

The M Series Midget Air Release Valves

**Sizes 3/8" thru 1" Available • Vents Trapped Air
Ideal for Automatic Priming of Vacuum Primed Pumps**



Crispin
Since 1905

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Midget Air Release Valves



M SERIES

Midget Air Release Valves

- Valve Function**
- Vents trapped air in hot water systems
 - Vents air from cold water, petroleum products and many other liquids with varying specific gravities
 - Ideal for automatic priming of Vacuum Primed Pumps
 - Meets AWWA C-512

With Stainless Steel Trim Standard

Crispin Midget Air Valves are chosen for use in venting trapped air in hot water systems by being installed at the high points of the line, thereby resulting in an increase of the B.T.U. output. The Crispin Midget Air Valve is equally well designed for venting air from cold water, petroleum products and many other liquids of varying specific gravities. The Midget is also ideal for automatic priming of vacuum primed pumps. A vacuum check is available, if desired, for attachment to the valve outlet to prevent air from re-entering the system

All Crispin Valves are hydrostatically tested at 150% of their maximum working pressure.

Midget Valve Parts List

| PART NO. | ITEM | MATERIAL | QTY/UNIT |
|----------|--------------------|-----------------|----------|
| 1 | VALVE SEAT | Stainless Steel | 1 |
| 2 | PLUNGER BUTTON | Viton | 1 |
| 4 | VALVE LEVER | Stainless Steel | 1 |
| 5 | SCREW (DRIVE) | Stainless Steel | 1 |
| 6 | BALL FLOAT | Stainless Steel | 1 |
| 7 | HINGE PIN | Stainless Steel | 1 |
| 7A | PIN CLIP | Stainless Steel | 1 |
| 8 | HINGE BUTT | Stainless Steel | 1 |
| 9 | BOLT | Steel | 6 |
| 10 | SCREW | Stainless Steel | 1 |
| 11 | FLANGE | Cast Iron | 1 |
| 12 | BODY | Cast Iron | 1 |
| 13 | FLANGE GASKET | Armstrong | 1 |
| 14N* | NIPPLE | Steel | 1 |
| 14V* | VACUUM CHECK VALVE | Brass | 1 |

*14N and 14V are optional at customer's request

Orifice Sizing Information

| ORIFICE DIA. | MAX WORKING PRESSURE |
|--------------|----------------------|
| 1/8" | 50 PSIG |
| 3/32" | 85 PSIG |
| 1/16" | 150 PSIG |
| 3/64" | 200 PSIG |
| 1/32" | 300 PSIG |

Note: Materials and Prices Subject to Change Without Notice



Model Information

| Valve Inlet | 3/8" | 1/2" | 3/4" | 1" |
|-------------|---------|---------|---------|---------|
| Model No. | M3 | M5 | M8 | M10 |
| NPT-Outlet | 3/8" | 3/8" | 3/8" | 3/8" |
| Height | 5 9/16" | 5 9/16" | 5 9/16" | 5 9/16" |
| Width | 5" | 5" | 5" | 5" |
| Weight | 6lbs | 7lbs | 7lbs | 8lbs |



SUBMITTAL SHEET FOR M SERIES

Submittal Sheet for Crispin M Series

3/8"–1" Pressure Air Release Midget

Manufactured in compliance with ANSI/AWWA C512

Date: October, 2001

Orifice Options

| DIAMETER | MAX. PRESSURE | DISCHARGE RATE |
|----------|---------------|----------------|
| 5/32 | 40 PSIG | 12.6 SCFM |
| 1/8 | 50 PSIG | 9.6 SCFM |
| 3/32 | 85 PSIG | 8.3 SCFM |
| 1/16 | 150 PSIG | 6.1 SCFM |
| 3/64 | 200 PSIG | 4.5 SCFM |
| 1/32 | 300 PSIG | 3.2 SCFM |

Specifications

The valve(s) shall be installed at high points in the line to vent the accumulation of air and other gases with the line under pressure.

The valve(s) shall have a _____" orifice with valve sealing faces of stainless steel and Buna-N rubber, and shall operate at _____ PSIG. Valves which use a needle valve to seal the orifice shall not be acceptable.

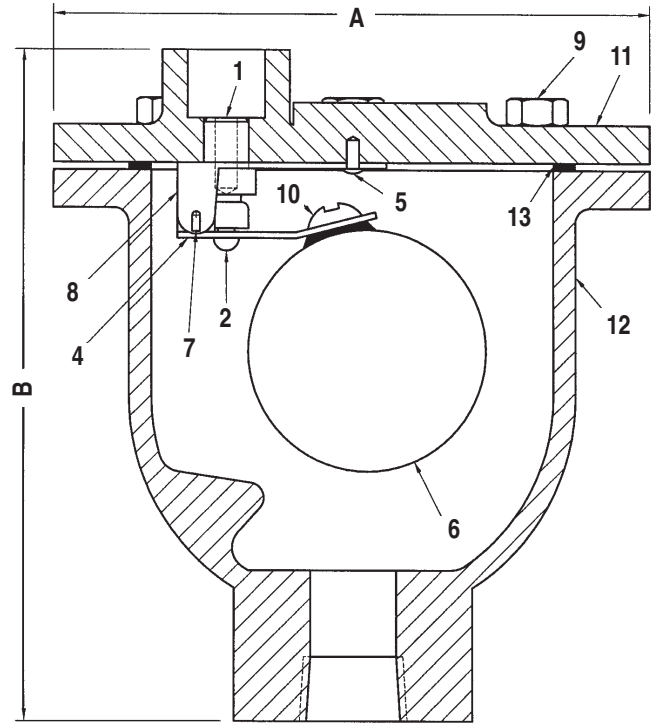
The valve(s) shall be Crispin-Multiplex Model _____ Midget Air Valve(s) as manufactured by Multiplex Manufacturing Co., Berwick, PA.

Valve construction shall be _____" NPT screwed, cast iron body and top flange with stainless steel float and trim.

Option: Where pressures are greater than 300 PSIG, the valve(s) shall be _____ NPT" inlet connection, and shall have a (steel, stainless steel, or ductile iron) body, top and inlet flange.

Standard operating pressure for Crispin Air Valves is 20 to 150 PSIG. Please check one of the following if your operating needs differ:

_____ 2 to 40 PSIG _____ 151 to 300 PSIG



Parts List

| ITEM | DESCRIPTION | MATERIAL | ASTM |
|------|------------------|------------------|-----------|
| 1 | VALVE SEAT | STAINLESS STEEL | A582 |
| 2 | PLUNGER BUTTON | VITON | D2000 |
| 4 | VALVE LEVER | STAINLESS STEEL | A240 |
| 5 | SCREW (DRIVE) | STAINLESS STEEL | A193 |
| 6 | BALL FLOAT | STAINLESS STEEL | A240 |
| 7 | HINGE PIN | STAINLESS STEEL | A313 |
| 8 | HINGE BUTT | STAINLESS STEEL | A240 |
| 9 | BOLT | STEEL | A307 |
| 10 | SCREW | STAINLESS STEEL | A193 |
| 11 | FLANGE | CAST IRON | A126 CL.B |
| 12 | BODY | CAST IRON | A126 CL.B |
| 13 | FLANGE GASKET | ARMSTRONG N-8092 | N/A |
| 29 | PLUG (NOT SHOWN) | BRASS | B505 |

Size Specifications

| MODEL | INLET SIZE | OUTLET SIZE | A | B | WHT. |
|-------|------------|-------------|------|------|------|
| M3 | 3/8" NPT | 3/8" NPT | 5.00 | 5.75 | 6 |
| M5 | 1/2" NPT | 3/8" NPT | 5.00 | 5.75 | 7 |
| M8 | 3/4" NPT | 3/8" NPT | 5.00 | 5.75 | 7 |
| M10 | 1" NPT | 3/8" NPT | 5.00 | 5.75 | 8 |