

# 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

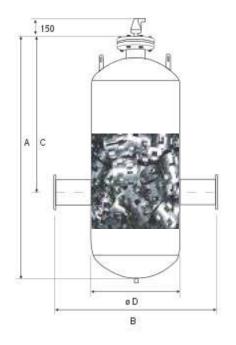


# **INSTALLATION AND COMMISSIONING**

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	Α	В	С	ØD	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