



## "Y" (WYE) STRAINER ♦ ASME CLASS 150 DUCTILE IRON ♦ FLANGED ENDS, FLAT FACE

**MODELS: YS 58-DI**  
(DUCTILE IRON)

### Gauge Taps

STANDARD ON ALL  
YS 58-DI MODELS IN  
SIZES 2" ~ 24"



SIZE RANGE : 2" ~ 24"

## FEATURES

- ◇ **GAUGE TAPS**  
TITAN'S YS58 HAS CONVENIENT GAUGE TAPS FURNISHED WITH A PLUG ON BOTH THE INLET AND OUTLET SIDES OF SIZES 2" THROUGH 24". THESE TAPS ALLOW FOR EASY INSTALLATION OF PRESSURE GAUGES TO MONITOR DIFFERENTIAL PRESSURE AND DETERMINE WHEN SCREEN CLEANING IS NECESSARY. ADDITIONALLY, SIZES 2" THROUGH 6" HAVE AN EXTRA BOSS FOR CUSTOM GAUGE TAPPING.
- ◇ **LARGE STRAINING CAPACITY**  
WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YS58 PROVIDES EXCELLENT OPEN AREA RATIOS THAT ARE TYPICALLY TWO-AND-A-HALF TIMES LARGER THAN THE CORRESPONDING PIPELINE.
- ◇ **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.
- ◇ **EPOXY PAINTED**  
ALL UNITS ARE EPOXY PAINTED TO HELP RESIST RUST AND CORROSION.



Lead Free,  
Ductile Iron Body

## TECHNICAL

PRESSURE/ TEMPERATURE RATING  
DI-ASTM A536 - CLASS 150  
SIZES 2" ~ 24"

WOG (Non-shock): 250 PSI @ 100 °F

- The above listed temperatures are theoretical and may vary during actual operating conditions.

## APPLICATIONS

**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® FLOW CONTROL, INC.**  
**YOUR PIPELINE TO THE FUTURE!**

Tel: 910-735-0000 ♦ Fax: 910-738-3848 ♦ titan@titanfci.com ♦ www.titanfci.com  
290 Corporate Drive ♦ PO Box 7408 ♦ Lumberton, NC 28358



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**"Y" (WYE) STRAINER**

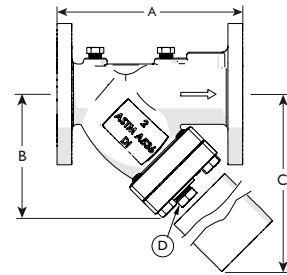
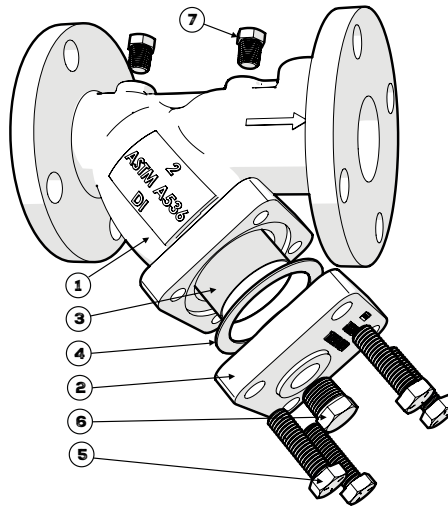
**YS 58-DI - (Ductile Iron)**

Flanged Ends • Flat Face • Ductile Iron

ASME Class  
150

**BILL OF MATERIALS (1)**

No.	PART	YS 58-CI
1	Body	Ductile Iron ASTM A536
2	Cover	Ductile Iron ASTM A536
3	Straining Element (2)	Stainless Steel
4	Gasket (2)	Non-Asbestos Gasket, Garlock 3200 or Equal
5	Cap Screws	Steel
6	NPT Plug (Blow-off)	Carbon Steel
7	NPT Plugs (Gauge Taps)	Carbon Steel



**Additional Design and Technical Notes:**

- On sizes 2" through 6", the bodies are cast with an additional boss that can be tapped for various sizes. Contact factory for more information on this option.
- If furnished with a bronze blow off plug, the YS58 meets the military specification WVV-S-2739 for Type 2 strainers, sizes 2" through 8". See factory.

1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Denotes recommended spare parts.

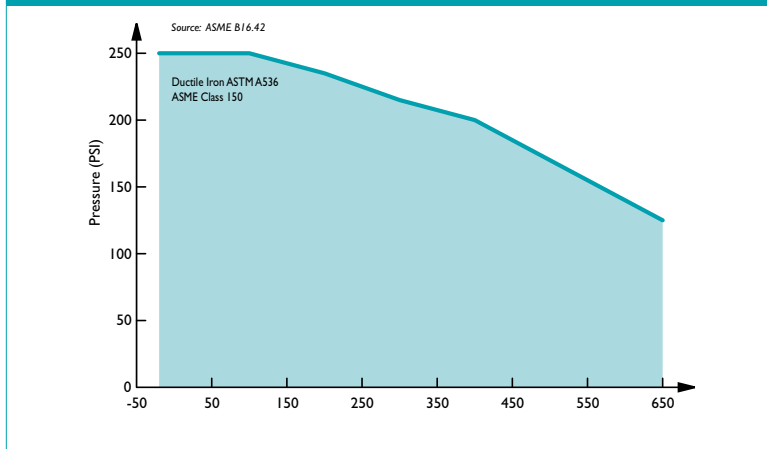
Illustrations are representative of sizes 2" through 4". Please ask for certified drawings when required.

**DIMENSIONS AND PERFORMANCE DATA (1)**

SIZE	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
<b>A DIMENSION</b> FACE TO FACE (FLAT FACE) (2)	in	7.88	10.0	10.13	12.12	15.62	18.5	21.63	25.75	29.87	33.25	38.75	43.13	49.5	58.38
	mm	200	254	256	308	397	470	550	655	759	845	984	1095	1257	1483
<b>B DIMENSION</b> CENTER LINE TO BOTTOM	in	5.25	6.50	7.0	8.25	11.25	13.5	15.5	18.5	21.75	25.0	26.5	31.0	39.0	45.0
	mm	133	166	178	210	286	343	394	470	553	625	673	787	991	1143
<b>C DIMENSION</b> SCREEN REMOVAL	in	7.0	9.75	10.0	12.0	20.0	20.0	22.75	28.0	30.0	36.5	42.0	45.5	56.0	68.0
	mm	178	248	254	305	508	508	578	712	762	927	1067	1156	1422	1727
<b>D NPT Plug</b> BLOW-OFF	in	1/2	1	1	1 1/2	2	2	2	2	2	2	2	2	2	2
	mm	15	25	25	40	50	50	50	50	50	50	50	50	50	50
<b>E NPT Plug</b> GAUGE TAPS	in	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
	mm	8	8	8	8	8	8	8	8	8	8	8	8	8	8
APPROXIMATE ASSEMBLED WEIGHT	lb	19.0	30.0	37.5	48.5	91.5	112.5	195.0	274.5	465.0	717.5	1064.0	1380.0	1587.3	2513.3
	kg	8.6	13.6	17.0	22.0	41.5	51.0	88.5	124.5	211.0	325.5	482.5	626.0	720.0	1140.0
Flow Coefficient	C <sub>v</sub>	70	110	160	260	400	570	950	1600	2200	3300	4900	6100	8000	11000

1. Dimensions and weights are for reference only. When required, request certified drawings.
2. Face to face values have a tolerance of ±0.06 in (±2.0 mm) for sizes 10" and lower and a tolerance of ±0.12 in (±3.0 mm) for sizes 12" and larger.

**PRESSURE - TEMPERATURE RATINGS**



**PRESSURE - TEMPERATURE RATING**

**ASTM A536** **2" ~ 24"**  
WOG (Non-shock): 250 PSI @ 100 °F

**SCREEN SELECTION GUIDELINES (2)**

Size	Liquid	Open Area	Steam	Open Area
2" ~ 4"	1/16 (.0625)	41%	3/64 (.045)	36%
5" ~ 8"	1/8 (.125)	40%	3/64 (.045)	36%
10" ~ 16" (1)	1/8 (.125)	40%	30 Mesh Lined	44.8%

1. Please consult factory for screen selections on 18" and larger YS 58-DI models.
2. Standard for screens with Liquid.

**REFERENCED STANDARDS & CODES**

STANDARD	DESCRIPTION
ASME B16.1 / B16.42	Gray Iron Pipe Flanges and Flanged fittings / Ductile Iron Pipe Flanges and Flanged Fittings
MSS SP-6	Standard Finishes for contact faces of pipe flanges and connecting-end flanges of valves and fittings.
MSS SP-25	Standard Marking System for Valves, Fittings, Flanges, and Unions.

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