

4-1/2" AMERICAN-DARLING® MARK-73-5 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:

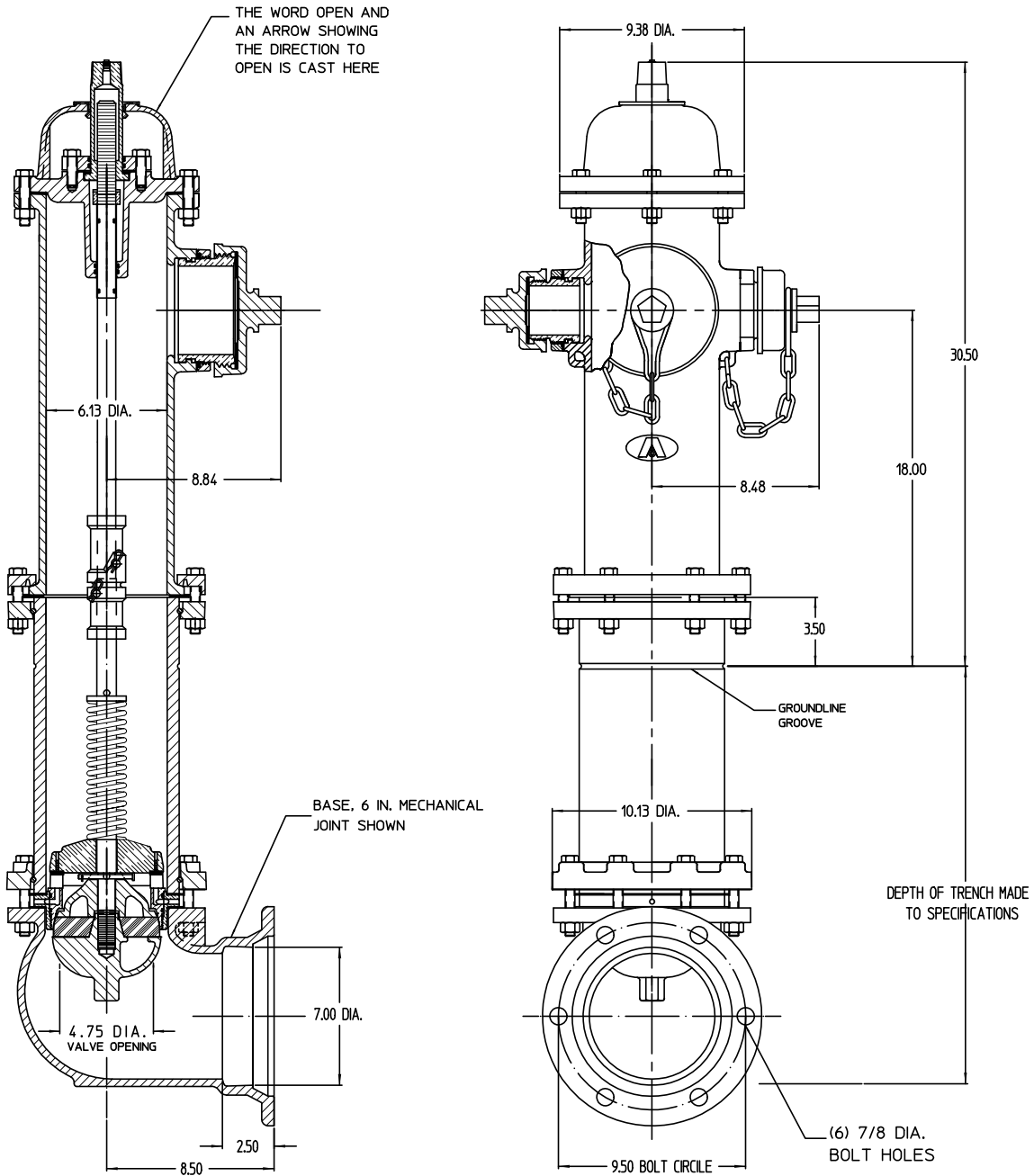
- The main valve closure shall be of the compression type.
- Traffic feature must be designed for easy 360 rotation of nozzle section during field installation.
- The main valve opening shall not be less than 4-1/2 in. and be designed so that removal of all working parts can be accomplished without excavating.
- 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 an all 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 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.
- Friction loss not to exceed 3.5 psig at 1000 gpm through 4-1/2 in. pumper nozzle.
- Hydrants shall be equal to the **4-1/2" American-Darling MARK-73-5** by AMERICAN Flow Control fire hydrant.

AMERICAN Flow Control Submittal Information

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



91-21440

NOTES

1. Size and shape of operating nut and nut on caps, threading on nozzles and caps and the direction of opening made to specifications.
2. Cap chains are not furnished unless specified.
3. Bolts and nuts are rustproof steel ASTM A307 or equivalent, in accordance with AWWA C502.
4. Working pressure 250 psig, test pressure 500 psig.
5. Hydrant conforms to AWWA standard C502.
6. UL Listed and Approved by FM Approvals at 250 psig in allowable configurations.
7. Valve top, valve bottom and base coated with fusion bonded epoxy coating.
8. Certified to NSF/ANSI Standard 61 and NSF/ANSI 372.
9. Nominal turns to open is 19-1/2.



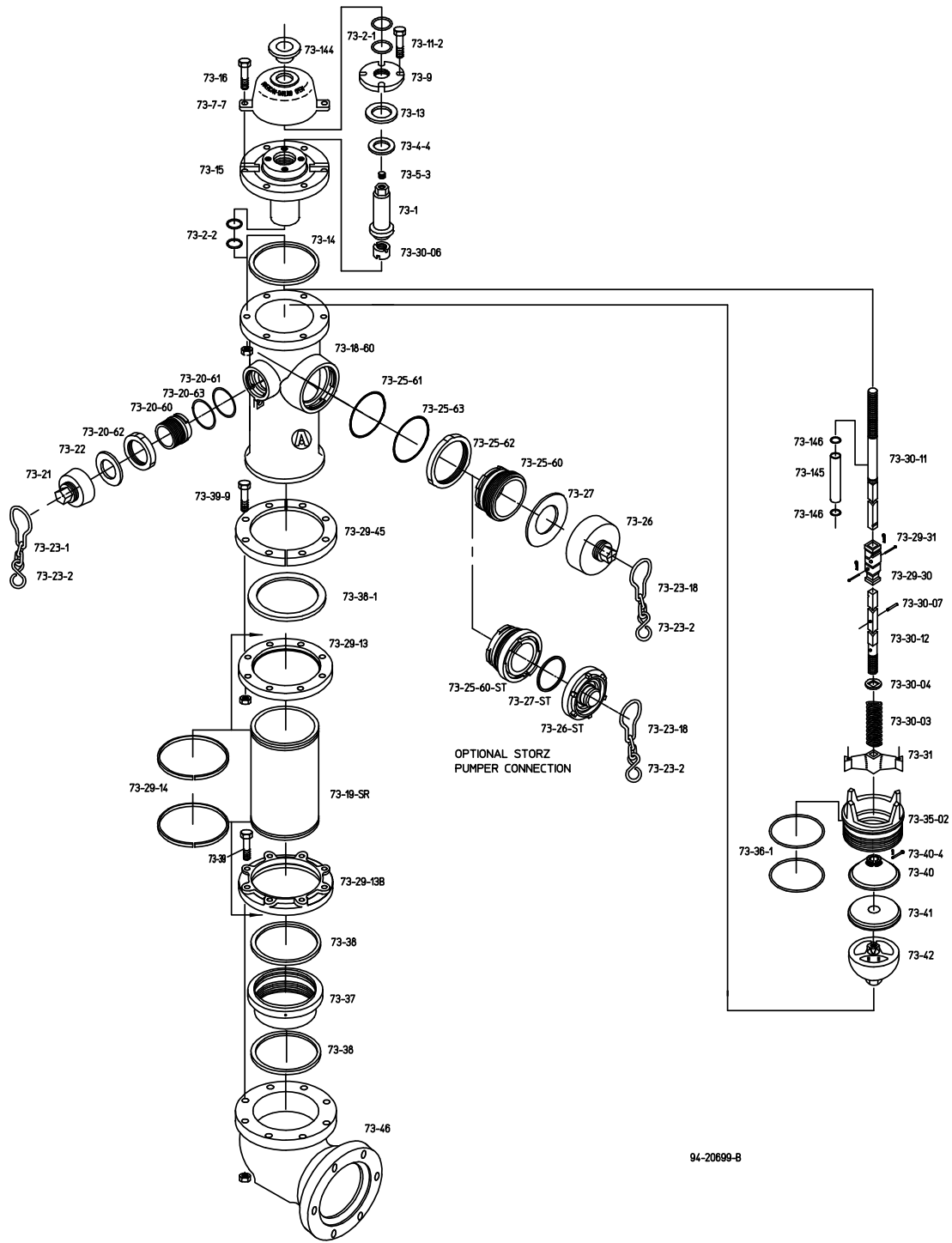
AMERICAN
FLOW CONTROL

THE RIGHT WAY

AMERICAN Flow Control
P.O. Box 2727
Birmingham, Al. 35202-2727
Phone: 800-326-8051
Fax: 800-610-3569
Email: afcsales@american-usa.com

Waterous Company
125 Hardman Avenue South
South St. Paul, Mn. 55075-1191
Phone: 888-266-3686
Fax: 800-601-2809
E-mail: afcsales@american-usa.com

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Ref. No.	Qty.	Description	Material
73-1	1	Operating Nut	Bronze ASTM B763 UNS C86500
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 ASTM A126 Class B
73-9	1	Housing Cover	Gray Iron ASTM A126 Class B
73-11-2	4	Cover Cap Screws	See Note 3
73-13	1	Cover Gasket	Fiber
73-14	1	Housing Gasket	EPDM Rubber
73-15	1	Housing	Ductile Iron ASTM A536 Grade 65-45-12
73-16	6	Housing Bolts & Nuts	See Note 3
73-18-60	1	Upper Barrel	Ductile Iron ASTM A536 Grade 65-45-12
73-19-SR	1	Lower Barrel	Ductile Iron AWWA C151 Grade 60-42-10
73-20-60	2	Hose Nozzle	Bronze ASTM B763 UNS C87600
73-20-61	2	Hose Nozzle Seal	Buna N
73-20-62	2	Hose Nozzle Retainer	Ductile Iron ASTM A536 Grade 65-45-12
73-20-63	2	Hose Nozzle Retainer Washer	Teflon
73-21	2	Hose Cap	*See Below
73-22	2	Hose Cap Gasket	Rubber
73-23-1	2	Hose Cap Chain with S-Hook	Steel
73-23-2	3	S-Hook	Steel
73-23-18	1	Pumper Cap Chain with S-Hook	Steel
73-25-60	1	Pumper Nozzle	Bronze ASTM B763 UNS C86700
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 ASTM A536 Grade 65-45-12
73-25-63	1	Pumper Nozzle Retainer Washer	Teflon
73-26	1	Pumper Cap	*See Below
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 ASTM A536 Grade 65-45-12
73-29-13B	1	Base Flange	Ductile Iron ASTM A536 Grade 65-45-12
73-29-14	2	Snap Ring	Stainless Steel

Ref. No.	Qty.	Description	Material
73-29-30	1	Rod Coupling	Gray Iron ASTM A126 Class B
73-29-31	2	Rod Coupling Pin & Clip Pin	Stainless Steel
73-29-45	1	Breakable Flange	Gray Iron ASTM A126 Class B
73-30-03	1	Hydrant Spring	Stainless Steel
73-30-04	1	Spring Plate	Stainless Steel
73-30-06	1	Travel Stop Nut	Bronze ASTM B283 UNS C37700
73-30-07	1	Spring Plate Pin	Stainless Steel
73-30-11	1	Upper Rod	Steel
73-30-12	1	Lower Rod	Steel
73-31	1	Drain Lever	Bronze ASTM B584 UNS C92200
73-35-02	1	Hydrant Seat	Bronze ASTM B584 UNS C92200
73-36-1	2	Seat O-Ring	Buna N
73-37	1	Drain Ring	Bronze ASTM B763 UNS C87600
73-38	2	Drain Ring Gasket	Composition Rubber
73-38-1	1	Barrel Gasket	EPDM Rubber
73-39	8	Base Bolts & Nuts	0304 Stainless Steel
73-39-9	8	Barrel Bolts & Nuts	See Note 3
73-40	1	Valve Top	Ductile Iron ASTM A536 Grade 65-45-12
73-40-4	1	Valve Top Clevis & Clip Pin	Stainless Steel
73-41	1	Hydrant Valve	EPDM Rubber
73-42	1	Valve Bottom	Ductile Iron ASTM A536 Grade 65-45-12
73-46-2	1	Flanged Base	Ductile Iron ASTM A536 Grade 65-45-12
73-46-2A	1	Flanged Vertical Entry Base	Ductile Iron ASTM A536 Grade 65-45-12
73-46-5	1	Mechanical Joint Base	Ductile Iron ASTM A536 Grade 65-45-12
73-46-PE	1	Mechanical Joint Plain End Base	Ductile Iron ASTM A536 Grade 65-45-12
73-46-TY	1	TYTON® Base	Ductile Iron ASTM A536 Grade 65-45-12
73-144	1	Weather Shield	Rubber
73-145	1	Rod Sleeve	Bronze
73-146	2	Rod Sleeve O-Ring	Buna N

Hydrants are furnished as "Draining" unless optional "Non-Draining" Configuration is otherwise noted below.

Optional "Non-Draining" Configuration required

Open Direction Left(C.C.W.) Right(C.W.)



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*National Standard and other common cap configurations are constructed of ASTM A536 Grade 65-45-12 ductile iron. Other offerings may be constructed of ASTM A126 Class B gray cast iron.

Available Bases

SIZE	HM	JM	KM	LM	HOLES	
					NO.	SIZE
4	8.50	2.50	4.91	7.50	4	7/8
6	8.50	2.50	7.03	9.50	6	7/8
8	10.25	2.50	9.18	11.75	6	7/8

MECHANICAL JOINT BASE

6" TYTON® BASE WITH LUGS
TYTON® is a registered trademark of United States Pipe and Foundry Co., LLC.

SIZE	A	B	C	D	HOLES	
					NO.	SIZE
4	8.00	9.00	0.94	7.50	8	3/4
6	8.50	11.00	1.00	9.50	8	7/8

FLANGED BASE

6" PLAIN END W/INTEGRAL
MJ GLAND BASE

IL1473-2

AVAILABLE NOZZLE ARRANGEMENTS

2 HOSE
1 PUMPER

2 HOSE
90 DEGREES
APART

1 PUMPER

91-21350

6" FLANGED VERTICAL ENTRY BASE



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