



# GROOVED CHECK VALVE UNDA CV-04/G



**Model:**  
Unda CV-04/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
350 psi (24 bar)

**Hydrostatic test pressure:**  
700 psi (48 bar)

**Operating temperature:**  
0°C - 80°C

**Flange standards:**  
ASME/ANSI B16.1 Class 125 or ASME/ANSI B16.42 Class 150 or BS EN 1092-2 PN16 or GB/T 9113.1

**Application:**  
Used in one-way flow systems to prevent reverse flow of water

**Coating:**  
Epoxy coated inside and outside by electrostatic spraying

**Grooving standard:**  
ANSI/AWWA C606 or metric

## Main Parts & Materials Specification

- |   |                                    |   |
|---|------------------------------------|---|
| 1. Valve body:<br>Ductile iron            | 2. Bolt:<br>Steel 1045             | 3. Plug:<br>Steel 1045                              |
| 4. Plug:<br>Steel 1045                    | 5. Spring:<br>Stainless steel 304  | 6. Hinge pin:<br>Stainless steel 304 / Ductile iron |
| 7. Clapper (disc):<br>Stainless steel 304 | 8. Seat:<br>C95400 aluminum bronze | 9. Retaining ring:<br>Stainless steel 304           |
| 10. Locknut:<br>Stainless steel 304       | 11. Face gasket:<br>EPDM           | 12. Gasket:<br>EPDM                                 |
| 13. Bolt:<br>Stainless steel 304          | 14. Plug:<br>Steel 1045            |   |



## Valve Dimension Table

Size	L	D1	D2	B	C	P1	P2						P3		
2" (DN50)	169	57.15	60.3	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
2 1/2" (DN65)	181	72.26	76.1	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
3" (DN80)	198	84.94	88.9	7.95	15.88	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
4" (DN100)	214	110.08	114.3	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
5" (DN125)	248	135.48	139.7	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
6" (DN150)	270	163.96	168.3	9.53	15.88	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
8" (DN200)	325	214.4	219.1	11.13	19.05	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
10" (DN250)	457	268.3	273	12.7	19.05	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT
12" (DN300)	535	318.3	323.9	12.7	19.05	Rc1/2-14	Rc1/2-14	Rc1/2-14	Rc1-11	Rc1 1/4-11	Rc1 1/2-11	Rc2-11	Rc1/4-19	Rc3/8-19	Rc1/2-14
						1/2-14NPT	1/2-14NPT	1/2-14NPT	1-11.5NPT	1 1/2-11.5NPT	1 1/2-11.5NPT	2-11.5NPT	1/4-18NPT	3/8-18NPT	1/2-14NPT

## Installation

Upon receipt of valves supplied by Mercatura, handle them with care to prevent damage to sealing surfaces and internal seating components.

1. Verify that the valve pressure rating complies with the system operating requirements.
2. Thoroughly clean all piping and flange faces prior to installation.
3. Immediately before installation, visually check that the valve seat and flow passages are clean.
4. Cycle the valve from fully open to fully closed at least once before installation.
5. Confirm that the flow direction matches the marking on the valve body.
6. For vertical installation, check valves must be installed with upward flow.
7. For horizontal installation, orient the valve so the clapper can freely return to the closed position (see illustration on page 1).
8. Center the valve between the mating flanges.
9. Insert and tighten the bolts evenly to ensure uniform contact between the flange face and the elastomer. Do not force the valve between flanges, as this may damage the elastomer.
10. To prevent distortion, properly support the piping connected to both the inlet and outlet of the valve. Do not use the valve body as a structural member or a pipe support when aligning piping.

## Inspection & Maintenance

Valves should be inspected and tested annually, or as required by local regulations. Verify the following:

1. No leakage at the pipe joints of the valve or between the valve and its body/bonnet.
2. All installation, inspection and maintenance work is performed by a qualified technician authorized by the relevant bodies.
3. If the valve does not close smoothly, check the flow path and seating surface for debris or foreign matter.

## Maintenance recommendations

1. Perform regular, scheduled inspections to prevent accumulation of foreign materials in the piping and within the valve body.
2. Replace damaged clappers (discs) or bonnet gaskets as necessary.

# WET ALARM VALVE GUBER AV/G WITH EUROTRIM ACCESSORIES (UL–FM market)

The Mercatura Guber AV/G wet alarm check valve is a hydraulically operated clapper valve for wet sprinkler systems. It maintains a pressurized water column above the clapper to prevent reverse flow. Under sustained flow—e.g. after one or more sprinklers operate—the valve generates an alarm signal via an optional water motor gong and/or an alarm pressure switch. In supplies with varying pressure, the integrated standard retard chamber damps transient fluctuations so that alarm devices activate only under genuine, sustained alarm flow.

## Operation

When a sprinkler operates, pressure on the system side drops. Once it falls below the supply side, the clapper lifts off its seat, directing water to the system piping and simultaneously to the alarm line (optionally through the retard chamber) to actuate the alarm.

Transient phenomena on the supply side—such as pressure surges or water hammer—can momentarily lift the clapper and cause nuisance alarms. The wet alarm valve mitigates this risk with two features:

- **External pressure bypass.** A dedicated bypass line offsets the surge across the clapper by raising system-side pressure, keeping the clapper seated and preventing unintended lift.
- **Retard chamber assembly (Model E, optional).** If a surge still admits water to the alarm line, the chamber delays transmission of the signal. Properly selected inlet and drain orifices allow the chamber to partly drain before filling, so the alarm device trips only under sustained flow. An inlet strainer protects the orifice from debris.

Together these measures ensure reliable operation and minimize nuisance alarms caused by supply-side pressure fluctuations.

**Model:**  
GUBER AV/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125,  
6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Maximum working pressure:**  
300 psi (21 bar)

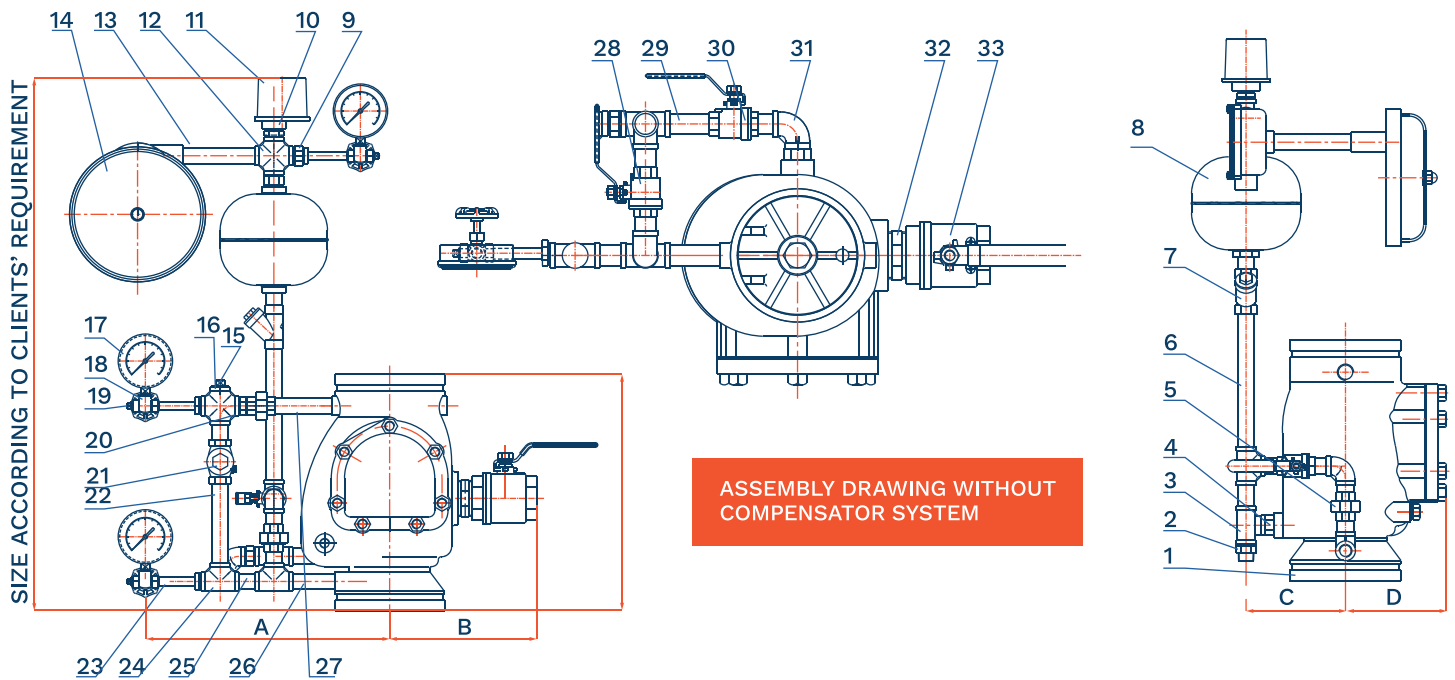
**Max. Set pressure:**  
200–300 psi (14–21 bar) / PN10 / PN16

**Operating temperature:**  
4°C to 70°C

**Grooving standard:**  
AWWA C606

**Application:**  
Used in one-way flow systems  
to prevent reverse flow of water

**Coating:**  
Epoxy coating inside and outside, applied  
by electrostatic spraying



## Main Parts & Materials Specification

1. Body & Cover: Ductile Iron	2. Orifice, Retard: C954/SS304	3. Tee: Steel/SS304	4. Nipple: Steel/SS304	5. Union: Steel/SS304
6. Nipple: Steel/SS304	7. Y Strainer: C954/SS304	8. Retard Chamber: Carbon Steel	9. Gong Assembly: Component	10. Nipple: Steel/SS304
11. Reducer Bushing: Steel/SS304	12. Pressure Switch: Component	13. Cross: Steel/SS304	14. Reducer Bushing: Steel/SS304	15. Plug: Steel/C954/SS304
16. Cross: Steel/SS304	17. Pressure Gauge: Component	18. 3-way Valve Gauge: C954/SS304	19. Plug: Steel/C954/SS304	20. Orifice, Retard: C954/SS304
21. Check Valve: C954/SS304	22. Nipple: Steel/SS304	23. Nipple: Steel/SS304	24. Tee: Steel/SS304	25. Nipple: Steel/SS304
26. Nipple: Steel/SS304	27. Nipple: Steel/SS304	28. Ball Valve: C954/SS304	29. Nipple: Steel/SS304	30. Ball Valve: C954/SS304
31. Elbow: Steel/SS304	32. Nipple: Steel/SS304	33. Ball Valve: C954/SS304		

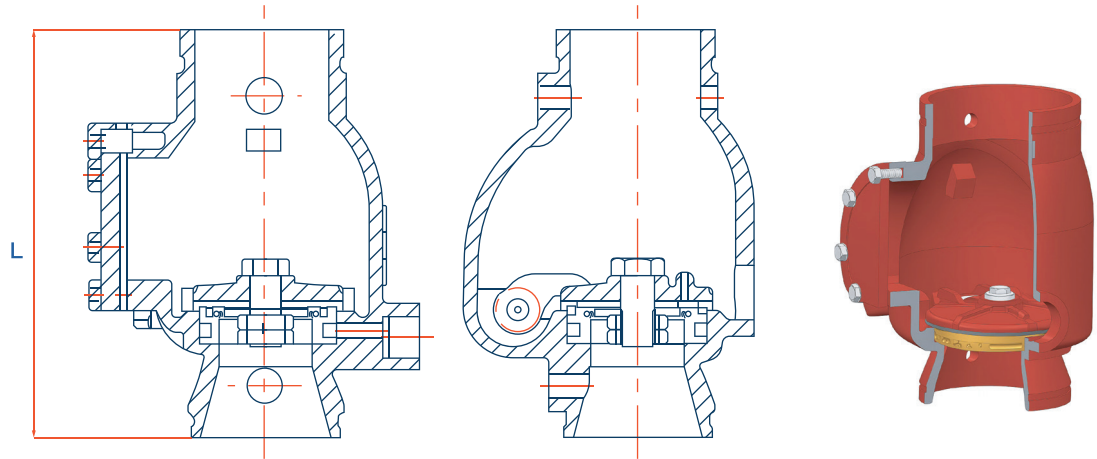
## Valve Dimension Table

Size	A	B	C	D	F	Ref. No
2"	340	205	145	110	245	M-WAV/G-060-T
2 1/2"	340	205	145	110	245	M-WAV/G-076-T
3"	340	205	145	110	245	M-WAV/G-089-T
4"	342	250	160	136	316	M-WAV/G-114-T
5"	349	274	180	162	386	M-WAV/G-139-T
6"	349	274	180	162	390	M-WAV/G-168-T
8"	415	290	205	195	438	M-WAV/G-219-T
10"	475	340	240	235	535	M-WAV/G-273-T
12"	495	368	270	270	622	M-WAV/G-324-T



## Valve Dimension Table

Size	L
DN50	245
DN65	245
DN80	245
DN100	316
DN125	386
DN150	390
DN200	438
DN250	535
DN300	622



## Fire-Protection Application

Ambient emperature range: 4–70 °C. Typical installation sites include higher fire-risk areas such as hotels, shopping centres, hospitals, theatres, office buildings, conference venues, warehouses, high-rise buildings and underground garages.

## Installation

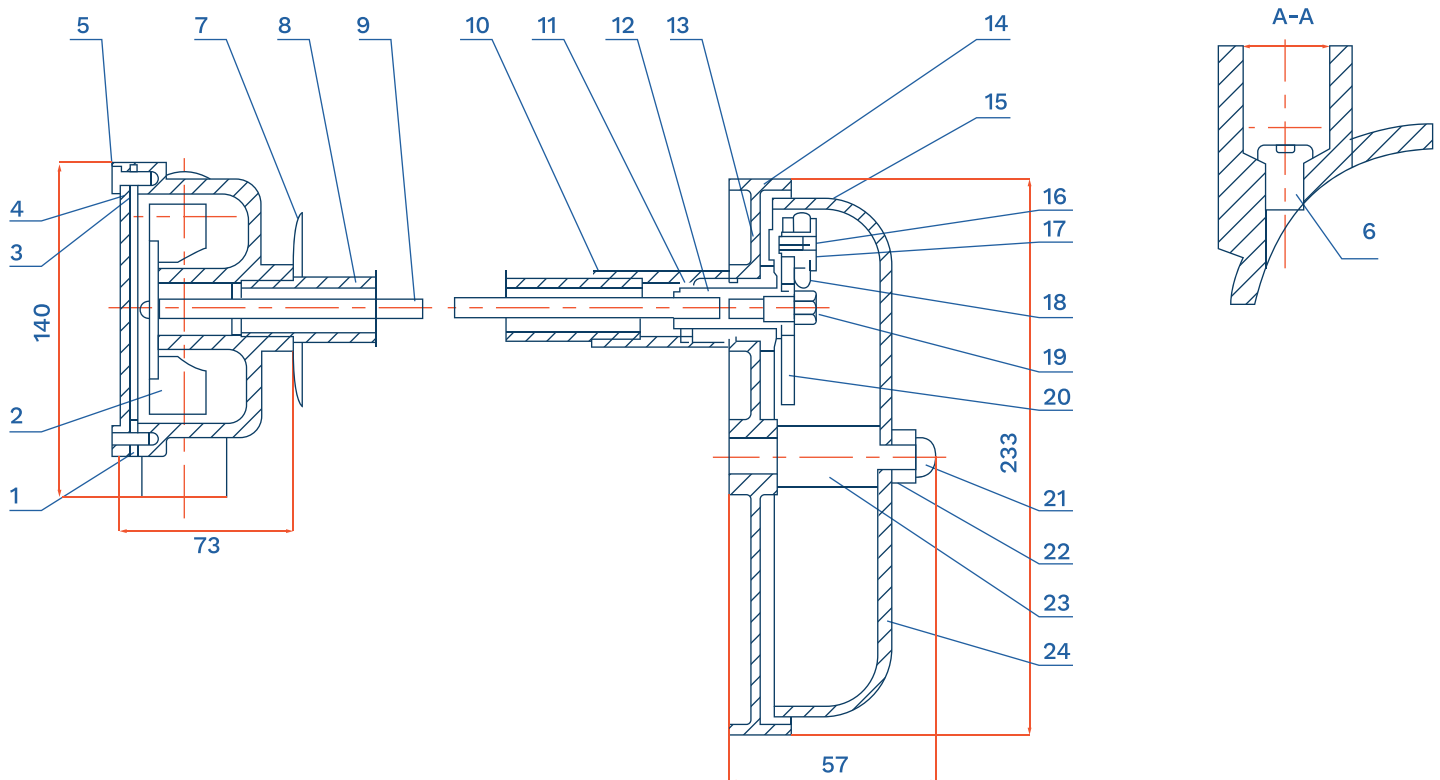
Install the valve assembly in a location that allows easy supervision and service. Mount the wet alarm valve upright on piping that has already been pressure-tested and cleaned. Ensure the flow-direction arrow points upward (system flow direction). Provide sufficient clearance for operation, inspection and maintenance.

1. Thoroughly flush and clean the piping before installation. Check that internal surfaces are corrosion-protected and free of sludge and debris.
2. Route alarm water to an open drain or to a point where discharge will be clearly visible during an alarm.
3. Inspect the valve–flange joint and gasket condition; confirm free movement of the clapper/disc. Perform a tightness test at twice the working pressure. The disc must remain tight. If any issue is found, correct it or replace components before final installation.

## Important Installation Information

1. Mercatura wet alarm valves may be installed only by qualified personnel and in accordance with the requirements of the authority having jurisdiction (AHJ); deviations void the warranty.
2. The installer must attach a copy of this document to the sprinkler system's installation, operation and maintenance manual.
3. Do not modify Mercatura products; any modification voids the warranty.
4. The Guber AV/G valve must be included in routine sprinkler-system inspections performed by qualified personnel in accordance with applicable standards and national requirements.
5. Failure to follow these instructions may result in malfunction, personal injury and/or property damage.
6. For additional information and technical support, contact your Mercatura sales representative.

# SPRINKLER ALARM MERCATURA WMG-24



**Model:**  
WMG-24

**Working pressure:**  
0–300 psi (21 bar)

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Operating temperature:**  
0°C to 100°C

**Test standard:**  
FM 1055

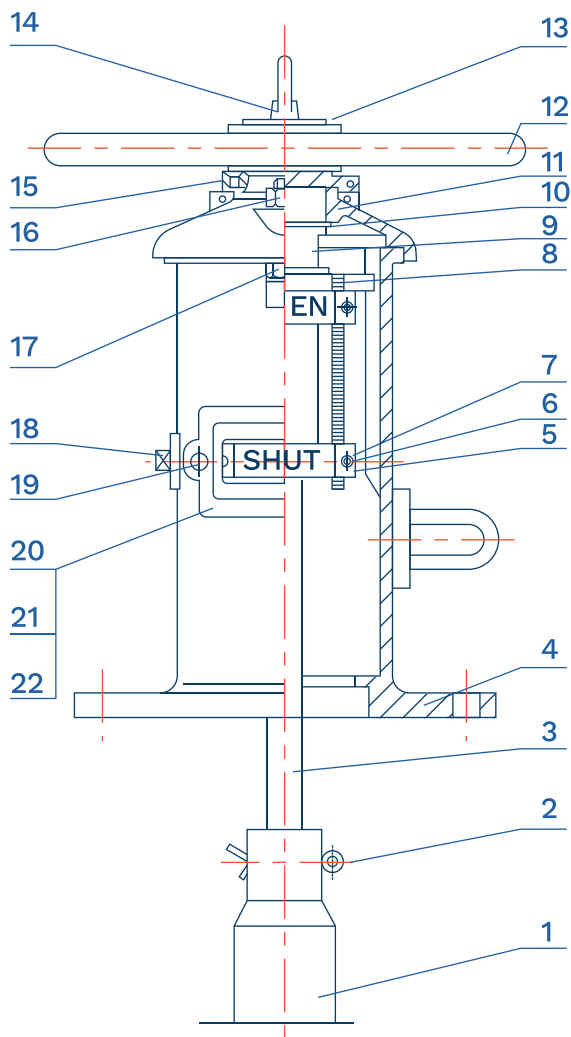
**Ref. No.:**  
M-WMG-24



## Main Parts & Materials Specification

1. Drive housing: Aluminum alloy	2. Impeller: Delrin	3. Gasket: EPDM	4. Cover: Steel 1045	5. Spring: Steel 1045/SS304
6. Nozzle: C95400 aluminum bronze	7. Gasket: 1566	8. Support tube: Steel 1045/SS304	9. Drive shaft: Aluminum alloy	10. Bushing: Steel 1045/SS304
11. Internal retaining rings: SS304	12. Drive shaft adapter: Delrin	13. Mounting screw: Aluminum alloy/SS304	14. Gong seat: Aluminum alloy	15. Gong: Aluminum alloy
16. Screw: Aluminum alloy/Steel 1045	17. Mounting nut: Aluminum alloy	18. Striker: Phenolic resin	19. Screw: Aluminum alloy /SS304	20. Connector: Aluminum alloy
21. Nut: Aluminum alloy/SS304	22. Gasket: Delrin	23. Support post: Aluminum alloy/SS304	24. Nameplate: Paper	

# Gate Valve Position Indicator — GRIP IPW (Wall-Type Indicator Post)



**Model:**  
GRIP IPW

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Standards compliance:**  
ASME/ANSI B16.1 Class 125; ASME/ANSI B16.42  
Class 150; BS EN 1092-2 PN16; GB/T 9113.1

**Application:**  
For operating a valve installed behind/through  
a wall (wall-type indicator post)

**Coating:**  
Epoxy coating inside and outside, applied  
by electrostatic spraying

## Main Parts & Materials Specification

<b>1. Connector:</b> Steel 1035	<b>2. Cotter pin:</b> Steel 1045	<b>3. Operating rod:</b> Cast iron (CI)	<b>4. Body:</b> A413.0 (Al alloy)
<b>5. Indicator plate:</b> A413.0 (Al alloy)	<b>6. Sealing nut:</b> Steel 1035	<b>7. Stud bolt:</b> Steel 1035	<b>8. Positioning bracket:</b> Stainless steel 304
<b>9. Drive element:</b> Stainless steel 304	<b>10. Retaining ring:</b> Steel 1566	<b>11. Top cover:</b> Cast iron (CI)	<b>12. Handwheel:</b> Cast iron (CI)
<b>13. Gasket:</b> A283 Gr.C	<b>14. Lifting eye:</b> Steel 1035	<b>15. Screw:</b> Steel 1035	<b>16. Nut:</b> Steel 1035
<b>17. Bolt:</b> Steel 1035	<b>18. Threaded plug:</b> Steel 1035	<b>19. Flat washer:</b> Stainless steel 304	<b>20. Keyhole mounting plate:</b> A283 Gr.C
<b>21. Keyhole window:</b> Acrylic (PMMA)	<b>22. Keyhole plate gasket:</b> EPDM		

## Installation

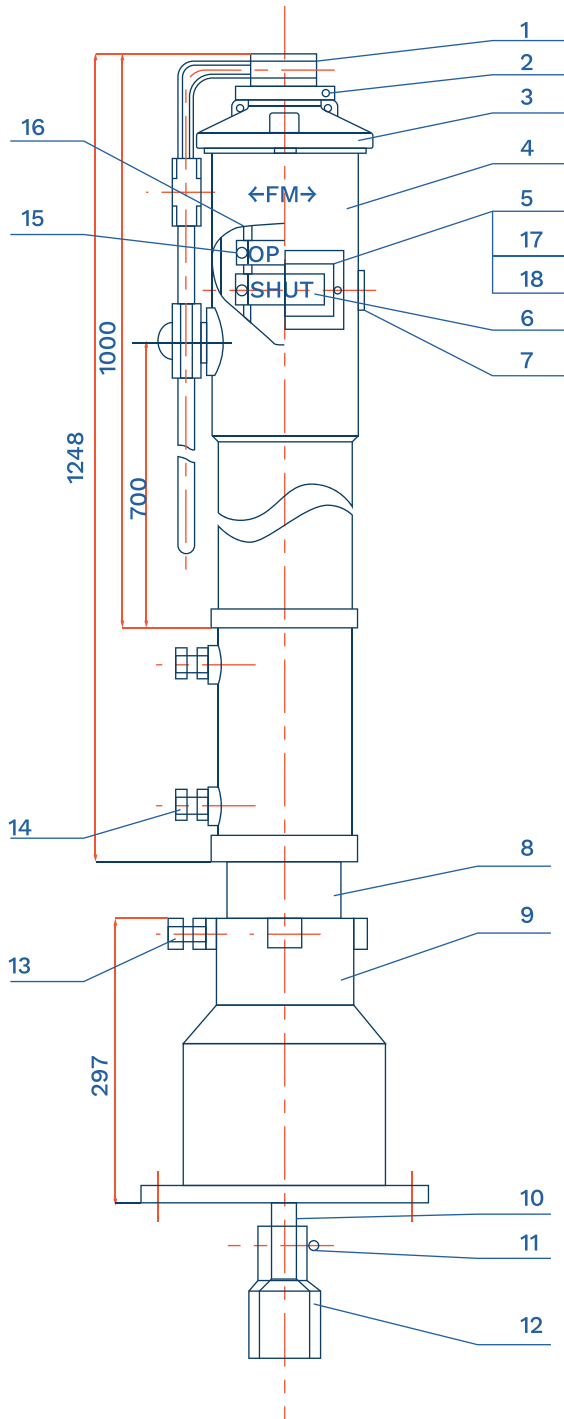
Before starting, make sure the valve operated by the indicator is fully open.

- Cut a through-hole  $\varnothing$  120–180 mm, concentric with the valve operating nut. For reinforcement, a sleeve made from DN100 pipe (OD 114.3 mm) may be inserted.
- Drill 4 holes  $\varnothing$  19 mm (3/4") on a bolt circle  $\varnothing$  267 mm, concentric with the through-hole.
- Place the indicator body flange (4) against the wall and fasten with four bolts.
- Remove the cover (11) from the body (4) after loosening two screws (16) and nuts (17).
- Remove the retaining parts (cotter pin, socket, etc.), slide out the indicator stem, trial-fit it through the wall and mark the length so that, after assembly, the stem protrudes approx. 32 mm above the top surface of the body (max. 50 mm).
- Cut the stem to the marked length and set it to the specified height.
- Set the OPEN plate so it is centered in the window with the valve fully open. Repeat for the SHUT plate with the valve fully closed. Adjust using the set screws and the nut.
- Refit the cover to the body. Tighten the screws. Function check: after fully opening/closing, the OPEN/SHUT indications must align correctly; readjust if necessary.

## Maintenance

**Lubrication:** Once per year (or as required by local regulations) apply a few drops of oil to the top operating nut to lubricate the bearing in the body.

# GATE VALVE POSITION INDICATOR — GRIP IPV (Vertical-Type Indicator Post)



**Model:**  
GRIP IPW

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Standards compliance:**  
ASME/ANSI B16.1 Class 125; ASME/ANSI B16.42  
Class 150; BS EN 1092-2 PN16; GB/T 9113.1

**Application:**  
For operating a valve installed behind/through  
a wall (wall-type indicator post)

**Coating:**  
Epoxy coating inside and outside, applied  
by electrostatic spraying

## Main Parts & Materials Specification

<b>1. Handle / bracket:</b> Ductile iron (DI)	<b>2. Operating rod:</b> Stainless steel 304	<b>3. Indicator cover:</b> Cast iron (CI)	<b>4. Body:</b> Cast iron (CI)
<b>5. Keyhole plate:</b> A283 Gr.C	<b>6. Indicator plate:</b> A413.0 (Al alloy)	<b>7. Threaded plug:</b> Steel 1035	<b>8. Extension rod:</b> A283 Gr.C
<b>9. Flange:</b> Cast iron (CI)	<b>10. Connecting rod:</b> Steel 1045	<b>11. Cotter pin:</b> Steel 1035	<b>12. Connector:</b> Cast iron (CI)
<b>13. Bolt:</b> A283 Gr.C	<b>14. Bolt:</b> Steel 1035	<b>15. Bolt:</b> Steel 1035	<b>16. Operating nut:</b> Stainless steel 304
<b>17. Keyhole plate gasket:</b> EPDM	<b>18. Indicator window:</b> Acrylic (PMMA)		

## Installation

Before starting, ensure the valve operated by the indicator is fully open.

- Remove the key lock arm. Loosen the hex-head screws and the square nut, then remove the upper cover. Take out the operating-nut assembly, socket and square stem. Loosen the bolted joint, slide the body off the stand and remove the stand from the base.
- Fasten the base and stand to the valve flange using four hex-head bolts and nuts. Secure the stand to the base flange with the bolt and nut.
- Slide the body onto the stand so that the ground-level mark on the body sits at the actual grade. Tighten the joint.
- Insert the stem into the body so the socket mates with the valve operating nut. Ensure stem engagement with the operating nut is min. 51 mm and max. 114 mm. Correct engagement: the stem end is 51–102 mm below the top edge of the body.
- Unscrew the plate assembly from the body by turning the operating nut counter-clockwise. Adjust the OPEN and SHUT plates by gently pulling the hub and moving them up/down:
  - Valve opens CCW: move both OPEN plates to the very top; set SHUT plates to suit valve size and stem travel.
  - Valve opens CW: move both SHUT plates to the very top; set OPEN plates to suit valve size and stem travel.
- Thread the plate assembly into the upper cover by turning the operating nut clockwise until the OPEN plate is centered in the body window. Fit the cover with the assembly onto the body, ensuring stem engagement with the operating nut is 51–114 mm. Secure with the screw and square nut. Close the valve and check that the SHUT plate is centered; adjust as necessary.

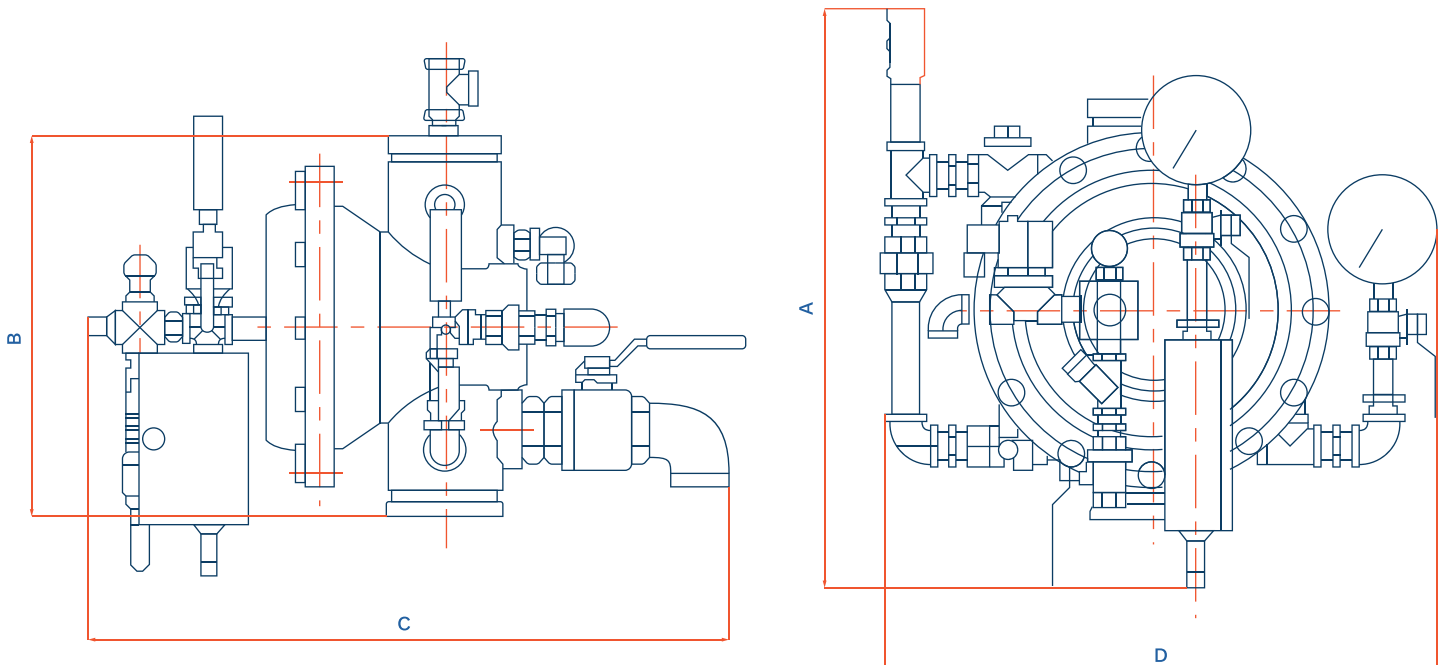
## Maintenance

**Lubrication:** At least annually, apply a few drops of lubricant into the hole at the top of the operating nut to grease the bearing in the upper cover.

## Operating instructions

- Trim the coupling rod to suit the buried depth of the gate valve; remove excess.
- Mount the indicator post column to the wall.
- Connect the indicator post to the valve set in the closed position.
- Set the indicator to SHUT.

# DELUGE VALVE ENVY DV/G



## Product Description

Mercatura deluge valve uses a straight-through, conical-diaphragm design. The cone's self-sealing characteristics provide reliable shutoff and rapid opening when actuated. Releasing the pressure in the diaphragm chamber—by electric, pneumatic, or manual means—causes the valve disc to open automatically, allowing one-way water flow to the sprinkler system and simultaneously initiating the alarm. The valve can be configured with additional components as part of various deluge alarm and fire-fighting systems.

## Applications in Fire Protection

Deluge valves with grooved-end connections can be supplied with or without control valves (water-supply and upper-service valves). The control valves are grooved-end butterfly valves with integral tamper switches.

Suitable for automatic sprinkler systems in: residential buildings, hospitals, hotels, shopping malls, factories, airports, casinos, libraries, stadiums, and convention/exhibition centers.

**Model:**  
ENVY DV/G

**Sizes:**  
2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125,  
6"/DN150, 8"/DN200

**Approvals:**  
FM, UL, PAVUS, CNBOP

**Max. Working pressure:**  
300 psi (21 bar)

**Max. Testing pressure:**  
500 psi (34 bar) / 800 psi (55 bar) conforms to UL280,  
FM1011/1012/1013, FM1020.

**Working temperature range:**  
4~52°C/39.2~125.6°F

**Grooving standard:**  
AWWA C606 / ISO 6182

**Reserved alarm valve system interface:**  
3/4"NPT

**Coating:**  
Epoxy coating inside and outside, applied by electro-  
static spraying

## Dimension Table

Size	Dimensions (mm)				Ref. No
In/DN	A	B	C	D	
2" /50	287±2	440±10	460±10	500±10	M-DV/G-060
2 1/2" /65	287±2	440±10	460±10	500±10	M-DV/G-076
3" /80	340±2	450±10	490±10	570±10	M-DV/G-089
4" /100	390±2	520±10	490±10	680±10	M-DV/G-114
6" /150	508±2	570±10	570±10	800±10	M-DV/G-168
8" /200	584±2	900±10	650±10	900±10	M-DV/G-219

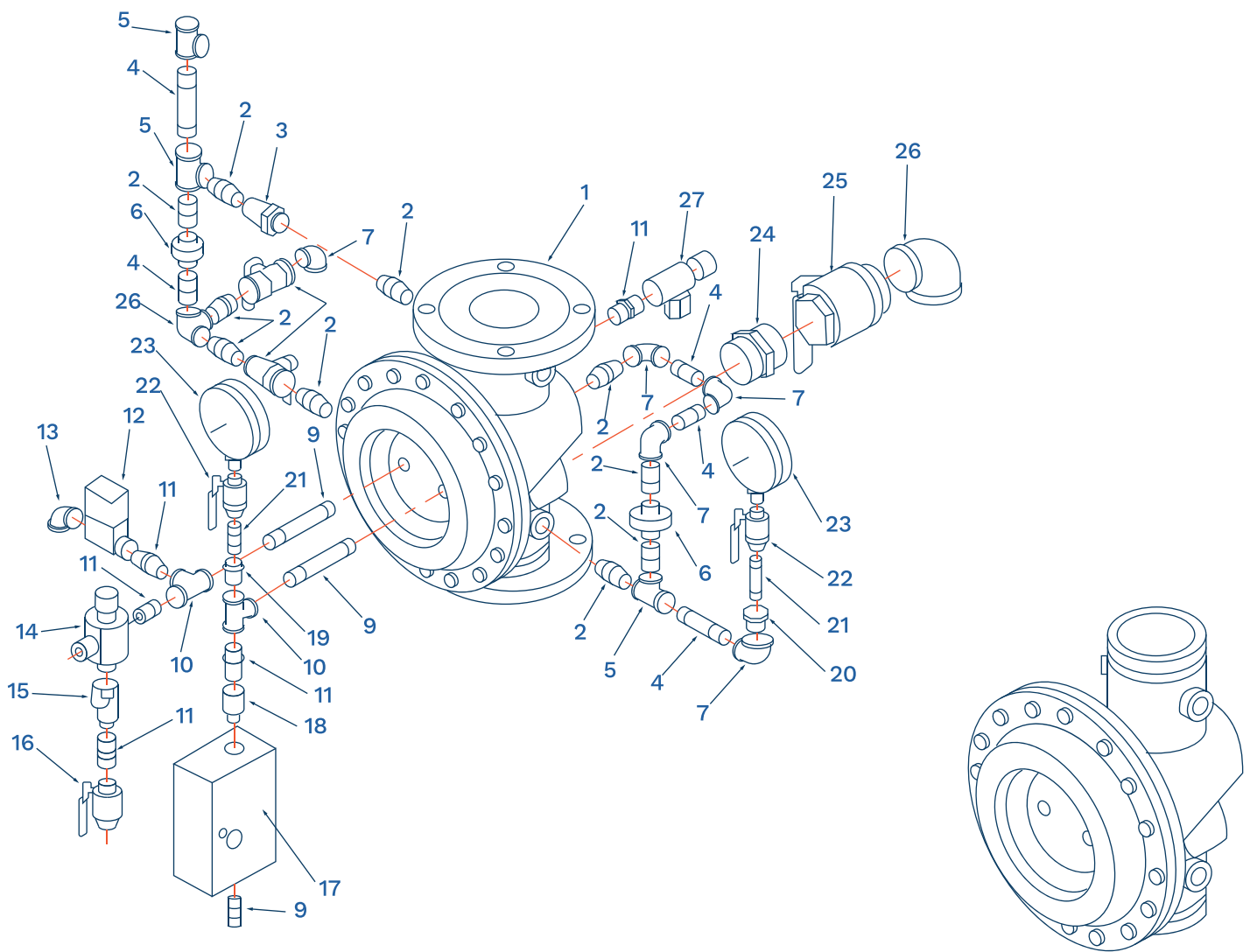


## Installation

1. Install the deluge valve in a room maintained between +4 °C and +52 °C, with adequate drainage.
2. Locate the valve as close as practical to the hazard to minimize distribution piping length and improve response time.
3. The valve may be installed horizontally or vertically. The solenoid valve must have its solenoid core vertical.
4. For pneumatic actuators, the set air pressure must not be lower than the recommended minimum system air pressure (see Table 1).
5. Provide service clearances in all directions: floor clearance 1.2 m, side clearances  $\geq 0.5$  m, front clearance  $\geq 1.2$  m.
6. Install a water-supply control valve upstream of the alarm valve and a control valve downstream to facilitate maintenance and commissioning.
7. Install the valve body according to the flow-direction arrows. Before installation, flush piping until clear to prevent debris from affecting seat sealing.
8. Install the water-motor alarm bell on an exterior corridor wall or near the duty room. The steel alarm line from the bell to the deluge valve shall be  $\leq 20$  m.

## Reset Procedure

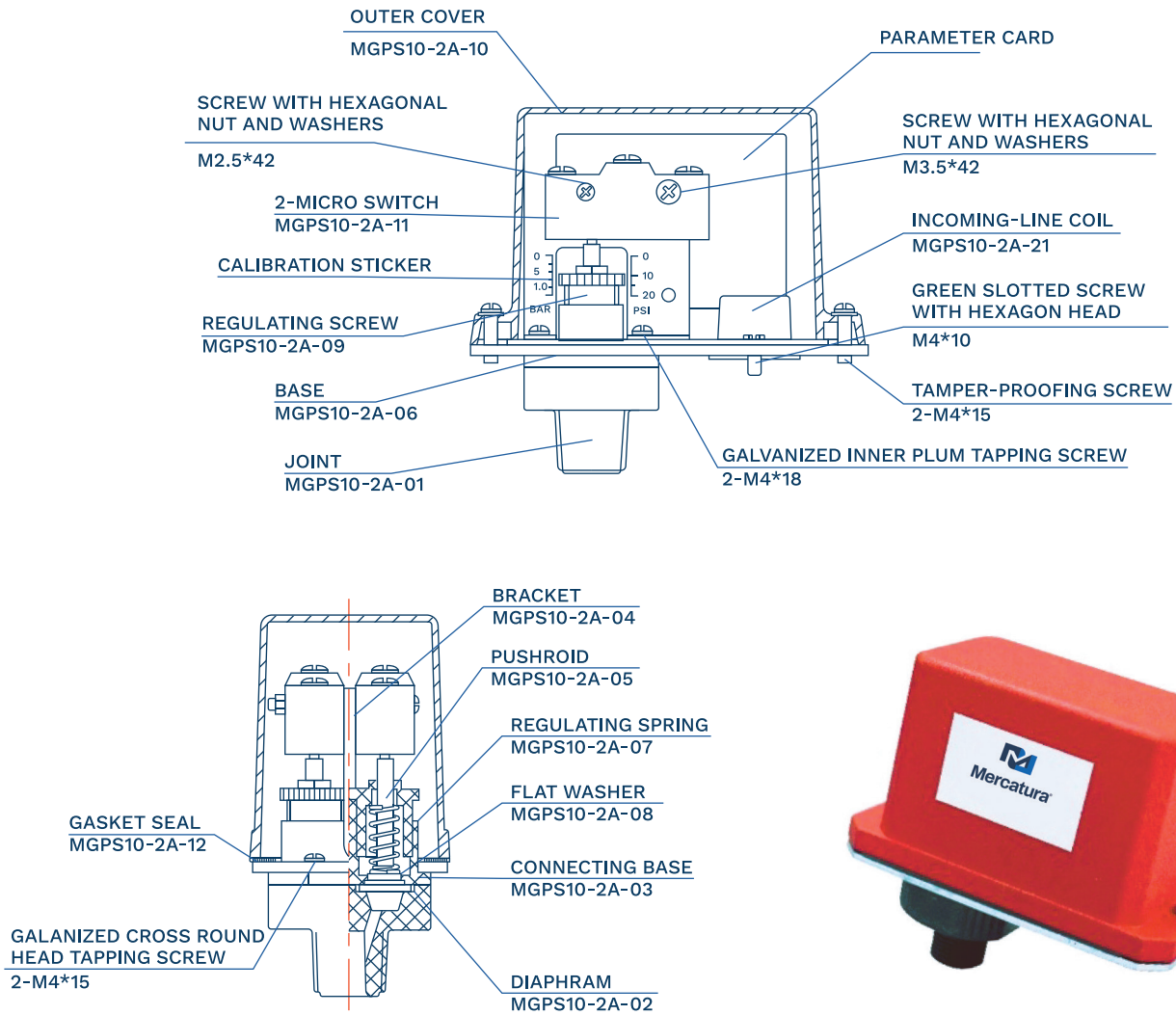
1. Close the water-supply control valve (upstream of the alarm valve) and the ball valve on the water-injection loop;
2. Open the drain valve (and close any auxiliary system drain, if fitted) to empty residual water from the system;
3. Press the drip-valve reset button at least twice. Draining is complete when the discharge is small or stops;
4. Close all drain valves and the emergency manual release valve. Verify the solenoid/pneumatic actuator is de-energized and the alarm test loop ball valve is closed;
5. Open the water-injection loop ball valve and slowly press the reset-valve button. Some drainage from the reset valve is normal; flow will stop as the diaphragm chamber pressure builds. Release the button once the water-supply and diaphragm-chamber pressure gauges indicate the same value. Then fully open the water-supply control valve. The system is now in the ready condition;
6. Ensure the alarm system is enabled while the deluge valve assembly is in the ready condition.



## Main Parts & Materials Specification

<b>1. Deluge valve:</b> DI/CF8/CF8M/C95400/C95800	<b>2. Butt joint:</b> DI/CF8/CF8M/C95400/C95800	<b>3. Check valve:</b> CF8/CF8M/C95400/C95800
<b>4. Pipe fittings:</b> Gr.A/TP304/C60800	<b>5. Tee joint:</b> DI/CF8/CF8M/C95400/C95800	<b>6. Union:</b> DI/CF8/CF8M/C95400/C95800
<b>7. 90° Joint:</b> DI/CF8/CF8M/C95400/C95800	<b>8. Ball valve:</b> CF8/CF8M/C95400/C95800	<b>9. Pipe fittings:</b> Gr.A/TP304/C60800
<b>10. Tee joint:</b> DI/CF8/CF8M/C95400/C95800	<b>11. Butt joint:</b> DI/CF8/CF8M/C95400/C95800	<b>12. Solenoid valve:</b> DI/CF8/CF8M/C95400/C95800
<b>13. 90° Joint:</b> DI/CF8/CF8M/C95400/C95800	<b>14. Manual reset valve:</b> CF8/CF8M/C95400/C95800	<b>15. Y type filter:</b> CF8/CF8M/C95400/C95800
<b>16. Ball valve:</b> CF8/CF8M/C95400/C95800	<b>17. Emergency release valve bank</b>	<b>18. Release valve joint:</b> DI/CF8/CF8M/C95400/C95800
<b>19. Joint:</b> DI/CF8/CF8M/C95400/C95800	<b>20. Joint:</b> DI/CF8/CF8M/C95400/C95800	<b>21. Pipe fittings:</b> Gr.A/TP304/C60800
<b>22. Ball valve:</b> CF8/CF8M/C95400/C95800	<b>23. Pressure gauge</b>	<b>24. Butt joint:</b> DI/CF8/CF8M/C95400/C95800
<b>25. Ball valve:</b> CF8/CF8M/C95400/C95800	<b>26. 90° Joint:</b> DI/CF8/CF8M/C95400/C95800	<b>27. Drip valve:</b> DI/CF8/CF8M/C95400/C95800
<b>28. Stereoscopic tee joint:</b> DI/CF8/CF8M/C95400/C95800		

# Mercatura Pressure Switch PS10-2A



**Model:**  
Mercatura PS10-2A

**Dimension:**  
121 mm × 57 mm × 111 mm (4 3/4" × 2 1/4" × 4 3/8")

**Pressure Connection:**  
Nylon 1/2 NPT thread

**Outer Cover:**  
Die casting with red coating

**Base:**  
Galvanized carbon steel

**Factory setting:**  
5-7 PSI (Cannot be adjusted after consignment)

**Differential Pressure:**  
1 PSI (cannot be adjusted after consignment)

**Maximum Working Pressure:**  
250 PSI (17 bar)

**Switch Contact:**  
Double SPDT

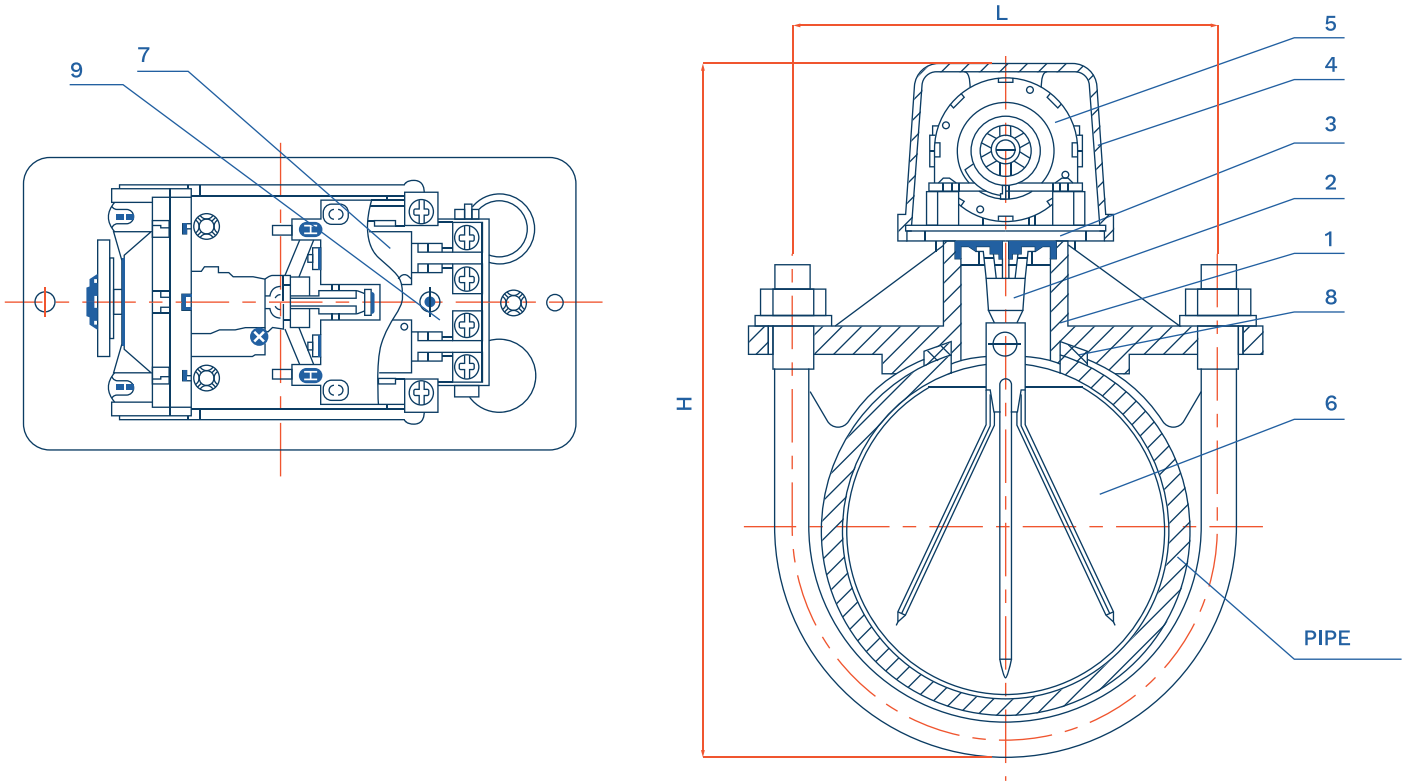
**Contact Capacity:**  
15 Amps under 125/250 VAC, 2.5 Amps under 30 VDC

**Dust Proof and Waterproof Level:**  
IP66

**Temperature Range:**  
-40°C to 60°C

**Ref. No.:**  
M-PS10-2A

# VANE TYPE WATER FLOW SWITCH



**Model:**  
M-WFS

**Size:**  
DN50 - DN200 / 2" - 8"

**Working Pressure:**  
450 psi (31 bar)

**Sensitivity:**

**FM:**

1. No-alarm flow  $\leq 15\text{L}/\text{min}$
2. Alarm flow  $>15\text{L}/\text{min}$ ,  $\leq 75\text{L}/\text{min}$

**UL:**

1. No-alarm flow  $\leq 15\text{L}/\text{min}$
2. Alarm flow  $>15\text{L}/\text{min}$ ,  $\leq 37.5\text{L}/\text{min}$

**Capacity of Switch Contacts:**  
AC 125/250 8A, DC 24V 3A, DC 30V 2.5A

**Working Temperature:**  
0-49°C

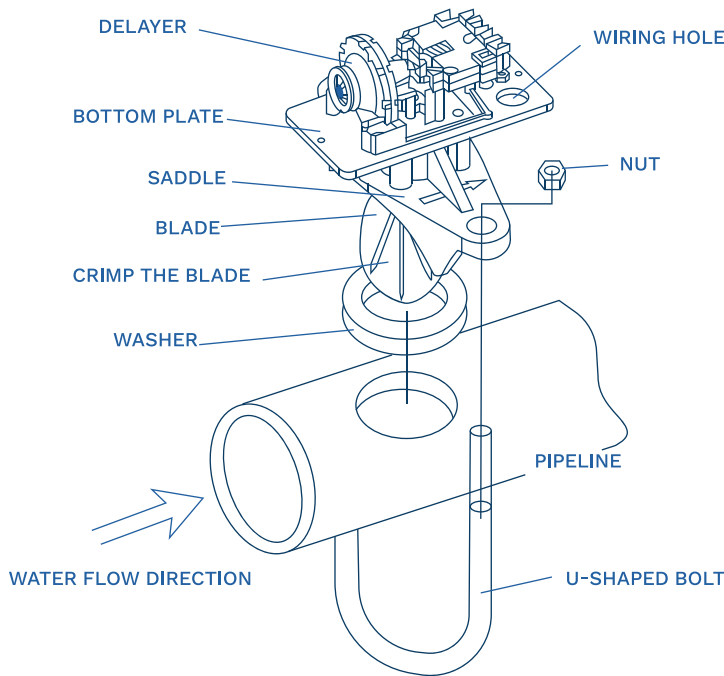
**Steel Pipe:**  
SCH10-40

**Hole size:**  
DN50, DN65: 32+2mm  
DN80 - DN200: 51+2mm

## Main Parts & Materials Specification

<b>1. Body:</b> Ductile iron	<b>2. Blade Rack:</b> SS304+EPDM	<b>3. Bottom Plate:</b> SS304
<b>4. Outer Cover:</b> Aluminium	<b>5. Air Delay Device:</b> Component	<b>6. Blade:</b> LLDPE
<b>7. Micro-switch:</b> Component	<b>8. Sealing Gasket:</b> EPDM	<b>9. Junction Box:</b> PC





### Overview

The vane type water flow switch uses in wet pipe systems only. Water flow in the pipe deflects a vane, which produces a switched output usually after a specified delay.

### Main Components

ZSJZ series water flow indicator is mainly composed of the saddle, blade rack, bottom plate, outer cover, Air delay device, micro-switch, junction box, etc.

## Installation and Debugging as well as Precautions

1. At the pre-set installation position, use a tapper to drill on the main pipeline and remove burrs according to the product specification;
2. Roll up the blade into a small size and put it into the pipeline, install the U-shaped bolt and fasten it up with two fastening nuts.

## Water Flow Indicator Dimension Table

Size (D)			Dimensions (mm)		Ref. No
Inches	DN	mm	L	H	
2"	50	60.3	85	188	M-WFS-060
2 1/2"	65	76.1	92	200	M-WFS-076
3"	80	88.9	106	220	M-WFS-089
4"	100	114.3	134	245	M-WFS-114
5"	125	139.7	162	272	M-WFS-139
6"	150	168.3	189.5	298	M-WFS-168
8"	200	219.1	189.5	350	M-WFS-219

