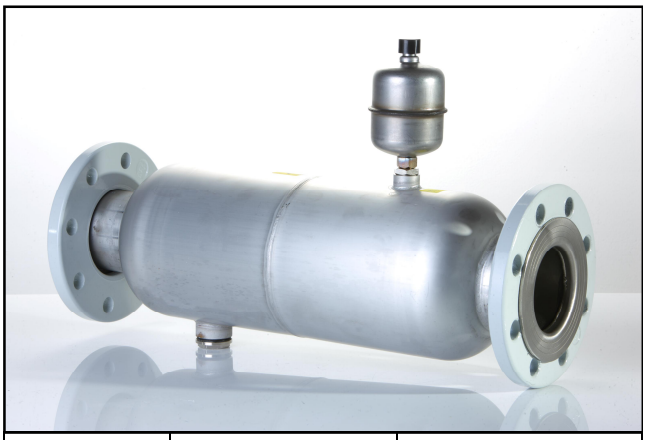
STOURFLEX
Technically Advanced Flexible Solutions

Type JP503 Low Pressure Drop Air & Dirt Separator, Flanged



High Flow	Low Pressure Drop	Magnet Rod Available

Specification

Micro Bubble Air and Dirt Separator manufactured from corrosion resistant 316L stainless steel fitted with silumin swivel flanges drilled to BS4504 NP10.

Application

Stourflex Nonair air and dirt separators are designed to remove air, dirt and now magnetite (when supplied with the optional magnet rod) from circulating heating and chilled water systems.
Air is vented automatically from the top of the unit.
Dirt and Sludge is drained manually from the valve fitted on the base.

Maximum working temperature 110ºC.
Maximum working pressure 10 Bar.
Maximum test pressure = 1.5 x working pressure.

For efficient air and dirt removal, separators should be line size.

Part number	N.B. (mm)	Installed Length (mm)	Body Diameter Excluding Air Vent and Drain Valve (mm)	Dry Weight (kg)	Volume (Litre)	Air Vent Connections Female bsp		Drain Connection (“)
						No	(“)	
JP503-50	50	420	129	4	4	1	½	¾
JP503-65	65	500	154	5	7	1	½	¾
JP503-80	80	560	168	8	9	1	½	1
JP503-100	100	640	204	10	14	1	½	1
JP503-125	125	725	256	14	27	2	½	1
JP503-150	150	835	306	22	45	2	½	1
JP503-200	200	990	406	45	100	2	½	1
JP503-250	250	1270	458	72	160	2	½	1

From 2014 the JP503 is available with a high performance magnet rod to remove magnetite from your system in addition to air and dirt. Please ask for prices.

Due to the unique way Stourflex JP503 Air & Dirt separators operate they have very low pressure drops, please refer to the pressure drop chart for further details.

Stainless Steel Automatic Air Vents and Shut Off Valves are available for all Stourflex Nonair Separators.

Weld and Grooved ends, alternative flange drillings and materials available upon request.

Where a built in strainer is required refer to the Stourflex Nonair **Type JP504**.

Please refer to guidance notes for the correct use and installation of Stourflex Nonair Separators.

Installed lengths may vary, if an exact installation length is required please check at time of order.

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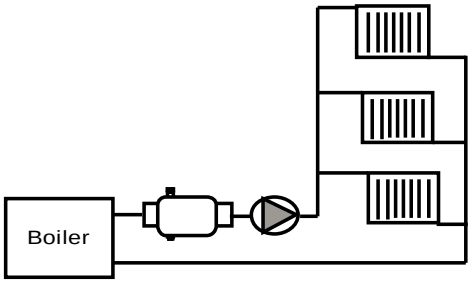
Installation, Operation and Maintenance Instructions for the JP501, JP502, JP503 & JP504 range of Air and Dirt Separators

Selection

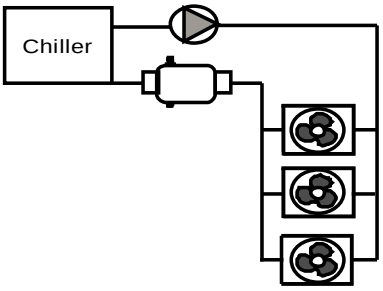
Stourflex offer a complete range of air and dirt separators. Check that the correct separator has been selected for the operating conditions that exist.
To enable efficient air and dirt removal the separator should be line size.

Location

Micro Bubbles are easily released from circulating water where the highest temperature and lowest pressure conditions occur in the system, for this reason the separators should normally be fitted where water is at the highest temperature and the lowest pressure available.
The examples shown below are typical installation layouts, but other acceptable and efficient locations for the separator exist.
When selecting the position for the separator please be aware that pressure also has a major effect on the release of micro bubbles. For temperatures normally found within heating systems a one meter drop in head pressure is equivalent to a rise in temperature of four degrees centigrade. Where lower temperatures are involved in cooling applications system pressure becomes the determining factor of the position of the separator.



Heating System



Cooling System

Installation

Stourflex Nonair Micro Bubble air and dirt separators should be installed in horizontal pipework.
The direction of flow is optional on the Type **JP501** and **JP502**.
Automatic air vents should be fitted after first installing shut off valves.
A drain pipe can be fitted to the air vent if required.
To protect the automatic air vent the shut off valve should be closed prior to flushing the system.
Shut off valves should be fitted to the base of all Stourflex Nonair Air and Dirt Separators after first removing the drain plugs.
Flexible hose or fixed pipework should be installed to enable the dirt, sludge and solid particles to be drained to a convenient safe place.
When installing the Stourflex Nonair Type **JP504** Micro Bubble Air Separator with built in strainer, remove the plugs and fit pressure gauges.
Ensure sufficient space is provided beneath the sediment chamber to allow the built in strainer insert to be removed. Please refer to the Type **JP504** data sheet for clearance details.

Maintenance

Always ensure that the shut off valves are closed before removing the automatic air vent for servicing.
Dirt, sludge and solid particles can be removed by opening the shut off valve on the base of all Stourflex Nonair Air and Dirt Separators.
Safe working practice must be observed when venting hot water at pressure.
By monitoring the pressure gauges fitted to the Stourflex Nonair Type **JP504** maintenance intervals can be planned for the removal and cleaning of the built in strainer.
To clean the built in strainer element first close the isolation valves on the system.
Open the shut off valve and drain the water from the separator.
Remove the bolts from the base plate of the sediment chamber and then detach the base plate. The strainer element can then be drawn out of the strainer housing.

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