American-Darling B-84-B-5





American Flow Control's American-Darling 51/4" B-84-B-5 hydrant incorporates more than 80 years of experience in design, manufacture, and field experience. This means dependable and efficient operation when needed. Introduced in 1984, the B-84-B-5 hydrant is rated at 250 p.s.i.g. and is seat tested at 500 p.s.i.g. This hydrant meets or exceeds all requirements of AWWA C502 for dry-barrel hydrants. The B-84-B-5 hydrant is loaded with the features you expect from a high-quality fire hydrant. The all bronze seat and drain ring ensure that the B-84-B-5 hydrant is easily repaired by just one person.

Features:

- Positive compression, fast-closing drains
- Travel stop located in top of hydrant
- Bronze-to-bronze seating
- Short, lightweight, disassembly wrench
- Easy 360° rotation of nozzle section
- All bases are epoxy-coated ductile iron
- Centrifugally cast, high-strength ductile iron lower and upper barrel
- · Sealed lubrication chamber
- Lower valve ball is epoxy coated

Benefits:

Spring-Loaded Multiport Drains — There are two
drain ports and four drain outlets as a standard feature
on the B-84-B-5 hydrant. The rod spring assures drains
close after approximately three turns of the operating
nut. 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 water and debris which greatly reduces routine 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 250 p.s.i.g., test pressure shall be 500 p.s.i.g., 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 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. 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 drain port outlets to the exterior of the hydrant. Drain shutoff to be by direct compression closure. Hydrant barrels shall be made of centrifugally cast ductile iron. Friction loss not to exceed 3.0 p.s.i.g. at 1000 gpm through 4½" pumper nozzle. Hydrants shall be equal to American Flow Control's American- Darling 5¹/₄" B-84-B-5.

BURY	DIR. TO OPEN	PRODUCT NUMBER		
		HYDRANT W/DRAIN	HYDRANT L/DRAIN	
5' 0"	OL	42682 WD	42682 ND	
5' 6"	OL	42682 1 WD	42682 1 ND	
6' 0"	OL	42681 2 WD	42681 2 ND	
6' 6"	OL	42681 3 WD	42681 3 ND	
7' 0"	OL	42681 4 WD	42681 4 ND	
7' 6"	OL	42681 5 WD	42681 5 ND	
5' 0"	OR	42684 WD	42684 ND	
5' 6"	OR	42684 1 WD	42684 1 ND	
6' 0"	OR	42684 2 WD	42684 2 ND	
6' 6"	OR	42684 3 WD	42684 3 ND	
7' 0"	OR	42684 4 WD	42684 4 ND	
7' 6"	OR	42684 5 WD	42684 5 ND	

WD — With drains open

ND — With drains plugged

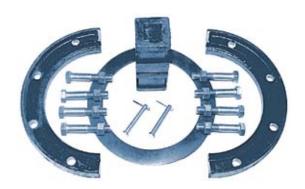
* Hydrants listed are with $1\frac{1}{2}$ " Pentagon operating nut and $2-2\frac{1}{2}$ " Hose nozzles and $1-4\frac{1}{2}$ " Pumper nozzle all NST (national standard).

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

American-Darling B-84-B-5



B-84-B-5 Break Repair Kit



The B-84-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-84-B Hydrant Break Repair Kit	42714	

B-84-B-5 Top Extension Kit



The 5¼" B-84-B hydrant is extended at the barrel flange above the ground line, eliminating any need for excavation. The B-84-B Top Extension Kit (for traffic model hydrants) includes all parts necessary to extend the hydrant.

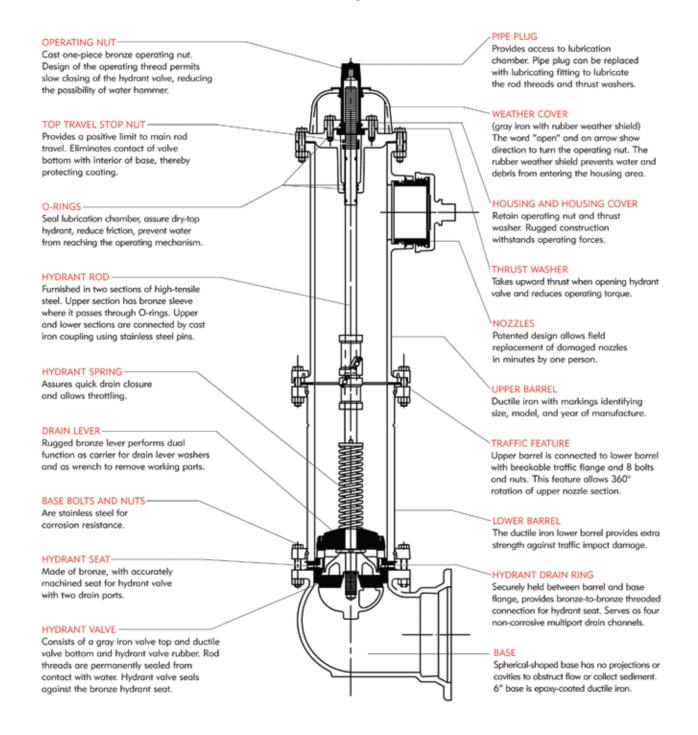
DESCRIPTION	PRODUCT NUMBER
6" B-84-B Hydrant Top Extension	42720
12" B-84-B Hydrant Top Extension	42720 1
18" B-84-B Hydrant Top Extension	42720 2
24" B-84-B Hydrant Top Extension	42720 3

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.

American-Darling B-84-B-5

51/4" B-84-B-5 Fire Hydrant Construction



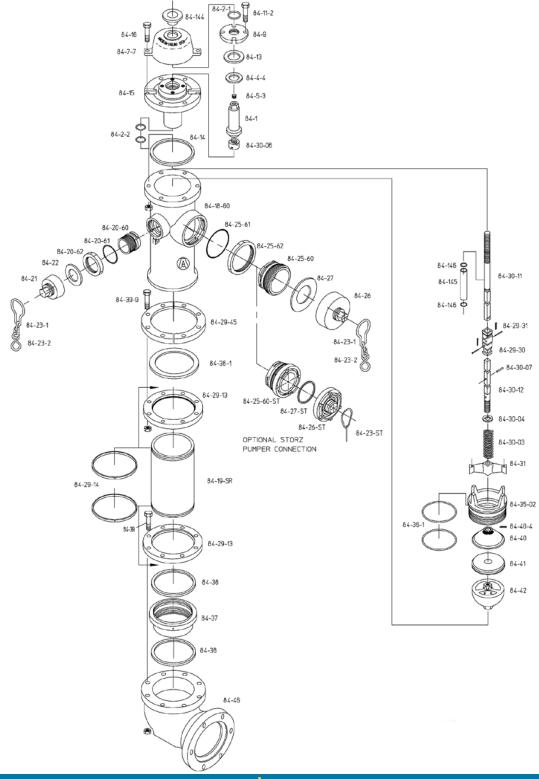
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American-Darling B-84-B-5



B-84-B-5 Parts Illustration



American-Darling B-84-B-5

Parts List For 51/4" B-84-B-5 Fire Hydrant

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 $5\frac{1}{4}$ " valve opening 45 for $4\frac{1}{2}$ " valve opening

EXAMPLE:

51/4" Operating Nut — 54-84-1

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 not furnished unless specified.
- 3. All gray iron is ASTM A126 class B.
- Bolts and nuts are rustproofed steel ASTMA307 in accordance with AWWA C502.
- 5. Working pressure 250 psig, test pressure 500 psig.
- Hydrant conforms to AWWA Standard C502.
- 7. Upper barrel can be rotated 360°.
- Factory Mutual Approved and Underwriters Laboratories Listed at 200 psig in allowable configurations.
- 9. Bronze in contact with water contains less than 16% zinc.
- 10. 6" Mechanical joint base is ductile iron.
- 11. Nominal turns to open is 191/2.

PART NO.	QTY	DESCRIPTION	MATERIAL	PRODUCT NUMBER
84-1	1	Operating Nut OR	Bronze	42718 02
84-1	1	Operating Nut OL	Bronze	42718 01
84-2-1	1	Cover O-ring	Buna-N	42718 03
84-2-2	2	Housing O-ring	Buna-N	42718 04
84-4-4	1	Thrust Washer	Nylatron	42718 05
84-5-3	1	Pipe Plug	Stainless Steel	42718 06
84-7-7	1	Weather Cover OL	Gray Iron	42718 071
84-7-7	1	Weather Cover OR	Cast Iron	42718 072
84-9	1	Housing Cover OR-OL	Gray Iron	42718 10
84-11-2	4	Housing Cover Cap Screw	See Note 4	42718 11
84-13	1	Housing Cover Gasket	Fiber	42718 08
84-14	1	Housing Gasket	Composition Rubber	42718 09
84-15	1	Housing Dala and Nat	Ductile Iron	42718 12
84-16 84-18-60	1	Housing Bolt and Nut Upper Barrel w/Steamer	See Note 4 Ductile Iron	42718 13 42718 141
84-19-SR	1	Lower Barrel	Ductile Iron	42718 141
84-20-60	2	2½" Hose Nozzle NST	Bronze (See Note 9)	42718 151
84-20-61	2	Hose Nozzle O-Ring	Buna-N	42718 161
84-20-62	2	Hose Nozzle Retainer	Ductile Iron	42718 162
84-20-63	2	Hose Nozzle Washer	Teflon	42718 163
84-21	2	Hose Cap	Gray Iron	42718 18
84-22	2	Hose Cap Gasket	Rubber	42718 19
84-23-1	1 Per Nozzle	Nozzle Cap Chain	Steel	42700 24
84-23-2		Cap Chain S-Hook	Steel	42700 241
84-25-60	1 or 0	Pumper Nozzle	Bronze (See Note 9)	42718 221
84-25-61	1 Per Nozzle	Pumper Nozzle O-Ring	Buna-N	42718 201
84-25-62	1 Per Nozzle	Pumper Nozzle Retainer	Ductile Iron	42718 202
84-25-63	1 Per Nozzle	Pumper Nozzle Washer	Teflon	42718 203
84-26	1 Per Nozzle	Pumper Cap	Gray Iron	42718 23
84-27	1 Per Nozzle	Pumper Cap Gasket	Rubber	42718 241
84-29-13	2	Non-Breakable Flange	Ductile Iron	42718 25
84-29-14	2	Snap Ring	Stainless Steel	42718 26
84-29-30	1	Break Rod Coupling	Gray Iron	42718 27
84-29-31	2	Rod Cplg. Pin and Clip Pins	Stainless/Bronze	42718 28
84-29-45	1	Breakable Barrel Flange	Gray Iron	42718 29
84-30-03	1	Hydrant Spring	Spring Steel	42718 30
84-30-04	1	Spring Plate	Steel Bronze (See Note 9)	42718 31
84-30-06 84-30-06	1	Travel Stop Nut OL Travel Stop Nut OR	Bronze (See Note 9) Bronze (See Note 9)	42718 38 42718 39
84-30-07	1	Spring Plate Pin	Steel	42718 40
84-30-07	1	Upper Hydrant Rod OR	Steel	42718 41
84-30-11	1	Upper Hydrant Rod OL	Steel	42718 411
84-30-12	1	Lower Hydrant Rod	Steel	42718 42
84-31	1	Drain Lever	Bronze (See Note 9)	42718 43
84-33	2	Drain Lever Washer	Rubber	42718 44
84-34	2	Drain Lever Rivet	Brass	42718 45
84-35-02	1	Hydrant Seat Solid	Bronze (See Note 9)	42718 46LD
84-35-02	1	Hydrant Seat Draining	Bronze (See Note 9)	42718 46WD
84-36-1	2	Seat O-ring	Buna-N	42718 47
84-37	1	Drain Ring	Bronze (See Note 9)	42718 48
84-38	2	Drain Ring Gasket	Composition Rubber	42718 49
84-38-1	1	Barrel Gasket	Composition Rubber	42718 52
84-39	8	Base Bolt and Nut	Stainless Steel	42718 53
84-39-9	8	Barrel Bolt and Nut	See Note 4	42718 54
84-40	1	Hydrant Valve Top	Gray Iron	42718 55
84-40-4	1	Cotter Pin	Stainless Steel	42718 551
84-41	1	Hydrant Valve	Rubber	42718 50
84-42	1	Hydrant Valve Bottom	Ductile Iron	42718 51
84-46-5	1	6" Mechanical Joint Base	Ductile Iron	42718 56
84-144	1	Weather Shield	Rubber	42718 57
84-147	1	Seat Wrench	Cast Iron	42718 60
84-149	1	Hose Nozzle Wrench	Cast Iron	42718 601
84-150	1	Pumper Nozzle Wrench	Cast Iron	42718 602

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