

D-050 COMBINATION AIR VALVE

PAT. PEND

Reliable operation reduces water hammer incidents.

Dynamic design allows high velocity air discharge, up to 0.8 bar differential pressure; Preventing premature closing.

Lightweight, small dimensions, simple and reliable structure.

Special nozzle design: combination of bronze and E.P.D.M rubber, assures long-term maintenance free operation.

The drainage outlets enables removal of excess fluids.

Standard metal body - baked polyester coating.



Automatic component

A.R.I patent, Rolling Seal Mechanism:

- Dramatically reduces the possibility of obstruction by debris.
- Discharges high air flow rates up to 160 m³/h.
- One size orifice for a wide pressure range (up to 16 bar 230 psi).
- Self cleaning mechanism.

Body made of high strength plastic.

All operating parts are made of specially selected corrosion resistant materials.

Threads are available in BSPT/NPT.

Flanges are available in BS/ISO/ANSI standards.

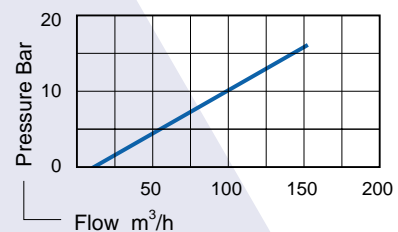
Working pressure range: 0.2-16 bar (3-230 psi).

Available in 2" (50mm) - 8" (200mm).

Ordering

Upon ordering, please specify: model, size, working pressure, threads/flanges standard and type of liquid.

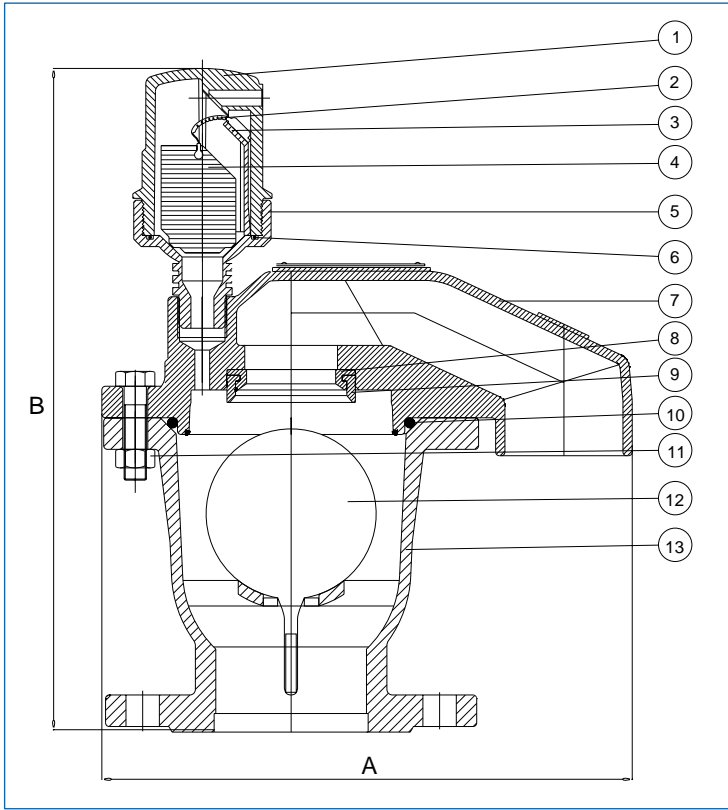
AUTOMATIC AIR DISCHARGE CHART



A.R.I. Flow Control Accessories

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<http://arivalves.com>



PARTS LIST AND SPECIFICATION

| No. | Part | Material |
|-----|------------------|--------------------------------------|
| 1. | Body | Reinforced Nylon |
| 2. | Rolling Seal | Rubber E.P.D.M |
| 3. | Clamping Stem | Reinforced Nylon |
| 4. | Float | Foamed Polypropylene |
| 5. | Base | Brass ASTM B124 |
| 6. | O-Ring | BUNA-N |
| 7. | Cover | Cast Iron ASTM A-48 CL35B |
| 8. | Nozzle Seat | Sphero Nodular ASTM A-536-60-40-18 |
| 9. | Nozzle Seal | Bronze ASTM B-62 B271 C83600 |
| 10. | O-Ring | Rubber E.P.D.M |
| 11. | Bolt and Nut | BUNA-N |
| 12. | Float | Galvanized Steel, Chromate plated |
| | 2"-4" | Polycarbonate |
| | 6"-8" | Stainless Steel 304L |
| 13. | Body | Cast Iron ASTM A-48 CL35B |
| | | Sphero Nodular ASTM A-536-60-40-18 |
| ■ | Basket | in 2" Polypropylene |
| ■ | Protective Cover | in 6" & 8" Cast Iron ASTM A-48 CL35B |
| | | Sphero Nodular ASTM A-536-60-40-18 |

DIMENSIONS AND WEIGHTS

| Nominal Size | Dimensions mm | | Weight Kg | Orifice Area: Kin. Valve mm ² | Drainage outlet mm | |
|------------------|---------------|-----|-----------|--|--------------------|----------------|
| | A | B | | | Internal | External |
| 50mm 2" Threaded | 167 | 330 | 9.4 | 794 | 1.5" BSP threaded | not applicable |
| 50mm 2" Flanged | 167 | 335 | 12.0 | 794 | | applicable |
| 80mm 3" | 286 | 356 | 18.4 | 1809 | 63.5 | 74.6 |
| 100mm 4" | 342 | 368 | 26.4 | 3317 | 80.0 | 96.0 |
| 150mm 6" | 553 | 550 | 77.6 | 17662 | 124.0 | 140.0 |
| 200mm 8" | 553 | 553 | 85.6 | 17662 | 124.0 | 140.0 |

* Automatic Valve Orifice Area: 12 mm² for all valves



KINETIC AIR DISCHARGE CHART

