

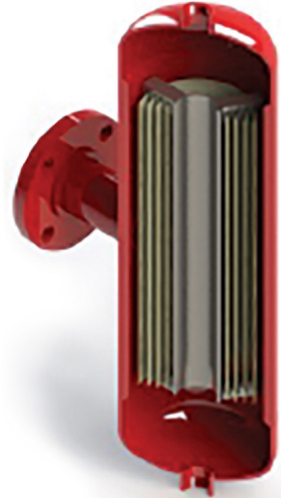


AIR & DIRT SEPARATOR

ASME Commercial Separators with Magnetic Option



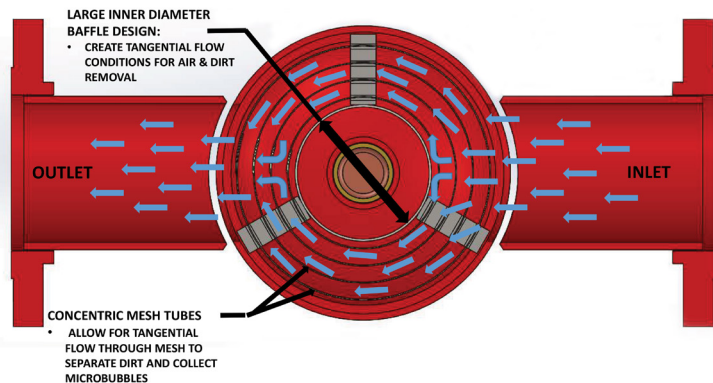
The Amtrol patent pending multi-cylinder coalescing SS mesh core designed for maximum water flow thru contact, collecting **100% of both free & entrained air bubbles as well as 95% dissolved** while directing this system damaging air to the top of the chamber for removal.



Model	CV Rating
2-ADS	76
3-ADS	191
4-ADS	334
5-ADS	490
6-ADS	867
8-ADS	1447
10-ADS	2466
12-ADS	3430

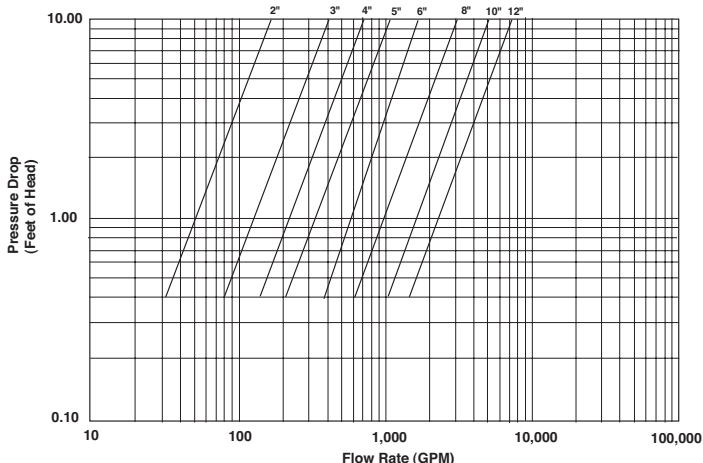
The coefficient of variation (CV) is the volume of water in gallons at 60° F that will flow per minute with a 1 psi drop.

Amtrol ADS Separator Water Flow Path Design



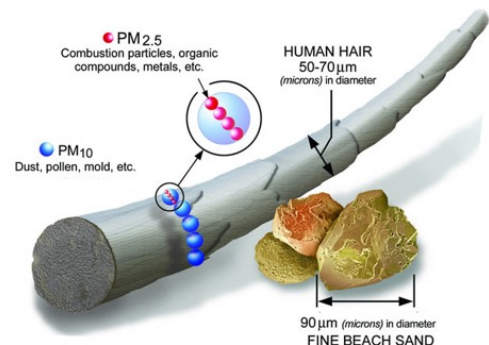
Loose material or debris inside a hydronic loop can lead to a drop in system performance & premature failure of key components like valves or pumps. The **Amtrol ADS** mesh media can capture debris as small as **5 Microns** in size.

Flow/Pressure Drop Chart



How Small is 5 Microns?

Comparing size

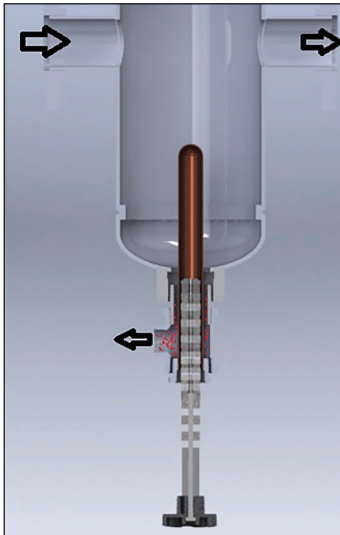




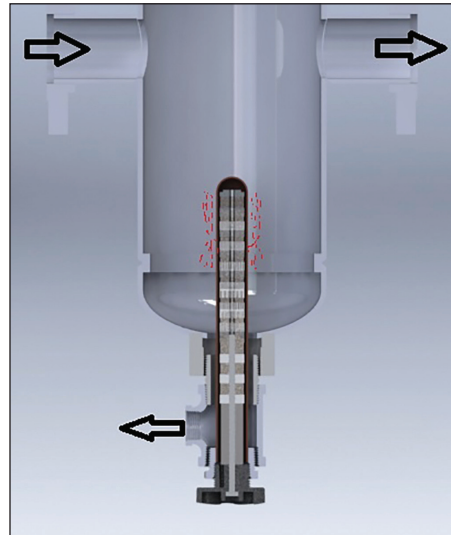
Air & Dirt Separators

Enhanced features to protect high performance pumps.

All ADS models have an option for an internal magnetic core. A magnetic rod placed inside will generate a 10,000 surface Gauss magnetic field drawing finite particulates of magnetite to the copper insertion well, turning the ADS into a magnetic filter.



To flush collected debris, simply withdraw the magnetic rod from the dry well while simultaneously opening the blowdown valve.



How powerful is a 10,000 Gauss magnetic field?

Gauss is a measurement of field intensity. On the low end of the spectrum, a common refrigerator magnet will possess a field intensity of 50 Gauss compared to a medical MRI which can generate a field from 3,000 up to 70,000 Gauss.

Sizing an Amtrol ADS for HVAC Hydronic Applications

Model	Velocity 2 ft/sec gpm	Velocity 3 ft/sec gpm	Velocity 4 ft/sec gpm	Velocity 5 ft/sec gpm	Velocity 6 ft/sec gpm
2-ADS	20	36	42	52	62
3-ADS	45	70	93	115	138
4-ADS	80	120	160	200	234
5-ADS	125	180	250	309	375
6-ADS	175	270	360	450	541
8-ADS	300	450	630	785	948
10-ADS	475	745	990	1248	1472
12-ADS	700	1045	1400	1770	2200

Match system velocity rate to pump flow and line up to the appropriate Amtrol ADS Separator.



3
Years



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