"Y" (WYE) STRAINER * ANSI CLASS 125

CAST BRONZE * THREADED AND SOLDER ENDS

Titan Series - 55/56

MODELS: YS 55-BZ

(THREADED ENDS - BRONZE)

YS 56-BZ

(SOLDER ENDS - BRONZE)

I" YS 56-BZ

SIZE RANGE : 1/4" ~ 3"

FEATURES

A LARGE STRAINING CAPACITY

WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YSSS AND YSS6 PROVIDE EXCELLENT OPEN AREA RATIOS THAT ARE TYPICALLY TWO-AND-A-HALF TIMES LARGER THAN THE CORRESPONDING PIPELINE, MINIMIZING PRESSURE DROP ACROSS THE VALVE.

O PRECISION MACHINED SEATS

PRECISION MACHINED SCREEN SEATS IN BOTH THE BODY AND CAP HELP TO ENSURE ACCURATE POSITIONING OF THE SCREEN DURING REASSEMBLY AFTER CLEANING. ALSO, THE MACHINED BODY SEATS ENABLE FINER FILTRATION BY PREVENTING DEBRIS BYPASS.

SELF-CLEANING CAPABILITY

WITH A TAPPED NPT BLOW-OFF CONNECTION, THIS UNIT CAN BE FITTED WITH A BLOW-DOWN VALVE WHICH FACILITATES CLEANING OF THE STRAINING ELEMENT. PLEASE CONTACT FACTORY FOR MORE INFORMATION.

THREADED CAP

TITAN'S YSSS AND YSS6 HAVE STRAIGHT THREADS TO PERMIT EASY CAP REMOVAL FOR CLEANING AND PROPER ALIGNMENT WHEN REASSEMBLING STRAINER.

TECHNICAL

PRESSURE/TEMPERATURE RATING (1) BZ - C84400 - ASTM B584 - CLASS 125 YS 55-BZ (THREADED)

WOG (Non-shock): 200 PSI @ 150 °F

PRESSURE/TEMPERATURE RATING (1) BZ - C84400 - ASTM B584 - CLASS 125 YS 56-BZ (SOLDER) (2)

> WOG (Non-shock): 400 PSI @ 100 °F (1/4" - 1 1/2") 315 PSI @ 100 °F (2" - 3")

- The above listed temperatures are theoretical and may vary during actual operating conditions.
- The internal working pressure rating for a solder joint strainer is dependent, not only on the strainer, but also on the composition of the solder used for the joint. The working pressure ratings shown for model YS 56-BZ (Solder) are representative of using an alloy Sb5 95-5 tin-antimony solder. For other solder joints, please consult factory.

PLICATIONS

GENERAL APPLICATION: Y-STRAINERS ARE INSTALLED IN A PIPING SYSTEM TO REMOVE UNWANTED DEBRIS FROM THE PIPELINE, PROTECTING EXPENSIVE EQUIPMENT DOWNSTREAM SUCH AS PUMPS, METERS, SPRAY NOZZLES, COMPRESSORS, AND TURBINES. THEY CAN BE PLACED IN A HORIZONTAL OR VERTICAL PIPELINE AS LONG AS THE SCREEN IS IN A DOWNWARD POSITION. STRAINING IS ACCOMPLISHED VIA AN INTERNAL PERFORATED OR MESH LINED STRAINING ELEMENT, THE SIZE OF WHICH SHOULD BE DETERMINED BASED ON THE SIZE OF THE SMALLEST PARTICLE TO BE REMOVED.

SERVICING: THE STRAINING ELEMENT NEEDS REGULAR CLEANING TO PREVENT DEBRIS BUILD UP. IT IS NOT ADVISABLE TO ALLOW THE DIFFERENTIAL PRESSURE TO INCREASE BY 20 PSI. ALTHOUGH CLEANING NORMALLY REQUIRES THE REMOVAL OF THE STRAINING ELEMENT, INSTALLING AND USING A TITAN BLOW-OFF DRAIN VALVE CAN INCREASE THE TIME BETWEEN CLEANINGS.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.



Titan Series - 55/56

"Y" (WYE) STRAINER

YS 55-BZ - (Threaded) YS 56-BZ - (Solder)

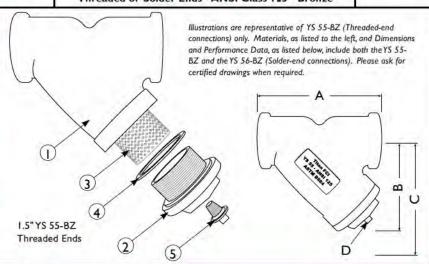
Threaded or Solder Ends • ANSI Class 125 • Bronze

ANSI Class 125

BILL OF MATERIALS" No. PART YS 55/56 - BZ Bronze (C84400) Body **ASTM B584** Bronze (C84400) 2 Cap ASTM B584 3 Straining Element (2) Stainless Steel Gasket (2) Teflon Bronze (C84400) 5 NPT Plug (Blow-off) ASTM B584

 Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.

2. Denotes recommended spare parts.



DIMENSIONS AND PERFORMANCE DATA.(1)											
SIZE	in	1/4	3/8	1/2	3/4	1.	1 1/4	1 1/2	2	2 1/2	3
	mm	8	1.0	(5	20	25	32	40	50	65	80
A DIMENSION FACETO FACE (YS 55) (2)	in	C/F	2.38	2.80	3.18	3.70	4.41	4.93	5.91	C/F	10.60
	mm	C/F	61	71	BI	94	112	125	150	C/F	269
A DIMENSION FACETO FACE (YS 56) (Z)	in	C/F	C/F	2.75	3.36	3.80	4.58	5.33	6.11	C/F	11.40
	mm	C/F	C/F	70	86	97	116	136	155	C/F	290
B DIMENSION CENTER LINE TO BOTTOM (YS 55)	in	C/F	1.39	1.60	1.86	2.13	2.50	2.92	3.60	C/F	5.50
	mm	C/F	36	41	48	54	64	74	92	C/F	140
B DIMENSION CENTER LINE TO BOTTOM (YS 56)	in	C/F	C/F	1.60	1.86	2.13	2.50	2.92	3.60	C/F	7.0
	mm	CIF	CIF	41	48	54	64	74	92	C/F	140
C DIMENSION SCREEN REMOVAL	in	C/F	3.75	4.0	4.25	4.75	6.0	7.0	8.0	C/F	10.0
	mm	CIF	95	102	108	121	152	178	203	C/F	254
D NPT Plug BLOW-OFF	in	C/F	1/4"	1/4"	1/4"	1/2"	1/2"	3/4"	1.0	C/F	1"
	mm	CIF	8	8	8	15	15	20	25	C/F	25
ASSEMBLED WEIGHT YS 55-THREADED (APPROXIMATE)	lb	C/F	0.35	0.45	0.85	1.30	2.00	2.65	4.30	C/F	12.90
	kg	C/F	0.16	0.21	0.39	0,6	0.91	1.21	1,95	C/F	5.85
ASSEMBLED WEIGHT YS 56 - SOLDER (APPROXIMATE)	lb	C/F	C/F	0.35	0.55	0.85	1.60	1.65	2.80	C/F	16.20
	kg	CIF	CIF	0.16	0,25	0,39	0.73	0.75	1.27	C/F	7.35
Flow Coefficient	Cy	0.7	2	8	15	22	38	42	70	110	160

- 1. Dimensions and weights are for reference only. When required, request certified drawings.
- Face to face values have a tolerance of ±0.06 in (±2.0 mm).

PRESSURE - TEMPERATURE RATING - YS 55-BZ (Threaded)

(1/4" - 3")

WOG (Non-shock): 200 PSI @ 150 °F

PRESSURE - TEMPERATURE RATING - YS 56-BZ (Solder) "

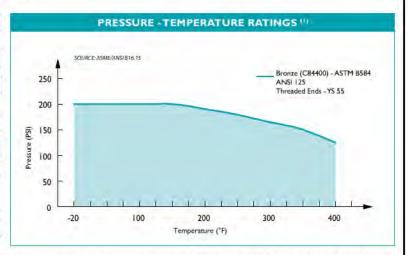
(1/4" - 1 1/2") (2" - 3")

WOG (Non-shock): 400 PSI @ 100 °F 315 PSI @ 100 °F

STANDARD SCREEN SELECTIONS						
Size	Liquid	Open Area	Steam	Open Area		
1/4" ~ 2"	20 mesh	51.8%	30 mesh	44.8%		
2 1/2" ~ 3"	1/16 (.0625)	41%	3/64 (.045)	36%		

REFERENCED STANDARDS & CODES

CODE	DESCRIPTION			
ASME/ANSI B16.15	Cast Bronze Threaded Fittings			
ASME/ANSI B16.18	Cast Copper Alloy Solder Joint Pressure Fittings			
ASME/ANSI B16.50	Copper Alloy Braze-Joint Pressure Fittings			



1. The pressure-temperature ratings given are ONLY for the YS 55-BZ (Threaded) per ASME B16.15. The internal working pressure rating for a solder joint strainer is dependent, not only on the strainer, but also on the composition of the solder used for the joint. The working pressure ratings shown for model YS 56-BZ (Solder) are representative of using an alloy Sb5 95-5 tin-antimony solder. For other solder joints, please consult factory.