

MICROBUBBLE AIR & DIRT SEPARATOR PN16



FEATURES

- Air separation process based on the concept of coalescence, microbubbles tend to adhere to a surface and then grow together to form larger air bubbles.
- SS Pall rings used to provide
 - Large surface area per volume.
 - High probability of collision and adhesion of microbubbles, as the fluid flow gets deflected in different directions.
 - Minimal resistance to fluid flow.
- High capacity auto airvent.
- Separation of dirt particles heavier than water is facilitated by
 - Low water velocity.
 - Deflection of fluid stream in many different directions by the pall rings.
 - Creation of non-turbulent zone in the extended lower part.
- Ball valve at the bottom to drain the collected dirt particles.

BENEFITS

- Removes air microbubbles
 - Increases heat transfer efficiency.
 - Reduces chances of air lock.
- Better air separation than centrifugal action.
- Reduces corrosion in piping and sludge formation.
- Removes impurities heavier than water
 - Prevents choking of strainers.
 - Prevents damage to pumps and other equipment.
- Better dirt removal than perforated sheet strainer.

TECHNICAL DATA

Material

Shell	:	Carbon Steel
Pall rings	:	SS
Auto airvent	:	Brass
Max. operating pressure	:	16 Bar
Working temperature range	:	0°C-120°C

INSTALLATION AND COMMISSIONING

While installing, ensure that the inlet and outlet connections are properly oriented. Fix a valve at the drain point to facilitate routine maintenance.

DIMENSIONS

MODEL	A	B	C	∅D	Weight (kgs.)
MBDS - 80F	685	460	455	220	38
MBDS-100F	685	460	460	220	38
MBDS-125F	800	520	515	275	55
MBDS-150F	910	570	575	325	65
MBDS-200F	1135	650	685	400	95
MBDS-250F	1360	800	800	500	135
MBDS-300F	1585	960	910	600	215
MBDS-350F	1785	1110	1025	700	340
MBDS-400F	2035	1270	1135	800	425
MBDS-450F	2260	1430	1245	900	540
MBDS-500F	2485	1590	1360	1000	820
MBDS-600F	2935	1900	1585	1200	1395

All dimensions are in mm
Flanges to IS : 6392 - 1971

