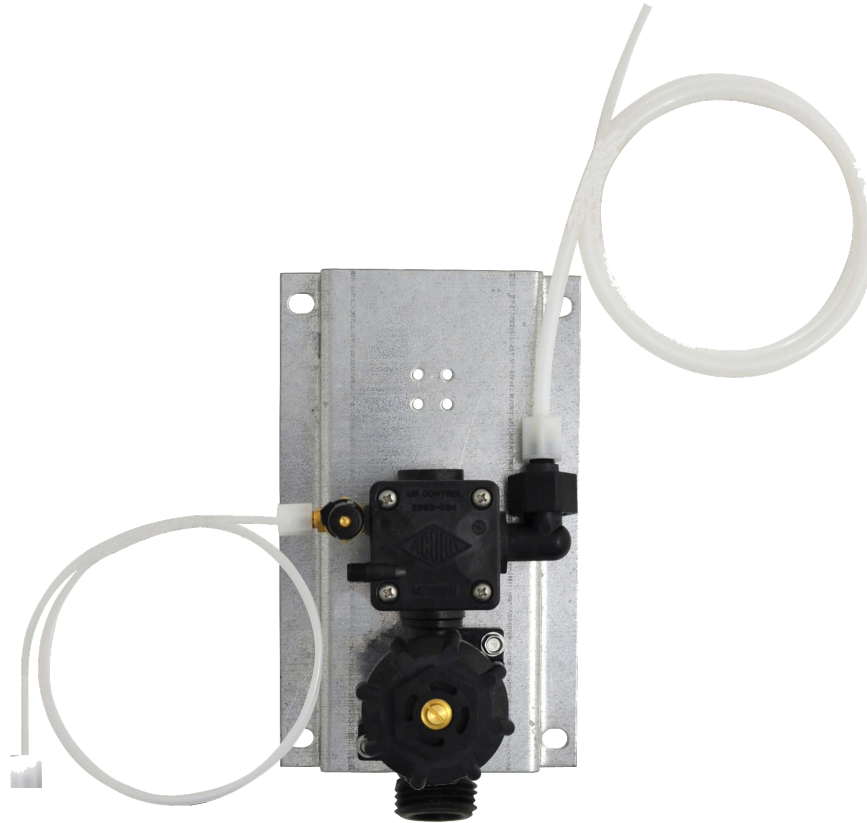


MODEL

AIR-TROL PNEUMATIC VALVES

- RBA8000-000-002**
- RBA8000-000-003**
- RBA8000-000-004**

- Air-Trol Single Temp, Single Valve [03-M-AUS]
- Air-Trol Single Temp, Double Valve [03-M-MA2-AUS]
- Air-Trol Hot & Cold, Single Valve



*RBA8000-000-002 Shown

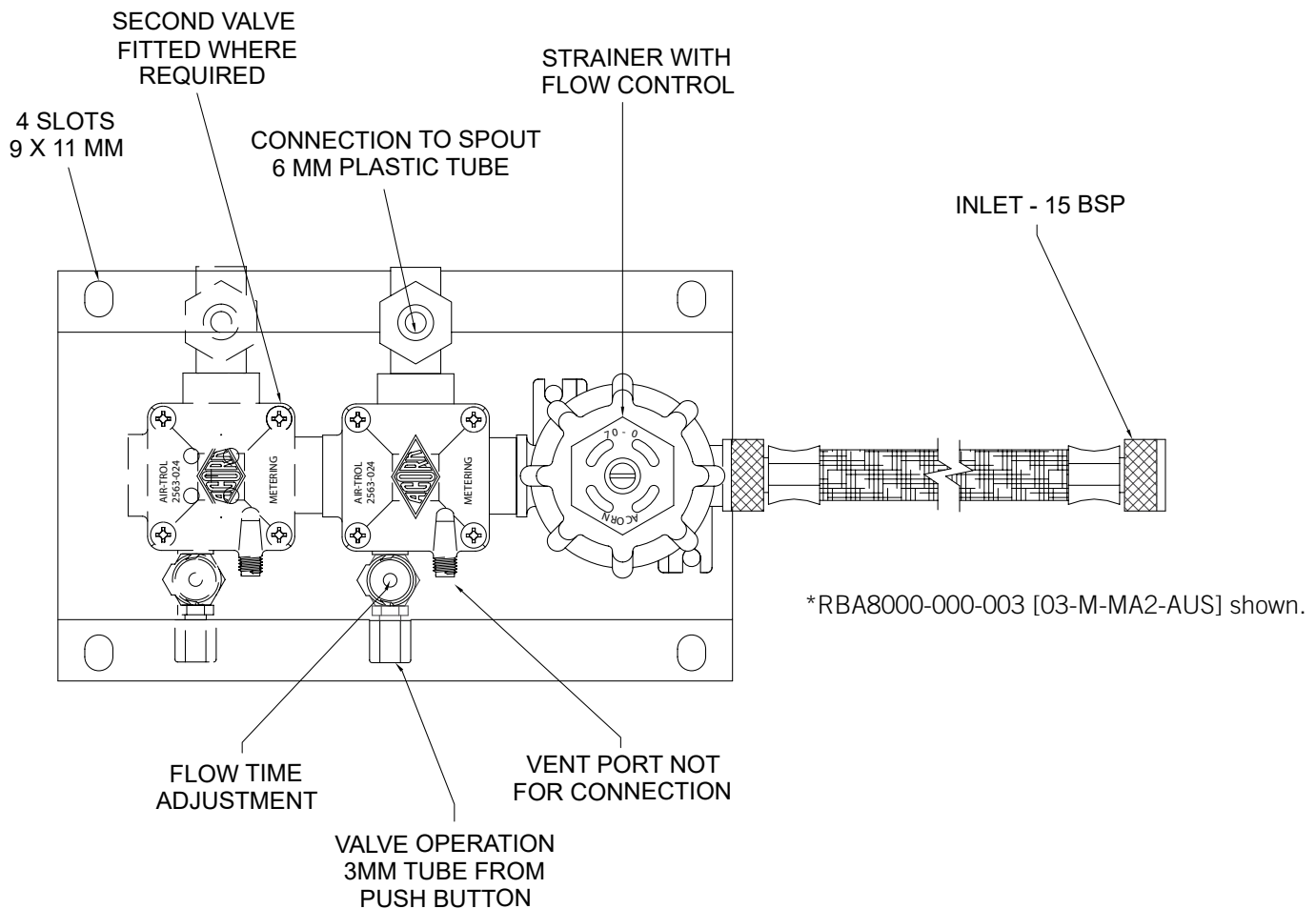


As improvements in the design and performance of RBA products are continuous, specifications may be subject to change without notice. The illustrations and descriptions herein are applicable to production as of the date of this Installation Instructions Sheet. Revised 11/23 © 2023 by RBA Group II/Model RBA8000 SERIES/1123

Hydraulic Requirements

Nominal Size	15 mm
Minimum Supply	Diameter 15 mm
Minimum Supply Pressure	200 kPa
Maximum Supply Pressure	500 kPa
Inlet Connection	15 mm BSP
Flow Time	5 - 60 seconds Adjustable
Maximum Water Temperature	50°C

If maximum supply pressure exceeds 500 kPa, a limiting valve must be fitted, and valve should be protected from freezing.



Installation

1. All lines should be flushed properly before connection is made.
2. If valve is not secured within the fixture, it should be screw-fixed, to facilitate later servicing, in a secure location remote from the fixture, and at a distance not greater than 3 meters, using the holes provided.
3. Inlet is 15 mm BSP, and connection must be made using a flexible braided hose complying with AS/NZS3499. Under no circumstances should a rigid connection be made.
4. Connection from the valve to the spout can be made using the 6 mm plastic tube provided, tightening the compression nuts by hand only.
5. Pneumatic connection, from the valve to the activation push button using 3mm plastic tube provided, should also be hand tight only.
6. Flow can be shut off completely by turning the brass screw in the centre of the strainer, in a clockwise direction.
7. Once flow is established, the flow time can be adjusted by turning the brass screw in the centre of the timer assembly, clockwise to increase time, or anti-clockwise to reduce time.

Operation

1. At rest, or valve closed, water pressure is balanced on both sides of the diaphragm, due to the greater surface area on top of the diaphragm, the valve is held closed using the inlet water pressure.
2. When the button is pushed, and released, a negative pressure is created in the connection tube, timer assembly, and top section of the valve.
3. This negative pressure, via a magnet, lifts the orifice plate off a small orifice in the water diaphragm.
4. This allows a small amount of water to drain from the top of the diaphragm into the outlet, thus allowing the now greater inlet pressure under the diaphragm, to push the diaphragm away from the valve seat, and water to flow through the valve.
5. As this is happening, air is bleeding back into the top section of the valve via a needle valve in the timer assembly, allowing the orifice plate to resume its original position over the orifice in the water diaphragm, restoring pressure on top of the diaphragm, closing the valve.
6. Closing time may be adjusted by controlling the speed at which air is allowed to bleed back into the top chamber of the valve.
7. This is done by turning the timing screw adjustment, clockwise to increase time, or anticlockwise to reduce time.

Troubleshooting

Problem	Probable Cause	Solution
Valve does not close fully	Dirt or grit on water diaphragm or valve seat	Remove diaphragm and clean
Valve does not close	Needle valve screwed in too far	Re-adjust timing
	Water in top section of valve	Remove and dry components. Tighten push bottom rear housing and valve ass.
	Water pressure above 500kPa	Fit limiting valve
	Dust in timing needle	Turn screw in and out two or three times
Valve does not open	Water turned off	Turn on
	Kinked braided hose	Correct
	Kinked pneumatic activation line	Correct
Low flow rate	Blocked line strainer	Remove and clean
	Blocked flow restrictor	Remove and clean
	Incorrect flow restrictor	Change
High flow rate	Incorrect flow resistor	Change
Valve close too soon	Incorrect time adjustment	Re-adjust
	Leak in pneumatic push button or tube	Tighten all connections
	Damaged water diaphragm	Replace
Shudder on closing	Dirt in valve	Remove flow control elbow and clear valve

Available Models



AIR-TROL SINGLE TEMP, SINGLE VALVE [03-M-AUS]

Pneumatic operation
No electricity required
Adjustable runtime,
5-60 seconds
Includes tubing & flexi hose
RBA8000-000-002



AIR-TROL SINGLE TEMP, DOUBLE VALVE [03-M-MA2-AUS]

Pneumatic operation
No electricity required
Adjustable runtime,
5-60 seconds
Includes tubing & flexi hose
RBA8000-000-003



AIR-TROL HOT & COLD, SINGLE VALVE

Pneumatic operation
No electricity required
Adjustable runtime,
5-60 seconds
Includes tubing & flexi hose
RBA8000-000-004

Spare Parts



BUTTON ASSEMBLY

Stainless Steel
Side Connection
RBA2566-160-001



BUTTON ASSEMBLY

Stainless Steel
Rear Connection
RBA2566-150-001



METERING ASSEMBLY

RBA2563-020-003



WATER DIAPHRAGM

RBA2563-010-001

Note: This product should be installed, by suitably qualified persons, in a fit for purpose application, to suitable materials, using suitable fixings and comply with any relevant codes. It should be inspected periodically for signs of wear and tear that may affect performance or safety.

Dimensions are subject to manufacturer's tolerance of +/-10mm. Rough-in should be completed with each fixture.

Important: Installation Instructions are subject to change without notice.

Please visit **our websites** for latest revision.