

Title

Material Submittal for Fire
Hydrant & Post Indicator

Brand

AMERICAN AFC



**AMERICAN
FIRE CONTROL**

Index

- *Technical Data Sheets (Catalogues).*
- *UL Listed.*
- *FM Approvals.*
- *Previous Approvals.*
- *Authorization Letter.*

Technical Data Sheets (Catalogues).

FIRE HYDRANT



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.

SPECIFICATIONS

- Design and materials comply with AWWA C503
- Flanges conform to ASTM B16.5 class 150 (6")
- Fusion bonded epoxy coated inside and outside per AWWA C550
- 250 PSI working pressure factory tested 100% to 500 PSI
- Working temperature: 0°C to 80°C (32°F to 176°F)
- (1) 4.5" pumper nozzle and (2) 2.5" hose nozzle
- Designed to prevent damage to main valve if hit accidentally
- UL listed and FM approved

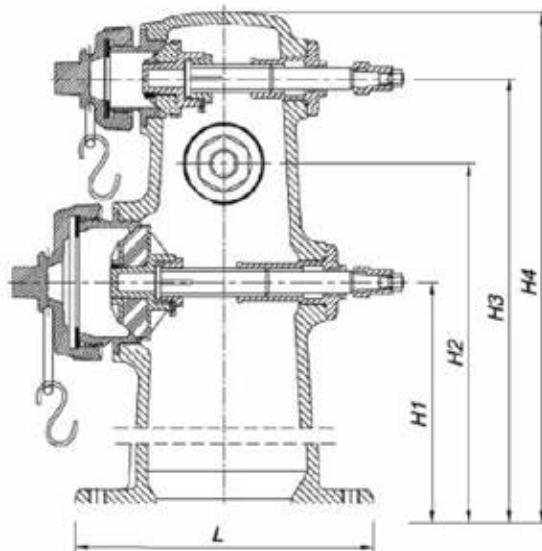


PART LIST

| ID | PART | MATERIAL |
|----|----------------------|---------------------------------|
| 1 | Body | Ductile Iron ASTM A536 65-45-12 |
| 2 | Pumper Nozzle Cap | Ductile Iron ASTM A536 65-45-12 |
| 3 | Pumper Nozzle | Bronze ASTM B148 C95400 |
| 4 | Bolt | Stainless Steel 304 |
| 5 | Main Valve Holder | Stainless Steel 304 |
| 6 | Hose Nozzle Cap | Ductile Iron ASTM A536 65-45-12 |
| 7 | Hose Nozzle | Bronze ASTM B148 C95400 |
| 8 | Stem | Stainless Steel 304 |
| 9 | Stem Nut | Stainless Steel 304 |
| 10 | O-Ring | EPDM |
| 11 | Pumper Nozzle Gasket | EPDM |
| 12 | Hose Nozzle Gasket | EPDM |

DIMENSIONS DATA

| L | H1 | H2 | H3 | H4 |
|-----|-------|-------|-------|-----|
| 11" | 13.8" | 20.7" | 25.2" | 29" |



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.



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 EpoxyPaint 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 4½" - 4nh
- 2½" - 7.5NH Standard

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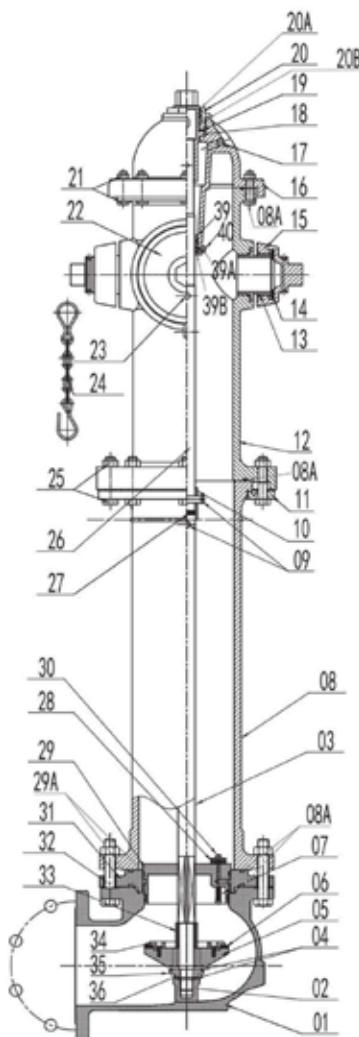
DUCTILE IRON BODY • SEAT AND DISC REPAIRABLE WITHOUT EXCAVATION • AWWA C550 EPOXY COATED

250 PSI (17.2 BAR) MAXIMUM OPERATING PRESSURE



F-7700
ASME CLASS 150 /
ISO PN16 FLANGES

F-8700
AWWA MECHANICAL
JOINT



| 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

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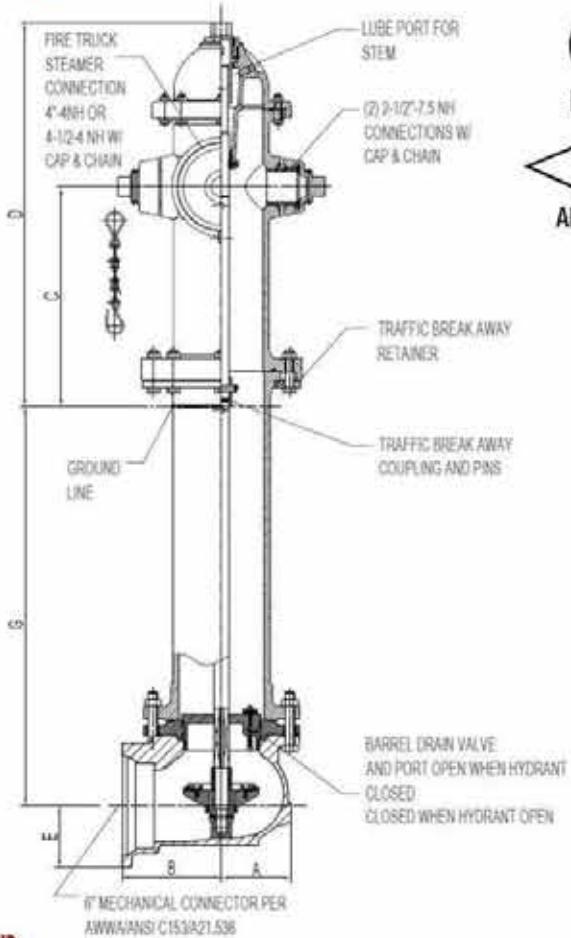




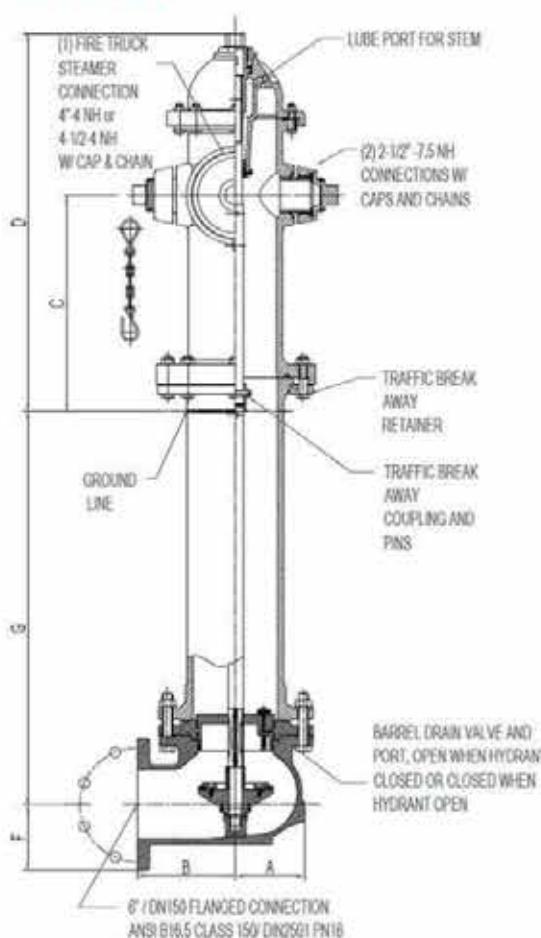
Dry Barrel Hydrant 6" (DN 150) Flanged or Mechanical Inlet, STD Outlets (2) 2 1/2" -7.5NH Male Outlets and (1) 4 1/2 " - 4 NH Male Steamer Pumper Connection:

DIMENSIONAL INFORMATION

F-8700

AWWA MECHANICAL
JOINT

F-7700

ASME CLASS 150 /
ISO PN16 FLANCES

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 Flanged | Part Number Mechanical | A (mm/ inch) | B (mm/ inch) | C (mm/ inch) | D (mm/ inch) | E (mm/ inch) | F (mm/ inch) | G (mm/inch) | Weight (kg) |
|------------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|----------------|
| | | | | | | | | 1063/42 | 185 |
| | | | | | | | | 1215/48 | 190 |
| | | | | | | | | 1368/54 | 196 |
| | | | | | | | | 1520/60 | 211 |
| | | | | | | | | 1673/66 | 220 |
| | | | | | | | | 1825/72 | 241 |
| | | | | | | | | 1978/78 | 246 |
| | | | | | | | | 2130/84 | 251 |

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SPECIFICATIONS

- Design and materials comply with AWWA C503
- Flanges conform to ASTM B16.5 class 150 (6")
- Fusion bonded epoxy coated inside and outside per AWWA C550
- 250 PSI working pressure factory tested 100% to 500 PSI
- Working temperature: 0°C to 80°C (32°F to 176°F)
- (1) 4.5" pumper nozzle and (2) 2.5" hose nozzle
- Designed to prevent damage to main valve if hit accidentally
- UL listed and FM approved

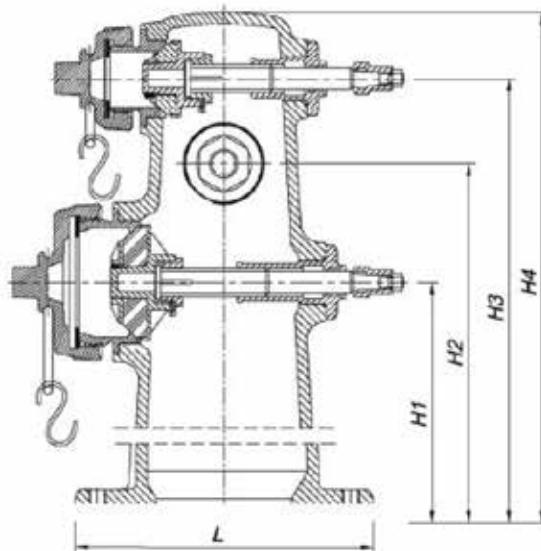


PART LIST

| ID | PART | MATERIAL |
|----|----------------------|---------------------------------|
| 1 | Body | Ductile Iron ASTM A536 65-45-12 |
| 2 | Pumper Nozzle Cap | Ductile Iron ASTM A536 65-45-12 |
| 3 | Pumper Nozzle | Bronze ASTM B148 C95400 |
| 4 | Bolt | Stainless Steel 304 |
| 5 | Main Valve Holder | Stainless Steel 304 |
| 6 | Hose Nozzle Cap | Ductile Iron ASTM A536 65-45-12 |
| 7 | Hose Nozzle | Bronze ASTM B148 C95400 |
| 8 | Stem | Stainless Steel 304 |
| 9 | Stem Nut | Stainless Steel 304 |
| 10 | O-Ring | EPDM |
| 11 | Pumper Nozzle Gasket | EPDM |
| 12 | Hose Nozzle Gasket | EPDM |

DIMENSIONS DATA

| L | H1 | H2 | H3 | H4 |
|-----|-------|-------|-------|-----|
| 11" | 13.8" | 20.7" | 25.2" | 29" |



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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

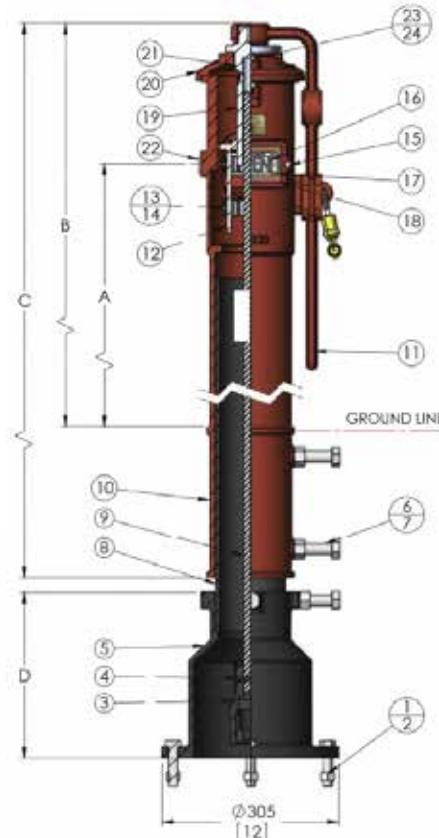
- Internally and externally spray epoxy painted ral3000

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

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 |



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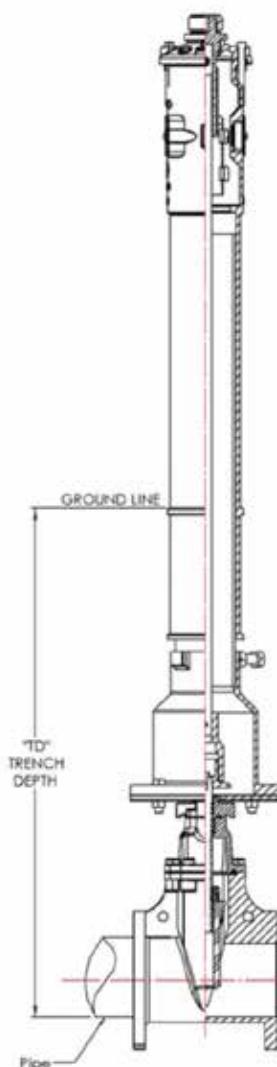
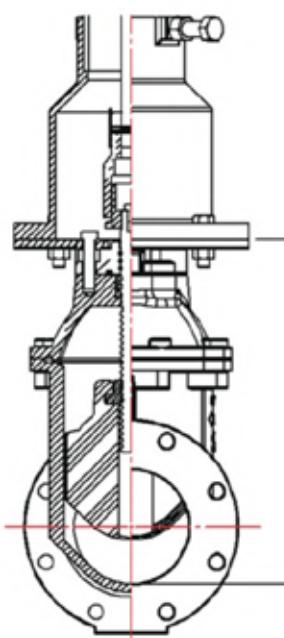


DIMENSIONS

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

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**AMERICAN
FIRE CONTROL**
QUALITY IS A PRIORITY



www.american-afc.com

UL Listed.

Hydrants

COMPANY

American Fire Control LLC

255 S Orange Ave
Orlando, FL 32801 United States

EX28963

[View model for additional information](#)

Base-Valve Design, Model(s): [F-7700](#), [F-8700](#)

Wet-Barrel Design, Model(s): [FW-9000](#)

Last Updated on 2023-05-25

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Indicator Posts, Gate Valve

COMPANY

American Fire Control LLC

255 S Orange Ave
Orlando, FL 32801 United States

EX28965

Underground Type - Adjustable Length, Model(s): 5100 For valve sizes 4-12 NPS

Wall Type, Model(s): 5150 For valve sizes 4-12 NPS

Last Updated on 2023-02-10

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FM Approval.



Other Fire Protection Products | Fire Hydrants (Wet Barrel Type) | **Hydrants, Wet Barrel**

FW-9000

Product Description

| Model No | Size | | # of Hose Outlets | Hose Outlet Size | | Pumper Connection Size | | Rated Working Pressure | | Remarks |
|----------|------|-------|-------------------|------------------|------|------------------------|-------|------------------------|--------|---------|
| | in | (mm) | | in | (mm) | in | (mm) | psi | (kPa) | |
| FW-9000 | 6 | (152) | 2 | 2.5 | (64) | 4.5 | (114) | 250 | (1720) | a |

Remarks

a. Available with ASME B16.5 Class 150 6"/DIN 2501 PN 16 DN150 flanged inlet

Details

| | |
|---------------------------|-------------------------------------|
| Category | Hydrants, Wet Barrel |
| Class of Work | 1511 - Fire Hydrant(Wt Brl Ty), Pvt |
| Certification Type | FM Approved |
| Listing Country | United States of America |

Company

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



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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

Product Description

| 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 |

Company

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

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Sprinkler System Components | Indicator Posts | [Indicator Posts](#)

Model 5100

Product Description

Model 5100 Vertical type

Details

| | |
|---------------------------|---------------------------|
| Category | Indicator Posts |
| Class of Work | 1110 - Indicator Posts |
| Approval Standard | FM 1110 - Indicator Posts |
| Certification Type | FM Approved |
| Listing Country | United States of America |

Company

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



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Previous Approvals.

| | | | | | | | | |
|---|--|---|--|---|------------|---|----|----|
| Consultant: dar making progress together | THIRD SAUDI EXPANSION OF THE HOLY MOSQUE & SURROUNDING AREAS | | | Contractor: SAUDI BINLADIN GROUP Haramain Division | | | | |
| CONTRACTOR : SAUDI BINLADIN GROUP (HARAMAIN DIVISION) | | | Date : 06/Nov/2024 | | | | | |
| <input type="checkbox"/> New Submittal <input checked="" type="checkbox"/> Resubmittal | SUBMITTAL FOR TECHNICAL APPROVAL (STA) | Submittal Ref. No.: | DEPARTMENT | | | | | |
| | | SHS-PRC-SBG-ME-MF-G-0203-01 | AR | CV | ST | ME | EL | LC |
| <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 | | | | | | | | |
| To : DAR AL- HANASAH | | | | | | | | |
| 1. Subject: Prequalification Document for Modern Arab Enterprises Co. Ltd., KSA for Fire Protection Products Manufactured by American Fire Control (AFC), USA | | | Attachments 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"/> | | No. | | | |
| 2. Submittal Description:  Prequalification Document for Modern Arab Enterprises Co. Ltd., KSA for Fire Protection Products Manufactured by American Fire Control (AFC), USA | | | | | | | | |
| Area Of Application : Service Building (All Zones) Drawing Ref. : N/A Specification Ref. : N/A Attached MAT Approval Copy : N/A Code : N/A | | | | | | | | |
| Note: Original attachec <input type="checkbox"/> Soft copy attached: <input checked="" type="checkbox"/> | | | | | | | | |
| 3. MANUFACTURER / SUPPLIER: Manufacturer & Address : American Fire Control (AFC), USA Supplier & Address : Modern Arab Enterprises Co. Ltd., KSA | | | | | | | | |
| 4. SBG Comments: <input checked="" type="checkbox"/> Please proceed <input checked="" type="checkbox"/> Refer to attached sheet | | | | | | | | |
| Submitted by | Sub-Contractor | Contractor | | | | SBG Q.C | | |
| Name: | N.A | Engr. Haitham Qashou | | | | Mr. | | |
| Signature: | N.A |  | | | |  | | |
| This section will be used by Approving Authority only. | | | | | | | | |
| 5. ENGINEER'S REPRESENTATIVE'S COMMENTS: _____ _____ Refer to comments on the attached "A4" sheets (2 nos.) _____ _____ H. Ghonaimy/M. Mohammadin/T. Abbas HG/MM/TA _____ 05-12-2024 | | | A). Approved <input type="checkbox"/> B). Approved as Noted <input checked="" type="checkbox"/> C). Revise & Resubmit <input type="checkbox"/> D). Rejected <input type="checkbox"/> | | | | | |
| Mohamed Attai on Eng. Name: behalf of Ezzat A:Halim Title: Signature: Mohamed Attai Date: 07/12/2024 | | | | | | | | |
| 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 Faye兹 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 Fire hydrant 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 <input checked="" type="checkbox"/> |
| C | Revised & Resubmit |
| D | For Information Only |
| E | 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 :

Received Copy to : PM / Others

SUBMITTAL

| | | | | | |
|--|----------------------------|------------------------|------------------------|---|---------------------------|
| Submittal Reference: | TSC-BP01-SUB-TCC-ZFP-MAT-N | | | Date: | 18/3/24 |
| Revision: | 00 | | | SUBMITTED FOR | CODE |
| Document Type: | Material Submittal | | | APPROVAL | FA |
| Project: | | PACKAGE NO: BP-01 | | FOR INFORMATION | FI |
| TMG Sales Centre Benan City Project | | BUILDING NO: General | | ACTION | |
| TO: Zuhair Fayed Partnership (ZFP) | | | | APPROVED | A |
| Cc. Atrium Project Management (APM)- TMG | | | | APPROVED AS NOTED | B |
| WE ARE SENDING HERE WITH THE DRAWING / DOCUMENTS / | | | | REVISE AND RESUBMIT | C |
| SAMPLES LISTED BELOW. (DELETE OR ADD AS NECESSARY) | | | | NO ACTION REQUIRED | D |
| ITEM | QTY. | Dwg., Spec. or BQ Ref. | DOCUMENT / DRAWING NO. | DESCRIPTION | TYPE* SUBMIT. CODE ACTION |
| 1 | 1 | | | Material Submittal for Fire Hydrant and Vertical Indicator Post | MAT |
| | | | | Technical Data attached | |
| | | | | | |
| | | | | | |
| | | | | | |
| Contractor's Project Manager: | | Mahmoud Ibrahim | | | |
| Signature: | | 18/3/24 | | | |

SC review comment / PMCM review comments

REMARKS:

- ① Fire Hydrant and vertical indicator post technically approved.
- ② Contractor shall Comply with specs, codes, stds and approved shopdrawings.
- ③ Material shall be FM approved as listed.

Correction of comments made relative to submittals during this review. DO NOT relieve the contractor from compliance with the requirements of drawings and specifications. This submittal is for review of general conformance with design concept of the project.

FOR CLIENT (Optional): DATE:

COPIES:

FOR CONSULTANT: Resident Engineer

DATE: 19/03/2024

FOR PROJECT MANAGER: Project Manager

DATE:

* TYPE: SD - Shop Drawing, G1 - Guaranteed / V. Accurate, G2 - General Inspection, GA - Calculations

* G1: Data to be entered by consultant, G2: Data to be entered by client's surveyor

* SM - Sample, MD - Manufacturer's Data, CI - Certificates, OT - Others

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 EpoxyPaint 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

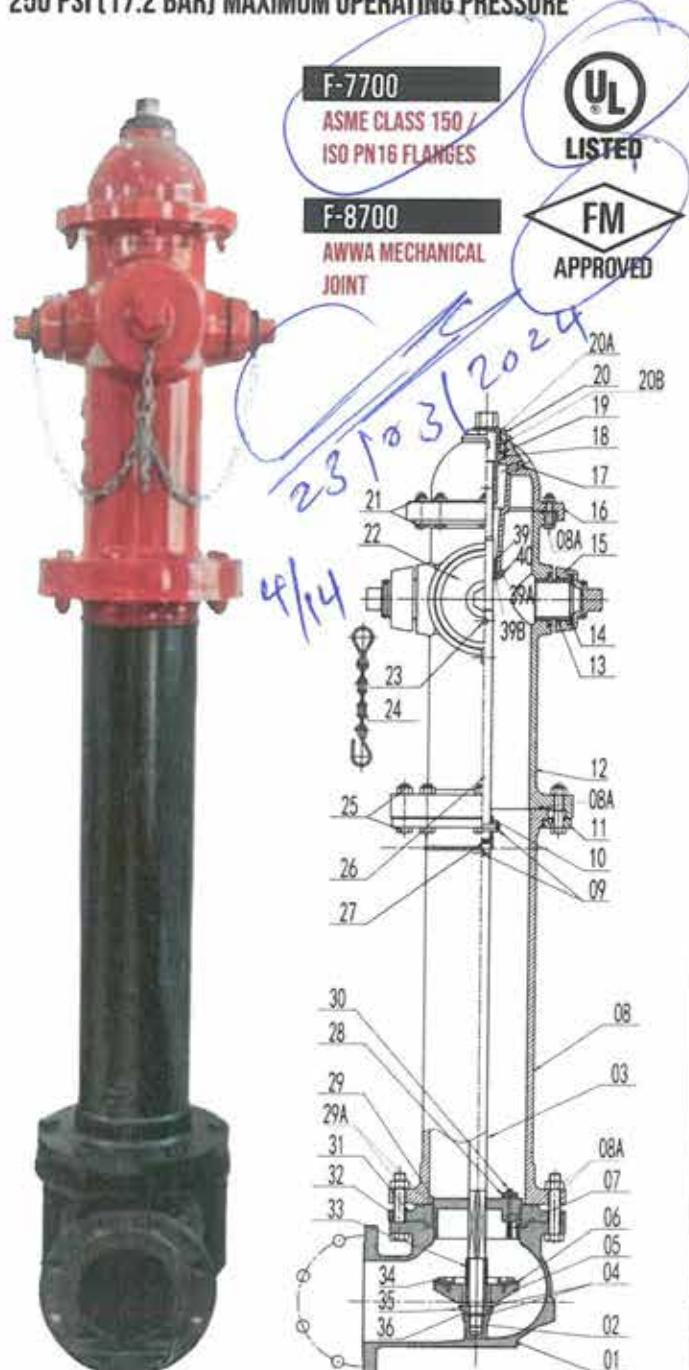
DRY BARREL FIRE HYDRANT



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



| 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

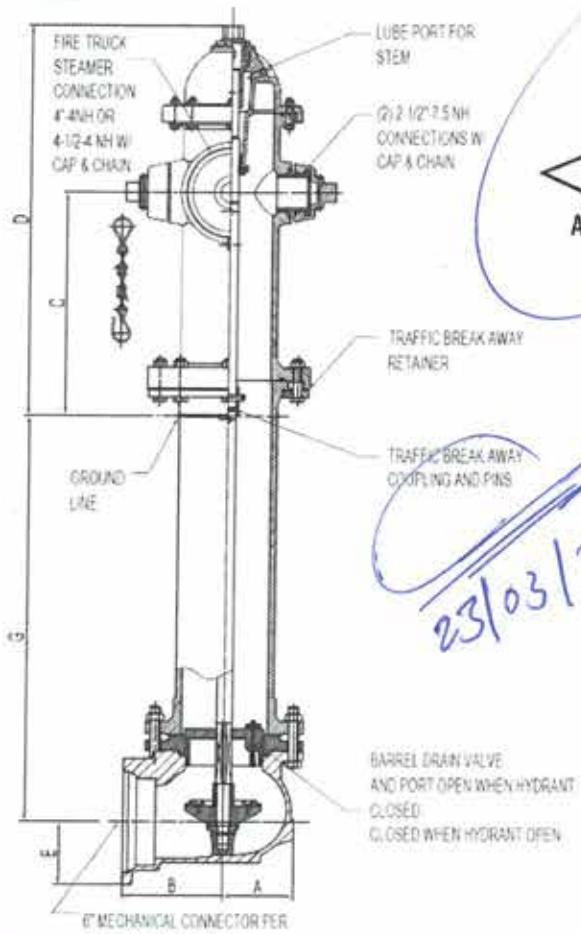
Any information omitted here is not to be construed as a warranty and deemed to be accurate. Information is subject to change without notice. Purchaser is responsible for proper installation and use of product. American Pest Control USA, LLC, makes no manufacturer's warranty by its terms or otherwise. All products sold by American Pest Control USA, LLC are subject to its full terms and conditions of sale as published and shall have no separate or additional warranty.



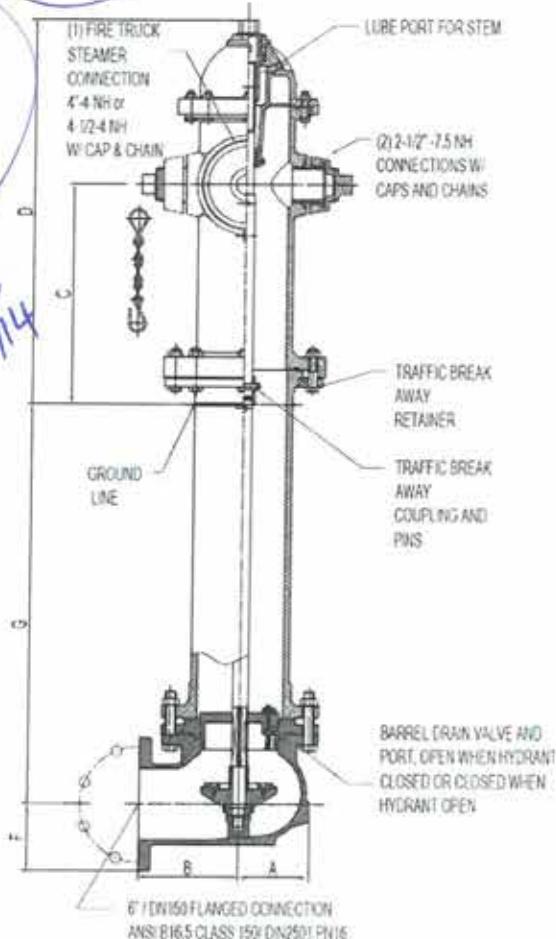
Dry Barrel Hydrant 6" (DN 150) Flanged or Mechanical Inlet, STD Outlets (2) 2 1/2" -7.5NH Male Outlets and (1) 4 1/2" - 4 NH Male Steamer Pumper Connection:

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 Flanged | Part Number Mechanical | A (mm/inch) | B (mm/inch) | C (mm/inch) | D (mm/inch) | E (mm/inch) | F (mm/inch) | G (mm/inch) | Weight (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 1215/48 1368/54 1520/60 1673/66 1825/72 1978/78 2130/84 | 185 190 196 211 220 241 246 251 |



DATA SHEET

5100 Vertical Indicator Post



AMERICAN FIRE CONTROL
QUALITY. TRADITION. INTEGRITY.

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.



6/14
23/03/2024

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

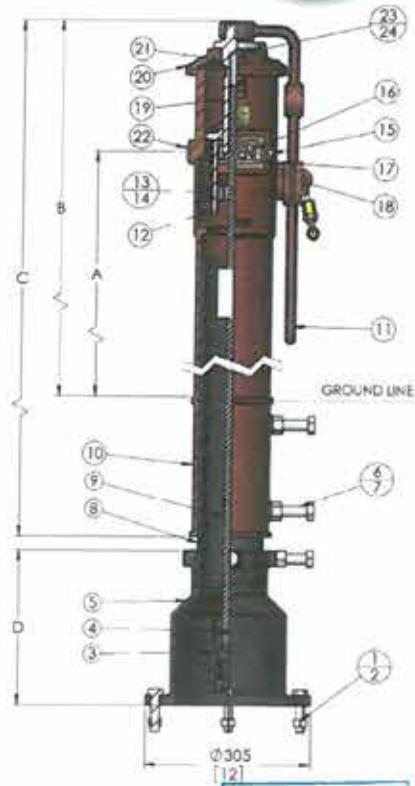
- Internally and externally spray epoxy painted ral3000

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

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



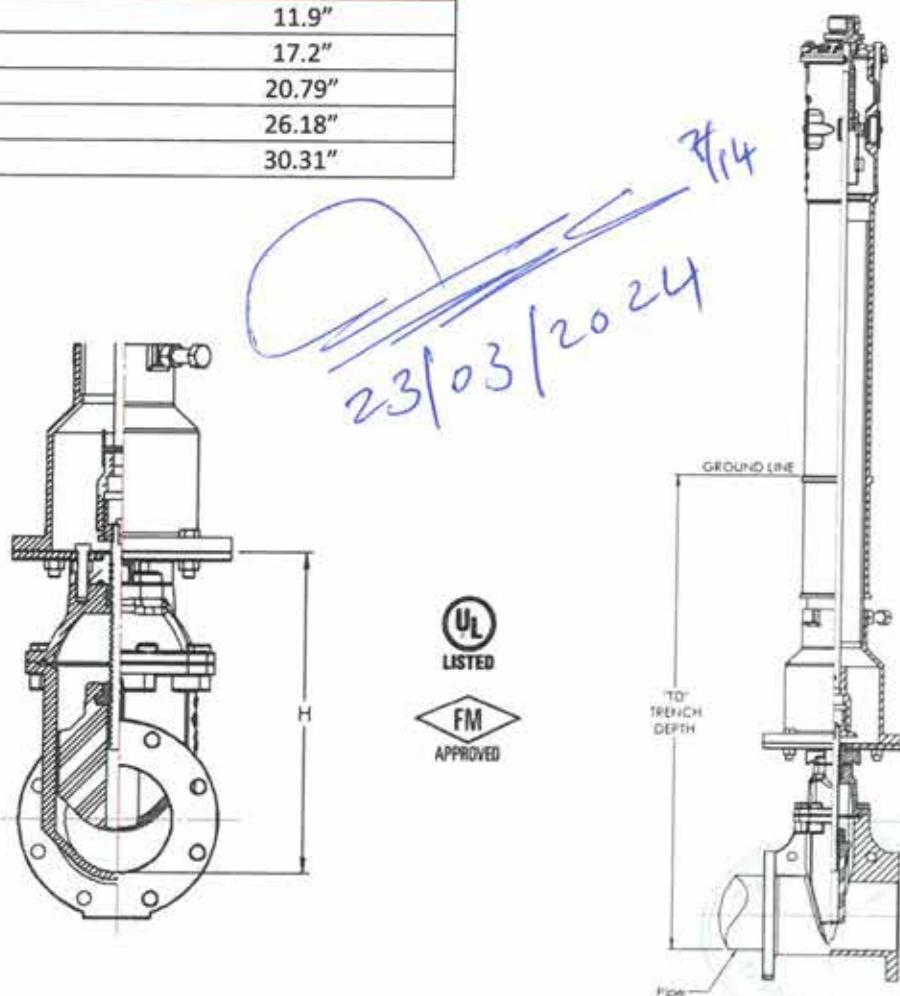
AMERICAN FIRE CONTROL
QUALITY IS A PRIORITY

DIMENSIONS

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





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

Managing Director

CERTIFICATE



This is to certify that

American Fire Control

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

23/03/2024
24

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

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



CERTIFICATE

This is to certify that

American Fire Control

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

✓ 23/03/2024
10/14

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

Abhishek

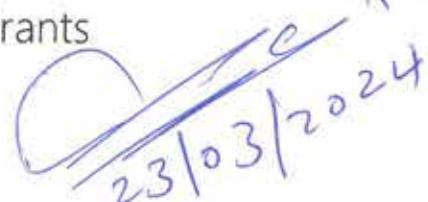
Managing Director

HBOR.EX28963 - Hydrants

Hydrants

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

EX28963


 23/03/2024

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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Member of the FM Global Group

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

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

Product Description

*1 1/4
2 1/2
2310312024*

Product Specification

| Model No | Size in (mm) | # of Hose Outlets | Hose Outlet Size | | Pumper Connection Size | | Rated Working Pressure | | Remarks |
|----------|-----------------|-------------------|------------------|------|------------------------|-------|------------------------|--------|---------|
| | | | 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



Member of the FM Global Group

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

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

13/H
23/03/2024

Company

| | | | | |
|---|--|---|-------------------|--|
|  | COMMENT RESOLUTION SHEET(CRS) |  | ARCHIRODON | AECOM Imagine it. Delivered. |
| 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./ TRANSMITTAL REFERENCE | DOCUMENT TITLE / REFERENCE | RECEIVED | ISSUED |
|---|--|--------------|--------------|
| 11099-SUB-UDC-GL-MAR-002 | Material Approval Request for Zone Control Valves-Rev.0A Vendor: United Diamond Contractors | 17 July 2023 | 30 July 2023 |

| S/NO. | DOCUMENT /DRAWING/ REPORT SECTION OR CLAUSE NO. | ENGINEER'S COMMENTS | CONTRACTOR'S RESPONSE | FINAL RESOLUTION |
|-------|--|---|-----------------------|------------------|
| 1. | | Material Approval Request for Zone Control Valves-Rev.0A 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. | | |

Jacobs

TECHNICALLY ACCEPTABLE
30/07/23

APPROVAL OF THIS DOCUMENT DOES NOT RELIEVE
VENDOR OF HIS RESPONSIBILITY FOR DESIGN,
FABRICATION, AND PERFORMANCE OF THE EQUIPMENT

| | | | | |
|----------|-------|--|--|--|
| DP WORLD | AECOM | ARCHIRODON GROUP NV Integrated Management System  | Jeddah South Container Terminal Upgrade Design & Build Main Works | Rev. |
| | | MATERIAL APPROVAL REQUEST FOR ZONE CONTROL VALVE | Issued For Reference No. Serial No. Page | General Use 11099-SUB-UDC-GL-MAR-002 0A 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
Jacobs

TECHNICALLY ACCEPTABLE
30/07/23

APPROVAL OF THIS DOCUMENT DOES NOT RELIEVE
VENDOR OF HIS RESPONSIBILITY FOR DESIGN,
FABRICATION, AND PERFORMANCE OF THE EQUIPMENT
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 | |

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

INDEX

1. SCOPE OF WORK Page 004
2. COMPLIANCE STATEMENTS Page 006
3. TECHNICAL SPECIFICATIONS (REFERENCE LIST) Page 019
4. TECHNICAL DATA SHEETS Page 020

Jacobs

TECHNICALLY ACCEPTABLE
30/07/23

APPROVAL OF THIS DOCUMENT DOES NOT RELIEVE
VENDOR OF HIS RESPONSIBILITY FOR DESIGN,
FABRICATION, AND PERFORMANCE OF THE EQUIPMENT
FURNISHED.

| | | | |
|----------|--|--|--------------------------|
| DP WORLD | ARCHIRODON GROUP NV Integrated Management System  | Jeddah South Container Terminal Upgrade Design & Build Main Works | Rev. |
| | | Issued For | General Use |
| | | Reference No. | 11099-SUB-UDC-GL-MAR-002 |
| | | Serial No. | 0A |
| | | 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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30/07/23

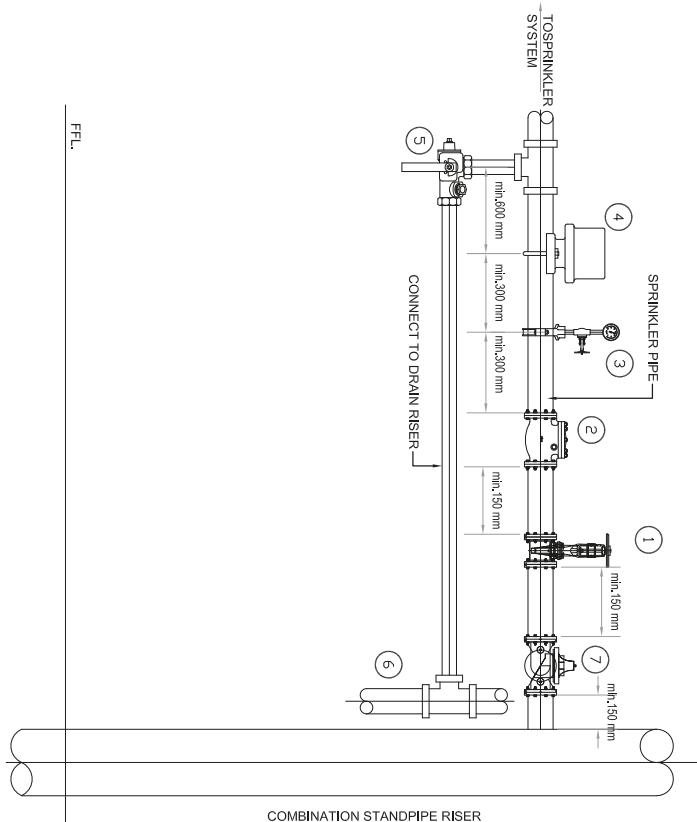
APPROVAL OF THIS DOCUMENT DOES NOT RELIEVE
VENDOR OF HIS RESPONSIBILITY FOR DESIGN,
FABRICATION, AND PERFORMANCE OF THE EQUIPMENT
FURNISHED.

| 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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FABRICATION, AND PERFORMANCE OF THE EQUIPMENT
FURNISHED.



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 MATERIAL WILL BE INSTALLED AS APPROVED MATERIAL SUBMITTAL

FFL

1 FLOOR CONTROL VALVE ASSEMBLY DETAIL
SCALE: NTS

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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. |
| 2.5 | 65 | 7.48 | 190 | 16.96 | 431 | 14.56 | 370 | 0.70 | 18 | 7 |
| 3 | 80 | 7.99 | 203 | 18.46 | 469 | 16.53 | 420 | 0.74 | 19 | 7.51 |
| 4 | 100 | 9.01 | 229 | 21.22 | 539 | 17.59 | 447 | 0.94 | 24 | 9.01 |
| 6 | 150 | 10.51 | 267 | 28.18 | 716 | 23.89 | 607 | 0.98 | 25 | 10.98 |
| 8 | 200 | 11.49 | 292 | 36.29 | 922 | 29.68 | 754 | 1.14 | 29 | 13.50 |
| 10 | 250 | 12.99 | 330 | 44.64 | 1134 | 35.03 | 890 | 1.18 | 30 | 15.98 |
| 12 | 300 | 14.01 | 356 | 51.96 | 1320 | 40.59 | 1031 | 1.25 | 32 | 19.01 |

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.

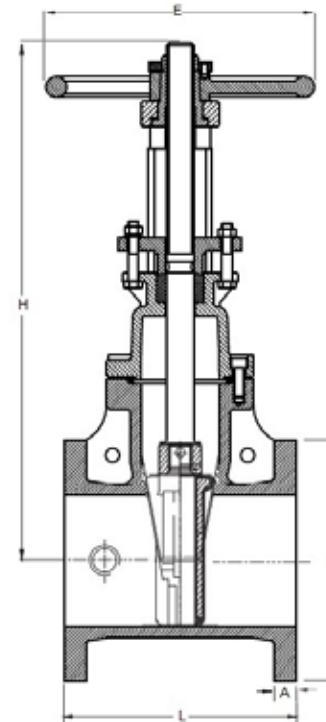
Any warranty made extends to original purchaser and is not assignable or transferable.



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FURNISHED.





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

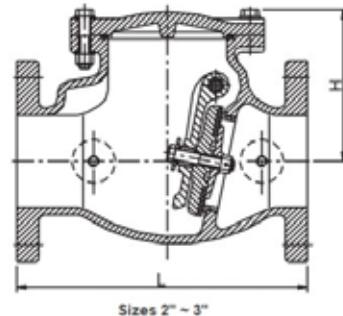
- Meet or exceed the requirements of AWWA C508 Standard,
- Full waterway designed
- Max working pressure:300PSI (21 bar) /Max testing pressure 600PSI (42bar)
- Approvals:UL listed, FM approved
- Flanged ends to ANSI B 16.1 class 125 or ANSI B16.42 class 150
- Min/Max working temperature: 0°C to 80°C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



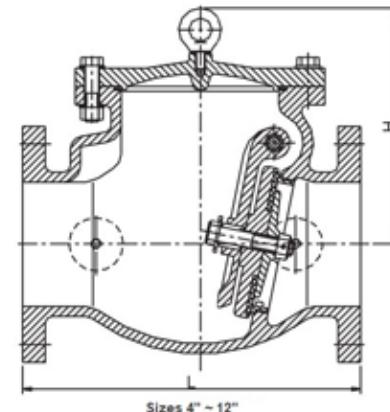
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30/07/23

APPROVAL OF THIS DOCUMENT DOES NOT RELIEVE
VENDOR OF HIS RESPONSIBILITY FOR DESIGN,
FABRICATION, AND PERFORMANCE OF THE EQUIPMENT
FURNISHED.



Sizes 2" ~ 3"



Sizes 4" ~ 12"

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.



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

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

| | | | |
|-------------------------------|--|--------------------------|--|
| Revision | 0 | Submittal Manager | Ubada Dange (Contractor Main - Lynx Contracting Company) |
| Status | Closed | Date Created | Oct 1, 2023 |
| Issue Date | Oct 1, 2023 | Spec Section | COM - Material Submittal |
| Responsible Contractor | SC - Injaz Technical for Contracting Est. | Received From | |
| Received Date | | Submit By | |
| Final Due Date | Oct 9, 2023 | Lead Time | |
| | | Cost Code | 5112500-15500 - FIRE PROTECTION |
| Location | Mechanical | Type | Manufacturer Data & Specs |
| Approvers | 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) | | |
| Ball in Court | | | |
| Distribution | Syed Fizan (Contractor Main - Lynx Contracting Company) | | |
| Description | Submitted Material List: 1) OS&Y Gate Valve - American Fire Control. 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 Attachments | | | | | 12 - MAR - firefighting valves.pdf Jawhart Jeddah Mall FF Valve MTS Rv-0.pdf |
| Ubada Dange | Oct 3, 2023 | Oct 1, 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 | |
| Comment | 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 Yousef Anaqerh | Oct 10, 2023 | Oct 9, 2023 | Oct 11, 2023 | Approved as Noted | |
| Comment | <u>Approved as noted subject to :</u> - all materials are UL/FM approved . - all material to comply with specification and project documents. - Alarm Check Valve type H with variable pressure trim with retard chamber and motor gong . - Butterfly valves for shops only . - 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-006

Revision No :

0

Date : 12-Feb-24

Subject : Fire Fighting Valves - American Fire Control - AFC

Specification & BOQ Reference :

| DOCUMENTS | | DRAWINGS | | MATERIALS | |
|--|---|---|---|---|--------------------------------------|
| Specify: | Technical Submittal | <input type="checkbox"/> Design Drawings | <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Materials Submittals | <input type="checkbox"/> Calculation |
| | | <input type="checkbox"/> As Built Drawings | | <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 checked="" type="checkbox"/> No | Samples | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Technical Data | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Others | | | |
| Reviewers (IRC) | | Initial Approval | | Remarks | |
| <input type="checkbox"/> Architectural <input type="checkbox"/> Structural <input checked="" type="checkbox"/> Mechanical <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 | | A B C D | | | |
| * OY&Y Gate Valves - American Fire Control - AFC | | | | | |
| Final Approval Code: | | | | | |
| A - Approved <input type="checkbox"/> B - Approved As Noted, Resubmittal Not Required <input checked="" type="checkbox"/> | | C - Revise and Resubmit <input type="checkbox"/> D - Not Approved <input type="checkbox"/> | | | |

Consultant's Comments:

- follow The Instructions of NFPA Code -

| | | | |
|--------------------|----------------------|-------------------------------------|----------------------|
| UDC Representative | | Consultant or Client Representative | |
| Name | Eng. Mahmood Ismaeil | Name | Abdullah Al-Saif |
| Signature | | Signature | |
| Date | 12-Feb-24 | Date | 12-Feb-24 |
| Stamp | | Stamp | 3550038231 513000871 |

0202 / / 19/2/2024

| | | | | |
|---|---|---|--|--|
| Q03/2022 | رقم المشروع |  المرشد للمقاولات والبريكاست ALMARSHAD CONTRACTING & PRECAST | | اسم المشروع : إنشاء القرية الشعبية - اشبيليا |
| المقاول | | المصادر | | الاستشاري |
|  المرشد للمقاولات والبريكاست ALMARSHAD CONTRACTING & PRECAST | | شركة درة اشبيلية للاستثمار | |  المحكمة المختصة ARCH. CENTRE |
| REQUEST FOR MATERIALS APPROVAL | | | طلب إعتماد مواد | |
| 2/11/2023 | | تاريخ التقديم: | M-MAT-14 | رقم التقديم : |
| REV | 0 | | | ميكانيكا |
| AMEICAN FIRE CONTROL مواصفات المادة المقدمة للإعتماد (حسب العقد) : جداول الكميات والمواصفات | | | | |
| رقم البند: 15-1 رقم الصفحة: 15-100 رقم المعاصفه: مکان الاستخدام: كامل المشروع | | | | |
| هاتف | المصنع أو الوكيل | بلد المنشأ | المادة | |
| 6991226 | شركة الاعمال المعمارية للمقاولات ALMARSHAD GROUP COMPANY | أمريكا | (B) TEST & DRAIN VALVE (HD FIRE) 1 | |
| | | أمريكا | (B) BUTTERFLY VALVE (AMEICAN FIRE CONTROL) 2 | |
| | | أمريكا | (B) FLOW SWITCH (POTTER) 3 | |
| | | أمريكا | (B) PRESSURE GAUGE (AGF) 4 | |
| توقيع و ختم المقاول: مدير المشروع: م/ عيسى الحسين التوقيع : التاريخ: 2/11/2023 | | | | |
| المهندس المختص: م/ السيد هيكل التوقيع : التاريخ: 2/11/2023 | | | | |
| ملاحظات و توصيات الاستشاري: التوصية بالموافقة مع ملاحظات: <input checked="" type="checkbox"/> التوصية بالموافقة مع ملاحظات: <input type="checkbox"/> | | | | |
| التوصية بالموافقة: <input checked="" type="checkbox"/> التوصية بالموافقة: <input type="checkbox"/> | | | | |
| RECEIVED 04 NOV 2023 | | | | |
| لد عائج ببر اتفاود المقاولات المدحبي الملاوي ① محبس ببر اتفاود (ZCVA) (UL-FM) مهندس (HD Fire) ② محبس خلاسته ببر (Tamperswitch) مهندس (Potter) نوع Flow switch ③ خداد صنف مهندس (ZCVA) (UL-FM) مهندس (AGF) مهندس (Potter) مهندس (Flow switch) ④ خداد صنف مهندس (ZCVA) (UL-FM) مهندس (AGF) مهندس (Potter) مهندس (Flow switch) | | | | |
| مدير المشروع: م/ صلاح كامل التوقيع: التاريخ: 2023/11/4 | | | | |
| المهندس المختص: م/ سامي نصیر التوقيع: التاريخ: 2023/11/4 | | | | |
| ملاحظات هامة: 1- بعد تسویق ببر من دون حذف ببر من دون حذف 2- طلب تسویق ببر من دون حذف ببر من دون حذف | | | | |

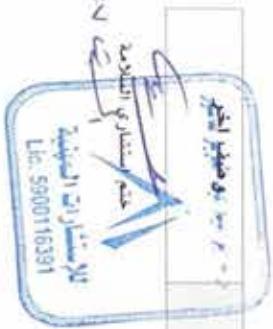
استكمال متطلبات الدفاع المدني لإصلاحية المأذن

طلب اعتماد مواد المنشروع

| رقم التحديد | رقم المصدر | اسم المصدر |
|-------------|------------|--|
| ١ | ١ | استبيان متطلبات الدفع للذريني (أحمد جعفر العطاف) |

١٢٢٣: عاليه الدليلة - المبسوطة العادة للدعيون
الدعويين عاصم محمد بن يان السعدي
الدعويين عاصم محمد بن يان السعدي

| العنوان | البيان | البيان | البيان |
|------------|------------|------------|------------|
| الاحتياطات | الاحتياطات | الاحتياطات | الاحتياطات |
| الاحتياطات | الاحتياطات | الاحتياطات | الاحتياطات |



100

كتاب المختار



MAERSK
HEAD OFFICE JEDDAH



UDC
United Diamond Contractors Co.
For Construction, Industrial, Civil, Electrical
and Mechanical Services

**MAERSK
HEAD OFFICE JEDDAH**

|  MAERSK HEAD OFFICE JEDDAH (RASD BUILDING) | |  UDC United Diamond Contractors Co. For Construction, Industrial, Civil, Electrical and Mechanical Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|---|---|------------------|--|--|--|---|---|-----------------|---------------|------------------------|---------------------|--------------------------|---|---|---|---|---|--|---|---|---|---|---|----------------|---|---|---|---|---|
| Project Name : MAERSK HEAD OFFICE JEDDAH (RASD BUILDING) Project ID : UDC-P 865 Contractor : UNITED DIAMOND CONTRACTORS Co. Contract No. : Reference No. : UDC-P865-ME-DR-MAT-007 Revision No. : 0 Date : 19-Jun-23 Subject : FF - Zone Control Valve Specification & BOQ Reference : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">DOCUMENTS</th> <th colspan="2">DRAWINGS</th> <th colspan="2">MATERIALS</th> </tr> <tr> <td>Specify</td> <td>Technical Submitted</td> <td>Design Drawings</td> <td>Shop Drawings</td> <td>Materials Submittals</td> <td>Calculation Samples</td> </tr> </thead> <tbody> <tr> <td>Documents</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>Drawings</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td>Technical Data</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> </tbody> </table> | | | | DOCUMENTS | | DRAWINGS | | MATERIALS | | Specify | Technical Submitted | Design Drawings | Shop Drawings | Materials Submittals | Calculation Samples | Documents | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Drawings | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Technical Data | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| DOCUMENTS | | DRAWINGS | | MATERIALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Specify | Technical Submitted | Design Drawings | Shop Drawings | Materials Submittals | Calculation Samples | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Documents | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drawings | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technical Data | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">REVIEW & APPROVAL</th> <th colspan="2">INITIAL APPROVAL</th> <th colspan="2">REVIEWER</th> </tr> <tr> <td>Architectural</td> <td>Structural</td> <td>Mechanical</td> <td>Electrical</td> <td>Contract Administrator</td> <td>PCM & Planning</td> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="6"> <p>Fire Fighting - Zone Control Valve - American Fire Control - Mueller - Potter - Ashcroft - AGF - Glaciomatini</p> </td> </tr> </tbody> </table> | | | | REVIEW & APPROVAL | | INITIAL APPROVAL | | REVIEWER | | Architectural | Structural | Mechanical | Electrical | Contract Administrator | PCM & Planning | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <p>Fire Fighting - Zone Control Valve - American Fire Control - Mueller - Potter - Ashcroft - AGF - Glaciomatini</p> | | | | | | | | | | | |
| REVIEW & APPROVAL | | INITIAL APPROVAL | | REVIEWER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Architectural | Structural | Mechanical | Electrical | Contract Administrator | PCM & Planning | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Fire Fighting - Zone Control Valve - American Fire Control - Mueller - Potter - Ashcroft - AGF - Glaciomatini</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">Review & Approval</th> <th colspan="2">Documentation</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> A - Approved</td> <td><input type="checkbox"/> B - Approved As Noted, Resubmittal Not Required</td> <td><input checked="" type="checkbox"/> C - Revise and Resubmit</td> <td><input type="checkbox"/> D - Not Approved</td> </tr> </tbody> </table> | | | | Review & Approval | | Documentation | | <input checked="" type="checkbox"/> A - Approved | <input type="checkbox"/> B - Approved As Noted, Resubmittal Not Required | <input checked="" type="checkbox"/> C - Revise and Resubmit | <input type="checkbox"/> D - Not Approved | | | | | | | | | | | | | | | | | | | | | | |
| Review & Approval | | Documentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> A - Approved | <input type="checkbox"/> B - Approved As Noted, Resubmittal Not Required | <input checked="" type="checkbox"/> C - Revise and Resubmit | <input type="checkbox"/> D - Not Approved | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Consultant's Comments</p> <p><i>Accepted.</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UDC Representative Name : Mahmoud Isamell Mohamed Signature :  Date : Stamp : | | Consultant or Client Representative Name : Eng. M. M. Signature :  Date : 20/06/23 Stamp : UDC 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 Mnabir 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)

| 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 Mabruk 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"/> | |
|--|---|--|--------------------------------|---|--|

| | |
|---------------------|----------------------|
| 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

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

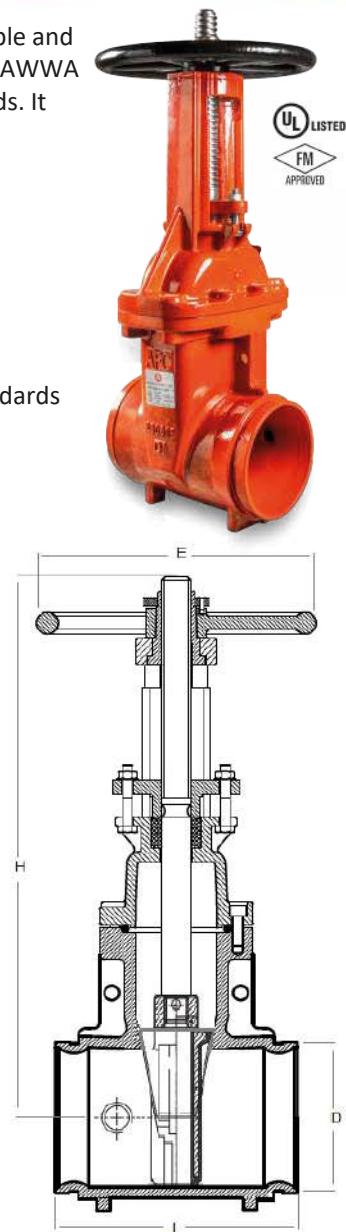
The American AG-3000 Grooved OS&Y (Outside Screw and Yoke) Gate Valve is a reliable and robust valve designed for various industrial applications. This valve complies with the AWWA C515 standard ensuring high-quality performance and adherence to industry standards. It features a heavy-duty handwheel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

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 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

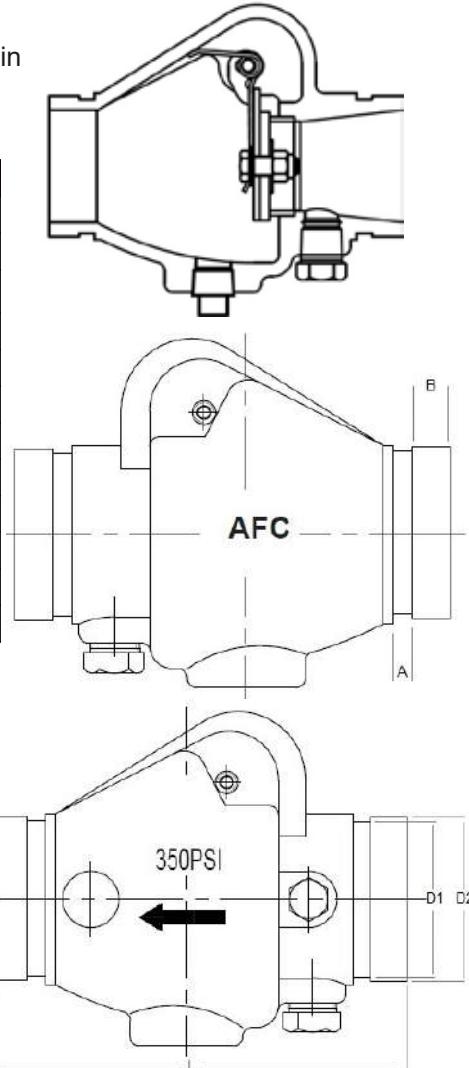
- The interior and exterior of the valve coated with fusion-bonded epoxy in accordance with ANSI/AWWA C550 or painting according to request

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) |

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-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. |
| 2.5 | 65 | 7.48 | 190 | 16.96 | 431 | 14.56 | 370 | 0.70 | 18 | 7 |
| 3 | 80 | 7.99 | 203 | 18.46 | 469 | 16.53 | 420 | 0.74 | 19 | 7.51 |
| 4 | 100 | 9.01 | 229 | 21.22 | 539 | 17.59 | 447 | 0.94 | 24 | 9.01 |
| 6 | 150 | 10.51 | 267 | 28.18 | 716 | 23.89 | 607 | 0.98 | 25 | 10.98 |
| 8 | 200 | 11.49 | 292 | 36.29 | 922 | 29.68 | 754 | 1.14 | 29 | 13.50 |
| 10 | 250 | 12.99 | 330 | 44.64 | 1134 | 35.03 | 890 | 1.18 | 30 | 15.98 |
| 12 | 300 | 14.01 | 356 | 51.96 | 1320 | 40.59 | 1031 | 1.25 | 32 | 19.01 |

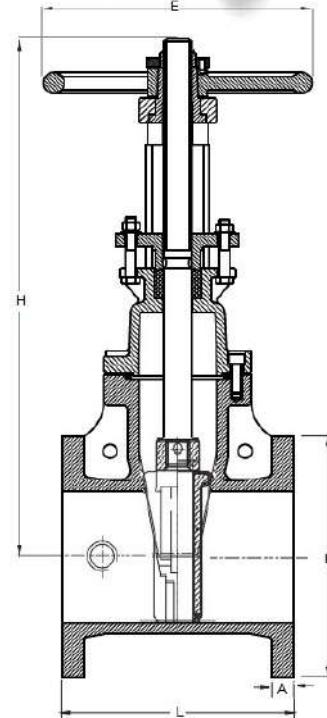
WEIGHTS

| 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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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)

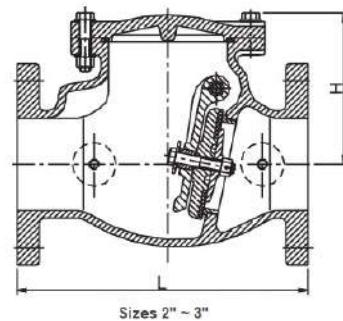


COATINGS

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

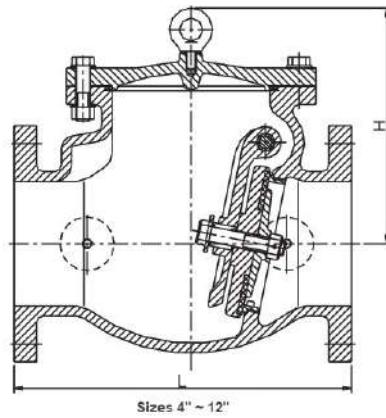
PART LIST

| 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.



| | | |
|--|-------------------------------|----------------------|
|   | Design Change Notice | DCN No. JCP-DCN-0106 |
| | JAFURAH 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.

| EXISTING CONDITION: | DESCRIPTION OF CHANGE | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--------------------------|--------------------|--------------------------|------------------|-------------|--------------|-------------|---------------------------------------|--------|-------|---------|--|-----------------|-----------|--------|---|----------------|------------------------------|--------------|---------|-------|--|---|
| Control Valves & Devices Hydrants & Water Equipment Fire Hydrant HW Wet Barrel Fire Hydrant  <table border="1"> <tr> <td>Approvals</td> <td> </td> </tr> <tr> <td>Minimum working pressure</td> <td>11.2 bar (160 psi)</td> </tr> <tr> <td>Maximum working pressure</td> <td>47 bar (675 psi)</td> </tr> <tr> <td>Temperature</td> <td>-4°C to 80°C</td> </tr> <tr> <td>Connections</td> <td>4" NPSI/100 Flanged (ANSI B16.5/PN16)</td> </tr> <tr> <td>Weight</td> <td>65 kg</td> </tr> <tr> <td>Outputs</td> <td>1 x Pumper Nozzle 4 x 5/2" NPT Thread 2 x 3/4" NPT Thread 2 x 3/4" NPT Thread</td> </tr> <tr> <td>Material (body)</td> <td>Cast iron</td> </tr> <tr> <td>Finish</td> <td>Epoxy, Polyester, polyurethane, epoxy, polyester, epoxy</td> </tr> <tr> <td>Specifications</td> <td>Conforms to ANSI / AWWA C550</td> </tr> <tr> <td>Part Numbers</td> <td>HW-9000</td> </tr> <tr> <td>Notes</td> <td>Not suitable for use in conjunction with a split main.</td> </tr> </table> | Approvals |   | Minimum working pressure | 11.2 bar (160 psi) | Maximum working pressure | 47 bar (675 psi) | Temperature | -4°C to 80°C | Connections | 4" NPSI/100 Flanged (ANSI B16.5/PN16) | Weight | 65 kg | Outputs | 1 x Pumper Nozzle 4 x 5/2" NPT Thread 2 x 3/4" NPT Thread 2 x 3/4" NPT Thread | Material (body) | Cast iron | Finish | Epoxy, Polyester, polyurethane, epoxy, polyester, epoxy | Specifications | Conforms to ANSI / AWWA C550 | Part Numbers | HW-9000 | Notes | Not suitable for use in conjunction with a split main. | <p>DATA SHEET</p> <p>FW-9000 Wet Barrel Fire Hydrant</p> <p> AMERICAN FIRE CONTROL</p> <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>SPECIFICATIONS</p> <ul style="list-style-type: none"> Design and materials comply with AWWA C503 Flanges conform to ASTM B16.5 class 150 (6") Fusion bonded epoxy coated inside and outside per AWWA C550 250 PSI working pressure factory tested 100% to 500 PSI Working temperature: 0°C to 80°C (32°F to 176°F) (1) 4.5" pumper nozzle and (2) 2.5" hose nozzle Designed to prevent damage to main valve if hit accidentally UL listed and FM approved  |
| Approvals |   | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum working pressure | 11.2 bar (160 psi) | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum working pressure | 47 bar (675 psi) | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature | -4°C to 80°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Connections | 4" NPSI/100 Flanged (ANSI B16.5/PN16) | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 65 kg | | | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | 1 x Pumper Nozzle 4 x 5/2" NPT Thread 2 x 3/4" NPT Thread 2 x 3/4" NPT Thread | | | | | | | | | | | | | | | | | | | | | | | | |
| Material (body) | Cast iron | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish | Epoxy, Polyester, polyurethane, epoxy, polyester, epoxy | | | | | | | | | | | | | | | | | | | | | | | | |
| Specifications | Conforms to ANSI / AWWA C550 | | | | | | | | | | | | | | | | | | | | | | | | |
| Part Numbers | HW-9000 | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes | Not suitable for use in conjunction with a split main. | | | | | | | | | | | | | | | | | | | | | | | | |

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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 |
| OWNER'S REVIEW | NAME : | DATE : |

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

