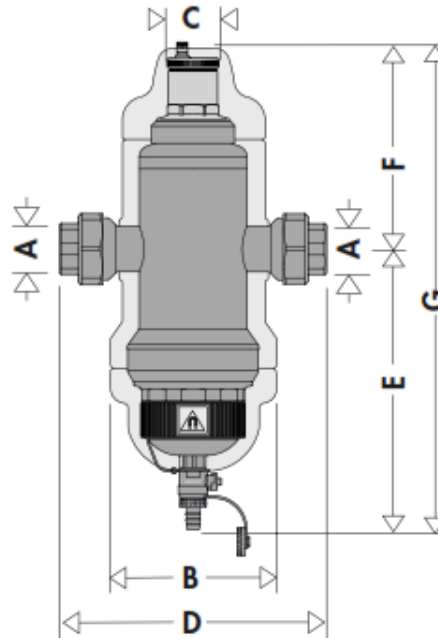


HERZ Screwed Air & Dirt Separator

Data sheet for HVADS (DN40) Issue 0520

☑ Dimensions



Order number	DN	A	B	C	D	E	F	G	Kg
HVADS-05	DN40	1½"	180	55	283	297	218.5	515.5	10

☑ Materials

Component	Material	Grade
Body	Steel epoxy coated	
AAV body	Brass	BS EN 1265 CW617N
Internal element	PAG66G30	
Float	Polypropylene	
Float Guide	Brass	BS EN 1265 CW614N
Float Lever	Stainless Steel	BS EN 10270-3
Stem	Brass	BS EN 1265 CW614N
Spring Seals	Stainless Steel	BS EN 10270-3
Seals	EPDM	
Drain Valve	Brass	BS EN 1265 CW617N

Insulation

Material:	Closed cell expanded PE-X
Thickness:	20 mm
Density:	-Inner part: 30 kg/m ³ -Outer part: 80 kg/m ³
Thermal conductivity (ISO 2581):	-At 0°C: 0.038 W/(m-K) -At 40°C: 0.045 W/(m-K)
Water vapour resistance factor (DIN 52615):	> 1300
Operating temperature range:	0 – 100°C
Reaction to fire (DIN4102):	class B2

☑ Technical Data

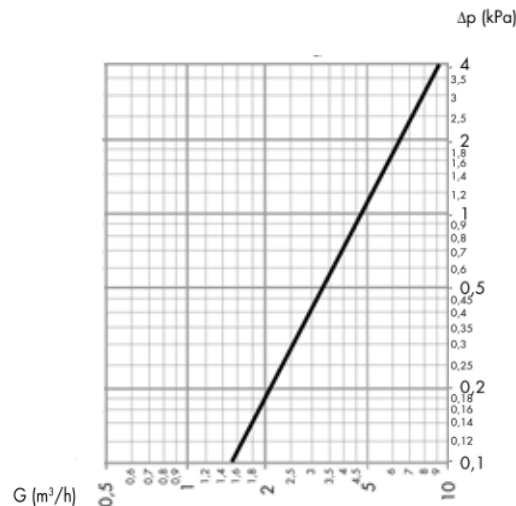
Working temperature range:	0 – 110°C
Max discharge pressure:	10 bar
Minimum particle size:	5 µm
Ring system magnetic induction:	2 x 0.3 T
Connections:	Threaded to ISO 228-1
Medium:	water glycol solution
Max percentage of Glycol:	50%

Non-hazardous glycol solutions excluded from the guidelines of directive 67 / 548 / EC.

Size - DN	40
Kv – m ³ /h	43.2
Max flowrate l/m	56.78
Max flowrate m ³ /h	3.41

Maximum flowrates are based on the maximum recommended flow velocity of 1.2m/s according to BS EN 10255 steel pipe

☑ Pressure Drop



☑ Application

The HVADS is an Automatic dirt and air separator and is used to continuously remove the debris and air contained in the hydraulic circuits of heating and cooling systems.

The valve is capable of automatically removing all the air present in the system down to micro-bubble level, with very low head losses.

The large air collection chamber can accommodate a large volume of air before being released automatically. At the same time the valve separates debris and impurities contained in the system which collect in the lower part of the collection chamber from which they may be expelled via the blowdown valve.

The Air Dirt separator is fitted with a magnet which offers greater efficiency in the separation and collection of ferrous impurities. The impurities are trapped inside the dirt separator body by the strong magnetic field created by the magnets inserted in the special outer ring.

The outer ring can also be removed from the body to allow the decantation and subsequent expulsion of sludge while the system is still running. Since the magnetic ring is positioned outside the dirt separator body, the hydraulic characteristics of the device are not altered.

The circulation of fully de-aerated water enables equipment to operate under optimum conditions, free from any noise, corrosion, localised overheating or mechanical damage, important for reducing energy demands and ongoing running costs.

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