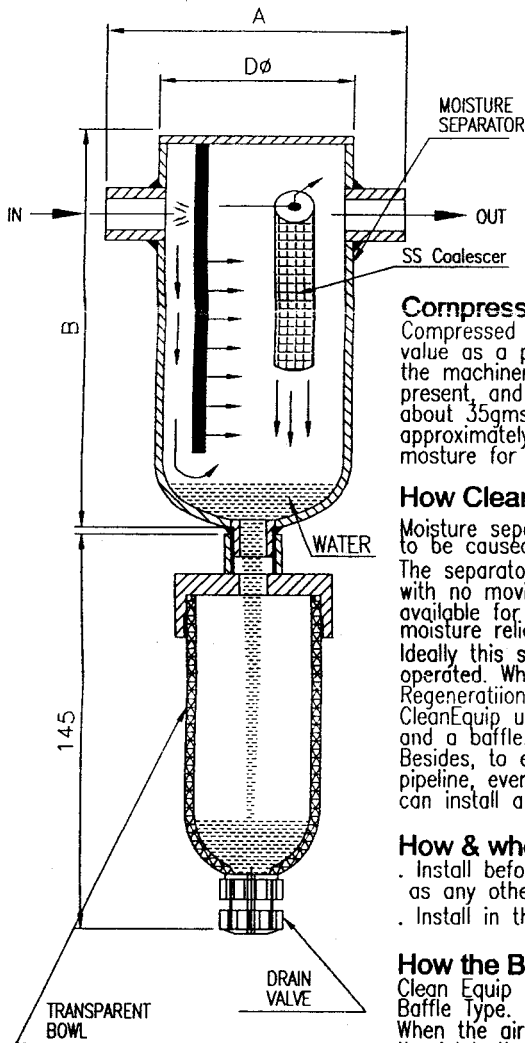


# CLEAN EQUIP MOISTURE SEPARATOR

## For Pure Compressed Air

Screwed Connection

Model	Size	SCFM	A	B	Dø
CES-1	1/2" (M)	40	104	146	74
CES-2	1/2" (F)	75	117	235	88
CES-3	3/4"(F)	80	120	275	88
CES-4	1"(F)	125	120	305	88
CES-5	1 1/2"(F)	280	152	405	115
CES-6	2"(F)	400	178	440	138



### Compressed Air Contamination

Compressed Air is vulnerable to various types of contamination which greatly reduces its value as a power source and which can have a profound effect on the machinery that it operates. Moisture is the most common contaminant present, and the one, which probably causes the most damage. There is approximately about 35gms of water in one cubic meter of atmospheric air. A cubic meter of air weighs approximately 1kg (1000gm). This means 3.5% of air may be moisture. Nature hold this moisture for several purposes, but it is harmful in compressed air pipelines.

### How Clean Equip's Separator solves this problem efficiently ?

Moisture separator is the best step the plant-in-charge can take to avoid the damage likely to be caused by moisture.

The separator will not need any maintenance and/or repairs. It will do its duty all the time with no moving parts, without maintenance, & totally trouble free. The separators are available for all flows, line sizes, pressure, temperatures, flange ratings with an advanced moisture relief system.

Ideally this separator must be installed just before the machine/unit that needs to be operated. When installed before a dryer, the life of desiccant will certainly be enhanced. Regeneration cycle time will be reduced.

CleanEquip uses a integrated advanced design, utilizing the benefits of both a coalescer and a baffle. Both these methods of separation are proven over a long period of time. Besides, to enable you to actually witness the separation of the moisture from air pipeline, even the air that you thought was dry, we have provided a feature whereby you can install a polycarbonate Bowl just below the separator.

### How & where to install Clean Equip Separator ?

- Install before the FRL unit (if installed) to enhance the life of the unit as well as any other valves & accessories.
- Install in the direction shown.

### How the Baffle works?

Clean Equip Separator incorporates two types of separating tools, the first of which is Baffle type.

When the air strikes against the re-inforced steel baffle provided within the separator on the inlet, there is further compression at the point of strike. This compression and then the subsequent expansion induce a cooling effect which results in separation of the moisture from the air dew to the dew-point of water being reached. Another important factor in this phenomenon is the fact that any water in vapour/fog form will be initially separated at this stage itself before it has a chance to enter the innards of the separator (The Coalescer). This greatly increases the life of the coalescer while performing as a separator in itself.

### How the Coalescer works ?

After the air has been relieved of some of its moisture by the baffle, as explained above, it is subjected to another relieving mechanism the SS Coalescer.

The moisture has a tendency to be attracted to the solid stainless screen due to cohesive forces. Any gathering of water will form a drop, which increases in size and eventually becomes heavy enough to drop downwards to be collected and disposed off. This phenomenon is best seen in nature in the form of rain. Moisture laden air forms clouds in which there are minute drops of water which grow in size till such time they are heavy enough to fall to the earth as rain.

NO  
MAINTENANCE

NO  
CONSUMABLE