GENUINE PARTS CATALOG
2026 EDITION

Bertolini Valves

Water Truck Spray Valves



Makers of the Original B/Mc water truck spray valve, spray heads, water truck nozzles and equipment.

Original B/Mc Spray Valve · Water Truck Spray Heads · Made in USA since 1971

Shop genuine Bertolini parts

(650) 598-0225

MADE IN THE USA SINCE 1971

LEGACY

The B/Mc Valve

This water truck spray valve was designed by Herman Bertolini and has been manufactured in the USA continuously since 1971.

Model 71 B/Mc water truck spray valves are a simple, durable design, proven in use since 1971 — and honored by imitations.

Normally closed, this valve will not leak with loss of control pressure. An adjustable opening allows control of spray pattern and volume. A grooved inlet provides flexibility in mounting and positioning to achieve desired spray coverage.

Air actuated for most applications, with 12VDC or 24VDC control available for vehicles that do not have an air system.

B/Mc is pronounced "bee mack."

Two models, one valve body

Both models share one valve body and one wet-end rebuild kit. The difference is only how they are actuated.



A batch of assembled B/Mc spray valves on a workbench.

Valves are built, assembled and tested in Kelso, Washington.

WHY THE DESIGN LASTED

- **Normally Closed**

  Lose control pressure and the valve shuts, so the water stays in the tank.

- **Adjustable Opening**

  One valve covers a range of spray patterns and volumes.

- **Grooved Inlet**

  Mounts and clocks in whatever orientation the truck needs.

- **Four Wear Parts**

  Only four parts wear, so a worn valve only needs a rebuild kit, not a new valve.

Pneumatic

The standard valve for trucks with an onboard air system.

`03-001`

Electric

12VDC or 24VDC for vehicles with no air system. Same body, same kit.

`03-013` `03-015`

PRODUCTS — PNEUMATIC

Pneumatic Valve

03-001

Formerly the Bertolini 71A-3.

The standard B/Mc spray valve for water trucks with an onboard air system.

It mounts front, rear, driver or passenger side, and complete spray systems are available for all four positions. The valve is fitted with a quick exhaust valve, 03-011, whose own specifications are listed on this page.

The side spray nozzle bolts onto its outlet with no plumbing changes and no second valve. The valve body and wet-end rebuild kit are the same as the electric model's, so a mixed fleet stocks one kit.



B/Mc pneumatic spray valve, 03-001.

SPECIFICATIONS

Connection	3″ Grooved
Body material	Aluminum
Weight	10 lbs

COMMON SERVICE PARTS

PART	SKU
Rebuild kit (4 parts)	70-064
Quick exhaust — 1/8″	03-011
Lid	03-010
Lid clamp	03-004
Adjustable band	03-003
Valve body	03-012

Quick exhaust valve — 03-011, Bertolini 71-7.

Port size	1/8″ NPT
Working pressure	10–150 psi
Working temperature	0–160 °F
Body	Nickel-plated brass
Seal	Nylon
Piston	Polyurethane
Actuating force	Compressed air

Need the full parts drawing?

The large pneumatic drawing with every numbered callout is on page 5.

PRODUCTS — ELECTRIC

Electric Valve

03-013 03-015

Formerly the Bertolini 71E-3.

For vehicles with no air system. Same valve body and same wet-end rebuild kit as the pneumatic 03-001, actuated electrically instead.

VOLTAGE OPTIONS

CONFIG	SKU	COIL // BERTOLINI NO.
12VDC	03-013	03-016 — Bertolini 71-11C1
24VDC	03-015	03-018 — Bertolini 71-11C2

CONTROL COMPONENTS

PART	SKU	BERTOLINI
1/4″ brass solenoid valve	03-019	71-14
Brass strainer, 1/4″ x 1/8″	03-017	71-12

The strainer is not optional. The solenoid has a small opening and is the part that suffers first from debris in the supply.

COILS

The valve body and the coil are separate parts, which is why the voltage is chosen by coil rather than by valve. Coils are integrated, with 18″ leads, Class F. At 10 W the coil draws roughly 0.8 A at 12VDC or 0.4 A at 24VDC — size the circuit and switch accordingly.

SOLENOID SPECIFICATIONS

Type	3-way, direct acting, normally closed
Port size	1/4″ NPT female
Opening	3/32″ inlet and exhaust
Cv	0.24 inlet and exhaust
Operating pressure	0–100 psi on air
Max. media temperature	185 °F
Body	Brass
Seals	FKM
Coil power	10 W

Solenoid valve — 03-019, Bertolini 71-14.



B/Mc water truck spray valve on a white background, showing the cast lid, banded clamp and grooved inlet.

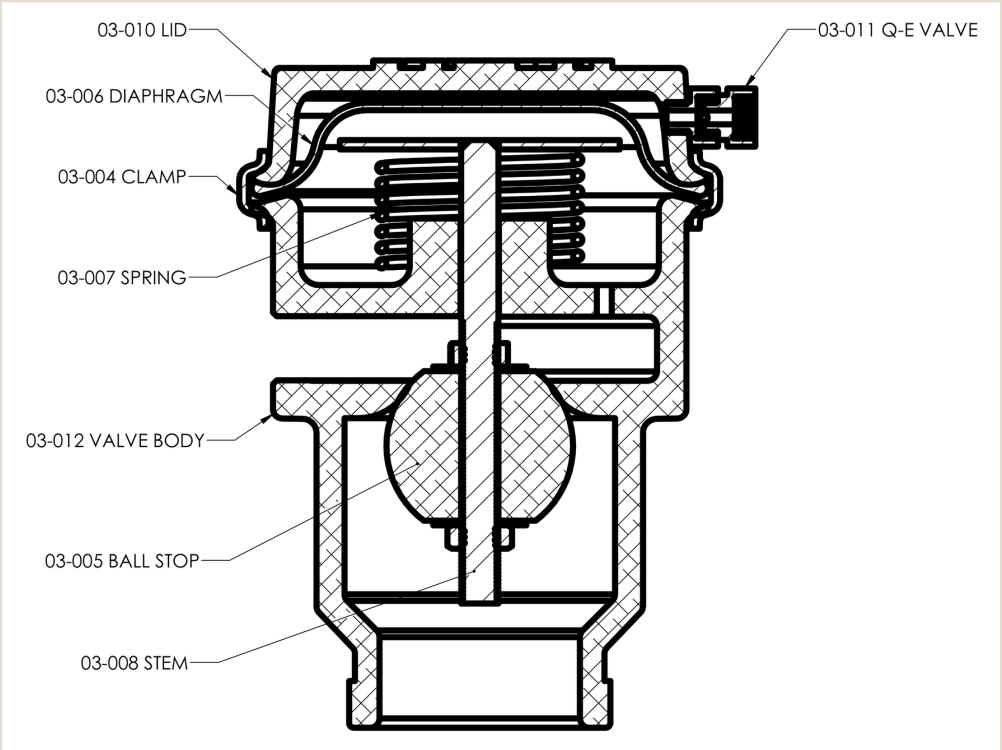
Need the full parts drawing?

The large electric drawing with every numbered callout is on page 5.

PARTS DRAWINGS

Full numbered callouts, Randco SKU — Bertolini no.

PNEUMATIC 03-001



Lid
03-010 · Bertolini 71-1

Diaphragm
03-006 · Bertolini 71-8

Clamp
03-004 · Bertolini 71-9

Spring
03-007 · Bertolini 71-5

Valve body
03-012 · Bertolini 71-2A

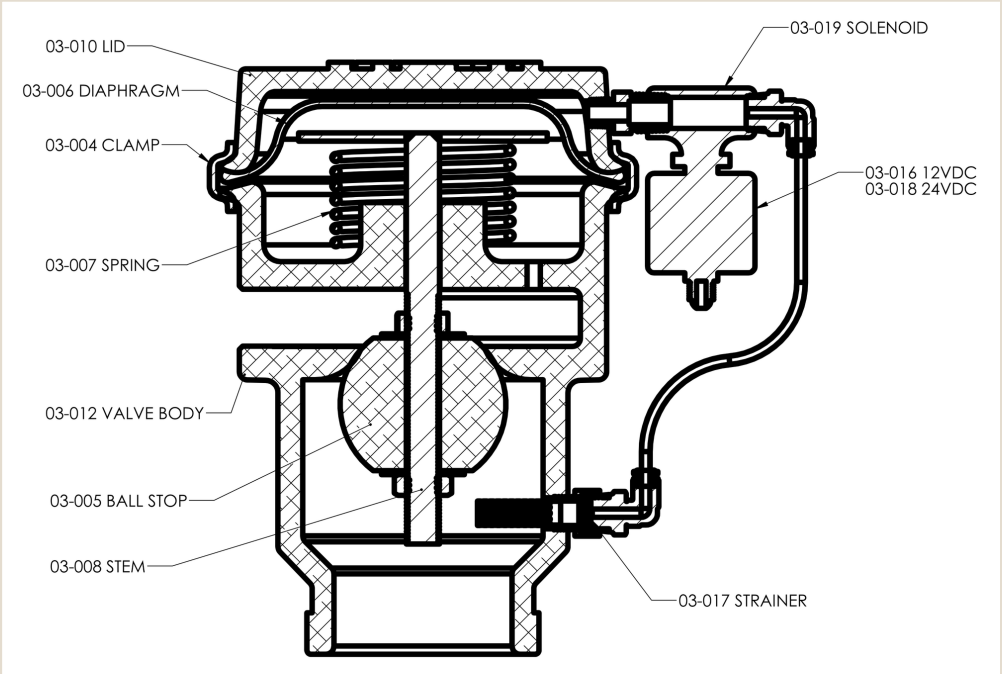
Ball stop
03-005 · Bertolini 71-4

Stem
03-008 · Bertolini 71-6

Q-E valve
03-011 · Bertolini 71-7

Adjustable band (not shown)
03-003 · Bertolini 71-3

ELECTRIC 03-013 / 03-015



Lid
03-010 · Bertolini 71-1

Diaphragm
03-006 · Bertolini 71-8

Clamp
03-004 · Bertolini 71-9

Spring
03-007 · Bertolini 71-5

Valve body
03-012 · Bertolini 71-2A

Ball stop
03-005 · Bertolini 71-4

Stem
03-008 · Bertolini 71-6

Solenoid
03-019 · Bertolini 71-14

Coil, 12VDC
03-016 · Bertolini 71-11C1

Coil, 24VDC
03-018 · Bertolini 71-11C2

Strainer
03-017 · Bertolini 71-12

Adjustable band (not shown)
03-003 · Bertolini 71-3

REBUILD KITS

Rebuild Kit

70-064

One kit covers both the air and electric B/Mc valves — the wet end is the same.

WHAT'S IN THE KIT — ITEMS 4, 5, 6, 8



Rubber Ball 03-005 Item 4



Diaphragm 03-006 Item 8



Spring 03-007 Item 5



Stem 03-008 Item 6

Kit 70-064 fits the pneumatic valve 03-001 and both electric valves, 03-013 (12V) and 03-015 (24V). The wet end is common across all three, so there is no need to specify which valve you are rebuilding when you order.

WHEN TO REBUILD

Weeping when closed
Usually the ball or the diaphragm.

Slow to close
Commonly the spring, or exhaust restriction.

Will not seal at all
Inspect the seat before assuming the kit will fix it.

Rebuild when the valve body and seat are sound and the complaint is weeping, slow closing or poor sealing. Replace the valve when the body is cracked, the seat is scored, or the threads are damaged. A new kit fitted into a damaged body will weep again.

NOT INCLUDED IN THE KIT

The kit covers the four parts that wear in normal service. It does not include the valve body 03-012, the lid 03-010 or lid clamp 03-004, the coil (03-016 or 03-018), or the strainer 03-017. Those fail from damage or electrical fault rather than wear, and are ordered individually.

WHILE YOU HAVE IT APART

— Inspect the seat before fitting anything new — a damaged seat will defeat a fresh kit

— Check the lid and clamp for distortion

— On air valves, clear the quick exhaust 03-011 while access is easy

— On electric valves, check the strainer 03-017 at the same time

ALSO FITS EVERY B/MC VALVE

Side Spray Nozzle

The side spray nozzle bolts onto the outlet of a B/Mc spray valve and turns a front or rear spray into a side spray or street flusher. It is a banded clamp with a flat deflector plate, so it fits the same grooved outlet the valve already has — no plumbing changes and no second valve.



GUIDES & TROUBLESHOOTING

Field Guide

Most B/Mc valve complaints come down to one of four things: the wet end needs a rebuild, the exhaust is restricted, the coil is getting the wrong voltage, or the strainer is blocked. Confirm which before ordering parts — a rebuild kit will not fix an electrical fault, and a new coil will not fix a worn seat.

SYMPTOM	LIKELY CAUSE / WHAT TO CHECK
Valve weeps when closed	Most often the rubber ball or the diaphragm (both in the rebuild kit). Inspect the seat while it is apart.
Valve is slow to close	On air valves, check the quick exhaust (03-011) before condemning the spring — a restricted exhaust makes a healthy valve look tired.
Valve will not open (air)	Check supply pressure at the valve, then confirm the quick exhaust 03-011 is clear. If air reaches the valve and it still will not lift, the diaphragm 03-006 is the usual cause.
Electric valve will not actuate	Confirm coil voltage matches the truck — 03-016 is 12V, 03-018 is 24V. Then check the strainer 03-017; a blocked strainer starves the solenoid.
Water leaking around the lid	Check that the lid clamp 03-004 is seated square and fully tightened first. If it is, check the urethane washer 03-027. A distorted lid 03-010 will not seal no matter what sits underneath it.
Side spray not working	The side spray attachment 03-002 has its own gasket 03-014. If the main spray works and the side does not, start with that gasket.
Adjusting spray pattern	Pattern and volume are set at the adjustable Bertolini band.

PART NUMBER CROSS-REFERENCE

Current stocking numbers, with the original Bertolini number where one applies.

SKU	PART	BERTOLINI NO.
03-001	3″ Bertolini Valve — Pneumatic	71A-3
03-013	3″ Bertolini Valve — Electric, 12V	71E-3
03-015	3″ Bertolini Valve — Electric, 24V	71E-3
03-012	Bertolini Valve Body	—
03-010	Lid // Bertolini	—
03-004	Lid Clamp // Bertolini	—
03-003	Adjustable Band // Bertolini	—
03-005	Rubber Ball // Bertolini	—
03-006	Diaphragm // Bertolini	—
03-007	Spring // Bertolini	—

SKU	PART	BERTOLINI NO.
03-008	Stem // Bertolini	—
03-002	Bertolini Side Spray Attachment	—
03-014	Bertolini Side Spray Gasket	—
03-011	Quick Exhaust — 1/8″	—
03-009	Inline Quick Exhaust	—
03-016	12V Coil	71-11C1
03-018	24V Coil	71-11C2
03-017	Brass Strainer, 1/4″ x 1/8″	71-12
03-019	1/4″ Brass Solenoid Valve	71-14
03-027	Urethane Washer	—

Bertolini Valves

CONTACT

(650) 598-0225

Use the phone for anything urgent, or when a truck is down. Use the form for sizing, compatibility, unusual applications, or anything you want to attach detail to — it reaches the same parts desk and nothing is lost.

BEFORE YOU CALL

— Air or electric, and the voltage if electric

— The Randco part number if you have it

— What the valve is doing now, and when it changed

— Where it sits on the truck

Previously at 1408 Old County Rd. Belmont, CA &
850 Airport St. #7A — Moss Beach, CA

HOW TO ORDER

Genuine Bertolini parts are sold through Randco Tanks in Kelso, Washington.

— 3″ B/Mc valve — pneumatic (03-001)

— Side spray nozzle — converts a front or rear spray to side spray

— Rebuild kit (70-064)

— Complete spray systems — front, rear, driver and passenger side

B/Mc valves have been made in the USA since 1971. Parts sold through Randco are the genuine article, built to the same pattern as the originals, so a rebuild kit bought today fits a valve that has been on a truck for years.

Order genuine parts

Pricing and availability are live on the Randco store.

Shop genuine Bertolini parts

Technical enquiry

Sizing, compatibility, or an unusual application.

MADE IN THE USA SINCE 1971

© 2026 Bertolini Valves, Inc. · Made in the USA since 1971