MODEL : KB - Steam Separator

VALVE

Description

Centrifugal separators remove moisture from steam and compressed air pipelines. Steam and compressed air passing through the separator and as a result of centrifugal forces, impact and swirling effects, separate the particles with a heavier specific gravity, such as water and oil droplets, moisture in suspension, dirt and scale.
The condensate collected at the bottom of separator, must be automatically drained by a suitable steam or compressed air trap. Connections are flanged.



Main Features

Several possibilities of installation.
No moving parts.

Use : Steam, compressed air and other gases
Materials : Carbon Steel body
Sizes : 150 to 300
Connections : DIN PN 40 / ANSI CL.300
Installation : Always with the condensate discharge pointing downwards.
Select : To fit a separator of the same size of the pipeline. Pressure drop is normally negligible. For approximate pressure drop calculation please consult.
How to order i.e. : DN 150/ANSI 300

Limiting Conditions

	Press. Bar	Temp. °C
DIN PN 40	40	120
ANSI CL.300	32	239
	28	300

INSTALLATION

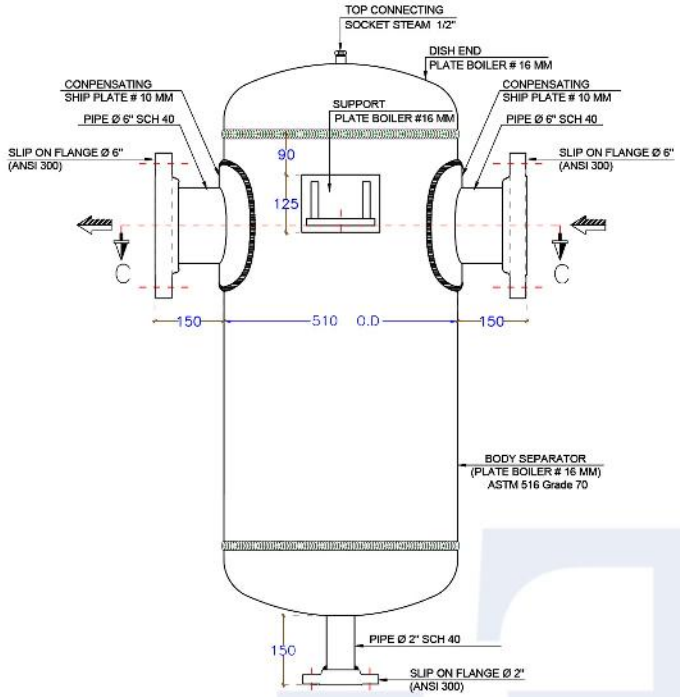
1. Prior to install check that the product is suitable for the intended application : materials and pressure/ temperature ratings.
2. Before to install remove plastic covers placed on flanges or connection ends. The equipment has an arrow or inlet/ outlet designations. Be sure that be installed on the appropriate flow direction.
3. External stresses that may be induced by the system doing to pipe expansion, etc, can effect this product. The necessary precautions are recommended during the system design and equipment assembly.
4. The separator mus be installed on horizontal position always with the condensate discharge pointing downwards. A steam or compressed air trap is recommended to automatically discharge the condensate. A balancing pipe is recommended to be fitted with the compressed air trap.

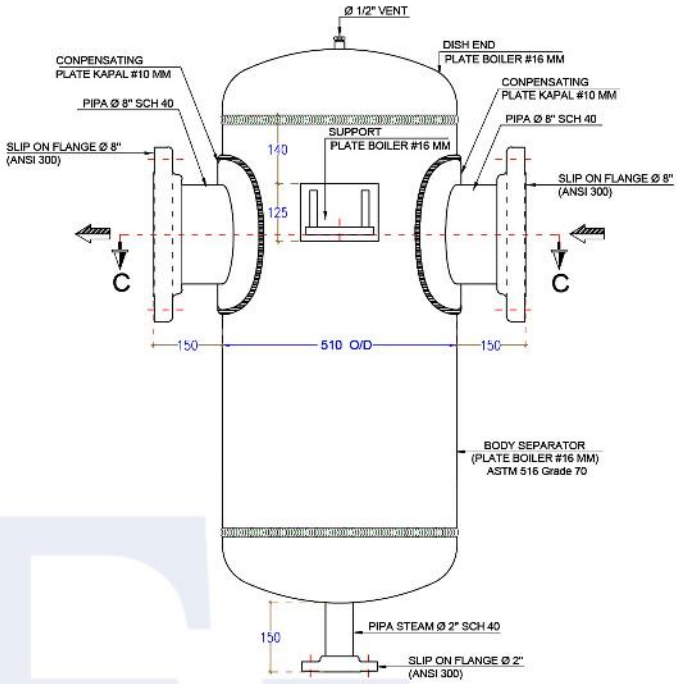
GENERAL

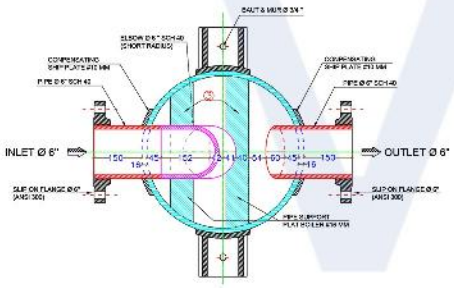
Water present in all steam and compressed air distribution pipelines systems. For maximum efficiency, steam must be saturated and dry. Careful draining and trapping will remove much of condensate but not all. The use of separators and appropriate condensate traps can solve the problem.

MAINTENANCE

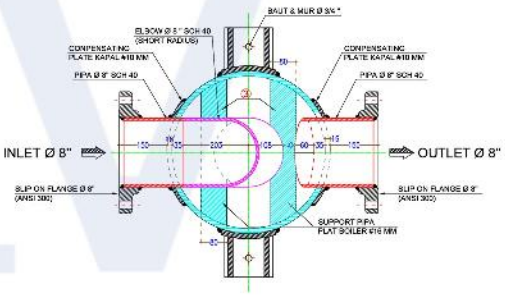
The separator don't need any specific type of maintenance. Regular inspection may be recommended by local authorities according to specific or general pipe and/or vessels assembly procedures.
Estimated lifetime under satisfactory working conditions: 5 years ; after this period we recommended the wall thickness examination using appropriated inspection equipment. Pour quality water or corrosive fluids will reduce this period.







Steam Separator
6" model elbow



Steam Separator
8" model elbow

DN 150 (6")			
MATERIAL LIST			
ITEM	DESCRIPTION	MATERIAL QTY	QTY
1	DISH END	ASTM 516 Grade 70	2
2	SUPPORT 12 THK. SHELL PLATE		1
3	BODY SEPARATOR 125 X 65 X 14.914 KG/M RSC		2

NOZZLE SCHEDULE			
MK'D	SIZE	FLANGE RATING	SERVICE
N1	3/4"	B.S.P.T SOCKET	SAFETY VALVE
N2	150	ANSI 300# S.O.R.F	INLET
N3	150	ANSI 300# S.O.R.F	OUTLET
N4	3/4"	B.S.P.T SOCKET	DRAIN

DIMENSION
510 NM N.B X 900 MM S. H.
VERTICAL M. S. COMPRESSED AIR / WATER SEPARATOR

DN 200 (8")			
MATERIAL LIST			
ITEM	DESCRIPTION	MATERIAL QTY	QTY
1	12 THK. TORISPHERICAL DISH	JIS G3101 SS400	2
2	12 THK. SHELL PLATE	JIS G3101 SS400	1
3	152 X 76 X 17.896 KG/M RSC	JIS G3101 SS400	2

NOZZLE SCHEDULE			
MK'D	SIZE	FLANGE RATING	SERVICE
N1	2"	B.S.P.T SOCKET	SAFETY VALVE
N2	200	ANSI 300# S.O.R.F	INLET
N3	200	ANSI 300# S.O.R.F	OUTLET
N4	2"	B.S.P.T SOCKET	DRAIN

DIMENSION
510 NM N.B X 900 MM S. H.
VERTICAL M. S. COMPRESSED AIR / WATER SEPARATOR

Specification is subject to change without prior notice