

Type JP603 Air and Dirt Separator Flanged

Specification

Micro Bubble Air and Dirt Separator consisting of carbon steel body with stainless steel diffuser screen.
RAL 9006 white aluminium paint finish.
Flanges drilled to BS4504 NP16.

Application

Stourflex air and dirt separators are designed to remove both air and dirt from circulating heating and chilled water systems.
Air is vented automatically from the top of the unit.
Dirt, sludge and solid particles are drained manually from the valve fitted on the base.

Maximum working temperature 110°C.
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)	Body Diameter (mm)	Total Height with AAV & Drain Valve (mm)	Pipe Centre To Drain Valve (mm)	Installed Length Face to Face (mm)	Dry Weight (kg)	Volume (l)
JP603-50	50	165	720	330	430	23	10
JP603-65	65	165	720	330	430	25	10
JP603-80	80	219	850	365	500	34	22
JP603-100	100	219	850	365	500	38	23
JP603-125	125	323	1080	480	625	65	65
JP603-150	150	323	1080	480	625	70	66
JP603-200	200	400	1110	500	775	94	107
JP603-250	250	450	1260	580	860	122	162
JP603-300	300	500	1380	610	910	150	224

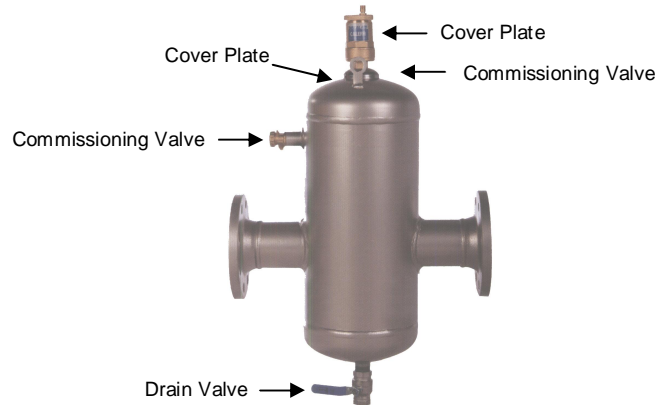
All lengths have a tolerance of up to +/- 5%

½" bsp brass automatic air vent, isolation and commissioning valves supplied as standard along with 1" bsp drain valve.

Please refer to installation instructions for the correct location, installation and operation of Stourflex Separators.

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

Installation, Operation and Maintenance Instructions For JP603 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.

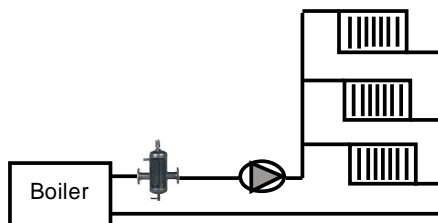
Location

To enable efficient air and dirt removal the separator should be line size. 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.

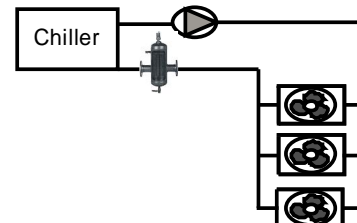
The examples shown below are typical installation layouts, but other acceptable and efficient locations for the separator exist.

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.

Stourflex JP603 Micro Bubble air and dirt separators should be installed in horizontal pipework, the direction of flow is optional.



Heating System



Cooling System

Installation

Automatic air vent and isolation valve should be fitted to the top of the separator, commissioning valve on the side and drain valve on the base, as shown in the illustration at the top of this page.

To protect the automatic air vent the isolation valve should be closed prior to flushing the system. The commissioning valve is used to quickly remove air when filling the system. Flexible hose or fixed pipework should be installed to enable dirty water to be drained to a convenient safe place.

Maintenance

Automatic air vent should be checked periodically to ensure it is functioning correctly. To prevent sediment build up and maintain efficiency the separator should be flushed at regular intervals. Dirt sludge and solid particles can be removed by opening the drain valve on the base of the separator until the water runs clear.

WARNING To prevent scalding safe practice must be observed when venting hot water at pressure.