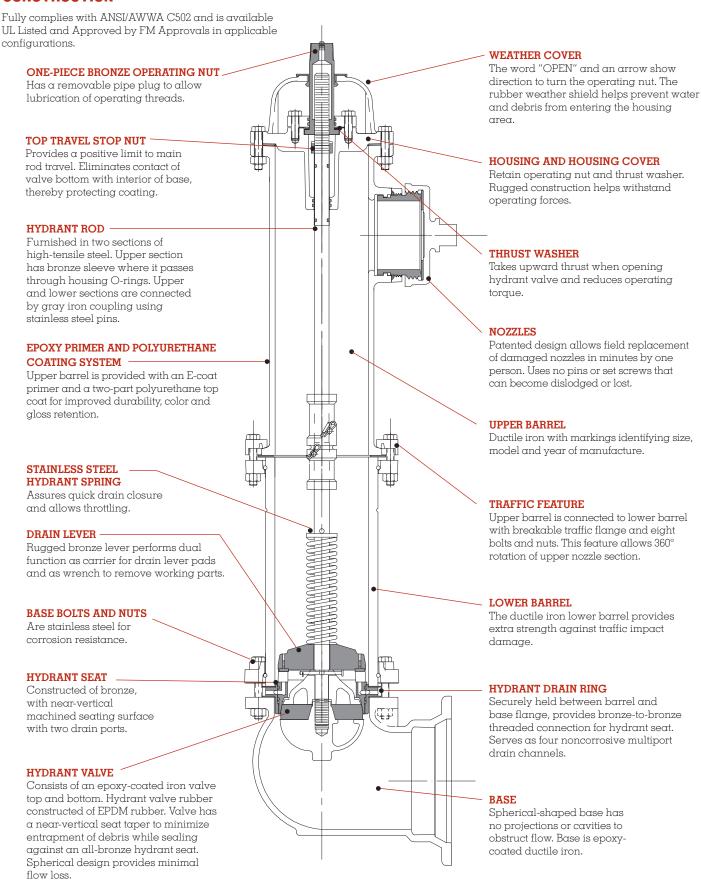
4 1/2" AMERICAN-DARLING MARK 73-5 FIRE HYDRANT BY AMERICAN FLOW CONTROL®



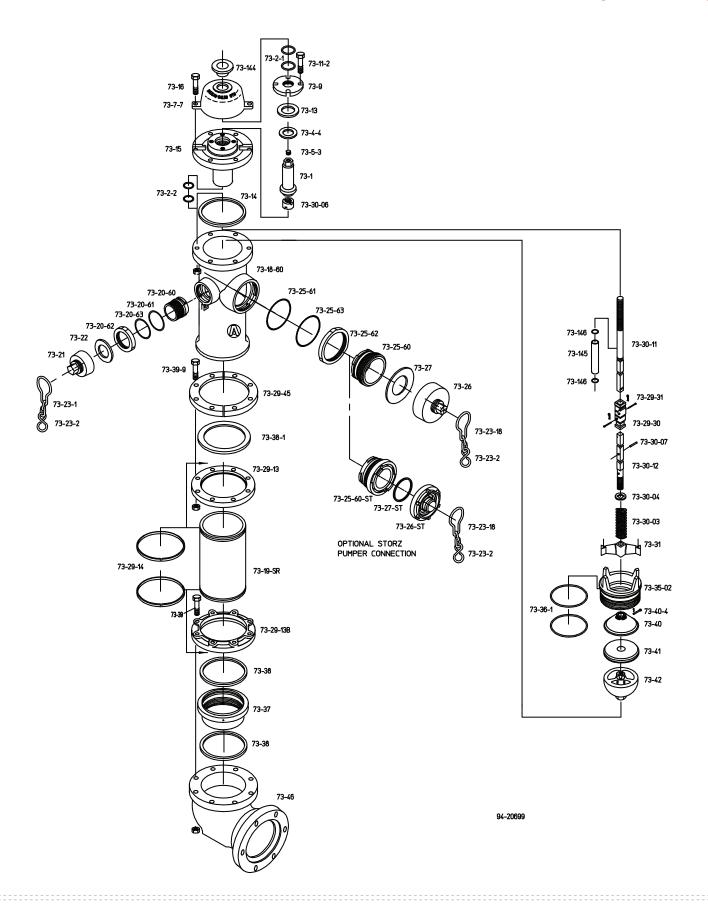




CONSTRUCTION



EXPLODED DRAWINGS



PARTS LIST

REF NO.	QTY.	DESCRIPTION	MATERIAL
73-1	l l	Operating Nut	Bronze
73-2-1	2	Cover O-ring	Buna-N
73-2-2	2	Housing O-ring	Buna-N
73-4-4]	Thrust Washer	Nylatron
73-5-3]	Pipe Plug	Stainless Steel
73-7-7	1	Weather Cover	Gray Iron
73-7-7]	Housing Cover	Gray Iron
73-11-2	4	Housing Cover Cap Screw	Plated Steel
73-11-2	1	Housing Cover Gasket	Fiber
73-13 73-14]	Housing Cover Gasket Housing Gasket	Rubber
73-14]	Housing Gasket Housing	Ductile Iron
73-15	6	Housing Bolt and Nut	Plated Steel
73-10	1	Upper Barrel	Ductile Iron
73-16-60 73-19-SR]	Lower Barrel	Ductile Iron
73-19-511	2	Hose Nozzle	Bronze
	2	Hose Nozzle Seal	Buna-N
73-20-61	2	Hose Nozzle Sedi Hose Nozzle Retainer	Ductile Iron
73-20-62	2		
73-20-63	2	Hose Nozzle Retainer Washer	Teflon See Note 7
73-21		Hose Cap	
73-22	2 1	Hose Cap Gasket	Rubber
73-23-1	=	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		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	
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	l 1	Barrel Flange	Ductile Iron Ductile Iron
73-29-13B	2	Base Flange	
73-29-14 73-29-30	1	Snap Ring	Stainless Steel Gray Iron
73-29-30	2	Rod Coupling	Stainless Steel
	1	Coupling & Clip Pins 2-Piece Breakable Flange	Gray Iron
73-29-45 73-30-03	1	9	Stainless Steel
73-30-03]	Hydrant Spring Spring Plate	Stainless Steel
73-30-04]	Travel Stop Nut	Bronze
73-30-00	1	±	Stainless Steel
	1	Spring Plate Pin	Steel Steel
73-30-11 73-30-12]	Upper Hydrant Rod Lower Hydrant Rod	Steel
73-30-12]	Drain Lever	Bronze
73-31	1	Hydrant Seat	Bronze
73-35-02	2	Seat O-ring	Buna-N
73-30-1]	Drain Ring	Bronze
73-37	2	Drain Ring 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
73-41	1	Hydrant Valve Bottom	Ductile Iron
73-42]	Flanged Base	Ductile Iron
73-46-2]	Mechanical Joint Base	Ductile Iron Ductile Iron
73-46-3 73-46-TY]	Tyton Base	Ductile Iron Ductile Iron
73-40-11]	Weather Shield	Rubber
73-144	1	Rod Sleeve	Bronze
73-145	2	Sleeve O-ring	Buna-N
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NOTES

- 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 Approved by FM Approvals in allowable configurations.
- 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 19-1/2.

AMERICAN Flow Control strongly recommends that you follow 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 in. 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.

Introduced in 1973, the 4-1/2 in. American-Darling Mark 73-5 hydrant is rated at 250 psig and is seat tested at 500 psig. This hydrant meets or exceeds all requirements of ANSI/AWWA C502 for dry-barrel hydrants.

The 4-1/2 in. 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 repaired by just one person.

Optional UL-FM

In applicable configurations, the 4-1/2 in. American-Darling Mark 73-5 hydrant is UL Listed and Approved by FM Approvals. Both UL and FM Approvals require that 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
- Shell tested at 500 psig

- Lubrication chamber
- Stainless steel bolting below grade
- Bronze-to-bronze seating
- Short, lightweight disassembly wrench
- Travel stop nut located in top of hydrant
- Positive compression, fast closing drains

BENEFITS

Spring-Loaded Multiport Drains

Two-port drains and four drain outlets are standard features on the 4 1/2 in. 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.

Near Vertical Hydrant Valve

Minimal taper on the 4 1/2 in. American-Darling Mark 73-5 hydrant valve helps prevent entrapment of debris in the hydrant seating area.

Lubrication Chamber

Seals operating threads from water and debris. Proper maintenance is required.

Top Travel Stop Nut

Helps prevent stem buckling and damage to bronze components that may occur if excessive torque is applied in the full open position.

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 in. 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 equal to the 4 1/2 in. American-Darling Mark 73-5 by AMERICAN Flow Control®.



THE RIGHT WAY

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