














CVAD AIR & DIRT SEPARATOR



-  Greatly reduced commissioning times after initial fill
-  Longer system life (through air and dirt elimination)
-  Low-pressure drop
-  Bi-directional flow
-  Max. temp. 110 c. / Max. working pressure 10 bar
-  Tested to 21 bar
-  Standard carbon steel shell (stainless on request)
-  Air collects in the air chamber before being automatically vented
-  Valve situated on the side of unit for floating dirt removal
-  The same valve is used for releasing air when filling the system
-  Large collector ensures that flushing is only required periodically
-  Can be flushed while fully operational (no need to shut down)
-  Internal stainless steel concentrator to aid removal of air and dirt

INTRODUCTION

CVAD — The Air Free & Clean Solution

An air & dirt free water system through one unit

DEAERATION

Problems arising with air & dirt in water systems:

The word "deaeration" describes the removal of dissolved gases from liquids such as air from water. When water is heated or the pressure reduced, gas microbubbles are released into the system. Microbubbles can be the cause of major problems such as pump failure, corrosion and energy loss.

THE SOLUTION

The CVAD combines the removal of air and dirt through a single unit. Installed at the hottest point in the system, the CVAD will eliminate these microbubbles from heating and chilled water systems.

DIRT REMOVAL

The CVAD is also used to remove dirt particles from heating and chilled water systems. Once installed it will eliminate all dirt particles down to 10 microns.

CVAD LOCATION

The unit must be installed at the hottest part of the system. In a heating system this is the main flow from the boilers. The static head must not exceed 30 metres.

In a chilled water system the unit must be located in the return close to the chiller. Maximum static head must not exceed 15 metres.

N.B. if the static head is greater than these figures the efficiency of the CVAD is reduced.

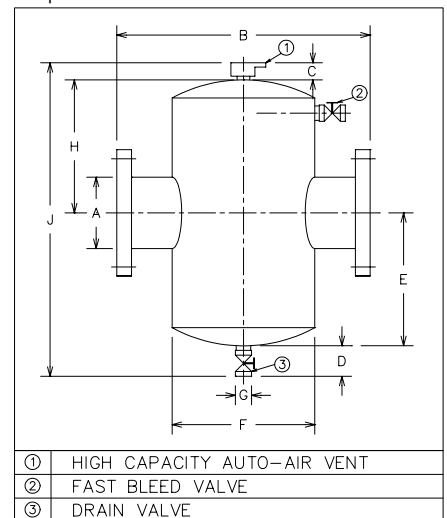
The maximum flow rates through the CVAD is 3m/sec. If these values are exceeded the efficiency is reduced.

DRAIN VALVE

All models are supplied with a ball valve for draining the collected dirt and sludge.

FLANGES

All flanges are drilled to BS 4504 PN16 as standard. Plain ends and other flange ratings are available on request.



Product Code	(A)	B	C	D	E	F	G	H	J	Max WK'G Press	Test Press
CVAD-50	2"	350	150	130	170	170	25	170	620	10 Bar	21 Bar
CVAD-65	2½"	350	150	130	170	170	25	170	620	10 Bar	21 Bar
CVAD-80	3"	460	150	130	210	220	25	265	755	10 Bar	21 Bar
CVAD-100	4"	460	150	130	210	220	25	265	755	10 Bar	21 Bar
CVAD-125	5"	630	150	130	350	325	25	375	1005	10 Bar	21 Bar
CVAD-150	6"	630	150	130	350	325	25	375	1005	10 Bar	21 Bar
CVAD-200	8"	810	150	200	430	410	50	400	1180	10 Bar	21 Bar
CVAD-250	10"	880	150	200	430	510	50	640	1420	10 Bar	21 Bar
CVAD-300	12"	1100	150	200	550	610	50	900	1800	10 Bar	21 Bar
CVAD-350	14"	1100	150	200	550	770	50	900	1800	10 Bar	21 Bar
CVAD-400	16"	1250	150	200	700	770	50	1000	2050	10 Bar	21 Bar
CVAD-450	18"	1250	150	200	700	920	50	1000	2050	10 Bar	21 Bar



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