4-1/2" AMERICAN-DARLING® MARK 73-5 FIRE HYDRANT

BY AMERICAN FLOW CONTROL®



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CONSTRUCTION

Fully complies with ANSI/AWWA C502 and is available
UL Listed and FM Approved in applicable configurations.

ONE-PIECE BRONZE OPERATING NUT
Removable pipe plug to allow lubrication of operating threads.

TRAVEL STOP NUT
Limits rod travel and helps eliminate rod buckling. Protects interior coating by preventing valve bottom contact with base.

HYDRANT ROD
Upper and lower rods are connected by gray iron coupling using stainless steel pins. Upper rod has bronze sleeve where it passes through housing O-rings.

EPOXY PRIMER AND POLYURETHANE COATING SYSTEM
Upper barrel is provided with an E-coat primer and a two-part polyurethane top coat for improved durability, color and gloss retention.

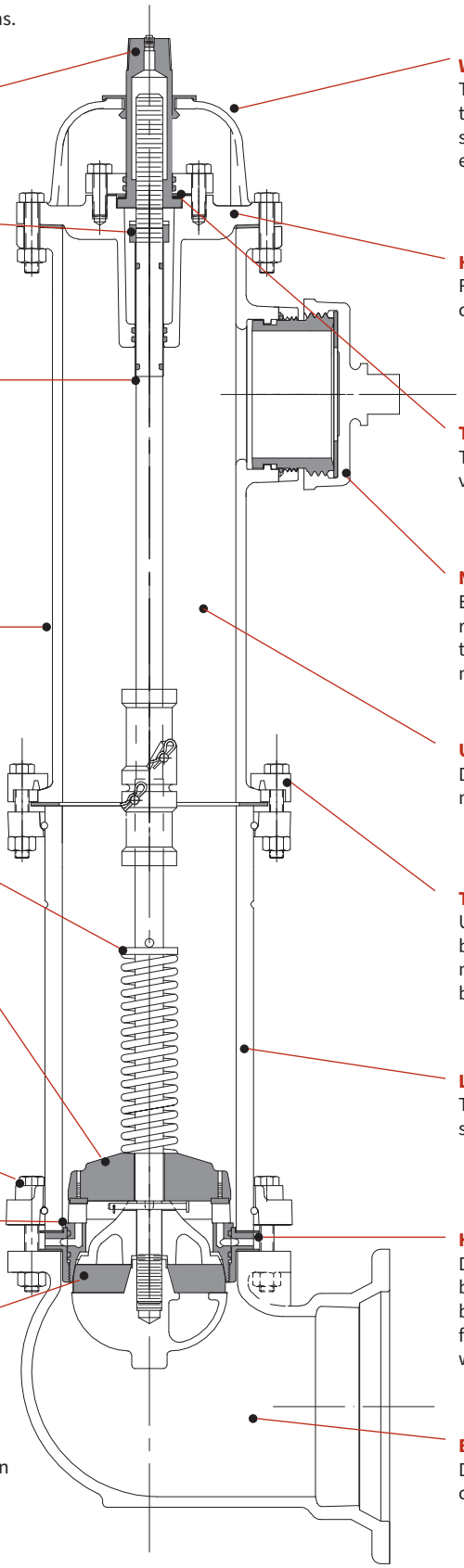
STAINLESS STEEL HYDRANT SPRING
Industry's only positive compression drain ensures closure within approximately three turns.

DRAIN LEVER
Rugged bronze lever performs dual function as carrier for drain lever pads and as wrench to remove working parts.

BASE BOLTS AND NUTS
Hydrant is provided with stainless steel fasteners below grade.

HYDRANT SEAT
Seat is constructed of bronze. Design includes a near-vertical machined seating surface with two drain ports.

HYDRANT VALVE
EPDM hydrant valve is retained by epoxy-coated iron top and bottom. Spherical design minimizes flow loss, while all-bronze, near-vertical seat design minimizes trapping of debris.



WEATHER COVER
The word "OPEN" and an arrow show direction to turn the operating nut. The rubber weather shield helps prevent water and debris from entering the housing area.

HOUSING AND HOUSING COVER
Retain operating nut and thrust washer. Rugged construction helps withstand operating forces.

THRUST WASHER
Takes upward thrust when opening hydrant valve and reduces operating torque.

NOZZLES
Exclusive design eliminates the use of hard to remove threaded barrel designs and the need to use nozzle retention pins or set screws that may become dislodged or lost.

UPPER BARREL
Ductile iron barrel with markings identifying size, model and year of manufacture.

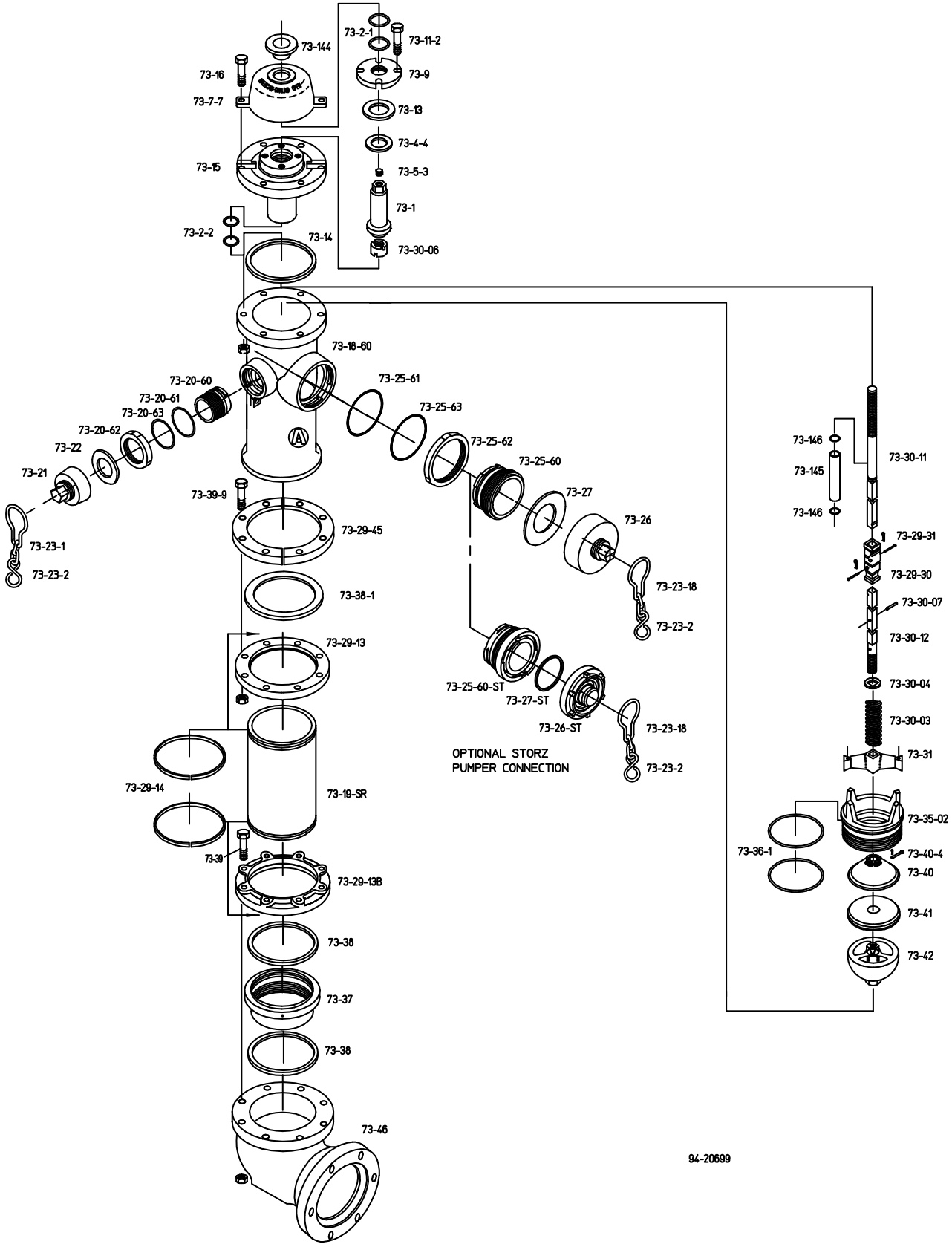
TRAFFIC FEATURE
Upper barrel is connected to lower barrel with breakable traffic flange and eight bolts and nuts. This feature allows 360° rotation of upper barrel.

LOWER BARREL
The ductile iron lower barrel provides extra strength against traffic impact damage.

HYDRANT DRAIN RING
Drain ring is securely held between barrel and base flange, provides bronze-to-bronze threaded connection for hydrant seat. Hydrant is equipped with four drain outlets.

BASE
Ductle iron sherical base has no projections or cavities to restrict flow.

EXPLODED DRAWINGS



PARTS LIST

REF NO.	QTY.	DESCRIPTION	MATERIAL
73-1	1	Operating Nut	Bronze
73-2-1	2	Cover O-ring	Buna-N
73-2-2	2	Housing O-ring	Buna-N
73-4-4	1	Thrust Washer	Nylatron
73-5-3	1	Pipe Plug	Stainless Steel
73-7-7	1	Weather Cover	Gray Iron
73-9	1	Housing Cover	Gray Iron
73-11-2	4	Housing Cover Cap Screw	Plated Steel
73-13	1	Housing Cover Gasket	Fiber
73-14	1	Housing Gasket	Rubber
73-15	1	Housing	Ductile Iron
73-16	6	Housing Bolt and Nut	Plated Steel
73-18-60	1	Upper Barrel	Ductile Iron
73-19-SR	1	Lower Barrel	Ductile Iron
73-20-60	2	Hose Nozzle	Bronze
73-20-61	2	Hose Nozzle Seal	Buna-N
73-20-62	2	Hose Nozzle Retainer	Ductile Iron
73-20-63	2	Hose Nozzle Retainer Washer	Teflon
73-21	2	Hose Cap	See Note 7
73-22	2	Hose Cap Gasket	Rubber
73-23-1	1	Hose Cap Chain	Steel
73-23-2	3	S-Hook	Steel
73-23-18	1	Pumper Cap Chain	Steel
73-25-60	1	Pumper Nozzle	Bronze
73-25-60-ST	1	Storz Nozzle	Bronze/Aluminum
73-25-61	1	Pumper Nozzle Seal	Buna-N
73-25-62	1	Pumper Nozzle Retainer	Ductile Iron
73-25-63	1	Pumper Nozzle Retainer Washer	Teflon
73-26	1	Pumper Cap	See Note 7
73-26-ST	1	Storz Nozzle Cap	Aluminum
73-27	1	Pumper Cap Gasket	Rubber
73-27-ST	1	Storz Cap Gasket	Rubber
73-29-13	1	Barrel Flange	Ductile Iron
73-29-13B	1	Base Flange	Ductile Iron
73-29-14	2	Snap Ring	Stainless Steel
73-29-30	1	Rod Coupling	Gray Iron
73-29-31	2	Coupling & Clip Pins	Stainless Steel
73-29-45	1	2-Piece Breakable Flange	Gray Iron
73-30-03	1	Hydrant Spring	Stainless Steel
73-30-04	1	Spring Plate	Stainless Steel
73-30-06	1	Travel Stop Nut	Bronze
73-30-07	1	Spring Plate Pin	Stainless Steel
73-30-11	1	Upper Hydrant Rod	Steel
73-30-12	1	Lower Hydrant Rod	Steel
73-31	1	Drain Lever	Bronze
73-35-02	1	Hydrant Seat	Bronze
73-36-1	2	Seat O-ring	Buna-N
73-37	1	Drain Ring	Bronze
73-38	2	Drain Ring Gasket	Composition Rubber
73-38-1	1	Barrel Gasket	Rubber
73-39	8	Base Bolt and Nut	Stainless Steel
73-39-9	8	Barrel Bolt and Nut	Plated Steel
73-40	1	Hydrant Valve Top	Ductile Iron
73-40-4	1	Clevis & Clip Pin	Stainless Steel
73-41	1	Hydrant Valve	EPDM Rubber
73-42	1	Hydrant Valve Bottom	Ductile Iron
73-46-2	1	Flanged Base	Ductile Iron
73-46-5	1	Mechanical Joint Base	Ductile Iron
73-46-TY	1	Tyton® Base	Ductile Iron
76-46-AA	1	ALPHA™ Base	Ductile Iron
73-144	1	Weather Shield	Rubber
73-145	1	Rod Sleeve	Bronze
73-146	2	Sleeve O-ring	Buna-N

NOTES

1. Size and shape of nut on operating nut and cap, threading on nozzles and caps, and the direction of opening made to specifications.
2. Cap chains are not furnished unless specified.
3. Working pressure 250 psig, test pressure 500 psig.
4. Hydrant conforms to ANSI/AWWA C502 standard.
5. Upper barrel can be rotated 360°.
6. UL Listed and FM Approved in allowable configurations.
7. National Standard and other common cap configurations are constructed of ductile iron. Other offerings may be constructed of gray cast iron.
8. Nominal turns to open is 17-1/2.
9. TYTON® is a registered trademark of United States Pipe and Foundry Co., LLC.
10. ALPHA™ is a licensed trademark of Romac Industries, Inc. (U.S. Patent 8,894,100)

AMERICAN Flow Control strongly recommends following routine maintenance on fire hydrants as outlined in AWWA Manual M-17 for Installation, Field Testing and Maintenance of Fire Hydrants. The ease of operation and the frequency of repair depends on the condition of the water system and the maintenance given. Dirt, gravel and other foreign material in the hydrant may prevent it from closing or draining properly, which may result in damage to the hydrant main valve. Under most operating conditions AMERICAN Flow Control recommends semiannual lubrication and inspection of fire hydrants.

FEATURES

The 4-1/2" American-Darling Mark 73-5 fire hydrant by AMERICAN Flow Control® incorporates more than 100 years of experience in design, manufacture and field experience. This means dependable and efficient operation when needed.

The 4-1/2" American-Darling Mark 73-5 hydrant is rated at 250 psig and is tested at 500 psig. This hydrant meets or exceeds all requirements of ANSI/AWWA C502 for dry barrel hydrants.

The 4-1/2" American Darling Mark 73-5 is manufactured with the features you expect from a high-quality fire hydrant. The all-bronze seat and drain ring ensure that the Mark 73-5 hydrant is easily serviced by just one person.

The 4-1/2" American-Darling Mark 73-5 fire hydrant is Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372, which exhibit compliance with the U.S Safe Drinking Water Act.

UL-FM

In applicable configurations, the 4-1/2 " American-Darling Mark 73-5 hydrant is UL Listed and FM Approved. Both UL and FM Approvals require we consistently manufacture and test our hydrants in full compliance with their stringent standards. Our facilities are subject to periodic inspections to ensure we are in compliance with their standards.

4-1/2" American-Darling Mark 73-5 Standard Features:

- Upper barrel is furnished with an E-coat primer and a two-part polyurethane top coat for durability, gloss and color retention
- Ductile iron upper barrel, lower barrel, base and housing
- Easy 360° rotation of nozzle section
- 250 psig rated working pressure
- Tested at 500 psig
- Retainer-style mechanically attached nozzles
- Stainless steel bolting below grade
- Bronze-to-bronze seating
- Square hydrant rod
- Travel stop nut located in top of hydrant
- Exclusive fast-closing positive compression drain design

BENEFITS

Spring-Loaded Multiport Drains

Four external drain outlets are standard on the 4-1/2" American-Darling Mark 73-5. The stainless steel rod spring helps assure drains close after approximately three turns of the operating nut. This important feature helps prevent washouts and erosion.

Square Hydrant Rod

Square hydrant rod allows for the use of a short, lightweight disassembly wrench by providing four points of contact between the rod and wrench during seat removal.

Retainer-Style Nozzle Retention Design

Proprietary design eliminates the use of hard to remove threaded barrel designs and the need to use nozzle retention pins or set screws that may become dislodged or lost.

Travel Stop Nut

Stop nut in the housing limits opening. This helps prevent rod buckling and damage to bronze components that may occur if excessive torque is applied in the full open position. This also protects interior base coating by preventing valve bottom from contacting base.

SPECIFICATIONS

Fire hydrants shall meet or exceed ANSI/AWWA C502, latest revision. Rated working pressure shall be 250 psig, test pressure shall be 500 psig, and hydrants shall include the following specific design criteria:

The main valve closure shall be of the compression type. Traffic feature to be designed for easy 360° rotation of nozzle section during field installation.

The main valve opening shall not be less than 4-1/2" and be designed so that removal of all working parts can be accomplished without excavating. The hydrant valve shall be constructed of EPDM rubber and have a vertical taper of 20° or less. The bronze seat shall be threaded into a bronze drain ring. The draining system of the hydrant shall be bronze and positively activated by the main operating rod. Hydrant drains shall close completely after no more than three turns of the operating nut. There shall be a minimum of two internal ports and four outlets to the exterior of the hydrant. Drain shutoff to be by direct compression closure. Sliding drains are not permitted.

Hydrant barrels shall be made of ductile iron. Nozzles shall be retained by collars. Threaded-in nozzles and nozzles using set screws are not allowed.

Hydrant upper barrel shall be factory coated with Electrodeposition (E-coat) epoxy primer and catalyzed two-part polyurethane top coating. Base shall be coated with fusion-bonded epoxy. All bolting below grade shall be 304 stainless steel.

Hydrants shall be UL Listed and FM Approved in applicable configurations. All hydrants are to be certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.

Hydrants shall be equal to the 4-1/2" American-Darling® Mark 73-5 by AMERICAN Flow Control®.

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Mark 73-5 Product Information

Product literature may become outdated. AMERICAN is not responsible for out-of-date information, errors or omissions.
Please contact AMERICAN for the most current product information.

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EOE/Vets/Disabilities

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