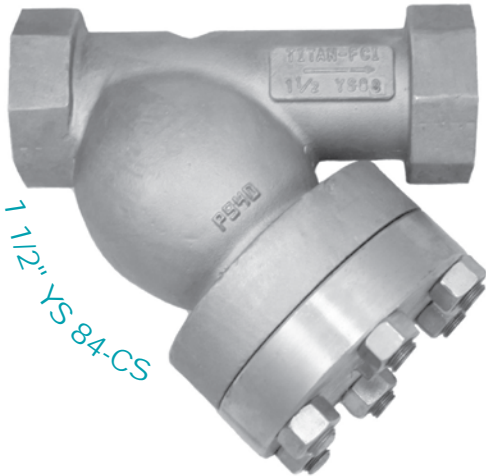


**TITAN**

**WYE STRAINER • THREADED/SOCKET WELD ENDS**  
**Class 1500 lb • Carbon Steel & Stainless Steel**



**Models:**

**YS 83-SS & YS 83-CS** (Threaded)  
 (Stainless Steel) (Carbon Steel)

**YS 84-SS & YS 84-CS** (Socket Weld)  
 (Stainless Steel) (Carbon Steel)

**Size Range: 1/2" ~ 3"**

**WORKING PRESSURES & TEMPERATURE - NON-SHOCK**

ANSI 1500 lb Class	YS 83/84-CS	YS 83/84-SS
WOG (Water, Oil, Gas)	3705 PSI @ 100 °F	3600 PSI @ 100 °F
Saturated Steam	1500 PSI @ 603 °F	1500 PSI @ 603 °F
MAX Liquid	2060 PSI @ 800 °F	1750 PSI @ 1000 °F

**Features:**

- SELF CLEANING TYPE
- EASILY REMOVABLE BOLTED COVER
- HEX END CONNECTIONS FOR FAST, SIMPLE INSTALLATION
- ALL SIZES ARE DUAL RATED FOR 600 AND 1500 LB
- PRECISION MACHINED SCREEN SEAT ENSURES ACCURATE POSITIONING OF SCREEN
- GASKET IS ENCAPSULATED IN A MACHINED GROOVE
- SPIRAL WOUND "CG" STYLE GASKET
- THE "CG" TYPE CAN BE RE-USED - WILL NOT CRUSH
- **OPTIONAL SOCKET WELD BLOW-OFF CONNECTION IS AVAILABLE - PLEASE CONSULT FACTORY**
- **NPT BLOW-OFF IS NOT RECOMMENDED FOR HIGH PRESSURE VESSELS**
- LARGE OPEN AREA - MINIMUM 2.5 TIMES GREATER THAN CORRESPONDING PIPE SIZE
- ENDS CONFORM TO ASME B16.11
- CARBON STEEL UNITS ARE EPOXY PAINTED

*Heavy Duty, High Quality Castings Ideal For High Pressure, High Temperature Petrochemical and Industrial Applications*



**TITAN FLOW CONTROL**  
LUMBERTON, NC USA

**WYE STRAINER**

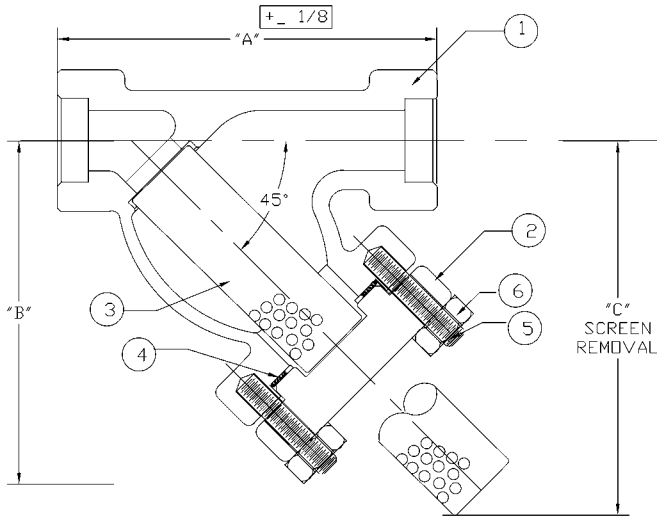
**THREADED ENDS**

YS 83-CS (Carbon)  
YS 83-SS (Stainless)

**SOCKET WELD ENDS**

YS 84-CS (Carbon)  
YS 84-SS (Stainless)

**ANSI Class 1500 lb**



BILL OF MATERIALS			
No.	PART	YS 83-CS & YS 84-CS	YS 83-SS & YS 84-SS
1	Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
2	Cover	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
3	Screen*	304 Stainless Steel	304 Stainless Steel
4	Gasket*	Stainless Steel "CG" Style	Stainless Steel "CG" Style
5	Studs	ASTM A193-B16	ASTM A193 B8 T304SS
6	Nuts	ASTM A194 Gr4	ASTM A194 Gr8 T304SS

\*Recommended spare parts

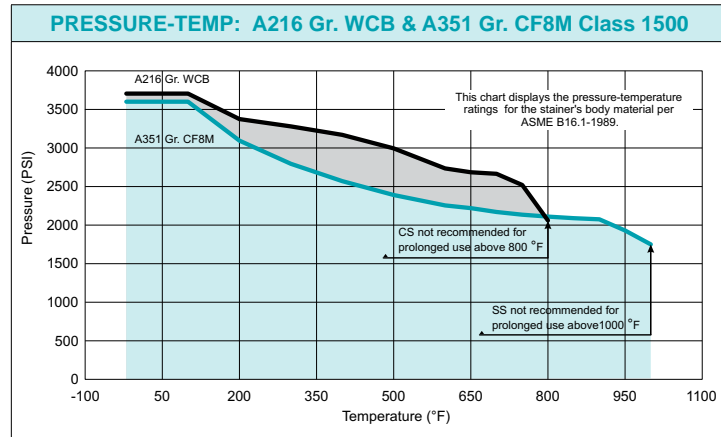
**Notes:**

- A wide range of optional gasket material available, consult factory.
- Strainers are also available in many optional materials such as LCB, WC6, WC9, 316L, Alloy 20, and Monel.
- Threaded End ASME/ANSI B16.11  
Threaded Ends Conform to ANSI B1.20.1  
Socket Weld End ASME/ANSI B16.11

**DIMENSIONS:**

SIZE	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	mm	15	20	25	32	40	50	65	80
A DIMENSION FACE TO FACE	in	3.94	4.25	6.00	8.37	8.37	9.31	C/F	C/F
	mm	101	108	153	213	213	237	C/F	C/F
B DIMENSION CTR. LINE TO BOTTOM	in	3.00	3.75	5.75	5.50	5.50	9.25	C/F	C/F
	mm	77	96	147	140	140	235	C/F	C/F
C DIMENSION SCREEN REMOVAL	in	4.25	5.25	7.00	8.00	8.00	11.00	C/F	C/F
	mm	108	134	178	204	204	280	C/F	C/F
D DIMENSION BLOW-OFF (Contact Factory)	in	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F
	mm	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F
ASSEMBLED WEIGHT	lb	4.5	7.0	12.0	27.0	26.5	44.5	C/F	C/F
	kg	2.0	3.2	5.4	12.2	12.0	20.2	C/F	C/F
Flow Coefficient	C <sub>v</sub>	9	18	30	45	60	100	C/F	C/F

\*Dimensions are for reference only. When required, request certified drawings.



**TESTING:** Strainers are individually, hydrostatically tested at 1.5 x the 100 °F rating, rounded off to the next higher 25 PSI measurement .

**WORKING PRESSURES & TEMPERATURE - NON-SHOCK**

ANSI 1500 lb Class	YS 83/84-CS	YS 83/84-SS
WOG (Water, Oil, Gas)	3705 PSI @ 100 °F	3600 PSI @ 100 °F
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**STANDARD SCREEN SELECTIONS**

Sizes	Water Service	Open Area	Steam	Open Area
1/2" to 3"	1/16 (.0625)	37 %	1/32 (.0312)	28 %

A wide range of optional wire mesh and perforated screens are available.

**REFERENCED STANDARDS**

Design	ASME/ANSI B16.11
Shell Wall Thickness	ASME/ANSI B16.34
Pressure vs. Temp. Rating	ASME/ANSI B16.34

Ordering Code: \_\_\_\_\_ Size: \_\_\_\_\_  
 Customer/Project: \_\_\_\_\_  
 Inq./P.O. No.: \_\_\_\_\_  
 Titan Order No.: \_\_\_\_\_  
 Certified By: \_\_\_\_\_ Date: \_\_\_\_\_

**Engineering Specification Submittal**

Titan FCI makes every effort to ensure the information presented on our literature accurately reflects exact product specifications. However, as changes occur, there may short-term differences between actual product specifications and the data on our literature. Titan FCI reserves the right to make specification changes to improve our products without prior notification.

**WYE STRAINER • YS 83-CS & YS 83-SS • YS 84-CS & YS 84-SS**

Size	Model Number	Description	Drawing No.