

# Hydrants D-10

# American-Darling B-62-B-5



American Flow Control's American-Darling B-62-B-5 hydrant incorporates over 80 years in design, manufacture, and field experience. This means dependable and efficient operation when needed. Introduced in 1962, the B-62-B-5 hydrant is rated at 200 p.s.i.g. and seat tested at 400 p.s.i.g. This hydrant meets and exceeds all requirements of AWWA C502 for dry-barrel hydrants. The B-62-B-5 hydrant is loaded with the features you expect from a high quality fire hydrant. The all bronze seat and bronze drain ring assure that the B-62-B-5 hydrant is easily repaired by just one person.

## Standard Features:

- Travel stop located in top of hydrant
- Bronze-to-bronze seating
- Positive compression, spring-loaded multiport drains
- Lower valve ball is epoxy coated
- Short, lightweight, disassembly wrench
- Easy 360° rotation of nozzle section
- Centrifugally cast high-strength ductile iron barrels
- Ductile iron 6" base with epoxy-coating
- Sealed lubrication chamber
- Double O-ring protected bronze valve seat

## Benefits:

- Spring-Loaded Multiport Drains — Three drain ports and four drain outlets are standard features on the B-62-B-5 hydrant. The rod spring assures drains close after only three turns of the rod. This important safety feature prevents wash-outs that can happen on hydrant designs that do not have this important feature.

- **Sealed Lubrication Chamber** — Seals operating threads from grit and moisture and reduces maintenance.
- **Top Travel Stop Nut** — Helps prevent stem buckling and damage to bronze components which may occur if excessive torque is applied in the full open position.

## Specifications:

Fire hydrants shall meet or exceed AWWA C502, latest revision. Rated working pressure shall be 200 p.s.i.g., test pressure shall be 400 p.s.i.g. and hydrants shall include the following specific design criteria: The main valve closure shall be of the compression type, opening against the pressure and closing with the pressure. Traffic feature to be designed for easy 360° rotation of nozzle section during field installation. There shall be a sealed lubrication chamber with triple O-rings to seal operating threads from the waterway and accommodate an anti-friction thrust washer. The main valve opening shall not be less than 5¼" and be designed so that removal of all working parts can be accomplished without excavating. The bronze seat shall be threaded into mating threads of bronze for easy field repair. The draining system of the hydrant shall be bronze and be 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 three internal ports and four drain port outlets to the exterior of the hydrant. Drain shutoff to be by direct compression closure. Friction loss not to exceed 3.5 p.s.i.g. at 1000 gpm through 4½" pumper nozzle. Hydrants shall be American Flow Control's American-Darling B-62-B-5.

BURY	DIR. TO OPEN	PRODUCT NUMBER	
		HYDRANT W/DRAIN	HYDRANT L/DRAIN
5' 0"	OL	42691 1 WD	42691 1 ND
5' 6"	OL	42691 2 WD	42691 2 ND
6' 0"	OL	42691 3 WD	42691 3 ND
6' 6"	OL	42691 4 WD	42691 4 ND
7' 0"	OL	42691 5 WD	42691 5 ND
7' 6"	OL	42691 6 WD	42691 6 ND
5' 0"	OR	42696 WD	42696 ND
5' 6"	OR	42697 WD	42697 ND
6' 0"	OR	42697 1 WD	42697 1 ND
6' 6"	OR	42697 2 WD	42697 2 ND
7' 0"	OR	42697 3 WD	42697 3 ND
7' 6"	OR	42697 4 WD	42697 4 ND

WD — With drains open

ND — With drains plugged

\* Hydrants listed are with 1½" Pentagon operating nut and 2-2½" Hose nozzles and 1-4½" Pumper nozzle all NST (national standard).

**NOTE:** Demonstration trailer and training tapes are available. Please call your local Team EJP sales office for more information.

# Hydrants D-11

# American-Darling B-62-B-5



## 5 1/4" B-62-B Fire Hydrant Construction

### PIPE PLUG

Provides access to lubrication chamber. Pipe plug can be replaced with lubricating fitting to lubricate the rod threads and thrust washers.

### OPERATING NUT

Cast one piece bronze operating nut. Design of the operating thread permits slow closing of the hydrant valve, reducing the possibility of water hammer.

### O-RINGS

Seal lubrication chamber, assure dry-top hydrant, reduce friction, prevent water from reaching the operating mechanism.

### HYDRANT ROD

Furnished in two sections of high tensile steel. Upper section has bronze sleeve where it passes through O-rings. Upper and lower sections are connected by cast iron coupling using stainless steel pins.

### BASE BOLTS AND NUTS

Are stainless steel for corrosion resistance.

### HYDRANT SEAT

Made of bronze, with accurately machined seat for hydrant valve with (3) drain ports.

### HYDRANT VALVE

Consists of a cast iron valve top and valve bottom and hydrant valve rubber. Rod threads are permanently sealed from contact with water. Hydrant valve seals against the bronze hydrant seat.

### DUCTILE BASE

Spherical-shaped base has no projections or cavities to obstruct flow or collect sediment.

### WEATHER COVER

(cast iron with rubber weather shield) The word "open" and an arrow show direction to turn the operating nut. The rubber weather shield prevents water and debris from entering the housing area.

### HOUSING AND HOUSING COVER

Retain operating nut and thrust washer. Rugged construction withstands operating forces.

### THRUST WASHER

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

### TOP TRAVEL STOP NUT

Provides a positive limit to main rod travel. Eliminates contact of valve bottom with interior of base, thereby protecting coating.

### UPPER BARREL

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

### TRAFFIC FEATURE

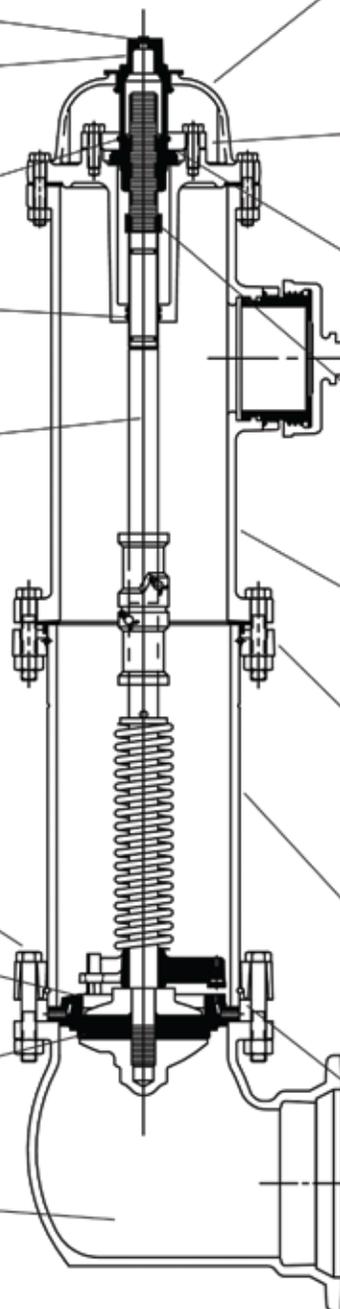
Upper barrel is connected to lower barrel with breakable traffic flange and 8 bolts and nuts. This feature allows 360° rotation of upper nozzle section.

### LOWER BARREL

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

### BRONZE DRAIN RING

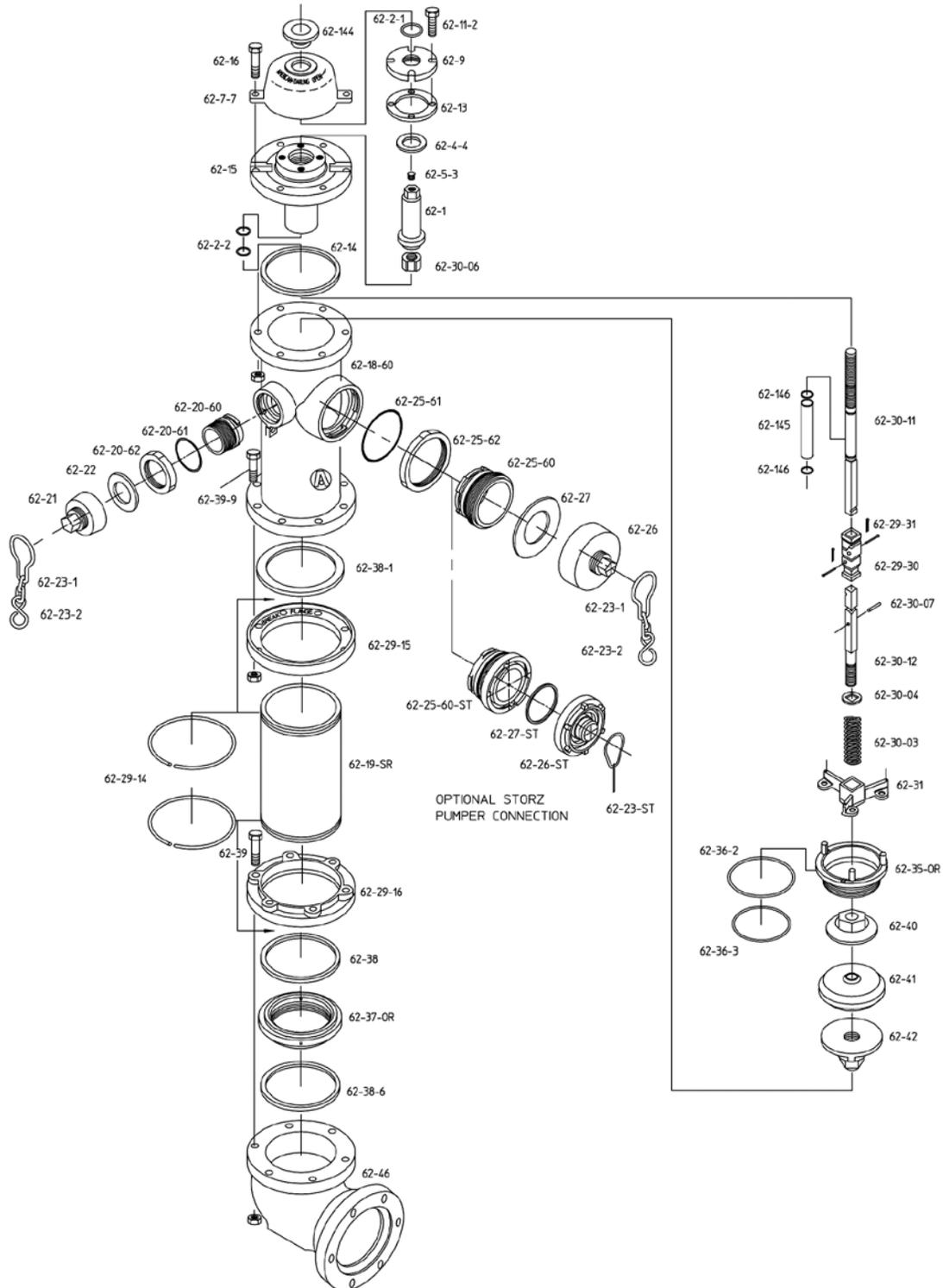
Securely held between barrel and base flange, provides bronze-to-bronze threaded connection for hydrant seat. Serves as non-corrosive multipoint (4) drain channel.



# Hydrants D-12

# American-Darling B-62-B-5

## 5 1/4" B-62-B Fire Parts Illustration



# Hydrants D-13

# American- Darling B-62-B-5



## How to Order Parts

The part number shown should be prefixed by the following numbers to designate the size and model of hydrant:

54 for 5¼" valve opening

62 for Model B-62-B

EXAMPLE: 5¼" Operating Nut - 54-62-1

### NOTES:

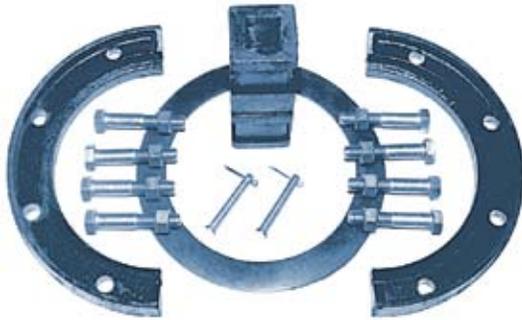
1. Size and shape of nut on operating nut and cap, threading on nozzles and caps, and the direction of opening made to specifications.
2. Cap chains are not furnished unless specified.
3. All gray iron is ASTM A126 class B.
4. Bolts and nuts are rustproofed steel ASTM
5. A307 in accordance with AWWA C502.
6. Working pressure 200 p.s.i.g., test pressure 400 p.s.i.g.
7. Hydrant conforms to AWWA Standard C502.
8. Upper barrel can be rotated 360°.
9. Factory Mutual Approved and Underwriters Laboratories Listed at 200 p.s.i.g. in allowable configurations.
10. Bronze in contact with water contains less than 16 percent zinc.
11. 6-inch mechanical joint base is ductile iron.
12. Nominal turns to open is 22.

PART NO.	QTY	DESCRIPTION	MATERIAL	PRODUCT NUMBER
62-1	1	Operating Nut OR	Bronze	42700 07
62-1	1	Operating Nut OL	Bronze	42700 06
62-2-1	1	Cover O-ring	Buna-N	42700 11
62-2-2	2	Housing O-ring	Buna-N	42700 12
62-4-4	1	Thrust Washer	Nylatron	42700 13
62-5-3	1	Pipe Plug	Stainless Steel	42700 14
62-7-7	1	Weather Cover OR	Gray Iron	42700 151
62-7-7	1	Weather Cover OL	Gray Iron	42700 152
62-9	1	Housing Cover	Gray Iron	42700 161
62-11-2	4	Housing Cover Cap Screw	See Note 4	42700 16
62-13	1	Housing Cover Gasket	Fiber	42700 09
62-14	1	Housing Gasket	Composition Rubber	42700 08
62-15	1	Housing	Ductile Iron	42700 17
62-16	6	Housing Bolt and Nut	See Note 4	42700 18
62-18-60	1	Upper Barrel w/Pumper	Ductile Iron	42700 191
62-19-SR	1	Lower Barrel	Ductile Iron	42700 20
62-20-60	2	Hose Nozzle	Bronze (See Note 10)	42700 215
62-20-61	2	Hose Nozzle O-ring	Buna-N	42701 2
62-20-62	2	Hose Nozzle Retainer	Ductile Iron	42700 216
62-20-63	2	Hose Nozzle Washer	Teflon	42700 217
62-21	2	Hose Cap	Gray Iron	42700 22
62-22	2	Hose Cap Gasket	Rubber	42700 23
62-23-1	1 Per Nozzle	Hose Cap Chain	Steel	42700 24
62-23-2	1 Per Nozzle	Cap Chain S-Hook	Steel	42700 241
62-25-60	1 or 0	Pumper Nozzle	Bronze (See Note 10)	42700 261
62-25-61	1 Per Nozzle	Pumper Nozzle O-ring	Buna-N	42700 271
62-25-62	1 Per Nozzle	Pumper Nozzle Retainer	Ductile Iron	42700 272
62-25-63	1 Per Nozzle	Pumper Nozzle Washer	Teflon	42700 273
62-26	1 Per Nozzle	Pumper Cap	Gray Iron	42700 28
62-27	1 Per Nozzle	Pumper Cap Gasket	Rubber	42700 29
62-29-14	2	Snap Ring	Steel	42700 30
62-29-15	1	Breakable Flange	Gray Iron	42700 31
62-29-16	1	Base Flange	Ductile Iron	42700 32
62-29-30	1	Rod Coupling Breakable	Gray Iron	42700 04
62-29-31	2	Rod Cplg. and Clip Pins	Stainless/Bronze	42700 05
62-30-03	1	Hydrant Spring	Spring Steel	42700 33
62-30-04	1	Spring Plate	Steel	42700 34
62-30-06	1	Travel Stop Nut OL	Bronze (See Note 10)	42700 03
62-30-06	1	Travel Stop Nut OR	Bronze (See Note 10)	42700 10
62-30-07	1	Spring Plate Pin	Steel	42700 35
62-30-11	1	Upper Hydrant Rod OR	Steel	42700 361
62-30-11	1	Upper Hydrant Rod OL	Steel	42700 362
62-30-12	1	Lower Hydrant Rod	Steel	42700 37
62-31	1	Drain Lever	Bronze (See Note 10)	42700 38
62-33	3	Drain Lever Washer	Rubber	42700 39
62-34	3	Drain Lever Rivet	Brass	42700 40
62-35-OR	1	Hydrant Seat Solid	Bronze (See Note 10)	42700 41LD
62-35-OR	1	Hydrant Seat Draining	Bronze (See Note 10)	42700 41WD
62-36-2	1	Seat O-ring-Outside	Buna-N	42700 42
62-36-3	1	Seat O-ring-Inside	Buna-N	42700 43
62-37-OR	1	Drain Ring	Bronze (See Note 10)	42700 44
62-38	1	Drain Ring Gasket	Composition Rubber	42700 45
62-38-1	1	Barrel Gasket	Composition Rubber	42700 46
62-38-6	1	Base Gasket	Composition Rubber	42700 47
62-39	8	Base SS Bolt and Nut	Stainless Steel	42700 48
62-39-9	8	Barrel Bolt and Nut	See Note 4	42700 49
62-40	1	Hydrant Valve Top	Gray Iron	42700 50
62-41	1	Hydrant Valve	Rubber	42700 01
62-42	1	Hydrant Valve Bottom	Ductile Iron	42700 02
62-46-5	1	6 Mechanical Joint Base	Ductile Iron	42700 51
62-144	1	Weather Shield	Rubber	42700 52
62-147	1	Seat Wrench	Cast Iron	42700 62

# Hydrants D-14

# American-Darling B-62-B-5

## B-62-B Break Repair Kit



The B-62-B Break Repair Kit makes it a quick and simple job to repair a hydrant that has been damaged by traffic. This kit contains all the parts needed to replace those parts designed to break away upon impact from a vehicle.

DESCRIPTION	PRODUCT NUMBER
B-62-B Hyd. Break Repair Kit (1985)	42716
B-62-B Hyd. Break Repair Kit (1986)	42715
B-62-B QF Hyd. Break Repair Kit	42717

## B-62-B Traffic Model Top Extension Kit



The 5¼" B-62-B hydrant is extended at the barrel flange above the ground line, eliminating any need for excavation. The B-62-B Top Extension Kit includes all parts necessary to extend the hydrant.

DESCRIPTION	PRODUCT NUMBER
6" B-62-B Hydrant Top Extension	42698
12" B-62-B Hydrant Top Extension	42699
18" B-62-B Hydrant Top Extension	42699 3
24" B-62-B Hydrant Top Extension	42699 5

### NOTES:

- Longer extension barrels are available by special order. Contact your local Team EJP sales office for price and availability.
- When extending hydrants, the existing breakable coupling must be moved to the top of the new extension barrel to maintain traffic feature.