	Wessels company	SUBMITTAL CFS-SERIES Centrifugal Solids Separator – Low Flow				
		Models: CFS-50 thru CFS-300Submittal Sheet No. F-1008ADate:				
Job Name		Submitted By _	Da	te		
Location _		Approved By	Da	te		
-		Order No.	Da	te		
Engineer _		Notes				
Contractor						
Sales Rep						
Description						

Description

CFS-Series Centrifugal Wessels Solids Separators are designed for in-line or slip-stream low flow filtration of entrained solids from a liquid system. This filterless separator achieves the removal of 50 micron and larger solids through centrifugal force and friction. Fluid enters the separator at a tangent and creates a vortex within the unit. The increase in the fluid's centrifugal velocity as the fluid enters the body of the unit separates the more dense solids from the liquid. Separated solids fall to the lower collection chamber while exiting fluid is drawn from the center of the vortex back into the system or fluid stream. Removal of debris in your system can increase system efficiencies, extend the life of system components, and lower operational costs.

Construction

Shell: Carbon Steel System Connection: Carbon Steel

Performance Limitations

Maximum Design Temperature: 450°F Maximum Design Pressure: 150 PSIG*

*200 & 250 PSIG available

Model Number	Flow Range (GPM)	Inlet/Outlet Size (MNPT)	Tagging Information	Quantity
CFS-50	5 - 10	1/2"		
CFS-75	10 - 20	3/4"		
CFS-100	17 - 32	1"		
CFS-125	28 - 50	1 1/4"		
CFS-150	45 - 70	1 1/2"		
CFS-200	70 - 110	2"		
CFS-250	100 - 160	2 1/2"		
CFS-300	150 - 250	3"		

Typical Specification

Furnish and install as shown on plans a _____" diameter X _____" (high) centrifugal solids separator rated for _____ GPM flow. The separator shall have NPT system connections and purge valve connection to facilitate automatic or intermittent blowdown of separated solids. The vessel must be constructed in accordance with most recent addendum of Section VIII of the ASME Boiler and Pressure Vessel Code and stamped 150 PSI working pressure at 450°F.

Each separator shall be Wessels model number CFS - or approved equal.

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Wessels CFS-Series Centrifugal Solids Separator

Dimensions	&	Weights

Model Inlet/Outlet Number (MNPT)	Inlet/Outlet (MNPT)	Purge (FNPT)	Dimensions in Inches						Approx.
									Ship Wt. (Lbs.)
	(А	В	С	D	Е	F	
CFS-50	1/2"	3/4"	19	6	1-7/8	4	4	2-1/4	11
CFS-75	3/4"				2-3/8		4	2-1/8	14
CFS-100	1"		29		3-1/2	4-1/4	4	2	21
CFS-125	1-1/4"						4	1-7/8	21
CFS-150	1-1/2"						4-1/4	1-3/4	22
CFS-200	2"	1"	32	0 E/0	5-9/16	5	5-1/2	2-3/4	41
CFS-250	2-1/2"		35-1/2	0-0/0		5-1/2	6	2-5/8	45
CFS-300	3"	1-1/2"	39	10 3/4	6-5/8	6-1/2	7-3/4	3-1/4	78

Dimensions for reference only. Consult factory prior to pre-plumbing.

Notes

- Exterior: Blue Enamel
- Clamp-on support legs available.
- Stainless Steel construction available
- System connections available in flanged or grooved configurations upon request. *Some dimensional changes may be required.