

**Title**

Material Submittal for Fire  
Alarm Check Valve

**Brand**

AMERICAN AFC



**AMERICAN**  
**FIRE CONTROL**

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***Technical Data  
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The American Fire Control Wet Alarm Check Valve Model ACV-300 is a crucial component designed for wet pipe sprinkler systems to bolster fire safety. Its primary function is to prevent water backflow into the main supply during sudden pressure drops, particularly in emergency scenarios such as fires. Equipped with an advanced alarm system, the ACV-300 ensures rapid detection of water flow, transmitting alerts to the control panel, enabling immediate response to potential fires.

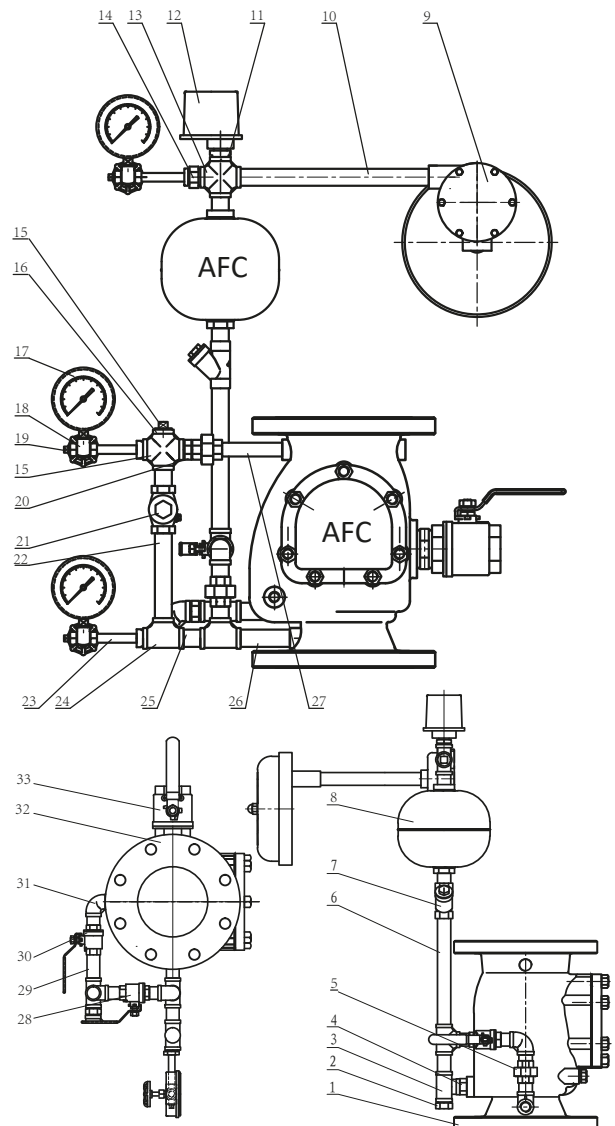
### SPECIFICATIONS

- Connection Flange (ACV-300F): The connection flange adheres to ANSI B16.1 Class 125/ANSI B16.42 Class 150/BS EN1092-2 PN16
- Connection Groove (ACV-300G): The grooved connection is in compliance with ANSI/AWWA C606
- Mounting: The installation position is vertical
- Working Pressure: The maximum working pressure is 300 PSI (21 Bar)
- Working Temperature: Designed to operate within a temperature range of 4°C to 70°C.
- Coating: The interior and exterior surfaces are coated with a fusion bonded epoxy powder for enhanced protection
- Sizes: 2", 2.5", 3", 4", 6", 8", 10", 12"
- Listing and Approvals: UL listed, FM approved



### PART LIST

| ID | PART              | MATERIAL                        |
|----|-------------------|---------------------------------|
| 1  | Valve Body        | Ductile Iron ASTM A536 65-45-12 |
| 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    | Steel                           |
| 9  | Gong Assembly     | Component                       |
| 10 | Nipple            | Steel/SS304                     |
| 11 | Reducer Pushing   | Steel/SS304                     |
| 12 | Pressure Switch   | Component                       |
| 13 | Cross             | Steel/SS304                     |
| 14 | Reducer Pushing   | 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                      |



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## OPERATION

- The operation of the fire protection system is initiated during pressurization, allowing water to enter the system until equilibrium is reached between the water supply and system pressure. At this point, the clapper autonomously closes the waterway. Once the pressure stabilizes, the fire protection system is ready for activation, requiring the opening of the alarm control valve.
- Under standard conditions, the water pressure gauge on the system side of the alarm valve will display an equal or higher pressure reading than the gauge on the supply side of the valve. This discrepancy is a result of the bypass line connecting the downstream and upstream sides of the alarm valve, enabling the passage of water pressure surges without lifting the valve clapper from its seat. This design mitigates the risk of false alarms caused by excessive pressure surges trapped on the system side, courtesy of the check valve's presence.
- In the event of a sudden high-pressure surge, such as the initiation of a large fire pump, the valve clapper may momentarily lift. This temporary lift permits water to flow through the valve seat grooves into the retard chamber. Simultaneously, the water in the alarm line is automatically drained, a crucial step in preventing false alarms arising from successive transient surges in supply pressure.
- The restriction assembly positioned beneath the retard chamber comprises inlet and drain restriction orifices. These orifices are carefully calibrated, considering the volume of the retard chamber, to meet listing and approval requirements related to time-to-alarm. These specifications reflect a careful balance between minimizing the risk of false alarms due to transient surges in supply pressure and achieving the desired minimum time-to-alarm following a sprinkler operation. This intricate design ensures the reliable and precise performance of the ACV-300, aligning with industry standards and regulatory requirements.

## INSTALLATION

1. The American Fire Control Alarm Check Valve, Model ACV-300, mandates vertical installation to ensure optimal performance.
2. Install the alarm valve in a conspicuous and easily accessible location. Adequate provision must be made to guarantee visibility and accessibility of the alarm line drain.
3. In scenarios where water pressure experiences fluctuations, employ the variable pressure trim with a retard chamber. Conversely, under stable water pressure conditions, opt for the constant pressure trim, excluding the retard chamber.
4. Install the valve with trim in strict accordance with the provided trim data. Failure to adhere to the specified trim connection guidelines may compromise the device's functionality, void listing and approval, and nullify the manufacturer's warranty.
5. Exercise caution during check valve installation in the trim to ensure proper alignment with the arrow mark on the check valve body, pointing in the correct direction.
6. Prevent false alarms or intermittent alarms caused by the cyclic opening and shutting of the waterway clapper due to excessive trapped air. Mitigate this risk by incorporating a breather valve in the system piping network and a vent valve at the system's extreme end to bleed off air and accommodate contraction and expansion.
7. Maintain the ball valve on the alarm line in an open position and secure it in the designated set position.
8. Properly support the pipe connecting the retard chamber and sprinkler alarm bell to avoid undue loading on the retard chamber.
9. Before putting the alarm valve into service, ensure thorough flushing of all newly installed system pipes to maintain optimal functionality.

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# **OPERATION MANUAL**

## **FOR AMERICAN AFC ACV-300 WET ALARM CHECK VALVE**

### **1. Notes:**

The wet alarm valve is a kind of check valve that only allows water flow into the fire-sprinkling system in one direction and drives the supporting accessories to alarm under specified pressure and flow rate. Its functions in the system include: After the alarm water flow has been connected or disconnected and the sprinkler begins to act, the water flow will drive the alarm of the water motor alarm and the pressure switch; It prevents water from back flowing. The wet automatic sprinkler system composed by the wet alarm valve, pressure switch and sprinkler is a widely used fixed extinguishing system. The system pipe network is filled with clean water with a certain pressure all year round and has always been ready for providing service. When a fire breaks out in the protection zone, the temperature within the zone will rise, then the organic solution in the thermal sensitive components (glass ball) of the sprinkler will expand and produce great internal pressure until the glass ball shell breaks and triggers the water injection of the sprinkler and then the whole system to alarm, thus the purpose of fire alarm, fire control and firefighting is achieved.

This system is applicable to the places with the ambient temperature from 4℃ to 70℃. This system is generally installed in the places with fire hazards, like the hotel, shopping mall, hospital, theater, office building, conference center, warehouse, high-rise building and underground garage. This system has the advantages of safety and reliability, high success rate in fire extinguishing and fire control, long service life, wide range of use, convenient in maintenance and low cost etc.

### **2. Product structure and working principle**

Product structure diagram (Figure 1)

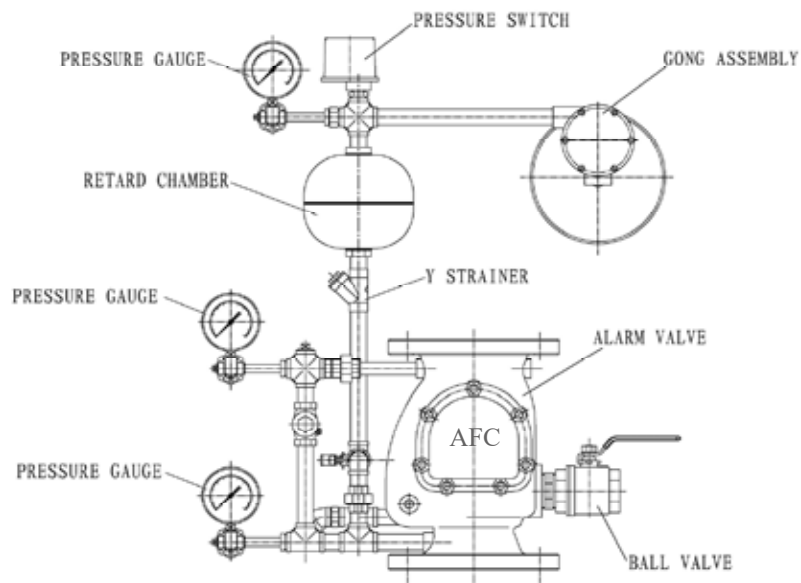


Figure 1

## 2.1 Product structure

As shown in Figure 1, ACV-300F, ACV-300G, ACV-300GF, ACV-300FG wet alarm instrument consists of wet alarm valve, delayer, water motor alarm, pressure switch, drain valve and filter etc.

### 2.1.1 ACV-300 Wet alarm valve

American AFC ACV-300 wet alarm valve is a cover plate type alarm valve which mainly consists of the valve body, valve seat ring and valve disc. The valve body is separated into the upper chamber and lower chamber. The upper chamber (system side) is connected to the system pipe network, whereas the lower chamber (water supply side) is connected to the water resource. The valve body is equipped with seat ring inside and there are many small groove holes leading to the inlet pipe of the delayer on the seat ring.

When the system is in servo state, the small groove holes in the seat ring will be covered by the valve disc and the waterway leading to the water motor alarm will be blocked; When the pressure between the upper side and the lower side reaches a certain value, the valve disc will open (differential pressure start), and the water will flow from the water supply side to the system side, then the alarm bell will ring and the fire extinguishing system will begin to spray water; Because the bypass is installed with compensator, when there is a slight leakage in the pipe network of the system side or water source pressure fluctuates, replenish water for the pipe network through the compensator to balance the pressure between the upper chamber and the lower chamber and stabilize the valve disc, so that the false alarm can be avoided.

### 2.1.2 Delayer

Delayer is a cylinder-shaped water storage container with an inlet and an outlet. Its lower inlet is connected to the alarm port of the alarm valve and its upper outlet is connected to the water motor alarm and the pressure switch. Due to the fluctuation of the water source of the system, the valve disc may open suddenly. The water will enter the delayer after passing through the groove and the small holes in the seat ring. Because the fluctuation period is very short, the valve disc will return

to its original position soon, so only a small amount water will flow into the delayer. Water collected by the delayer will be discharged from the orifice at the bottom. Because of the buffering effect of the delayer, the false alarm of the water powered alarm caused by the fluctuation of the water motor alarm can be avoided. The time needed for water flowing from the inlet to the outlet of the delayer is called delay time. The delay time of this instrument is 5-60S. When water flow stops, water in the delayer will be discharged from the orifice, and the discharge time is less than 5min.

### **2.1.3 Water motor alarm**

The water motor alarm is an alarm instrument that will ring with water flow as its driving force. It is usually used as the supporting device of the alarm valve of the automatic fire-extinguishing sprinkler system. The water motor alarm consists of the alarm bell, bell clapper, rotation shaft, hydro-turbine and water pipes. When any sprinkler action or test valve of the automatic sprinkler system is opened, the alarm valve of the system automatically opens, then a small stream of water flows through the water supply pipe and impacts the turbine to rotate, which causes the hammer to continually impact the alarm bell and make a constant alarm.

## **2.2 Working principle**

The wet alarm valve is constantly in the servo state, and the system side is filled with water of working pressure. Because the pressure between the system side and the water supply side can be balanced by the bypass pipe and the compensator, and the area of the upper pressure-bearing surface is larger than that of the lower pressure-bearing surface, the false alarm caused by the opening of the valve disc due to water pressure fluctuation can be effectively avoided. When a fire alarm occurs in the control zone of the automatic sprinkler system, the thermal sensitive component in the sealed sprinkler will blow up in heat and spray water automatically, then the system side pressure of the wet alarm valve will drop. Because of the throttling action of the bypass pipe, the pressure between the system side and the water supply side can't reach balance immediately. The valve disc will open automatically under the effect of pressure difference and water from the water supply will flow into the pipe network of the system side for replenishment. Thus, the whole pipe network will be in the automatic fire extinguishing state. Meanwhile, due to a small amount of water flows to the delayer and the water motor alarm through the small holes in the seat ring, under certain pressure and flow rate, the water motor alarm will ring, then the pressure switch will transform the pressure signal into an electrical signal to start the fire pump and the auxiliary fire-fighting equipment for replenishing water and extinguishing the fire. Thus, the goal of automatic fire extinguishing and alarm is achieved.

## **3. Installation and commissioning**

3.1.1 This instrument shall be installed in places where is easy to observe and access. Install The wet alarm valve vertically on the pipes which have been properly tested for its pressure and cleaned. Please note that the arrow for water flow direction is pointing upwards. Reserve enough operation space for repair and maintenance before installation;

3.1.2 Clean the system pipe network completely before installation. Ensure that the inner wall of the pipes is coated with rust-proof layer and there is no dreg or dirt in the pipes;



3.1.3 In order to facilitate the observation of the pipe in which an alarm occurs, it is recommended to discharge the water from an open port or have the water discharge state easy to be observed before installation.

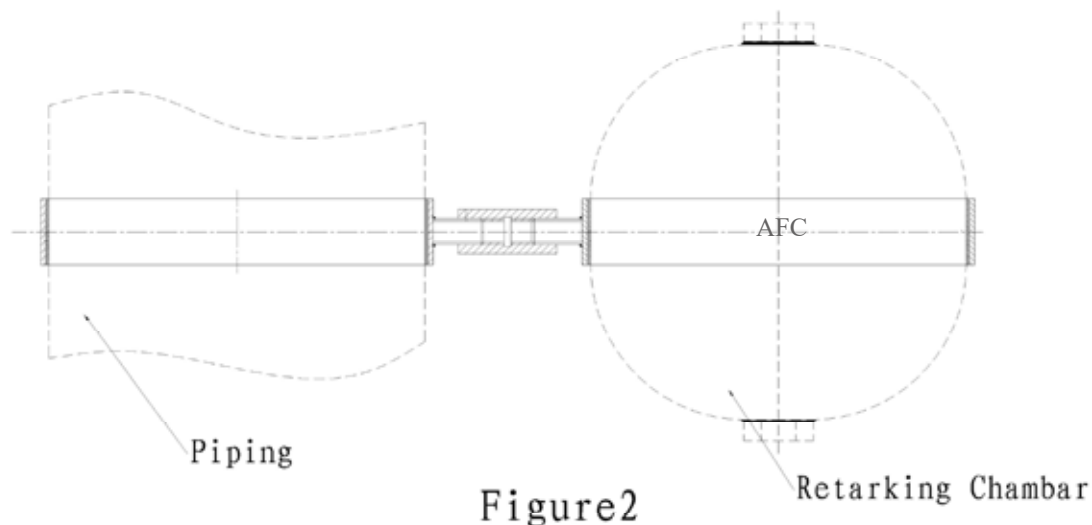
3.1.4 Check whether there is any damage at the joint between the wet alarm valve and the flange, check whether the seal is in good condition and whether the valve disc moves flexibly, carry out the leakage test with a pressure of two times of the rated working pressure. After the test, the valve disc shall be free of leakage; If there is any problem, replace the spare parts or clear the trouble before assembling the parts together.

3.1.5 Turn the pressure gauge to the position where the reading is clearly visible;

3.1.6 The pressure switch shall be installed on the top of the delayer. This pressure switch must be installed vertically and could only be used indoors. After installation, check if it acts reliably.

3.1.7 The water motor alarm shall be installed on the top of the delayer, after installation, check if it acts reliably.

3.1.8 With the exception of support from the trim piping, the retard chamber will also be binded by a clamp with the piping to avoid any movement or looseness. Pls refer to figure 2 for detailed information. The sizes of piping used for support of the retarding chamber is 3/4 in. with maximum lengths 3.28ft (1m)



## 3.2 Commissioning

3.2.1 After the completion of the pipe network installation, inject water in the pipe network to increase its pressure gradually and expel all the air from it. When the pressure increases to the system working pressure, check if there is any leakage in the whole system. If there is no leakage, start the alarm test and the water supply test for the pipes.

3.2.2 Alarm test: Open the discharge ball valve on the wet alarm valve instrument. When the flow rate reaches a certain value, the water motor alarm and the pressure switch will act accordingly to alarm.

3.2.3 Close the alarm ball valve and open the alarm test ball valve, the water of the water supply side will flow into the alarm instrument directly. The alarm functions of the pressure switch and the water motor alarm can be tested too when the valve disc is not in the servo state.

3.2.4 Pipeline water supply test: When opening the discharge ball valve, a large amount water will flow out steadily. If that's the case, it shows that the water supply of the pipe network is smooth, otherwise, expel the air from the pipeline system and clear the blockage to ensure the smooth water flow in the pipes.

#### 4. Drain

The part where the wet alarm valve is installed shall be provided with drainage facilities. Such as drainage channels and drainage pipe. All the drain outlets should be piped into the drainage channels or drainage pipes separately. In order to facilitate the observation of the condition of the alarm pipeline, it is better to drain it through an open drain hole or install it in a form that can see the drainage condition. Please refer to Figure 3.

4.1 The Hydraulic motor drain outlet of the alarm bell is piped into a drainage channels or drainage pipe

4.2 The drain outlet located at the lower end of the retard chamber is piped into a drainage channels or drainage pipe.

4.3 The drainage ball valve is piped into a drainage channels or drainage pipe.

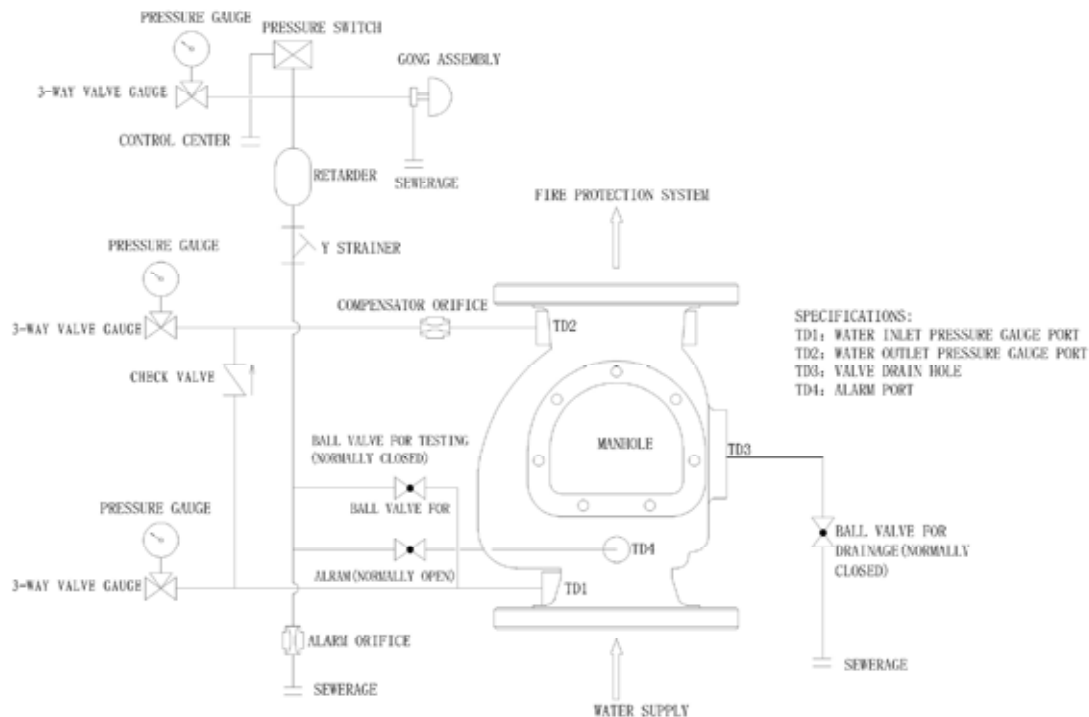


Figure 3

## **5. Periodical check and maintenance**

5.1 Clean the dirt and foreign matters attached on the rubber seal surface of the valve disc. Generally, the service life of the rubber seals is no more than eighteen months. Replace the seals in time if they are worn out or aging.

5.2 Clean the dirt and foreign matters from the small holes and seal surface in the groove of the valve disc seals. Be careful not to scratch the surface and keep the small holes unobstructed. If the seal surface can't be repaired, replace it with a new one.

5.3 Clean the blockage in the filter of the alarm valve instrument timely and keep the pipeline unblocked.

5.4 Check and clean the dirt in the delayer, and be sure that the small throttle holes will not be blocked by foreign matters.

5.5 Check the water motor alarm every three months:

4.5.1 Turn on the alarm bell to check whether its sound is loud, immediately remove any trouble if found.

5.5.2 Remove the alarm shell and clear up the dirt and the sediment in the alarm, then reassemble the alarm shell and gaskets in turn.

5.5.3 Remove the leaking joints from the water-wheel and clear up the dirt in it.

5.6 Check the pressure switch periodically (it is recommended to test every three months or more frequently).

## **6. Causes and Troubleshooting of Common Faults**

**6.1** When a fault alarm occurs, check whether there is any obvious or hidden leakage at the pipe joints of the system side, or whether the seal between the valve disc components and the valve seat in the alarm valve is not sealed due to deformation or dirt and debris blocking. Remove the dirt and foreign matters or replace the seal.

**6.2** When the throttling holes in the lower side of the delayer are blocked, the delayer will alarm or its delaying time will be shortened. And subsequently remove the cylindrical shell and the port of the throttling holes and wash them.

**5.3** If the water pump does not respond when the test valve is open and reaches specified pressure, it might be because the setting value of the pressure switch is wrong, you should adjust the pressure adjusting nut in the pressure switch to the specified value.

**6.4** If the water motor alarm does not act or ring loud enough, it might be because the control port is blocked or the bell clapper is stuck. Clean the spray nozzle, remove and wash the impeller and the bell clapper parts, and check if the impeller moves flexibly after reassembling.

***UL Listed.***

## Valves, Alarm

### COMPANY

#### American Fire Control LLC

255 S Orange Ave  
Orlando, FL 32801 United States

EX29512

*View model for additional information*

**Alarm Valve,** Model(s): ACV-300F, ACV-300FG, ACV-300-G, ACV-300GF

Last Updated on 2025-01-28

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***FM Approval.***



Sprinkler System Components | Water Motor Gongs | **Waterflow Alarm System Valves**

# Models ACV-300G, ACV-300F, ACV-300FG, ACV-300GF, and RCA-1

## Product Description

| Model No  | Description       | Valve Size                      |  | Rated Working Pressure |        | End Connection    | Remarks |
|-----------|-------------------|---------------------------------|--|------------------------|--------|-------------------|---------|
|           |                   | in                              | (mm)                                       | psi                    | (kPa)  |                   |         |
| ACV-300G  | Alarm Check Valve | 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 | (50, 65, 80, 100, 125, 150, 200, 250, 300) | 300                    | (2065) | Grooved x Grooved | a, b, c |
| ACV-300F  | Alarm Check Valve | 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 | (50, 65, 80, 100, 125, 150, 200, 250, 300) | 300                    | (2065) | Flanged x Flanged | a, b, c |
| ACV-300FG | Alarm Check Valve | 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 | (50, 65, 80, 100, 125, 150, 200, 250, 300) | 300                    | (2065) | Flanged x Grooved | a, b, c |
| ACV-300GF | Alarm Check Valve | 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 | (50, 65, 80, 100, 125, 150, 200, 250, 300) | 300                    | (2065) | Grooved x Flanged | a, b, c |

- Remarks:**
- a. Resilient seat.
  - b. FM Approved for Vertical Installations Only
  - c. Approved for use with Model RCA-1 retard chamber

## Details

|                    |                               |
|--------------------|-------------------------------|
| Category           | Waterflow Alarm System Valves |
| Class of Work      | 1041 - Alarm Check Valves     |
| Approval Standard  | FM 1041 - Alarm Check Valves  |
| Certification Type | FM Approved                   |
| Listing Country    | United States of America      |

## Company




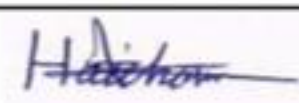

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United States of America  
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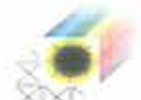
Confirm

***Previous Approvals.***



| Consultant:<br>   | THIRD SAUDI EXPANSION OF THE HOLY MOSQUE &<br>SURROUNDING AREAS   | Contractor:<br>  |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
|--|---|---|-------------|-----|--------------|--------------------------|-----------|--------------------------|------------------|--------------------------|-------------|--------------------------|------------|--------------------------|-------------------|-------------------------------------|----------------------|--------------------------|----------|--------------------------|----------------------|--------------------------|-------------------|-------------------------------------|--------------|--------------------------|------------------|--------------------------|--------|-------------------------------------|
| <b>CONTRACTOR : SAUDI BINLADIN GROUP (HARAMAIN DIVISION)</b>   |   | Date : <b>06/Nov/2024</b>   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <input type="checkbox"/> New Submittal<br><input checked="" type="checkbox"/> Resubmittal  | <b>SUBMITTAL FOR<br/>TECHNICAL<br/>APPROVAL (STA)</b>   | Submittal Ref. No.:<br><b>SHS-PRC-SBG-ME-MF-G-0203-01</b>   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>DEPARTMENT</b>  |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| AR   | CV  | ST  |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
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| ME   | EL  | LC  |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <input checked="" type="checkbox"/>  | <input type="checkbox"/>  | <input type="checkbox"/>  |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <input type="checkbox"/> Material Submittal <input type="checkbox"/> Sample Submittal <input checked="" type="checkbox"/> Pre-qualification <input type="checkbox"/> Method Statement <input type="checkbox"/> Other                                       |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>To : DAR AL- HANDASAH</b>   |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>1. Subject:</b><br>Prequalification Document for Modern Arab Enterprises Co. Ltd., KSA for Fire Protection Products Manufactured by American Fire Control (AFC). USA  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">Attachments</th> <th style="width: 20%;">No.</th> </tr> </thead> <tbody> <tr><td>Sample Board</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Catalogue</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Product Warranty</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Test Report</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Tech. Data</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Pre-Qualification</td><td style="text-align: center;"><input checked="" type="checkbox"/></td></tr> <tr><td>Compliance Statement</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Drawings</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Supplier Calculation</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Reply of comments</td><td style="text-align: center;"><input checked="" type="checkbox"/></td></tr> <tr><td>Certificates</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Method Statement</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Others</td><td style="text-align: center;"><input checked="" type="checkbox"/></td></tr> </tbody> </table> |   | Attachments | No. | Sample Board | <input type="checkbox"/> | Catalogue | <input type="checkbox"/> | Product Warranty | <input type="checkbox"/> | Test Report | <input type="checkbox"/> | Tech. Data | <input type="checkbox"/> | Pre-Qualification | <input checked="" type="checkbox"/> | Compliance Statement | <input type="checkbox"/> | Drawings | <input type="checkbox"/> | Supplier Calculation | <input type="checkbox"/> | Reply of comments | <input checked="" type="checkbox"/> | Certificates | <input type="checkbox"/> | Method Statement | <input type="checkbox"/> | Others | <input checked="" type="checkbox"/> |
| Attachments  | No.   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Sample Board   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Catalogue  | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Product Warranty   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Test Report  | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Tech. Data   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Pre-Qualification  | <input checked="" type="checkbox"/>   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Compliance Statement   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Drawings   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Supplier Calculation   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Reply of comments  | <input checked="" type="checkbox"/>   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Certificates   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Method Statement   | <input type="checkbox"/>  |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Others   | <input checked="" type="checkbox"/>   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>2. Submittal Description:</b><br>   | Prequalification Document for Modern Arab Enterprises Co. Ltd., KSA for Fire Protection Products Manufactured by American Fire Control (AFC), USA   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Area Of Application : <b>Service Building (All Zones)</b><br>Drawing Ref. : <b>N/A</b><br>Specification Ref. : <b>N/A</b><br>Attached MAT Approval Copy : <b>N/A</b>   | Code : <b>N/A</b>   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Note:      Original attached <input type="checkbox"/> Soft copy attached: <input checked="" type="checkbox"/>  |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>3. MANUFACTURER / SUPPLIER:</b><br>Manufacturer & Address : <b>American Fire Control (AFC), USA</b><br>Supplier & Address : <b>Modern Arab Enterprises Co. Ltd., KSA</b>  |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>4. SBG Comments:</b> <input checked="" type="checkbox"/> Please proceed <input type="checkbox"/> Refer to attached sheet  |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Submitted by   | Sub-Contractor  | Contractor  |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Name:  | N.A   | Engr. Haitham Qashou  |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Signature:   | N.A   |    |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
|  |   |    |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| This section will be used by Approving Authority only.   |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| <b>5. ENGINEER'S REPRESENTATIVE'S COMMENTS:</b><br><br>Refer to comments on the attached "A4" sheets (2 nos.)<br><br>H. Ghonaimy/M. Mohammadin/T. Abbas      HG/MM/TA<br>05-12-2024  |   | A). Approved <input type="checkbox"/><br>B). Approved as Noted <input checked="" type="checkbox"/><br>C). Revise & Resubmit <input type="checkbox"/><br>D). Rejected <input type="checkbox"/> |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Eng. Name: <b>Mohamed Attai on behalf of Ezzat A. Halim</b> Title: ..... Signature: <b>Mohamed Attia</b> Date: <b>07/12/2024</b>   |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |
| Approval shall not relieve the Contractor of its obligations and liabilities under the Contract or constitute authorization of any change to Contract Documents, and therefore shall not imply any recognition whatsoever of additional time and/ or cost. |   |   |             |     |              |                          |           |                          |                  |                          |             |                          |            |                          |                   |                                     |                      |                          |          |                          |                      |                          |                   |                                     |              |                          |                  |                          |        |                                     |



**BENAN PROJECT****MATERIAL INSPECTION REQUEST****DETAILS OF SCHEDULED INSPECTION****Section A**

Package : BP-001

MIR No : TSC -BP01-TCC-ZFP-MIR-ME-00147

To : Zuhair Fayez Partnership

Phase No. :

Date : 21/20-Mar-24

Inspection scheduled for - Time:

Date : 21/20-Mar-24

Location :

Building/Plot :

Level :

Zone :

Material to be Inspected :

Spec./Drwg ref :

Submittal No :

Measuring Equipment used:

Calibrated (Y/N)

Validity date:

Description of

Material inspection request for fire hydrant and vertical indicator post, see attached delivery notes for description and quantity

Required Inspection :

Proof of GC/MEP

Co-ordinated Inspection

**CONFIRMATION OF CONTRACTOR'S Q.C. INSPECTION****Section B**

Confirmation of co-ordination and compliance with Specifications, Approved Drawings, Method Statement and Quality Control Plan

Tick box

YES

NO

Note: If NO, any departure from Specifications, Approved Drawings, Method Statement and Quality Control Plan to be recorded below.

Non Conformity and/or reference of attached Non Conformity Report (NCR):

Date:

Contractor :

Project Manager

Date :

21/20-Mar-24

**SUPERVISION CONSULTANT'S REVIEW COMMENTS****Section C**

- ① Firehydrant and Vertical indicator post inspected as per attached delivery note.
- ② Quantity shall be considered after site installation request approval.

|   |                          |
|---|--------------------------|
| A | Approved                 |
| B | Approved with Comments ✓ |
| C | Revised & Resubmit       |
| D | For Information Only     |
| R | Rejected                 |

Consultant:

Date : 23/03/24

PM/CM If Required :

Date :

THE CONSULTANT'S COMMENTS SHALL NOT RELIEVE THE CONTRACTOR  
OF ANY OF HIS RESPONSIBILITIES UNDER THE CONTRACT

Received for Contractor :

Date :

Receipted Copy to :

PM / Others

Copy with Section A completed by Contractor to be passed to Consultant

Original with Section B completed to be handed to Consultant prior to Inspection

Consultant to complete Section C and return to Contractor.





## DATA SHEET

# DRY BARREL FIRE HYDRANT



**AMERICAN FIRE CONTROL**  
QUALITY IS A PRIORITY

## SPECIFICATIONS

- Maximum Operating Pressure: 250 PSI (17.2 Bar)
- UL Listed, FM Approved for Fire Protection Roadside Service
- Conforms to AWWA C502 Requirements
- Factory Tested 100% to 500 PSI (34.5 Bar)
- Ductile Iron Body
- Steel Stem and Bronze Seat
- All Fasteners Below Ground 304 Stainless Steel
- Finish: Red and Black Epoxy Paint Interior and Exterior per AWWA C550
- Lubrication: Lube Oil Cold Temp
- **Repairable Due to Traffic Breakage Without Excavation**
- Seat and Disc Repairable Without Excavation
- Minimal Torque Seat and Disc Design for Closing and Opening Torque



## Models

**F-7700**

**ASME CLASS 150 / ISO PN16 Flanges**

**F-8700**

**AWWA Mechanical joint**

## INLET

- 6" (ND150) ASME B16.5 Class 150
- DIN 2503 PN16 Flanged
- 6" Mechanical Connection per AWWA / ANSI C153 / A21.53

## OUTLET

- Fire Pump Steamer 4 1/2" - 4nh
- 2 1/2" - 7.5NH Standard





# DATA SHEET

## DRY BARREL FIRE HYDRANT



AMERICAN FIRE CONTROL  
QUALITY IS A PRIORITY

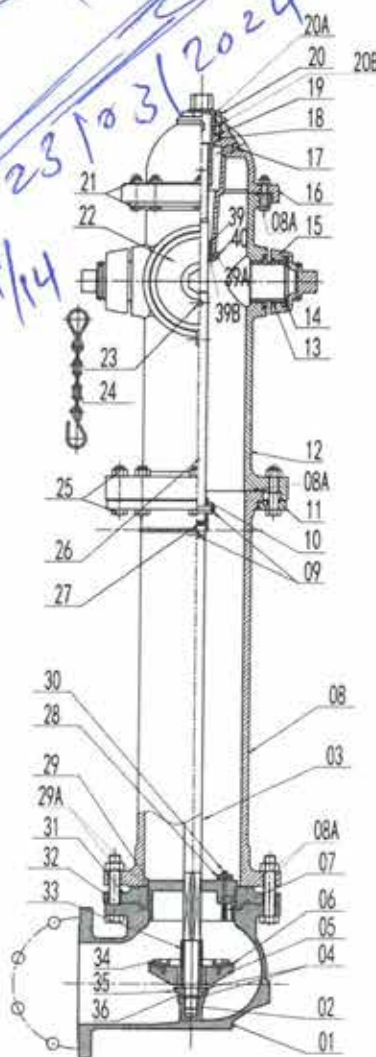
DUCTILE IRON BODY • SEAT AND DISC REPAIRABLE WITHOUT EXCAVATION • AWWA C550 EPOXY COATED

250 PSI (17.2 BAR) MAXIMUM OPERATING PRESSURE



F-7700  
ASME CLASS 150 /  
ISO PN16 FLANGES

F-8700  
AWWA MECHANICAL  
JOINT



### MATERIAL LIST

| ITEM | DESCRIPTION                 | SPECIFICATION                         |
|------|-----------------------------|---------------------------------------|
| 1    | Connector Inlet             | Ductile Iron ASTM A536 Grade 65-45-12 |
| 2    | Lock Nut                    | Ductile Iron ASTM A536 Grade 65-45-12 |
| 3    | Connecting Rod              | Carbon Steel 1045 ASTM A29/29M        |
| 4    | Lock Nut                    | Gasket EPDM ASTM D200                 |
| 5    | Tray                        | Ductile Iron ASTM A536 Grade 65-45-12 |
| 6    | Seal                        | EPDM ASTM D2000                       |
| 7    | Drain Hole Spring           | Stainless Steel 316 ASTM A240         |
| 8    | Lower Barrel                | Ductile Iron ASTM A536 Grade 65-45-12 |
| 8A   | O-Ring                      | NBR ASTM D2000                        |
| 9    | Perforated Cylinder Pin     | Carbon Steel 1045 ASTM A29/29M        |
| 10   | Connecting Rod Sleeve       | Carbon Steel 1045 ASTM A29/29M        |
| 11   | Clamp Ring                  | Ductile Iron ASTM A536 Grade 65-45-12 |
| 12   | Body Upper                  | Ductile Iron ASTM A536 Grade 65-45-12 |
| 13   | Outlet Nipple               | C95400 ASTM B148                      |
| 14   | Outlet Gasket               | EPDM ASTM D2000                       |
| 15   | Outlet Cap                  | Ductile Iron ASTM A536 Grade 65-45-12 |
| 16   | Upper Bonnet                | Ductile Iron ASTM A536 Grade 65-45-12 |
| 17   | Thread Plug                 | C95400 ASTM B148                      |
| 18   | Screw Stem Nut              | C95400 ASTM B148                      |
| 19   | Screw Nut Gasket            | C95400 ASTM B148                      |
| 20   | Screw Nut Seat              | C95400 ASTM B148                      |
| 20A  | O-Ring                      | NBR ASTM D2000                        |
| 20B  | O-Ring                      | NBR ASTM D2000                        |
| 21   | Bonnet Bolts and Nuts       | Carbon Steel 1035 ASTM A29/29M        |
| 22   | Pumper Connection Cap       | Ductile Iron ASTM A536 Grade 65-45-12 |
| 23   | Cylindrical Pin             | Carbon Steel 1045 ASTM A29/29M        |
| 24   | Cover Chain                 | Carbon Steel Gr B ASTM A283-B         |
| 25   | Body Bolts and Nuts         | Carbon Steel 1035 ASTM A29/29M        |
| 26   | Upper Stem                  | Carbon Steel 1045 ASTM A29/29M        |
| 27   | Cushion                     | EPDM ASTM D2000                       |
| 28   | Drain Hole Cover            | C95400 / EPDM                         |
| 29   | Seat                        | C95400 ASTM B148                      |
| 29A  | O-Ring                      | NBR ASTM D2000                        |
| 30   | Bolt and Nut                | Stainless Steel 304 ASTM A240         |
| 31   | Seat Retainer Plate         | Ductile Iron ASTM A536 Grade 65-45-12 |
| 32   | Lower Barrel Bolts and Nuts | 1035 ASTM A29/29M                     |
| 33   | Annular Tube                | Carbon Steel 1045 ASTM A29/29M        |
| 34   | Plate Retainer              | Ductile Iron ASTM A536 Grade 65-45-12 |
| 35   | Lock Nut Seat               | Ductile Iron ASTM A536 Grade 65-45-12 |
| 36   | Check Turn Gasket           | GR.B ASTM A283-B                      |
| 37   | Steamer Connector Tube      | C95400 ASTM B148                      |
| 38   | Steamer Gasket              | GR.B ASTM A283-B                      |
| 39   | Screw Stem Bushing          | Stainless Steel 304 ASTM A240         |
| 39A  | O-Ring                      | NBR ASTM D2000                        |
| 39B  | O-Ring                      | NBR ASTM D2000                        |
| 40   | Bolt                        | Stainless Steel 304 ASTM A240         |

Seat Repair Kit: Includes all seals, O-rings and removal tool "T" Handle. (1) item #4, (1) item #6, (1) item 8A, (1) item 20A, (1) item 20B, (2) item 29A (3) item 29B, (2) item 39A, (2) item 39B and (1) T handle stem wrench.

Traffic Repair Kit: Includes new connecting sleeve, clamp ring, pins and O-rings for above ground repair. (2) item 8A, (2) item 9, (1) item 10, (1) item 11, (1) item 20A, (1) item 27, (1) item 20B, (2) item 39A, (2) item 39B

All information contained herein is the property of American Fire Control and is to be accurate. Information is subject to change without notice. Purchaser is responsible for proper installation and use of product. American Fire Control, LLC, pays no manufacturer's warranty but extends no other warranty. All products sold by American Fire Control, LLC, are subject to its full terms and conditions of sales as published and available on request. Any warranty made extends to original purchaser and is not assignable or transferable.



# DATA SHEET

## DRY BARREL FIRE HYDRANT



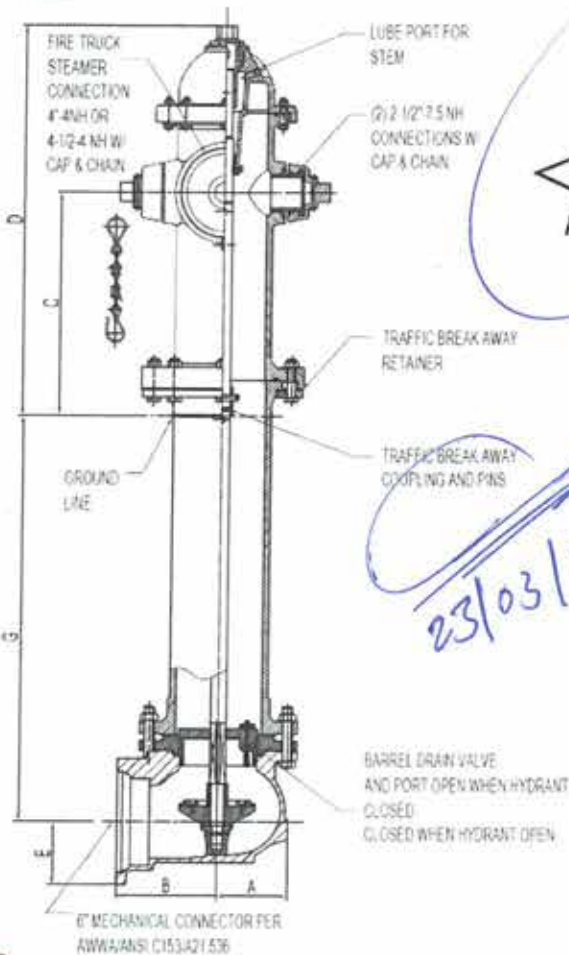
AMERICAN FIRE CONTROL  
QUALITY IS A PRIORITY

Dry Barrel Hydrant 6" (DN 150) Flanged or Mechanical Inlet, STD Outlets (2) 2 1/2" -7.5NH Male Outlets and (1) 4 1/2" - 4 NH Male Steamer Pumper Connection:

### DIMENSIONAL INFORMATION

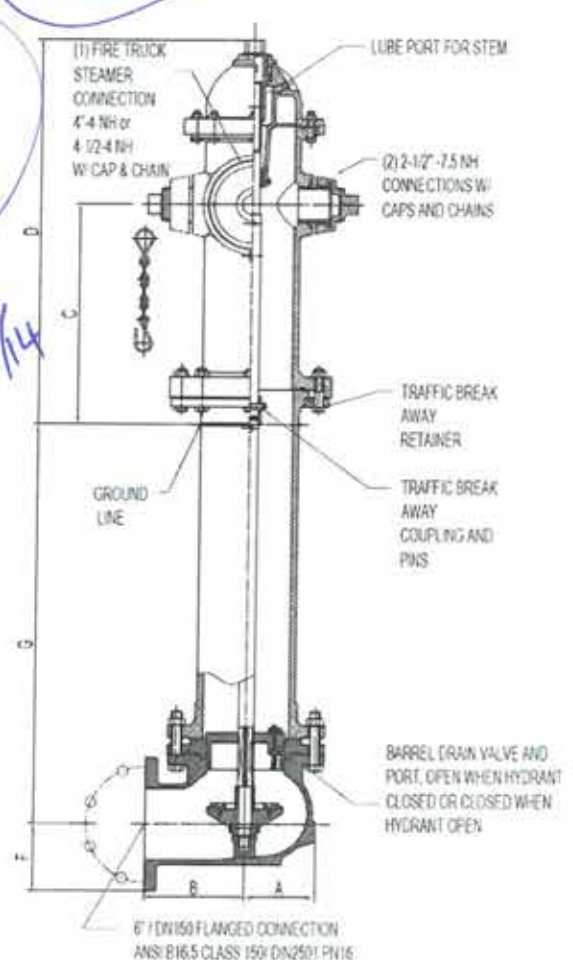
F-8700

AWWA MECHANICAL  
JOINT



F-7700

ASME CLASS 150 /  
ISO PN16 FLANGES



### OPTIONS:

- Inlet flanged ASME B16.5 Class 150 or ISO2501 PN16, or / mechanical AWWA C153 / A21.536
- Depth choose one of above Dimension "G"
- Outlet (2) 2 1/2" hose connection thread type specify, standard =7.5NH (other thread types available)
- Steamer pumper outlet standard=(1) 4 1/2" -4NH, also available 4"-4NH optional adapter fitting

| Part Number<br>Flanged | Part Number<br>Mechanical | A<br>(mm/ inch) | B<br>(mm/ inch) | C<br>(mm/ inch) | D<br>(mm/ inch) | E<br>(mm/ inch) | F<br>(mm/ inch) | G (mm/ inch) | Weight<br>(kg) |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|----------------|
| F-7700                 | F-8700                    | 146/ 5.75       | 208/ 8.18       | 460/ 18.11      | 805/ 31.7       | 130/5.12        | 140/5.51        | 1063/42      | 185            |
|                        |                           |                 |                 |                 |                 |                 |                 | 1215/48      | 190            |
|                        |                           |                 |                 |                 |                 |                 |                 | 1368/54      | 196            |
|                        |                           |                 |                 |                 |                 |                 |                 | 1520/60      | 211            |
|                        |                           |                 |                 |                 |                 |                 |                 | 1673/66      | 220            |
|                        |                           |                 |                 |                 |                 |                 |                 | 1825/72      | 241            |
|                        |                           |                 |                 |                 |                 |                 |                 | 1978/78      | 246            |
|                        |                           |                 |                 |                 |                 |                 |                 | 2130/84      | 251            |





## DATA SHEET

### 5100 Vertical Indicator Post



**AMERICAN FIRE CONTROL**  
QUALITY IS A PRIORITY

The American 5100 Vertical Post Indicator is a critical component of fire protection systems, designed to provide a visual indication of the status of fire protection valves such as post indicator valves. These valves are commonly found in fire sprinkler systems, hydrant systems, and standpipe systems within buildings and industrial facilities. The VPI plays a crucial role in ensuring the efficient operation of these systems during fire emergencies.

#### SPECIFICATIONS

- Clearly displays valve status (open or shut) for operational awareness
- Enables remote operation of buried or hard-to-reach valves
- Secure design with a padlock-compatible wrench handle fitting over a "u" bracket
- Simplified installation with adjustable telescoping stem, eliminating the need for field cutting
- Easily customizable open and shut signs by removing the post head
- Compatible with gate valves sizes ranging from 4" to 12"
- UL listed and FM approved

#### CORROSION PROTECTION

- Internally and externally spray epoxy painted ral3000

#### FIELD ADJUSTMENT

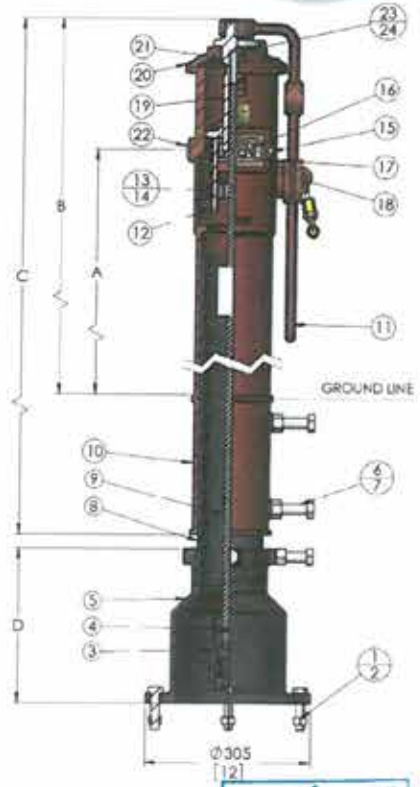
- Remove post head to adjust open and shut signs as required
- Adjust telescoping stem and pipe to desired length
- Attach base of post to the post plate on the valve using bolts/nuts provided



Handwritten note: 6/14  
23/03/2024

#### PART LIST

| No. | Part Name          | Specification/Material              |
|-----|--------------------|-------------------------------------|
| 1   | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 2   | Hex Nut            | Carbon Steel ASTM A307B             |
| 3   | Crane Coupling     | Ductile Iron ASTM A536 Gr. 65-45-12 |
| 4   | Cotter Pin         | Carbon Steel ASTM A307B             |
| 5   | Base Flange        | Cast Iron ASTM A126 Class B         |
| 6   | Hex Nut            | Carbon Steel ASTM A307B             |
| 7   | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 8   | Standpipe          | Carbon Steel ASTM A53               |
| 9   | Stem 1" Square     | Carbon Steel AISI 1045              |
| 10  | Body               | Cast Iron ASTM A126 Class B         |
| 11  | Locking Wrench     | Ductile Iron ASTM A536 Gr. 65-45-12 |
| 12  | Target Carrier Nut | Stainless Steel AISI 304            |
| 13  | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 14  | Hex Nut            | Carbon Steel ASTM A307B             |
| 15  | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 16  | Target             | Cast Aluminum                       |
| 17  | Window Glass       | Plexiglass                          |
| 18  | Gasket             | EPDM ASTM D2000                     |
| 19  | Operating Nut      | Stainless Steel AISI 304            |
| 20  | Top Section        | Cast Iron ASTM A126 Class B         |
| 21  | Snap Ring          | Spring Steel                        |
| 22  | Plug               | Carbon Steel ASTM A307B             |
| 23  | Square Nut         | Carbon Steel ASTM A307B             |
| 24  | Hex Cap Screw      | Carbon Steel ASTM A307B             |



## DATA SHEET

### 5100 Vertical Indicator Post



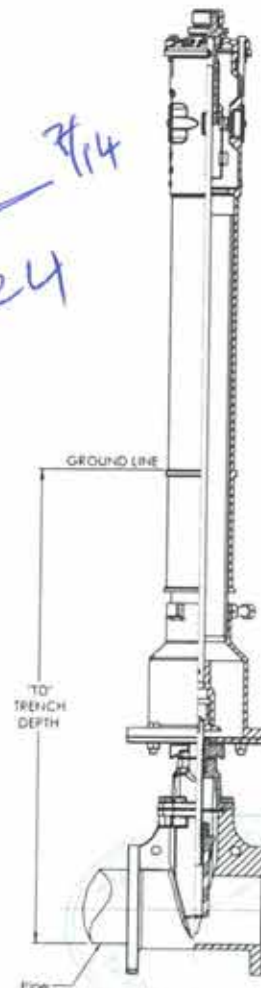
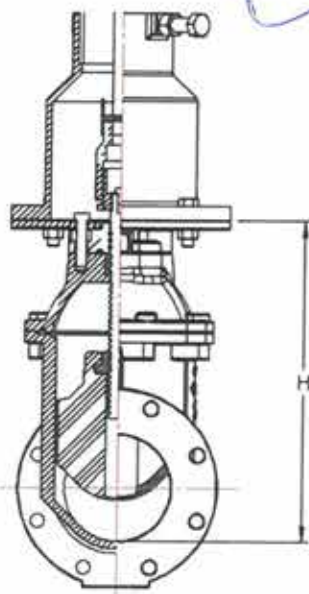
**AMERICAN FIRE CONTROL**  
QUALITY IS A PRIORITY

#### DIMENSIONS

| Valve Size | Model No. | A              | B               | C               | D              |
|------------|-----------|----------------|-----------------|-----------------|----------------|
| 4" ~12"    | 5100      | 700<br>(27.5") | 1000<br>(39.3") | 1248<br>(49.1") | 297<br>(11.7") |

#### AMERICAN AFC A-3100 PIV-NRS Gate Valve

| Valve Size | H      |
|------------|--------|
| 4"         | 11.9"  |
| 6"         | 17.2"  |
| 8"         | 20.79" |
| 10"        | 26.18" |
| 12"        | 30.31" |



| Size                        | 4"     | 6"     | 8"     | 10"    | 12"    |
|-----------------------------|--------|--------|--------|--------|--------|
| Trench Depth Range (TD) Min | 34.65" | 39.76" | 44.29" | 48.62" | 53.54" |
| Trench Depth Range (TD) Max | 71.26" | 76.38" | 80.91" | 85.24" | 90.16" |

All dimensions shown are typical and subject to change without notice. American Fire Control Co., LLC is not responsible for any errors or omissions in this document. American Fire Control Co., LLC is not responsible for any errors or omissions in this document. American Fire Control Co., LLC is not responsible for any errors or omissions in this document.







# CERTIFICATE

This is to certify that

## American Fire Control

255 S Orange Ave,  
Orlando, FL 32801  
United States of America

23/03/2024 8/14

has implemented and maintains a **Quality Management System**.

### Scope:

The Design and Manufacture of Ductile and Gray Iron Castings, Fire Hydrants, Indicator Posts, Check Valves, Gate Valves, Butterfly Valves and Associated Component.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

## ISO 9001 : 2015

Certificate registration no. 051223010103  
Date of original certification 2014-07-22  
Date of certification 2023-12-05  
Valid until 2026-12-04



To verify certificate, visit at :  
<https://uafaccreditation.org>  
<https://www.iafcertsearch.org>



**ARS Assessment Private Limited**

*ABhishek*

Managing Director

UAF Address : 400, North Center Dr, STE 202, Norfolk, VA 23502, United States of America :

This certificate remains the property of ARS and must be returned to ARS on Cancellation or Suspension of the certificate Validity of the certificate is subject to successful completion of surveillance audits. Further clarification regarding the scope of this certificate and the applicability of standard may be obtained by consulting the Organization on [info@arscert.com](mailto:info@arscert.com)

# CERTIFICATE



This is to certify that

## American Fire Control

255 S Orange Ave,  
Orlando, FL 32801  
United States of America

*Handwritten signature and date: 23/03/2024*

has implemented and maintains an **Environmental Management System**.

### Scope:

The Design and Manufacture of Ductile and Gray Iron Castings, Fire Hydrants, Indicator Posts, Check Valves, Gate Valves, Butterfly Valves and Associated Component.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

## ISO 14001 : 2015

Certificate registration no. 051223020104  
Date of original certification 2014-07-22  
Date of certification 2023-12-05  
Valid until 2026-12-04



To verify certificate, visit at :

<https://uafaccreditation.org>  
<https://www.iafcertsearch.org>



**ARS Assessment Private Limited**

*Handwritten signature of Managing Director*

Managing Director

UAF Address : 400, North Center Dr., STE 202, Norfolk, VA 23502, United States of America :

This certificate remains the property of ARS and must be returned to ARS on Cancellation or Suspension of the certificate. Validity of the certificate is subject to successful completion of surveillance audits. Further clarification regarding the scope of this certificate and the applicability of standard may be obtained by consulting the Organization on [info@arscert.com](mailto:info@arscert.com).



# CERTIFICATE

This is to certify that

## American Fire Control

255 S Orange Ave,  
Orlando, FL 32801  
United States of America

10/14  
23/03/2024

has implemented and maintains an **Occupational Health and Safety Management System**.

### Scope:

The Design and Manufacture of Ductile and Gray Iron Castings, Fire Hydrants, Indicator Posts, Check Valves, Gate Valves, Butterfly Valves and Associated Component.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

## ISO 45001 : 2018

Certificate registration no. 051223030105  
Date of original certification 2014-07-22  
Date of certification 2023-12-05  
Valid until 2026-12-04



To verify certificate, visit at :  
<https://uafaccreditation.org>  
<https://www.iafcertsearch.org>



## ARS Assessment Private Limited

AShish

Managing Director

UAF Address : 400, North Center Dr, STE 202, Norfolk, VA 23502, United States of America :

This certificate remains the property of ARS and must be returned to ARS on Cancellation or Suspension of the certificate Validity of the certificate is subject to successful completion of surveillance audits. Further clarification regarding the scope of this certificate and the applicability of standard may be obtained by consulting the Organization on [info@arscert.com](mailto:info@arscert.com)

## HBOR.EX28963 - Hydrants

American Fire Control LLC  
255 S Orange Ave  
Orlando, FL 32801 United States

Hydrants

EX28963

## Base-valve design:

| Model  | Base-valve Size, in. | Hose Outlet (No. of Outlets), in. | Pumper Outlet (No. of Outlets), in. | Rated Pressure, psig |
|--------|----------------------|-----------------------------------|-------------------------------------|----------------------|
| F-8700 | 5-1/4                | (2) 2-1/2                         | (1) 4-1/2                           | 250                  |
| F-7700 | 5-1/4                | (2) 2-1/2                         | (1) 4-1/2                           | 250                  |

## Wet-barrel design:

| Model   | Hose Outlet (No. of Outlets), in. | Pumper Outlet (No. of Outlets), in. | Rated Pressure, psig |
|---------|-----------------------------------|-------------------------------------|----------------------|
| FW-9000 | (2) 2-1/2                         | (1) 4-1/2                           | 250                  |

Last Updated on 2023-02-10

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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Other Fire Protection Products | Fire Hydrants (Dry Barrel Type) | Hydrants, Dry Barrel

## Model F-7800, F-8700, F-8800, and F-7700

*Handwritten signature and date: 23/03/2024*

### Product Description

### Product Specification

| Model No | Size |       | # of Hose Outlets | Hose Outlet Size |      | Pumper Connection Size |       | Rated Working Pressure |        | Remarks |
|----------|------|-------|-------------------|------------------|------|------------------------|-------|------------------------|--------|---------|
|          | in   | (mm)  |                   | in               | (mm) | in                     | (mm)  | psi                    | (kPa)  |         |
| F-7800   | 6    | (152) | 2                 | 2 1/2            | (64) | 4                      | (102) | 250                    | (1720) | a       |
| F-8700   | 6    | (152) | 2                 | 2 1/2            | (64) | 4 1/2                  | (114) | 250                    | (1720) | a       |
| F-8800   | 6    | (152) | 2                 | 2 1/2            | (64) | 4                      | (102) | 250                    | (1720) | b       |
| F-7700   | 6    | (152) | 2                 | 2 1/2            | (64) | 4 1/2                  | (114) | 250                    | (1720) | b       |

### Remarks:

- a.) Available with a ANSI/AWWA C111/A21.11 Mechanical Joint Inlet Connection
- b.) Available with a ASME B16.5 Class 150 Flanged Joint Inlet Connection





## Details

**Category** Hydrants, Dry Barrel

**Class of Work** 1510 - Hydrants(Dry Brl Ty), Pvt FS

**Certification Type** FM Approved

**Listing Country** United States of America

  
~~23/03/2024~~ 13/4

## Company

American Fire Control LLC  
255 S Orange Avenue, Orlando,  
Florida 32801  
United States of America  
<http://american-afc.com>

|   |   |                                      |        |   |   |
|---|---|--------------------------------------|--------|---|---|
|  |   | <b>COMMENT RESOLUTION SHEET(CRS)</b> |        |  |  |
| Project Name  | Package Jeddah South Container Terminal Upgrade - Design & Build Main Works |                                      |        | Date:   | 30 July 2023  |
| Project No.   | 60622986  | CRS Reference No.:                   | 003215 | Rev.0A  | Page: 1 of 1  |

| Comment Resolution Sheet Information   | Code | ER Reference No. |
|--|------|------------------|
| CRS Status: <input checked="" type="checkbox"/> CLOSED <input type="checkbox"/> OPEN | 1    |                  |
| * All new comments are marked in RED   |      |                  |



| CONTRACTOR'S DOCUMENT NO./<br>TRANSMITTAL REFERENCE | DOCUMENT TITLE / REFERENCE   | RECEIVED     | ISSUED       |
|---|--|--------------|--------------|
| 11099-SUB-UDC-GL-MAR-002                            | Material Approval Request for Zone Control Valves-Rev.0A<br>Vendor: United Diamond Contractors | 17 July 2023 | 30 July 2023 |

| S/NO. | DOCUMENT<br>/DRAWING/<br>REPORT<br>SECTION<br>OR<br>CLAUSE<br>NO. | ENGINEER'S COMMENTS   | CONTRACTOR'S RESPONSE | FINAL RESOLUTION |
|-------|---|---|-----------------------|------------------|
| 1.    |   | Material Approval Request for Zone Control Valves-Rev.0A<br>Supplied by United Diamond Contractors is acceptable subject to the condition that it complies with the approved IFC Drawings, Contract Specifications and the Employer's Requirements. |                       |                  |

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FABRICATION, AND PERFORMANCE OF THE EQUIPMENT

|  |  |  |  |  |      |
|--|--|--|--|--|------|
|  | <b>ARCHIRODON GROUP NV</b><br>Integrated Management System<br><br><b>MATERIAL APPROVAL REQUEST FOR</b><br><b>ZONE CONTROL VALVE</b> |  | <b>Jeddah South Container Terminal Upgrade</b><br><b>Design &amp; Build Main Works</b> |  | Rev. |
|  | Issued For   |  | General Use  |  |      |
|  | Reference No.  |  | 11099-SUB-UDC-GL-MAR-002   |  | 0A   |
|  | Serial No.   |  |  |  |      |
|  | Page   |  | 1 of 81  |  |      |

**DP WORLD JEDDAH**

**Contract No.: SAJED-M&I-2019-144/DB/2020/059**

## **MATERIAL APPROVAL REQUEST FOR ZONE CONTROL VALVES**



**VENDOR: UNITED DIAMOND CONTRACTORS**  
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FURNISHED.

| Rev. | Issue Date | Issue Status | Completed by |   | Reviewed by  |  | Approved by  |                      |
|------|------------|--------------|--------------|---|--------------|--|--------------|----------------------|
| 0A   | 13.07.2023 | IFA          | Job Position | Technical Office Section Head   | Job Position | Technical Office Manager   | Job Position | Project Manager      |
|      |            |              | Name         | Karamullah Sharief  | Name         | Mohamed Khairy   | Name         | Dipankar Chakravorty |
|      |            |              | Signature    |  | Signature    |  | Signature    |                      |



|  |  |  |                          |      |
|--|--|--|--------------------------|------|
|  | <b>ARCHIRODON GROUP NV</b><br>Integrated Management System<br><br><b>MATERIAL APPROVAL REQUEST FOR</b><br><b>ZONE CONTROL VALVE</b> | <b>Jeddah South Container Terminal Upgrade</b><br><b>Design &amp; Build Main Works</b> |                          | Rev. |
|  |  | Issued For   | General Use              |      |
|  |  | Reference No.  | 11099-SUB-UDC-GL-MAR-002 | 0A   |
|  |  | Serial No.   |                          |      |
|  |  | Page   | 3 of 81                  |      |




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| 2. COMPLIANCE STATEMENTS .....                     | Page 006 |
| 3. TECHNICAL SPECIFICATIONS (REFERENCE LIST) ..... | Page 019 |
| 4. TECHNICAL DATA SHEETS .....                     | Page 020 |

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|   |  |  |  |      |
|---|--|--|--|------|
| <br> | <b>ARCHIRODON GROUP NV</b><br>Integrated Management System<br><br><b>MATERIAL APPROVAL REQUEST FOR</b><br><b>ZONE CONTROL VALVE</b> |  | <b>Jeddah South Container Terminal Upgrade</b><br><b>Design &amp; Build Main Works</b> | Rev. |
|   | Issued For   |  | General Use  |      |
|   | Reference No.  |  | 11099-SUB-UDC-GL-MAR-002   | 0A   |
|   | Serial No.   |  |  |      |
|   | Page   |  | 7 of 81  |      |

### 3. TECHNICAL SPECIFICATIONS (REFERENCE LIST)

| REFERENCE                  | TITLE  |
|----------------------------|--|
| 11099-ENG-B-GL-PB-SPE-0040 | SPECIFICATION FOR BUILDING MECHANICAL SERVICES |

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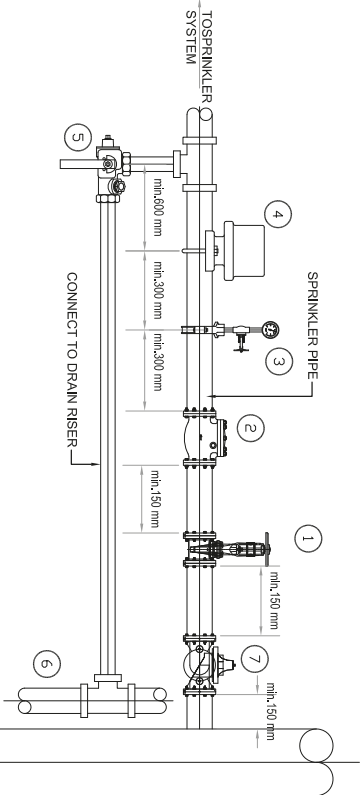
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| Sr. # | Description                 | Brand Name            | Model  |
|-------|-----------------------------|-----------------------|--------|
| 1.1   | OS&Y Gate Valve             | American Fire Control | A-3000 |
| 1.2   | OS&Y Gate Valve             | Mueller               | R-MFP2 |
| 2.1   | Swing Check Valve           | American Fire Control | A-3150 |
| 2.2   | Swing Check Valve           | Mueller               | A2122  |
| 3     | Water Flow Switch           | Potter                | VSR    |
| 4     | Supervisory / Tamper Switch | Potter                | OSYSU  |
| 5     | Pressure Guge               | AGF                   | 7500   |
| 6     | Test & Drain Valve          | GIACOMINI             | A61    |
| 7     | Pressure Reducing Valve     | CLA-VAL               | 90G-21 |

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| ZONE CONTROL VALVE ASSEMBLY 6, 4" DIA. PIPE. |   |           |      |
|--|---|-----------|------|
| SR. NO.                                      | DESCRIPTION                               | MODEL NO. | MAKE |
| 1  | O.S.&Y TYPE GATE VALVE WITH TAMPER SWITCH | TBA       | TBA  |
| 2  | CHECK VALVE                               | TBA       | TBA  |
| 3  | PRESSURE GAUGE                            | TBA       | TBA  |
| 4  | FLOW SWITCH                               | TBA       | TBA  |
| 5  | COMBINATION TEST AND DRAIN VALVE          | TBA       | TBA  |
| 6  | DRAIN RISER                               | TBA       | TBA  |
| 7  | PRESSURE REDUCING VALVE                   | TBA       | TBA  |

NOTES / REFERENCES  
1 ) ALL THE MARTIAL WILL BE INSTALLED AS APPROVED MATERIAL SUBMITTAL

1 FLOOR CONTROL VALVE ASSEMBLY DETAIL  
SCALE: NTS

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# DATA SHEET

## A-3000 OS&Y Resilient Wedge Gate Valve - Flanged Ends



**AMERICAN FIRE CONTROL**  
QUALITY IS A PRIORITY

The American A-3000 Flange OS&Y (Outside Screw and Yoke) Gate Valve is a reliable and robust valve designed for various industrial applications. This valve complies with the AWWA C515 standard ensuring high-quality performance and adherence to industry standards. It features a heavy-duty handwheel and attachment nut and high-quality graphite packing.

### SPECIFICATIONS

- Complies with AWWA C515 standard
- Flanged end to ANSI B16.1 Class 125/ANSI B16.42 Class 150/BS EN1092-2 PN16
- Size Range: Available in sizes ranging from 2.5" to 12"
- Max working pressure: 300PSI (21 bar) /Max testing pressure: 600PSI (42bar)
- Working Temperature: 0°C to 80°C (32°F to 176°F)
- Fusion-bonded epoxy coating inside and outside complying with AWWA C550 standards
- Approvals: UL listed , FM approved



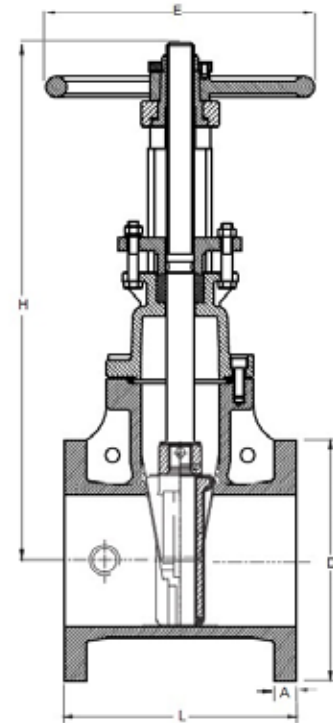
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### PART LIST

| ID | PART                  | MATERIAL                               |
|----|-----------------------|--|
| 1  | Valve Body            | Ductile Iron ASTM A536 65-45-12        |
| 2  | Resilient Wedge       | Ductile Iron ASTM A536/EPDM ASTM D2000 |
| 3  | Wedge Nut             | Stainless Steel 304                    |
| 4  | Dowel Pin             | Stainless Steel 304                    |
| 5  | Stem Back Seat O-Ring | EPDM ASTM D2000                        |
| 6  | Bonnet Gasket         | EPDM ASTM D2000                        |
| 7  | Bonnet                | Ductile Iron ASTM A536                 |
| 8  | Packing               | PTFE Graphite                          |
| 9  | Threaded Rod          | Stainless Steel 304                    |
| 10 | Gland                 | Ductile Iron ASTM A536 65-45-12        |
| 11 | Gland Nut             | Stainless Steel 304                    |
| 12 | Yoke                  | Ductile Iron ASTM A536 65-45-12        |
| 13 | Handwheel             | Ductile Iron ASTM A536 65-45-12        |
| 14 | Handwheel Nut         | C95400 Aluminum Bronze                 |
| 15 | Stem                  | Stainless Steel 304                    |
| 16 | Bolt                  | Stainless Steel 304                    |
| 17 | Yoke Screw            | C95400 Aluminum Bronze                 |
| 18 | NPT Plug              | C95400 Aluminum Bronze                 |



### DIMENSIONS

| SIZE |     | L     |     | H OPEN |      | H CLOSED |      | A    |     | D     |     | E     |     |
|------|-----|-------|-----|--------|------|----------|------|------|-----|-------|-----|-------|-----|
| IN.  | MM. | IN.   | MM. | IN.    | MM.  | IN.      | MM.  | IN.  | MM. | IN.   | MM. | IN.   | MM. |
| 2.5  | 65  | 7.48  | 190 | 16.96  | 431  | 14.56    | 370  | 0.70 | 18  | 7     | 178 | 7.87  | 200 |
| 3    | 80  | 7.99  | 203 | 18.46  | 469  | 16.53    | 420  | 0.74 | 19  | 7.51  | 191 | 7.87  | 200 |
| 4    | 100 | 9.01  | 229 | 21.22  | 539  | 17.59    | 447  | 0.94 | 24  | 9.01  | 229 | 10.24 | 260 |
| 6    | 150 | 10.51 | 267 | 28.18  | 716  | 23.89    | 607  | 0.98 | 25  | 10.98 | 279 | 12.39 | 315 |
| 8    | 200 | 11.49 | 292 | 36.29  | 922  | 29.68    | 754  | 1.14 | 29  | 13.50 | 343 | 14.75 | 375 |
| 10   | 250 | 12.99 | 330 | 44.64  | 1134 | 35.03    | 890  | 1.18 | 30  | 15.98 | 406 | 16.37 | 416 |
| 12   | 300 | 14.01 | 356 | 51.96  | 1320 | 40.59    | 1031 | 1.25 | 32  | 19.01 | 483 | 17.51 | 445 |

### WEIGHTS

| VALVE SIZE     | 2.5"      | 3"      | 4"        | 6"         | 8"         | 10"         | 12"         |
|----------------|-----------|---------|-----------|------------|------------|-------------|-------------|
| WEIGHT LB (KG) | 46.3 (21) | 64 (29) | 79.4 (36) | 136.7 (62) | 213.8 (97) | 315.3 (143) | 425.5 (193) |

All information contained herein is supplied by manufacturer and deemed to be accurate. Information is subject to change without notice. Purchaser is responsible for proper installation, use and maintenance of product. American Fire Control USA, LLC. passes on manufacturer's warranty but extends no other warranty. All products sold by American Fire Control USA, LLC. are subject to its full terms and conditions of sales as published and available on request. Any warranty made extends to original purchaser and is not assignable or transferable.





The American A-3150 Swing check valves are designed only for fire protection services, also referred to as non-return, retention, or one-way valve, a check valve is designed to only allow the flow of water in one direction, a swing type clapper is found inside the valve which is spring loaded preventing water from flowing in a return direction.

### SPECIFICATIONS

- Meet or exceed the requirements of AWWA C508 Standard,
- Full waterway designed
- Max working pressure: 300PSI (21 bar) / Max testing pressure 600PSI (42bar)
- Approvals: UL listed, FM approved
- Flanged ends to ANSI B 16.1 class 125 or ANSI B16.42 class 150
- Min/Max working temperature: 0°C to 80°C (32°F to 176°F)



## Jacobs

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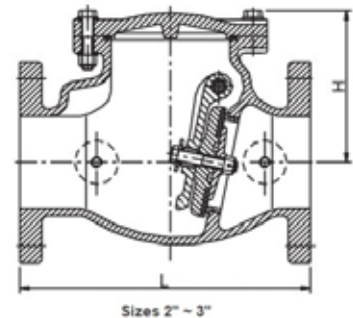
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FURNISHED.

### COATINGS

- The interior and exterior of the valve coated with fusion-bonded epoxy in accordance with ANSI/AWWA C550

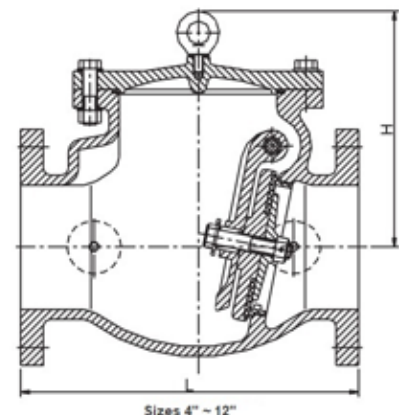
### PART LIST

| ID | PART            | MATERIAL                         |
|----|-----------------|----------------------------------|
| 1  | Valve Body      | Ductile Iron ASTM, A536 65-45-12 |
| 2  | Cover           | Ductile Iron ASTM, A536 65-45-12 |
| 3  | Gasket          | EPDM ASTM D2000                  |
| 4  | Clapper Arm     | Ductile Iron ASTM, A536 65-45-12 |
| 5  | Disc Ring       | EPDM ASTM D2000                  |
| 6  | Disc            | Ductile Iron ASTM, A536 65-45-12 |
| 7  | Retainer Washer | Bronze ASTM A148                 |
| 8  | Hinge Pin       | Stainless Steel ASTM A276, 304   |
| 9  | Pin Plug        | Stainless Steel ASTM A276, 304   |
| 10 | Seat Ring       | Bronze ASTM A148                 |



### DIMENSIONS

| IN   | DN    | L     | H     |
|------|-------|-------|-------|
| 2"   | DN50  | 8"    | 5.6"  |
| 2.5" | DN65  | 8.5"  | 5.8"  |
| 3"   | DN80  | 9.5"  | 6.4"  |
| 4"   | DN100 | 11.5" | 6.8"  |
| 6"   | DN150 | 14"   | 9.2"  |
| 8"   | DN200 | 19.5" | 11.8" |
| 10"  | DN250 | 24.5" | 13.7" |
| 12"  | DN300 | 27.5" | 16.5" |



### WEIGHTS

| VALVE SIZE     | 2"     | 2.5"   | 3"     | 4"     | 6"      | 8"       | 10"      | 12"      |
|----------------|--------|--------|--------|--------|---------|----------|----------|----------|
| WEIGHT LB (KG) | 33(15) | 44(20) | 55(25) | 75(34) | 143(65) | 251(114) | 408(185) | 617(280) |

All information contained herein is supplied by manufacturer and deemed to be accurate. Information is subject to change without notice.  
Purchaser is responsible for proper installation, use and maintenance of product. American Fire Control USA, LLC. passes on manufacturer's warranty but extends no other warranty. All products sold by American Fire Control USA, LLC. are subject to its full terms and conditions of sales as published and available on request.  
Any warranty made extends to original purchaser and is not assignable or transferable.



## Submittal #COM-1873.0 - Fire Fighting Valves COM - Material Submittal

### Distribution Summary

Distributed by Ubada Dange (Contractor Main - Lynx Contracting Company) on Oct 11, 2023

**To** Omar Turk (Contractor Main - Lynx Contracting Company), Abdullah Shalan (Contractor Main - Lynx Contracting Company), Read Sabbah (Contractor Main - Lynx Contracting Company)

**Message** FOR CONST. --REFER TO THE CONSULTANT COMMENTS

**Attachments** [Jawhart Jeddah Mall FF Valve MTS Rv-0.pdf](#), [12 - MAR - firefighting valves.pdf](#)

| Name   | Response          | Attachments | Comments  |
|--|-------------------|-------------|---|
| Naseem Yousef Anaqerh<br>(Consultant - Echo Architecture)  | Approved as Noted |             | <b>Approved as noted subject to :</b><br>- all materials are UL/FM approved .<br>- all material to comply with specification and project documents.<br>- Alarm Check Valve type H with variable pressure trim with retard chamber and motor gong .<br>- Butterfly valves for shops only .<br>- follow detail of installation as per drawing and NFPA recommendation . |
| Ahmad Basheer (Contractor Main - Lynx Contracting Company) | For Record Only   |             |   |

|                               |  |                          |  |
|-------------------------------|--|--------------------------|--|
| <b>Revision</b>               | 0  | <b>Submittal Manager</b> | Ubada Dange (Contractor Main - Lynx Contracting Company) |
| <b>Status</b>                 | Closed   | <b>Date Created</b>      | Oct 1, 2023  |
| <b>Issue Date</b>             | Oct 1, 2023  | <b>Spec Section</b>      | COM - Material Submittal                                 |
| <b>Responsible Contractor</b> | SC - Injaz Technical for Contracting Est.  | <b>Received From</b>     |  |
| <b>Received Date</b>          |  | <b>Submit By</b>         |  |
| <b>Final Due Date</b>         | Oct 9, 2023  | <b>Lead Time</b>         |  |
|                               |  | <b>Cost Code</b>         | 5112500-15500 - FIRE PROTECTION                          |
| <b>Location</b>               | Mechanical   | <b>Type</b>              | Manufacturer Data & Specs                                |
| <b>Approvers</b>              | Nisar Ahmed (Contractor Main - Lynx Contracting Company), Ali Danon (Contractor Main - Lynx Contracting Company), Ahmad Basheer (Contractor Main - Lynx Contracting Company), Syed Fizan (Contractor Main - Lynx Contracting Company), Marko Injac (Contractor Main - Lynx Contracting Company), Feras Jabr (Contractor Main - Lynx Contracting Company), Naseem Yousef Anaqerh (Consultant - Echo Architecture), Mohammed Jamal (Consultant - Echo Architecture), Ibrahim Quraishi (Consultant - Echo Architecture) |                          |  |
| <b>Ball in Court</b>          |  |                          |  |
| <b>Distribution</b>           | Syed Fizan (Contractor Main - Lynx Contracting Company)  |                          |  |
| <b>Description</b>            | <b>Submitted Material List:</b><br>1) OS&Y Gate Valve - American Fire Control.<br>2) Swing Check Valve - American Fire Control.  |                          |  |



- 3) Supervisory Switch - Potter.
- 4) Flow Switch - Potter.
- 5) Test & Drain Valve - HD Fire.
- 6) Pressure Gauge - AGF.
- 7) Alarm Check Valve - HD Fire.
- 8) Butterfly Valve - American Fire Control.

### Submittal Workflow

| Name                               | Sent Date   | Due Date    | Returned Date | Response          | Attachments   |
|------------------------------------|---|-------------|---------------|-------------------|---|
| General Information<br>Attachments |   |             |               |                   | <a href="#">12 - MAR - firefighting valves.pdf</a><br><a href="#">Jawhart Jeddah Mall FF Valve MTS Rv-0.pdf</a> |
| Ubada Dange                        |   | Oct 3, 2023 | Oct 1, 2023   | Submitted         |   |
| Nisar Ahmed                        | Oct 1, 2023   | Oct 5, 2023 | Oct 2, 2023   | For Record Only   |   |
| Ali Danon                          | Oct 1, 2023   | Oct 5, 2023 |               | Pending           |   |
| Ahmad Basheer                      | Oct 2, 2023   | Oct 7, 2023 | Oct 10, 2023  | For Record Only   |   |
| <b>Comment</b>                     | for approval  |             |               |                   |   |
| Syed Fizan                         | Oct 2, 2023   | Oct 7, 2023 |               | Pending           |   |
| Marko Injac                        | Oct 2, 2023   | Oct 7, 2023 |               | Pending           |   |
| Feras Jabr                         | Oct 2, 2023   | Oct 7, 2023 |               | Pending           |   |
| Naseem<br>Yousef Anaqerh           | Oct 10, 2023  | Oct 9, 2023 | Oct 11, 2023  | Approved as Noted |   |
| <b>Comment</b>                     | <b>Approved as noted subject to :</b><br>- all materials are UL/FM approved .<br>- all material to comply with specification and project documents.<br>- Alarm Check Valve type H with variable pressure trim with retard chamber and motor gong .<br>- Butterfly valves for shops only .<br>- follow detail of installation as per drawing and NFPA recommendation . |             |               |                   |   |
| Mohammed Jamal                     | Oct 10, 2023  | Oct 9, 2023 |               | Pending           |   |
| Ibrahim Quraishi                   | Oct 10, 2023  | Oct 9, 2023 |               | Pending           |   |





KING ABDULAZIZ INTERNATIONAL  
AIRPORT  
JEDDAH- SAUDI ARABIA  
HAJJ TERMINAL COMPLEX



Project Name : Fire Protection System

Project ID : UDC-P-528

Contractor : UNITED DIAMOND CONTRACTORS Co.

Contract NO :

Reference No : UDC-P528-ME-FF-MS-008

Revision No : 0

Date : 12-Feb-24

Subject : Fire Fighting Valves - American Fire Control - AFC

Specification & BOQ Reference :

| DOCUMENTS                      | DRAWINGS   | MATERIALS  |
|--------------------------------|--|--|
| Specify<br>Technical Submittal | <input type="checkbox"/> Design Drawings<br><input type="checkbox"/> Shop Drawings<br><input type="checkbox"/> As Built Drawings | <input checked="" type="checkbox"/> Materials Submittals<br><input type="checkbox"/> Calculation<br><input type="checkbox"/> Samples |

Attachments Hard Copies & PCMs

|                |   |                |   |
|----------------|---|----------------|---|
| Documents      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Soft Copy / CD | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Drawings       | <input type="checkbox"/> Yes <input type="checkbox"/> No            | Samples        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| Technical Data | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Others         |   |

| Reviewers (BCC)                                 | Initial Approval | Remarks |   |   |  |
|---|------------------|---------|---|---|--|
|   | A                | B       | C | D |  |
| <input type="checkbox"/> Architectural          |                  |         |   |   |  |
| <input type="checkbox"/> Structural             |                  |         |   |   |  |
| <input checked="" type="checkbox"/> Mechanical  |                  |         |   |   | * OY&Y Gate Valves - American Fire Control - AFC |
| <input type="checkbox"/> Electrical             |                  |         |   |   |  |
| <input type="checkbox"/> Contract Administrator |                  |         |   |   |  |
| <input type="checkbox"/> PCM & Planning         |                  |         |   |   |  |
| <input type="checkbox"/> Quality Assurance      |                  |         |   |   |  |
| <input type="checkbox"/> Safety                 |                  |         |   |   |  |
| <input type="checkbox"/> Surveying              |                  |         |   |   |  |
| <input type="checkbox"/> Others                 |                  |         |   |   |  |

Final Approval Code:

A - Approved

☐

C - Revise and Resubmit

☐

B - Approved As Noted, Resubmittal Not Required

☒

D - Not Approved

☐

Consultant's Comments

- follow The Instructions of NFPA Code.

UDC Representative

Name : Eng. Mahmood Ismaeil

Signature :

Date : 12-Feb-24

Stamp :

Consultant or Client Representative

Name :




Signature :

Date : 19/2/2024

Stamp :

3550038237 5130000071

0202 / / التاريخ: 19/2/2024

|  |                                |  |   |
|--|--------------------------------|--|---|
| Q03/2022   | رقم المشروع                    |  اسم المشروع : إنشاء القرية الشعبية - اشبيليا |   |
| المقاول  |                                | المطور   | الإستشاري   |
|  المرشد للمقاولات والبريكاست<br>ALMARSHAD CONTRACTING & PRECAST |                                | شركة حدة اشبيلية<br>للاستثمار  |  المركز المعماري<br>ARCH. CENTRE |
| REQUEST FOR MATERIALS APPROVAL   |                                | طلب اعتماد مواد  |   |
| 2/11/2023  | تاريخ التقديم:                 | M-MAT-14   | رقم التقديم :   |
| REV  | 0                              |  | ميكانيكا  |
| AMEICAN FIRE CONTROL   |                                | نوع المادة المقدمة :   |   |
| مواصفات المادة المقدمة للإعتماد ( حسب العقد ) :  |                                | جداول الكميات والمواصفات   |   |
|  |                                | 15-1   | رقم البند:  |
|  |                                |  | رقم الصفحة:   |
|  |                                | 15-100   | رقم المواصفه:   |
|  |                                |  | مكان الاستخدام:   |
| عينات  |                                | كامل المشروع   |   |
| هاتف   | المصنع أو الوكيل               | بلد المنشأ   | المادة  |
| 6991226  | شركة الاعمال العمومية المغربية | امريكا   | TEST & DRAIN VALVE ( HD FIRE )  |
|  |                                | امريكا   | BUTTERFLY VALVE (AMEICAN FIRE CONTROL )   |
|  |                                | امريكا   | FLOW SWITCH (POTTER )   |
|  |                                | امريكا   | PRESSURE GAUGE (AGF)  |
|  |                                | Contractor's Stamp & Sin   | توقيع و ختم المقاول:  |
|  |                                | مدير المشروع: م/ غسان الحسين   | المهندس المختص: م/ السيد هيكل   |
|  |                                | التوقيع :  | التوقيع :   |
|  |                                | التاريخ : 2/11/2023  | التاريخ : 2/11/2023   |
|  |                                | ملاحظات و توصيات الإستشاري :   |   |
|  |                                | التوصية بالموافقه مع ملاحظات B   | التوصية بالموافقه A   |
|  |                                | لا مانع من اعتماد الحريق طبقاً للأمر   |   |
|  |                                | ① محسب الاختيار (ZCVA) من نوع (UL-FM) (HD Fire)  |   |
|  |                                | ② محسب خزانة Transferable متصل لوحة اختبار الحريق (UL-FM)  |   |
|  |                                | ③ Flow switch من نوع (Potter) - (UL-FM) لفتح (ZCVA)  |   |
|  |                                | ④ حدة ضغط من نوع AGF - (UL-FM) ويستند لجميع دقائق الاختبار (ZCVA)  |   |
|  |                                | أما مفتاح الحريق   |   |
|  |                                | ويتم تقديم شهادة المنشأ عند التوريد من الموقع مع شهادات إتمام  |   |
|  |                                | مدير المشروع: م/ صلاح كامل   | المهندس المختص: م/ سامح نصير  |
|  |                                | التوقيع :  | التوقيع :   |
|  |                                | التاريخ : 2023/11/2  | التاريخ : 2023/11/2   |
|  |                                | 1 : هذا النموذج يكتمل بعد ملء الحقول   | 2 : هذا النموذج يكتمل بعد ملء الحقول  |
|  |                                | ملاحظات هامه :   |   |

مشروع  
استكمال متطلبات الدفاع المدني لإصلابية الطائف

طلب اعتماد مواد المشروع

اللائحة: وزارة الداخلية - المديرية العامة للدفاع المدني  
اللائحة: الدفاع المدني - مديرية من لادى السعودية  
اللائحة: الدفاع المدني - شركة دار الهندسة  
استشارى اعمال السلامة - مكتب ماثو الاستشارات  
موايل اعمال الدفاع المدني شركة املية الممن المموودة

| رقم التقديم | رقم المشروع | اسم المشروع                                   | التاريخ   |
|-------------|-------------|---|-----------|
| ١           | ٢           | استكمال متطلبات الدفاع المدني لإصلابية الطائف | 2024-4-21 |

| مقدم الى          | مكتب عاشور للاستشارات الهندسية |
|-------------------|--------------------------------|
| نوع التقديم       | مواد<br>● للاعتماد<br>○ لغيره  |
| لوح التقديم       | خرائط<br>تعليمية               |
| اخرى              | وثيقة نظام الجودة              |
| طلبات تغيير       |                                |
| وثيقة نظام الجودة |                                |

| تفاصيل طلب الاعتماد | الشركات المصنعة<br>American Fire Control, Tyro, Viking & HD Fire |
|---------------------|--|
| المرفقات            | مواصفات المنتج الفنية + تقرير اختبار                             |

| الملاحظات | ١- بناءً على أن تكون كائن بجانب قبل الاستلام على كل شيء<br>٢- يرجى الرجوع إلى صفحة ١ من هذا الملف |
|-----------|---|
|-----------|---|



ختم المطور





MAERSK

MAERSK  
HEAD OFFICEJEDDAH  
(RASD BUILDING)



UNITED DIAMOND CONTRACTORS CO.  
شركة الماس المثلج  
For Construction And - Marine

Project Name : MAERSK HEAD OFFICEJEDDAH ( RASD BUILDING )

Project ID : UDC-P-685

Contractor : UNITED DIAMOND CONTRACTORS Co.

Contract NO. :

Reference No : UDC-P685-ME-DR-MAT-007

Revision No. :

0

Date : 19-Jun-23

Subject :

FF - Zone Control Valve

Specification & BOQ Reference :

| DOCUMENTS                                       |  | DRAWINGS   |   | MATERIALS |   |  |
|---|--|--|---|-----------|---|--|
| Specify<br>1 Technical Submittal                |  | <input type="checkbox"/> Design Drawings<br><input type="checkbox"/> Shop Drawings<br><input type="checkbox"/> As Built Drawings | <input type="checkbox"/> Materials Submittals<br><input type="checkbox"/> Calculation<br><input type="checkbox"/> Samples |           |   |  |
| Attachments (Plant Support & PCM)               |  |  |   |           |   |  |
| Documents                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | Soft Copy / CD   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |           |   |  |
| Drawings  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Samples  | <input type="checkbox"/> Yes <input type="checkbox"/> No  |           |   |  |
| Technical Data                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Others   |   |           |   |  |
| Reviews (BS)                                    |  | Initial Approval   |   | Remarks   |   |  |
| <input type="checkbox"/> Architectural          |  | A  | B   | C         | D |  |
| <input type="checkbox"/> Structural             |  |  |   |           |   |  |
| <input checked="" type="checkbox"/> Mechanical  | Fire Fighting - Zone Control Valve<br>- American Fire Control - Mueller<br>- Potter - Ashcroft - AGF - Giacomini |  |   |           |   |  |
| <input type="checkbox"/> Electrical             |  |  |   |           |   |  |
| <input type="checkbox"/> Contract Administrator |  |  |   |           |   |  |
| <input type="checkbox"/> PCM & Planning         |  |  |   |           |   |  |
| <input type="checkbox"/> Quality Assurance      |  |  |   |           |   |  |
| <input type="checkbox"/> Safety                 |  |  |   |           |   |  |
| <input type="checkbox"/> Surveying              |  |  |   |           |   |  |
| <input type="checkbox"/> Others                 |  |  |   |           |   |  |

Final Approval Gate:

☒ A - Approved

☐ B - Approved As Noted, Resubmittal Not Required

☐ C - Revise and Resubmit

☐ D - Not Approved

Consultant's Comments

Accepted.

UDC Representative

Name : Mahmoud Ismail Mohamed  
Signature :  
Date :  
Stamp :

Consultant or Client Representative

Name :  
Signature :  
Date :  
Stamp :

Design Department

## Material List

| Sr.# | Description                 | Brand Name            | Model   |
|------|-----------------------------|-----------------------|---------|
| 1.1  | OS&Y Gate Valve             | American Fire Control | A-3000  |
| 1.2  | OS&Y Gate Valve             | Mueller               | R-MFP2  |
| 2    | Swing Check Valve           | American Fire Control | A-3150  |
| 3    | Water Flow Switch           | Potter                | VSR     |
| 4    | Supervisory / Tamper Switch | Potter                | OSYSU   |
| 5.1  | Pressure Guge               | Ashcroft              | 1005P   |
| 5.2  | Pressure Guge               | AGF                   | 7500    |
| 6.1  | Test & Drain Valve          | American Fire Control | TDF-100 |
| 6.2  | Test & Drain Valve          | GIACOMINI             | A61     |


| Material Submittal |  |         |    |       |            |
|--------------------|--|---------|----|-------|------------|
| Submittal Ref:     | RAC-AEC-MK27-TSL-MEC-0035  | Rev No: | 00 | Date: | 04/07/2024 |
| Program Title:     | Developmental Housing Program of Saudi Arabia                      |         |    |       |            |
| Project Title:     | AL-SADAN, Jeddah, P1&P3, (Contract # 23001513)                     |         |    |       |            |
| The Employer:      | National Housing Company (NHC)                                     |         |    |       |            |
| Third party:       | Dar AL Riyadh  |         |    |       |            |
| Consultant:        | Al Mnaab Consulting Engineering                                    |         |    |       |            |
| Contractor:        | REZAIK ABDULAH SAEID ALGEDRAWY ALSEBAITY AND PARTNERS COMPANY LTD. |         |    |       |            |

**Guidance notes:**

The submission should only include documents which are deemed compliant with the SOPR, Applicable Codes and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as instructed.


**Review Discipline:**

|               |                          |                  |                          |            |                                     |       |                          |                  |                          |
|---------------|--------------------------|------------------|--------------------------|------------|-------------------------------------|-------|--------------------------|------------------|--------------------------|
| Architectural | <input type="checkbox"/> | Structural/Civil | <input type="checkbox"/> | MECH/Plumb | <input checked="" type="checkbox"/> | Elec. | <input type="checkbox"/> | Others (specify) | <input type="checkbox"/> |
|---------------|--------------------------|------------------|--------------------------|------------|-------------------------------------|-------|--------------------------|------------------|--------------------------|

| Material Details:  |  |            |  | DAR AL RIYADH Review |  |
|--|--|------------|--|----------------------|--|
| Notes: DAR AL RIYADH review will recommend either Objection or No Objection to each item. Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report. |  |            |  |                      |  |
| Proposed by: REZAIK AL GEDRAWY CO.   |  |            | The Consultant (Designer & The Engineer) |                      |  |
| Sign/Stamp   |  | Sign/Stamp |  |                      |  |

| Material Information             |  | Checklist                          |                                     |
|----------------------------------|--|------------------------------------|-------------------------------------|
| Location/element Ref:            | Mechanical Works                                       | Drawing/Specification              | <input type="checkbox"/>            |
| Specified Material:              | FIREFIGHTING VALVES AND SPRINKLER SYSTEM               | Product Datasheet                  | <input checked="" type="checkbox"/> |
| Proposed Material:               | FIREFIGHTING VALVES AND SPRINKLER SYSTEM               | Compliance Certificates/ Documents | <input checked="" type="checkbox"/> |
| Manufacturer & Product code ref: | United Diamond Contractors Company.                    | Compliance Statement               | <input checked="" type="checkbox"/> |
| Remarks/Notes:                   | Pre-Qualification Approved - RAC-AEC-MK27-SAT-MEC-0027 | Sample (available)                 | <input checked="" type="checkbox"/> |

|               |              |  |          |          |         |  |
|---------------|--------------|--|----------|----------|---------|--|
| THE ENGINEER* | Review Date: |  | Rejected | Approved | Signed: |  |
|               | Print Name:  |  |          |          |         |  |

|     |                              |  |           |              |         |   |
|-----|------------------------------|--|-----------|--------------|---------|---|
| PMC | Recommendations to NHC Date: |  | Objection | No Objection | Signed: |  |
|     | Print Name:                  |  |           | ✓            |         |   |

|     |              |  |           |              |         |  |
|-----|--------------|--|-----------|--------------|---------|--|
| NHC | Review Date: |  | Objection | No Objection | Signed: |  |
|     | Print Name:  |  |           |              |         |  |

## Supplier Approval Request

|                |  |         |    |       |            |
|----------------|--|---------|----|-------|------------|
| Submittal Ref: | RAC-AEC-MK27-SAT-MEC-0027  | Rev No: | 00 | Date: | 20/02/2024 |
| Program Title: | Developmental Housing Program of Saudi Arabia                      |         |    |       |            |
| Project Title: | AL-SADAN, Jeddah, P1&P3, (Contract # 23001513)                     |         |    |       |            |
| The Employer:  | National Housing Company (NHC)                                     |         |    |       |            |
| Third party:   | Dar AL Riyadh  |         |    |       |            |
| Consultant:    | Al Mnabr Consulting Engineering                                    |         |    |       |            |
| Contractor:    | REZAIK ABDULAH SAEID ALGEDRAWY ALSEBAITY AND PARTNERS COMPANY LTD. |         |    |       |            |

### Guidance notes:

The submission should only include documents which are deemed compliant with the SOPR, Applicable Codes and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as instructed.

### Review Discipline:

Architectural ☐ Structural/Civil ☐ MECH/Plumb ☒ Elec. ☐ Others (specify) ☐

### Document Details: ✓

### DAR AL RIYADH Review

Notes: DAR AL RIYADH review will recommend either Objection or No Objection to each item. Non-Objected shall be issued to the NHC with the recommendation to approve. Objected shall be returned to the Contractor with an Objection report.

The Title: Pre-Qualification of United Diamond Contractors Co.

Proposed by: REZAIK AL GEDRAWY CO.

The Consultant (Designer & The Engineer)

Sign/Stamp



Sign/Stamp

| S. No: | Document Title/Description:                         | Reference No: | Rev No: | Remarks       |
|--------|---|---------------|---------|---------------|
| 1      | Pre-Qualification of United Diamond Contractors Co. |               |         | Attached file |
|        |   |               |         |               |

### Reviewed for compliance by:

Notes: The Engineer\* shall review and approve when the Supervision Consultant differs from the Designer only. DAR AL RIYADH shall only issue recommendations based upon 'No Objection' to the Client. Any 'Objections' shall be returned to the Contractor with a review report for action and may be copied to the NHC when necessary.

|               |              |  |          |          |         |  |
|---------------|--------------|--|----------|----------|---------|--|
| THE ENGINEER* | Review Date: |  | Rejected | Approved | Signed: |  |
|               | Print Name:  |  |          |          |         |  |

|     |                              |  |           |              |         |  |
|-----|------------------------------|--|-----------|--------------|---------|--|
| PMC | Recommendations to NHC Date: |  | Objection | No Objection | Signed: |  |
|     | Print Name:                  |  |           | ✓            |         |  |

|     |              |  |           |              |         |  |
|-----|--------------|--|-----------|--------------|---------|--|
| NHC | Review Date: |  | Objection | No Objection | Signed: |  |
|     | Print Name:  |  |           |              |         |  |

# TECHNICAL SUBMITTAL

|                        |   |  |
|------------------------|---|--|
| <b>Project Name</b>    | : | El Sadan Society Jeddah  |
| <b>Client</b>          | : | National Housing Company   |
| <b>Consultant</b>      | : | Dar Al Riyadh  |
| <b>FF Consultant</b>   | : | Al Mnabr Consultng   |
| <b>Main Contractor</b> | : | Rezaik Al Gedrawy Company  |
| <b>FF Supplier</b>     | : | United Diamond Contractors   |
| <b>Scope Of Work</b>   | : | 1-Fire Fighting Valves – AFC<br>2-Fire Fighting Valves<br>3-Sprinkler System |
| <b>Ref. #</b>          | : | UDC-P698-ME-FF-MAT-002   |

**Date : 1 July 2024**



# INDEX

| Sr. # | Description                |
|-------|----------------------------|
| 1     | Fire Fighting Valves – AFC |
| 2     | Fire Fighting Valves       |
| 3     | Sprinkler System           |

## DATA SHEET

### AG-3000 OS&Y Resilient Wedge Gate Valve - Grooved Ends



AMERICAN FIRE CONTROL  
QUALITY IS A PRIORITY

The American AG-3000 Grooved OS&Y (Outside Screw and Yoke) Gate Valve is a reliable and robust valve designed for various industrial applications. This valve complies with the AWWA C515 standard ensuring high-quality performance and adherence to industry standards. It features a heavy-duty handwheel and attachment nut and high-quality graphite.

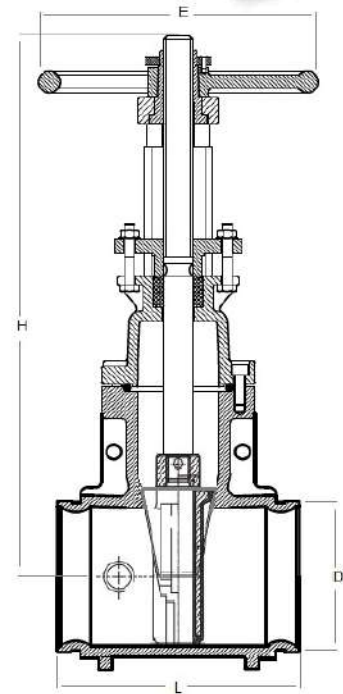


#### SPECIFICATIONS

- Complies with AWWA C515 standard
- End Connections: Groove to AWWA C606
- Size Range: Available in sizes ranging from 2.5" to 12"
- Max working pressure: 300PSI (21 bar) /Max testing pressure: 600PSI (42bar)
- Working Temperature: 0°C to 80°C (32°F to 176°F)
- Fusion-bonded epoxy coating inside and outside complying with AWWA C550 standards
- Approvals: UL listed , FM approved

#### PART LIST

| ID | PART                  | MATERIAL                               |
|----|-----------------------|--|
| 1  | Valve Body            | Ductile Iron ASTM A536 65-45-12        |
| 2  | Resilient Wedge       | Ductile Iron ASTM A536/EPDM ASTM D2000 |
| 3  | Wedge Nut             | Stainless Steel 304                    |
| 4  | Dowel Pin             | Stainless Steel 304                    |
| 5  | Stem Back Seat O-Ring | EPDM ASTM D2000                        |
| 6  | Bonnet Gasket         | EPDM ASTM D2000                        |
| 7  | Bonnet                | Ductile Iron ASTM A536                 |
| 8  | Packing               | PTFE Graphite                          |
| 9  | Threaded Rod          | Stainless Steel 304                    |
| 10 | Gland                 | Ductile Iron ASTM A536 65-45-12        |
| 11 | Gland Nut             | Stainless Steel 304                    |
| 12 | Yoke                  | Ductile Iron ASTM A536 65-45-12        |
| 13 | Handwheel             | Ductile Iron ASTM A536 65-45-12        |
| 14 | Handwheel Nut         | C95400 Aluminum Bronze                 |
| 15 | Stem                  | Stainless Steel 304                    |
| 16 | Bolt                  | Stainless Steel 304                    |
| 17 | Yoke Screw            | C95400 Aluminum Bronze                 |
| 18 | NPT Plug              | C95400 Aluminum Bronze                 |



#### DIMENSIONS

| SIZE |     | L     |     | H OPEN |      | H CLOSED |      | E     |     | D     |       |
|------|-----|-------|-----|--------|------|----------|------|-------|-----|-------|-------|
| IN.  | MM. | IN.   | MM. | IN.    | MM.  | IN.      | MM.  | IN.   | MM. | IN.   | MM.   |
| 2.5  | 65  | 7.48  | 190 | 16.96  | 431  | 14.56    | 370  | 7.87  | 200 | 2.99  | 76    |
| 3    | 80  | 7.99  | 203 | 18.46  | 469  | 16.53    | 420  | 7.87  | 200 | 3.5   | 88.9  |
| 4    | 100 | 9.01  | 229 | 21.22  | 539  | 17.59    | 447  | 10.24 | 260 | 4.5   | 114.3 |
| 6    | 150 | 10.51 | 267 | 28.18  | 716  | 23.89    | 607  | 12.39 | 315 | 6.62  | 168.3 |
| 8    | 200 | 11.49 | 292 | 36.29  | 922  | 29.68    | 754  | 14.75 | 375 | 8.62  | 219.1 |
| 10   | 250 | 12.99 | 330 | 44.64  | 1134 | 35.03    | 890  | 16.37 | 416 | 10.74 | 273   |
| 12   | 300 | 14.01 | 356 | 51.96  | 1320 | 40.59    | 1031 | 17.51 | 445 | 12.75 | 323.9 |

#### WEIGHTS

| VALVE SIZE     | 2.5"       | 3"       | 4"       | 6"        | 8"        | 10"        | 12"        |
|----------------|------------|----------|----------|-----------|-----------|------------|------------|
| WEIGHT LB (KG) | 36.4(16.5) | 48.5(22) | 57.3(26) | 105.8(48) | 158.7(72) | 240.3(109) | 337.3(153) |

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AMERICAN FIRE CONTROL CO., LLC 255 S Orange Ave, Orlando, FL 32801, USA

+1 607 252 6814 info@american-afc.com www.american-afc.com



The American AG-3500 Grooved swing check valves are designed to exclusively permit the flow of water in one direction. Inside the valve a swing-type clapper equipped with a spring mechanism ensures that water can only move in the intended direction preventing any backflow. This critical feature is essential for maintaining the effectiveness and reliability of fire protection systems.



### SPECIFICATIONS

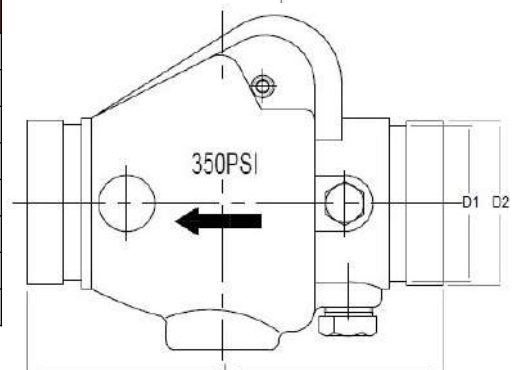
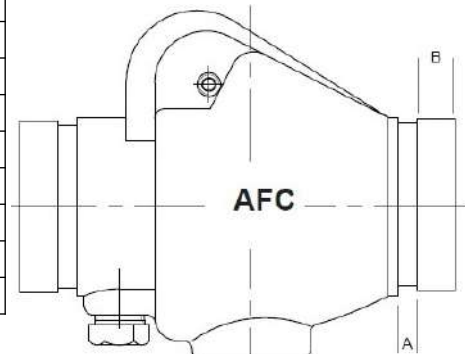
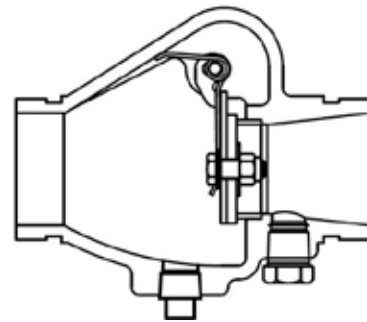
- Grooved dimensions comply with metric or AWWA C606 standard
- Max working pressure: 350PSI (24 bar) / Max testing pressure 700PSI (48 bar)
- Approvals: UL listed, FM approved
- Min/Max working temperature: 0°C to 80°C (32°F to 176°F)
- Application: indoor and outdoor use
- Installation: horizontal or vertical

### COATINGS

- The interior and exterior of the valve coated with fusion-bonded epoxy in accordance with ANSI/AWWA C550 or painting according to request

### PART LIST

| ID | PART          | MATERIAL                         |
|----|---------------|----------------------------------|
| 1  | Valve Body    | Ductile Iron ASTM, A536 65-45-12 |
| 2  | Clapper       | Stainless Steel ASTM A276, 304   |
| 3  | Coil Spring   | Stainless Steel ASTM A276, 304   |
| 4  | Nut           | Stainless Steel ASTM A276, 304   |
| 5  | Bolt          | Stainless Steel ASTM A276, 304   |
| 6  | Spring Washer | Stainless Steel ASTM A276, 304   |
| 7  | Seal Ring     | EPDM ASTM D2000                  |
| 8  | Seat          | Bronze , C95400                  |
| 9  | Drain Plug    | Stainless Steel ASTM A276, 304   |
| 10 | Pin Plug      | Stainless Steel ASTM A276, 304   |
| 11 | Gasket        | EPDM ASTM D2000                  |
| 12 | Hinge Pin     | Stainless Steel ASTM A276, 304   |



### DIMENSIONS

| IN   | DN    | A     | B     | D1     | D2     | L      |
|------|-------|-------|-------|--------|--------|--------|
| 2"   | DN50  | 0.31" | 0.63" | 2.25"  | 2.37"  | 6.65"  |
| 2.5" | DN65  | 0.31" | 0.63" | 2.84"  | 2.99"  | 7.12"  |
| 3"   | DN80  | 0.31" | 0.63" | 3.34"  | 3.50"  | 7.79"  |
| 4"   | DN100 | 0.37" | 0.63" | 4.33"  | 4.50"  | 8.42"  |
| 6"   | DN150 | 0.37" | 0.63" | 6.33"  | 6.62"  | 10.63" |
| 8"   | DN200 | 0.44" | 0.75" | 8.44"  | 8.63"  | 12.80" |
| 10"  | DN250 | 0.50" | 0.75" | 10.75" | 10.55" | 17.99" |
| 12"  | DN300 | 0.50" | 0.75" | 12.75" | 12.53" | 21.06" |

### WEIGHTS

| VALVE SIZE | 2"     | 2.5"   | 3"     | 4"     | 6"      | 8"      | 10"     | 12"     |
|------------|--------|--------|--------|--------|---------|---------|---------|---------|
| WEIGHT LB  | 6.17   | 10.14  | 13.66  | 19.62  | 44.75   | 78.70   | 124.12  | 173.72  |
| (KG)       | (2.80) | (4.60) | (6.20) | (8.90) | (20.30) | (35.70) | (56.30) | (78.80) |

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## DATA SHEET

### A-3000 OS&Y Resilient Wedge Gate Valve - Flanged Ends



**AMERICAN FIRE CONTROL**  
QUALITY IS A PRIORITY

The American A-3000 Flange OS&Y (Outside Screw and Yoke) Gate Valve is a reliable and robust valve designed for various industrial applications. This valve complies with the AWWA C515 standard ensuring high-quality performance and adherence to industry standards. It features a heavy-duty handwheel and attachment nut and high-quality graphite packing.

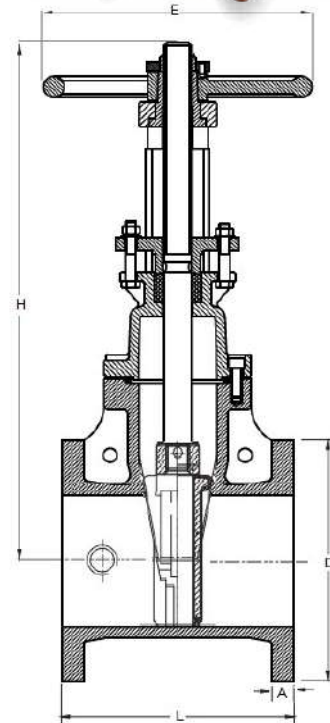
#### SPECIFICATIONS

- Complies with AWWA C515 standard
- Flanged end to ANSI B16.1 Class 125/ANSI B16.42 Class 150/BS EN1092-2 PN16
- Size Range: Available in sizes ranging from 2.5" to 12"
- Max working pressure: 300PSI (21 bar) /Max testing pressure: 600PSI (42bar)
- Working Temperature: 0°C to 80°C (32°F to 176°F)
- Fusion-bonded epoxy coating inside and outside complying with AWWA C550 standards
- Approvals: UL listed , FM approved



#### PART LIST

| ID | PART                  | MATERIAL                               |
|----|-----------------------|--|
| 1  | Valve Body            | Ductile Iron ASTM A536 65-45-12        |
| 2  | Resilient Wedge       | Ductile Iron ASTM A536/EPDM ASTM D2000 |
| 3  | Wedge Nut             | Stainless Steel 304                    |
| 4  | Dowel Pin             | Stainless Steel 304                    |
| 5  | Stem Back Seat O-Ring | EPDM ASTM D2000                        |
| 6  | Bonnet Gasket         | EPDM ASTM D2000                        |
| 7  | Bonnet                | Ductile Iron ASTM A536                 |
| 8  | Packing               | PTFE Graphite                          |
| 9  | Threaded Rod          | Stainless Steel 304                    |
| 10 | Gland                 | Ductile Iron ASTM A536 65-45-12        |
| 11 | Gland Nut             | Stainless Steel 304                    |
| 12 | Yoke                  | Ductile Iron ASTM A536 65-45-12        |
| 13 | Handwheel             | Ductile Iron ASTM A536 65-45-12        |
| 14 | Handwheel Nut         | C95400 Aluminum Bronze                 |
| 15 | Stem                  | Stainless Steel 304                    |
| 16 | Bolt                  | Stainless Steel 304                    |
| 17 | Yoke Screw            | C95400 Aluminum Bronze                 |
| 18 | NPT Plug              | C95400 Aluminum Bronze                 |



#### DIMENSIONS

| SIZE |     | L     |     | H OPEN |      | H CLOSED |      | A    |     | D     |     | E     |     |
|------|-----|-------|-----|--------|------|----------|------|------|-----|-------|-----|-------|-----|
| IN.  | MM. | IN.   | MM. | IN.    | MM.  | IN.      | MM.  | IN.  | MM. | IN.   | MM. | IN.   | MM. |
| 2.5  | 65  | 7.48  | 190 | 16.96  | 431  | 14.56    | 370  | 0.70 | 18  | 7     | 178 | 7.87  | 200 |
| 3    | 80  | 7.99  | 203 | 18.46  | 469  | 16.53    | 420  | 0.74 | 19  | 7.51  | 191 | 7.87  | 200 |
| 4    | 100 | 9.01  | 229 | 21.22  | 539  | 17.59    | 447  | 0.94 | 24  | 9.01  | 229 | 10.24 | 260 |
| 6    | 150 | 10.51 | 267 | 28.18  | 716  | 23.89    | 607  | 0.98 | 25  | 10.98 | 279 | 12.39 | 315 |
| 8    | 200 | 11.49 | 292 | 36.29  | 922  | 29.68    | 754  | 1.14 | 29  | 13.50 | 343 | 14.75 | 375 |
| 10   | 250 | 12.99 | 330 | 44.64  | 1134 | 35.03    | 890  | 1.18 | 30  | 15.98 | 406 | 16.37 | 416 |
| 12   | 300 | 14.01 | 356 | 51.96  | 1320 | 40.59    | 1031 | 1.25 | 32  | 19.01 | 483 | 17.51 | 445 |

#### WEIGHTS

| VALVE SIZE     | 2.5"      | 3"      | 4"        | 6"         | 8"         | 10"         | 12"         |
|----------------|-----------|---------|-----------|------------|------------|-------------|-------------|
| WEIGHT LB (KG) | 46.3 (21) | 64 (29) | 79.4 (36) | 136.7 (62) | 213.8 (97) | 315.3 (143) | 425.5 (193) |

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AMERICAN FIRE CONTROL CO., LLC 255 S Orange Ave, Orlando, FL 32801, USA

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The American A-3150 Swing check valves are designed only for fire protection services, also referred to as non-return, retention, or one-way valve, a check valve is designed to only allow the flow of water in one direction, a swing type clapper is found inside the valve which is spring loaded preventing water from flowing in a return direction.

### SPECIFICATIONS

- Meet or exceed the requirements of AWWA C508 Standard,
- Full waterway designed
- Max working pressure:300PSI (21 bar) /Max testing pressure 600PSI (42bar)
- Approvals:UL listed, FM approved
- Flanged ends to ANSI B 16.1 class 125 or ANSI B16.42 class 150
- Min/Max working temperature: 0°C to 80°C (32°F to 176°F)

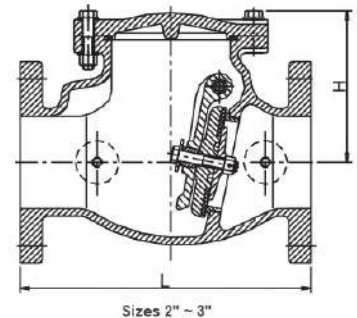


### COATINGS

- The interior and exterior of the valve coated with fusion-bonded epoxy in accordance with ANSI/AWWA C550

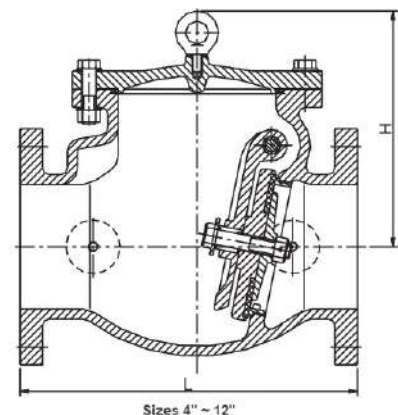
### PART LIST

| ID | PART            | MATERIAL                         |
|----|-----------------|----------------------------------|
| 1  | Valve Body      | Ductile Iron ASTM, A536 65-45-12 |
| 2  | Cover           | Ductile Iron ASTM, A536 65-45-12 |
| 3  | Gasket          | EPDM ASTM D2000                  |
| 4  | Clapper Arm     | Ductile Iron ASTM, A536 65-45-12 |
| 5  | Disc Ring       | EPDM ASTM D2000                  |
| 6  | Disc            | Ductile Iron ASTM, A536 65-45-12 |
| 7  | Retainer Washer | Bronze ASTM A148                 |
| 8  | Hinge Pin       | Stainless Steel ASTM A276, 304   |
| 9  | Pin Plug        | Stainless Steel ASTM A276, 304   |
| 10 | Seat Ring       | Bronze ASTM A148                 |



### DIMENSIONS

| IN   | DN    | L     | H     |
|------|-------|-------|-------|
| 2"   | DN50  | 8"    | 5.6"  |
| 2.5" | DN65  | 8.5"  | 5.8"  |
| 3"   | DN80  | 9.5"  | 6.4"  |
| 4"   | DN100 | 11.5" | 6.8"  |
| 6"   | DN150 | 14"   | 9.2"  |
| 8"   | DN200 | 19.5" | 11.8" |
| 10"  | DN250 | 24.5" | 13.7" |
| 12"  | DN300 | 27.5" | 16.5" |



### WEIGHTS


| VALVE SIZE     | 2"     | 2.5"   | 3"     | 4"     | 6"      | 8"       | 10"      | 12"      |
|----------------|--------|--------|--------|--------|---------|----------|----------|----------|
| WEIGHT LB (KG) | 33(15) | 44(20) | 55(25) | 75(34) | 143(65) | 251(114) | 408(185) | 617(280) |

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Any warranty made extends to original purchaser and is not assignable or transferable.



|   |                               |                      |
|---|-------------------------------|----------------------|
|  | Design Change Notice          | DCN No. JCP-DCN-0106 |
|   | JAFURAH<br>COGENERATION PLANT | GRADE: A             |




REQUESTER :

☐ CIVIL  
 ☐ ARCHI.  
 ☒ MECH.  
 ☐ ELEC.  
 ☐ I&C  
 ☐ PIPING  
 ☐ Others (     )

| REFERENCE DOCUMENT / DCN NO.(*) | REV | REMARKS / TITLE                                    |
|---------------------------------|-----|--|
| JCP-YT01-00SGA-130003           | 1   | HYDRANT, WATER MONITOR & VALVES MATERIAL SUBMITTAL |
| JCP-DCN-0106                    |     | Previous latest DCN No.                            |

REASONS FOR CHANGE:

HYDRANT Valve from “American Fire Control” is added to this submittal as the approved brand from “Viking” are facing problems in supplying within the targeted schedule. The selected new brand “American Fire Control” is UL-listed / FM-approved as well and is suitable for this application.

|  |   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
|--|---|--|--------------------------|--------------------|-----------------------------|-------------|-------------|--|--------|-------|---------|---|-----------------|-----------|--------|--|----------------|----------------------------------|--------------|---------------------------------|---|--|--|
| <p><b>EXISTING CONDITION:</b></p> <div style="text-align: center;">  </div> <p style="font-size: small;">Control Valves &amp; Devices / Hydrants &amp; Riser Equipment / Fire Hydrant / HW Wet Barrel Fire Hydrant</p> <table border="1" style="width: 100%; font-size: x-small;"> <tr><td colspan="2">Approvals</td></tr> <tr><td>Maximum working pressure</td><td>11.2 bar (161 psi)</td></tr> <tr><td>Maximum working temperature</td><td>4°C to 80°C</td></tr> <tr><td>Connections</td><td>4" (DN100) Flanged (ANSI B16.5) / PN10</td></tr> <tr><td>Weight</td><td>65 kg</td></tr> <tr><td>Outputs</td><td>1 x Pumper Outlet<br/>4 x 1/2" NH Thread<br/>2 x 1" Hose Outlet<br/>2 x 1/2" NH Thread</td></tr> <tr><td>Material (body)</td><td>Cast Iron</td></tr> <tr><td>Finish</td><td>Exterior: Primer painted epoxy enamel (Riser coat)</td></tr> <tr><td>Specifications</td><td>Conforms to ISO 7169 / AWWA C503</td></tr> <tr><td>Part Numbers</td><td>4176 (1991-12)<br/>4176-A (2002)</td></tr> <tr><td colspan="2">Note: Each hydrant is supplied with a 1/2" hose and nozzle.</td></tr> </table> <p>Page 6 of 41</p> | Approvals   |  | Maximum working pressure | 11.2 bar (161 psi) | Maximum working temperature | 4°C to 80°C | Connections | 4" (DN100) Flanged (ANSI B16.5) / PN10 | Weight | 65 kg | Outputs | 1 x Pumper Outlet<br>4 x 1/2" NH Thread<br>2 x 1" Hose Outlet<br>2 x 1/2" NH Thread | Material (body) | Cast Iron | Finish | Exterior: Primer painted epoxy enamel (Riser coat) | Specifications | Conforms to ISO 7169 / AWWA C503 | Part Numbers | 4176 (1991-12)<br>4176-A (2002) | Note: Each hydrant is supplied with a 1/2" hose and nozzle. |  | <p><b>DESCRIPTION OF CHANGE</b></p> <div style="text-align: center;">  </div> <p>American AFC FW-9000 Wet Barrel Hydrants provide a connection point for firefighters to tap into a water supply. Wet Barrel Hydrants are used in climates where freezing is not an issue. The simple construction involves the mechanical parts of a wet barrel hydrant being above ground, with a main valve to prevent any debris from entering the hydrant. There is water in the barrel and hydrant at all times.</p> <p><b>SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>Design and materials comply with AWWA C503</li> <li>Flanges conform to ASTM B16.5 class 150 (6")</li> <li>Fusion bonded epoxy coated inside and outside per AWWA C550</li> <li>250 PSI working pressure factory tested 100% to 500 PSI</li> <li>Working temperature: 0°C to 80°C (32°F to 176°F)</li> <li>(1) 4.5" pumper nozzle and (2) 2.5" hose nozzle</li> <li>Designed to prevent damage to main valve if hit accidentally</li> <li>UL listed and FM approved</li> </ul> <div style="text-align: center;">   </div> <p>Page 6 of 41</p> |
| Approvals  |   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Maximum working pressure   | 11.2 bar (161 psi)  |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Maximum working temperature  | 4°C to 80°C   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Connections  | 4" (DN100) Flanged (ANSI B16.5) / PN10  |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Weight   | 65 kg   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Outputs  | 1 x Pumper Outlet<br>4 x 1/2" NH Thread<br>2 x 1" Hose Outlet<br>2 x 1/2" NH Thread |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Material (body)  | Cast Iron   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Finish   | Exterior: Primer painted epoxy enamel (Riser coat)                                  |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Specifications   | Conforms to ISO 7169 / AWWA C503  |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Part Numbers   | 4176 (1991-12)<br>4176-A (2002)   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |
| Note: Each hydrant is supplied with a 1/2" hose and nozzle.  |   |  |                          |                    |                             |             |             |  |        |       |         |   |                 |           |        |  |                |                                  |              |                                 |   |  |  |

**OWNER'S COMMENTS**

Status-1 : Approved

Comment specified by Owner after review

1. Noted

|             |  |          |
|-------------|--|----------|
| PREPARED BY |  | 25.09.24 |
| CHECKED BY  |  | 25.09.24 |
| APPROVED BY |  | 25.09.24 |

|                       |               |               |
|-----------------------|---------------|---------------|
| <b>OWNER'S REVIEW</b> | <b>NAME :</b> | <b>DATE :</b> |
|-----------------------|---------------|---------------|

DOCUMENT INCORPORATION (DOCUMENT(S) TO BE REVISED TO INCORPORATE DCN)

| DOCUMENT NO.          | REV NO. | REMARKS/TITLE                                      |
|-----------------------|---------|--|
| JCP-YT01-00SGA-130003 | 1INT1   | HYDRANT, WATER MONITOR & VALVES MATERIAL SUBMITTAL |

GRADE :     A: Urgent major change                      B: Major change, not urgent                      C: Minor Change

# ***Authorization Letter.***

**Date:** October 28,2024

**Ref.:** 01027/24

**Subject: Distribution in Saudi Arabia**

To whom it may concern

This is to confirm that Azeidk Group is our authorized distributor in Saudi Arabia for American Fire Control's range of fire protection products.

Azeidk Group will be responsible for the distribution and support of our products throughout the Kingdom.

We trust that this information provides the reassurance you require. Should you need any further details or wish to discuss this matter further, please do not hesitate to contact us.

Yours sincerely,

**Mark Smith**  
Sales & Marketing Director

