**MAG series, Optivent Air & Dirt Separator Specifications**

**General**

Provide a dual Magnetic Microbubble Air & Dirt Separator, equal to ‘Optivent’ as supplied by Masterflow Solutions (phone: 02 9748 2022), for the removal of air in the form of microbubbles and dirt particles, including all magnetite down to 1 micron and less. Separator must have:

* Internal stainless steel spiral concentrator.
* High Intensity, highly polished, Magnetic Neodymium Rod, having a minimum magnetic performance on plate surface of 10,000 Gauss.
* Complete with a fast bleed air valve.
* Large throat type Automatic air release valve of brass construction, 15mm BSP connection and with a guided, solid float valve.
* Manual ball valve for the removal of collected solids.
* Bi-directional flow.
* Low-pressure drop of no more than 10kPa.
* Maximum operating pressure of 10 bar.

The velocity through the separator shall not be in excess of 1.6 m/s for standard flow units. Operating temperature must not exceed 90°C and operating pressure must be within 1-10bar. To be installed vertically upright and in horizontal pipework, at the point closest to the highest temperature of the system.

On chilled and heating water systems, the separator must be pre-insulated in polyethylene and cladded to the requirements of BCA Section J.

Include automatic purge system for the periodic removal of sludge from separator, comprising of steel control panel, manual override, programmable time clock, and heavy-duty motorised ball valve. Solenoid valves will not be accepted.

*Suggested Schedule Example*

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| --- | --- | --- | --- | --- |
| **MODEL** | **FLANGE SIZE** | **FLOW RATE** | **SYSTEM** | **AUTOMATIC PURGE** |
| *MAGOVAD150-SS* | *150mm*  | *20 L/s*  | *Closed* | *Yes* |