



TITAN FLOW CONTROL, INC.

"Y" (WYE) STRAINER ♦ FLANGED ENDS FLAT FACE

ASME CLASS 150 ♦ DUCTILE IRON

MODELS: YS 58N-DI

(WHITE - NSF)

YS 58U-DI

(RED - FIRE-LINE)

FEATURES



SIZE RANGE : 2" ~ 12"

TECHNICAL

PRESSURE/TEMPERATURE RATING
SIZES 2" ~ 12"

WOG (Non-shock): 250 PSI @ 100 °F

- Above Pressure Rating Based on Class 150 B16.42 Flanges.
- UL Tested and Rated @ 300 PSI
- PN16 Flanges available. Contact Factory for Details.
- Grooved End see YS58DGG & YS58G - UL - DI Literature for details.

- NSF/ANSI 61
- NSF/ANSI 372

- ♦ **CERTIFICATIONS**
WITH STANDARD SCREENS, THE YS58N & YS58U ARE UL CERTIFIED AND LISTED PER UL SUBJECT 321 FOR USE IN THE UNITED STATES AND CANADA. STANDARD UNIT IS TESTED AND CERTIFIED PER NSF 61 AND NSF 372
- ♦ **EPOXY COATING**
YS58N & YS58U ARE PROVIDED WITH A NSF APPROVED COATING ON INTERIOR AND EXTERIOR. YS58N UNITS ARE WHITE IN COLOR, YS58U UNITS ARE RED. OTHER COLORS ARE AVAILABLE - CONTACT FACTORY FOR MORE INFORMATION.
- ♦ **FLANGED END DESIGN**
TITAN'S YS58N & YS58U ARE DESIGNED USING FLAT FACE FLANGES COMPATIBLE WITH ASME B16.1 CAST IRON CLASS 125, ASME B16.5 STEEL CLASS 150, AND ASME B16.42 CLASS 150 FLANGE PATTERNS.
- ♦ **LARGE STRAINING CAPACITY**
WITH A LARGE BODY AND SIZABLE STRAINING ELEMENT, THE STRAINER PROVIDES EXCELLENT OPEN AREA RATIOS. WITH STANDARD SCREEN, UNITS ARE TESTED AND UL LISTED AT RATED FLOW RATES AND PRESSURE LOSSES. OPTIONAL NON-UL SCREENS ARE AVAILABLE FOR FINER FILTRATION IN YS58N MODEL. CONTACT FACTORY FOR MORE INFORMATION.
- ♦ **RUGGED CONSTRUCTION**
DURABLE HEAVY WALL CONSTRUCTION OF DUCTILE IRON PROVIDES HIGH STRENGTH AND LONG SERVICE LIFE.
- ♦ **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.

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. THIS PRODUCT IS SUITABLE FOR POTABLE WATER AND FOOD CONTACT APPLICATIONS. FIRELINE APPLICATIONS, RISERS, & SPRINKLER SYSTEMS.

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!

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TITAN® FLOW CONTROL, Inc.

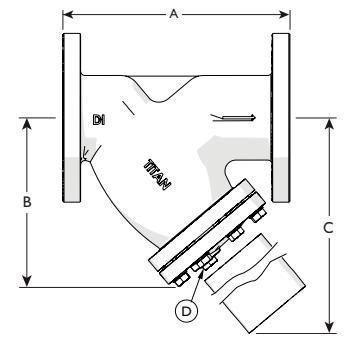
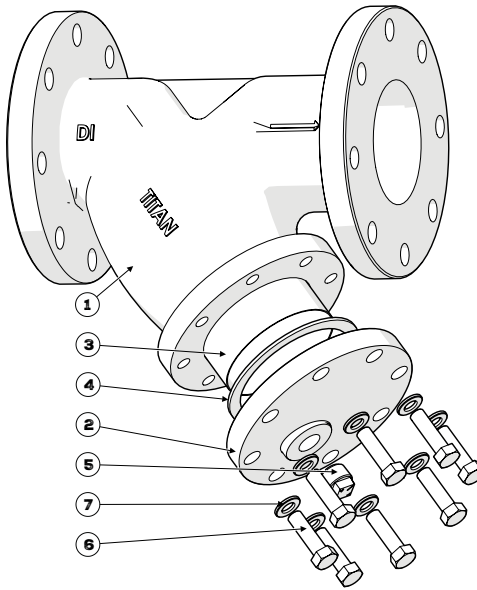
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WYE STRAINER
YS 58N - (Ductile Iron - White)
YS 58U - (Ductile Iron - Red)
 Flanged Ends • Flat Face • Ductile Iron

ASME CLASS
150

BILL OF MATERIALS (1)

No.	PART	YS 58N / YS 58U
1	Body	Ductile Iron ASTM A536 65-45-12
2	Cover	Ductile Iron ASTM A536 65-45-12
3	Straining Element (2)	Stainless Steel 304 SS
4	Gasket (2)	EPDM
5	NPT Plug (Blow-off)	Malleable Galvanized Iron
6	Cap Screws	Carbon Steel Zinc Plated
7	Washers	Carbon Steel Zinc Plated



1. 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		2	2 1/2	3	4	5	6	8	10	12
		in	mm	in	mm	in	mm	in	mm	in
A DIMENSION FACETO FACE (FLAT FACE)	in	7.87	10.00	10.12	12.13	15.63	18.50	21.61	25.75	29.88
	mm	200	254	257	308	397	470	549	654	759
B DIMENSION CENTER LINE TO BOTTOM	in	6.10	6.50	7.09	9.02	11.22	12.24	15.51	19.17	21.65
	mm	155	165	180	229	285	311	394	487	550
C DIMENSION SCREEN REMOVAL	in	10.10	10.60	11.60	15.0	16.25	19.50	26.00	32.20	35.70
	mm	257	270	295	381	413	495	660	818	907
D NPT Plug BLOW-OFF	in	1/2	3/4	3/4	1	1 1/4	1 1/2	1 1/2	2	2
	mm	15	20	20	25	32	40	40	50	50
APPROXIMATE ASSEMBLED WEIGHT	lb	18.7	27.16	33.44	51.54	71.12	95.15	164.2	237.9	372.4
	kg	8.48	12.32	15.17	23.38	32.26	43.16	74.48	107.90	168.94
Flow Coefficient	C _v	61	110	180	310	450	640	1180	1960	3020

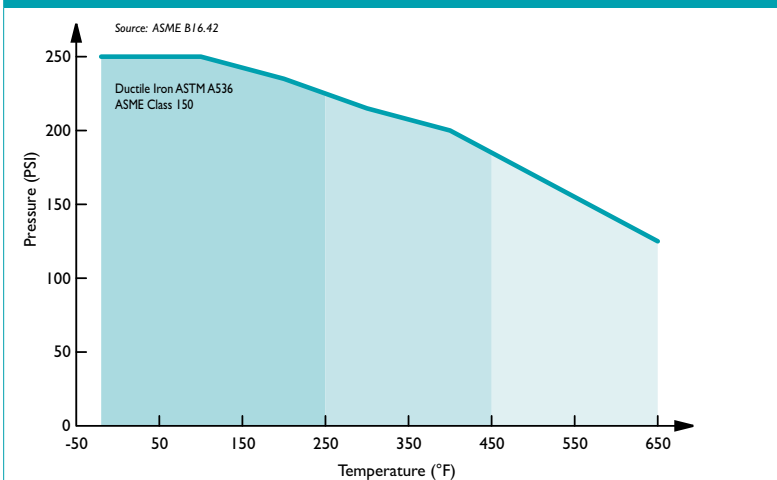
APPROX. LOSS OF HEAD AT 15 FT/ SEC. FLOW VELOCITY (1)

Size	Rate Pressure PSI (kPa)	dP PSI (kPa)
2"	300 (2068)	6.72 (46.3)
2-1/2"	300 (2068)	4.18 (28.8)
3"	300 (2068)	3.82 (26.3)
4"	300 (2068)	3.76 (25.9)
5"	300 (2068)	4.34 (29.9)
6"	300 (2068)	4.44 (30.61)
8"	300 (2068)	3.90 (26.8)
10"	300 (2068)	3.56 (24.5)
12"	300 (2068)	3.00 (20.6)

1. UL Test Data

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 (±0.20 mm) for sizes 10" and lower and a tolerance of ±0.12 in (±3.0 mm) for sizes 12" and larger.

PRESSURE - TEMPERATURE RATINGS (1)



1. This chart displays the pressure-temperature ratings for the YS-58N & YS-58U DI Class 150 Flange.
2. PN16 Flanges available. Contact factory for Info. & Lead Time.
3. Grooved End See Y558

SCREEN AREAS

Size	Perf. Size	Free Flow area
2" ~ 2-1/2"	5/32"	48%
3" ~ 4"	13/64"	53%
5"	15/64"	58%
6" ~ 12"	1/4"	56%

PRESSURE - TEMPERATURE RATING (1)

A536	2" ~ 12"
WOG (Non-shock):	250 PSI @ 100° F

1. Pressure-temperature ratings per DI Class 150 Flange.

REFERENCED STANDARDS & CODES

STANDARD	DESCRIPTION
UL Subject 321	Pipeline Strainers
ULC / ORD-C 321	Pipeline Strainers (Canada)
ASME B16.1 / B16.42	Gray Iron Pipe Flanges and Flanged fittings / Ductile Iron Pipe Flanges and Flanged Fittings
NSF/ANSI 61 AND NSF/ANSI 372	Drinking water systems components - Health Effects / Drinking water systems components - lead content

As †Titan product changes occur, there may be short-term differences between actual product specifications and the information contained within our literature. †Titan FCI reserves the right to make design and specification changes to improve our products without prior notification. When required, request certified drawings. †TITAN is a registered trademark of Titan Flow Control Incorporated.