

TITAN

WYE STRAINER • SOCKET WELD & THREADED

Class 600 • Carbon and Stainless Steel



Size Range: 1/4" thru 3"

Models-Threaded:

YS 81-CS (Carbon Steel)

YS 81-SS (Stainless Steel)

Models-Socket Weld:

YS 82-CS (Carbon Steel)

YS 82-SS (Stainless Steel)

WORKING PRESSURES & TEMPERATURE - NON-SHOCK

ANSI 600 lb Class	YS 81/82-CS	YS 81/82-SS
WOG (Water, Oil, Gas)	1480 PSI @ 100 °F	1440 PSI @ 100 °F
Saturated Steam	600 PSI @ 489 °F	600 PSI @ 489 °F
MAX Liquid	825 PSI @ 800 °F	700 PSI @ 1000 °F

Features:

- SELF CLEANING TYPE
- EASILY REMOVABLE SCREEN CAPS
- HEX ENDS FOR EASY INSTALLATION
- STRAIGHT THREADS ON CAP ALLOWS FOR EASY REMOVABLE PRIOR TO CLEANING
ALSO HELPS TO ENSURE PROPER ALIGNMENT OF SCREEN DURING REASSEMBLY
- PRECISION MACHINED SEAT
- TAPPED NPT BLOW-OFF
- DRAIN/BLOW-OFF CONNECTION FURNISHED WITH PLUG - STANDARD
- BLOW-DOWN OPERATIONS CAN EASILY BE ACCOMPLISHED BY REPLACING THE
PLUG WITH A TITAN FCI BLOW-DOWN BALL VALVE
- LARGE OPEN AREA - MINIMUM 2.5X LARGER THAN CORRESPONDING PIPE SIZE
- CARBON STEEL BODIES ARE EPOXY PAINTED
- INVESTMENT CASTING (BODY/CAP) PROVIDES UNMATCHED DIMENSIONAL ACCURACY

Heavy Duty, Rugged Design - Ideal For High Pressure Applications



TITAN FLOW CONTROL
LUMBERTON, NC USA

WYE STRAINER

THREADED ENDS

YS 81-CS (Carbon)

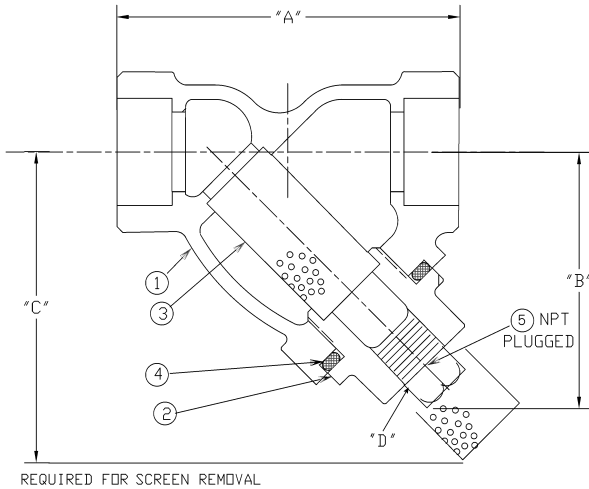
YS 81-SS (Stainless)

SOCKET WELD ENDS

YS 82-CS (Carbon)

YS 82-SS (Stainless)

ANSI Class 600 lb



BILL OF MATERIALS

No.	PART	YS 81-SS & YS 82-SS	YS 81-CS & YS 82-CS
1	BODY	ASTM A351 CF8M 316	ASTM A216 WCB
2	CAP	ASTM A351 CF8M 316	ASTM A216 WCB
3	SCREEN*	304 SS	304 SS
4	GASKET*	SPIRAL WOUND STAINLESS NON-ASBESTOS	
5	PLUG	316 SS	CARBON STEEL

*Recommended spare parts

Notes:

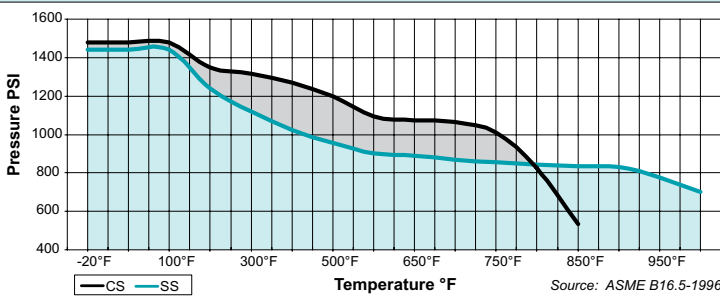
- Strainers are also available in many optional materials such as LCB, WC6, WC9, 316L, Alloy 20, and Monel.
- Threaded End ASME/ANSI B1.20.1 & B16.11
Socket Weld End ASME/ANSI B16.11
- Bolted cover design on 2 1/2"~3" sizes.
2 1/2" ~ 3" are ANSI Class 1500

DIMENSIONS:

SIZE	in	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	mm	8	10	15	20	25	32	40	50	65	80
A DIMENSION FACE TO FACE	in	2.93	2.93	2.93	3.68	4.56	4.93	5.56	6.93	12.00	12.00
	mm	75	75	75	94	116	126	142	177	305	305
B DIMENSION CTR. LINE TO BOTTOM	in	2.37	2.37	2.37	2.81	3.68	4.12	4.75	6.00	10.50	10.50
	mm	61	61	61	72	94	105	121	153	267	267
C DIMENSION SCREEN REMOVAL	in	2.62	2.62	2.62	3.37	4.75	5.25	6.00	7.25	16.00	16.00
	mm	67	67	67	86	121	134	153	184	407	407
D DIMENSION NPT BLOW-OFF	in	1/4	1/4	1/4	3/8	3/8	3/4	3/4	1	C/F	C/F
	mm	8	8	8	10	10	20	20	25	C/F	C/F
ASSEMBLED WEIGHT	lb	1.5	1.5	1.5	2.5	5.0	5.5	9.0	13.0	96.0	92.0
	kg	0.7	0.7	0.7	1.1	2.3	2.5	4.1	5.9	43.5	41.7
Flow Coefficient	C _v	7	7	9.4	18	30	45	63	98	130	180

*Dimensions (inches) are rounded down to two decimal places.

PRESSURE-TEMPERATURE • A351 Gr. CF8M & A216 Gr. WCB 600 LB



- Carbon Steel not recommended for prolonged use above 800 °F
- Stainless Steel not recommended for prolonged use above 1000 °F

TESTING:

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

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STANDARD SCREEN SELECTIONS

Sizes	Water Service	Open Area	Steam	Open Area
1/2"~3"	0.062 (1/16)	37 %	0.033 (1/32)	28 %

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

REFERENCED STANDARDS

Design	B1.20.1 & B16.11
Shell Wall Thickness	B16.11
Pressure vs. Temp. Rating	B16.34

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



TITAN FLOW CONTROL, INC.
Engineering Specification Submittal

WYE STRAINER • MODELS: YS 81-CS/SS & YS 82-CS/SS

Size	Model Number	Description	Drawing No.