

## 4-1/2" AMERICAN-DARLING® MARK 73-5 PARTS LIST



Part 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	Composition 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 O-ring 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 8
73-22	2	Hose Cap Gasket	Rubber
73-23-1	1 Per Nozzle	Hose Cap Chain	Steel
73-23-2	1 Per Nozzle	S Hook	Steel
73-23-18	1 Per Nozzle	Pumper Cap Chain	Steel
73-25-60	1 or 0	Pumper Nozzle	Bronze
73-25-61	1 Per Nozzle	Pumper Nozzle O-ring Seal	Buna N
73-25-62	1 Per Nozzle	Pumper Nozzle Retainer	Ductile Iron
73-25-63	1 Per Nozzle	Pumper Nozzle Retainer Washer	Teflon
73-26	1 Per Nozzle	Pumper Cap	See Note 8
73-27	1 Per Nozzle	Pumper 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	Epoxy Coated Gray Iron
73-29-31	2	Rod Coupling Pin and Clip Pin	Stainless Steel
73-29-45	1	Breakable Flange	Gray Iron
73-30-03	1	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 Rod	Steel
73-30-12	1	Lower Rod	Steel
73-31	1	Drain Lever	Bronze
73-35-02	1	Hydrant Seat	Bronze
73-36-1	2	Hydrant 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	Composition Rubber
73-39	8	Base Bolt and Nut	Stainless Steel

# 4-1/2" AMERICAN-DARLING® MARK 73-5 REPAIR INSTRUCTIONS



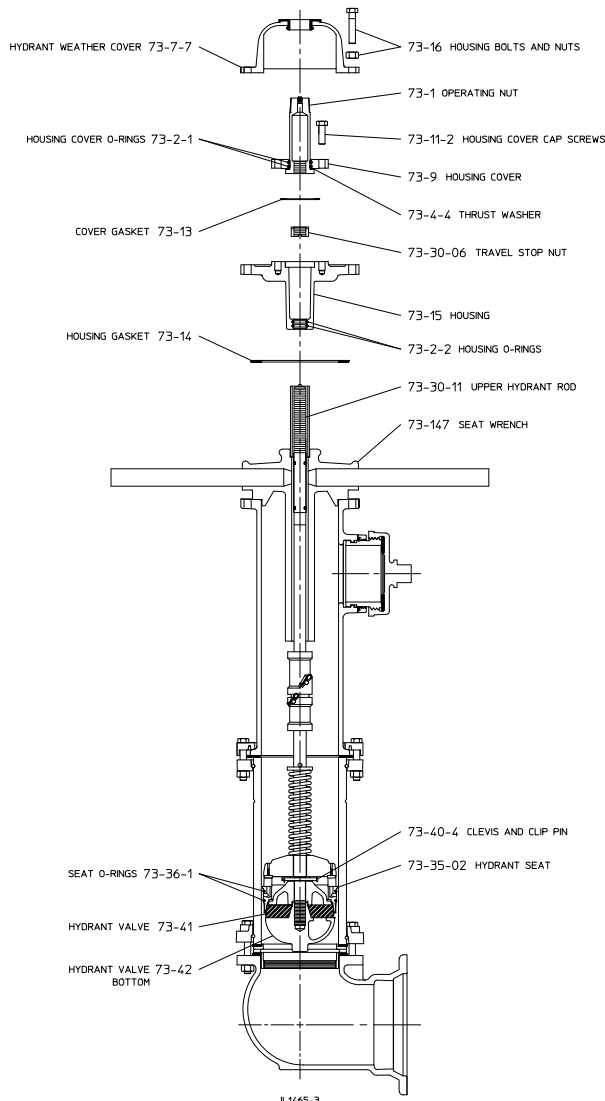
## Disassembling the Hydrant

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**WARNING:** Special care should be taken in the installation, inspection and repair of pressure containing devices such as valves and hydrants. **FAILURE TO FOLLOW PROPER PRACTICE AND GUIDELINES CAN RESULT IN SERIOUS INJURY OR DEATH.** High pressure and water hammer, due to rapid opening or closing of a hydrant or valve, can also cause major damage to the hydrant, valve, water main, fire hose, or other attached equipment.

### Removing Internal Parts

One person with hand tools and a lightweight seat wrench can quickly remove all the working parts, including hydrant valve, drain lever and hydrant seat. To repair, it is not necessary to excavate American-Darling hydrants; merely remove the internal parts.



### Directions for Removing Internal Parts of 4-1/2" AMERICAN-DARLING MARK 73-5 Hydrants

1. **Shut off water line leading to hydrant making sure the hydrant is not under pressure. FAILURE TO FOLLOW PROPER PRACTICE AND GUIDELINES CAN RESULT IN SERIOUS INJURY OR DEATH.**
2. Partially open hydrant valve to relieve trapped pressure.
3. Standing to the side of the hydrant and away from the direction of the hydrant cap(s), loosen one of the hose caps to relieve any pressure that may be present in the hydrant barrel. Close hydrant valve. From full open to full close takes approximately 17 1/2 turns.
4. Remove hydrant weather cover (73-7-7) with weather shield by removing two bolts and nuts (73-16).
5. Remove the four housing cover cap screws (73-11-2) on housing cover (73-9).
6. Unscrew and remove operating nut (73-1) from upper hydrant rod (73-30-11) together with housing cover (73-9) and thrust washer (73-4-4).
7. Use top of seat wrench to unscrew and remove travel stop nut (73-30-06).
8. Remove remaining housing bolts (73-16) then lift out housing (73-15). Inspect O-rings and replace if necessary. Special care must be taken to avoid damaging O-rings (73-2-2).
9. Place seat wrench over upper hydrant rod (73-30-11) and turn to the left (counterclockwise) to unscrew bronze hydrant seat (73-35-02) and lift out hydrant rod with completely assembled internal working parts attached, including hydrant seat, hydrant valve, drain lever and seat O-rings.

**NOTE:** When a supply of gaskets and O-rings are available, always install new ones when reassembling the hydrant. Clean dirt from O-ring grooves.