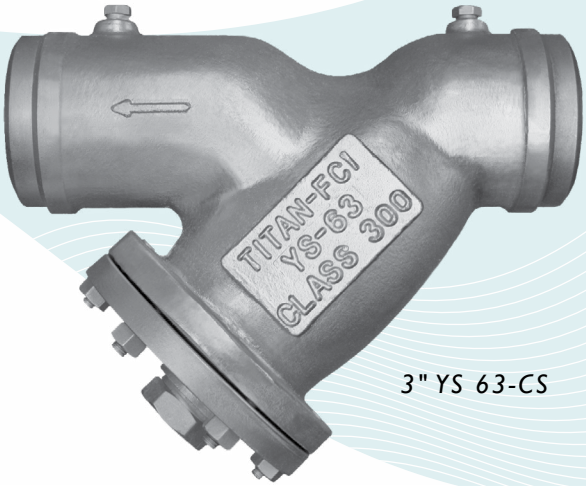
TITAN FLOW CONTROL, INC.

"Y" (WYE) STRAINER ❖ BUTT WELD ENDS

ASME CLASS 300 ❖ CARBON AND STAINLESS STEEL



3" YS 63-CS

MODELS: **YS 63-CS**
(CARBON STEEL)

YS 63-SS
(STAINLESS STEEL)

SIZE RANGE: 1/2" ~ 12"

FEATURES

◇ **LARGE STRAINING CAPACITY**
WITH ITS LARGE BODY AND SIZABLE STRAINING ELEMENT, THE YS63 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**
CARBON STEEL UNITS ARE EPOXY PAINTED TO HELP RESIST RUST AND CORROSION. TITAN FCI ALSO OFFERS EPOXY COATING AS AN OPTION FOR THE YS63.

◇ **OPTIONAL COVER DESIGNS**
TITAN† UNITS YS63 IS AVAILABLE WITH DIFFERENT COVER OPTIONS INCLUDING SWING, CLAMP, AND HINGE TYPE COVERS. PLEASE CONSULT FACTORY FOR MORE INFORMATION ON THESE OPTIONS.

◇ **GAUGE TAPS AVAILABLE**
PLEASE REQUEST GAUGE TAPS (AS SHOWN IN PICTURE) WHEN REQUIRED. GAUGE TAPS MAY BE STANDARD ON SOME MODELS. FOR MORE INFORMATION, CONSULT FACTORY.

TECHNICAL

PRESSURE/ TEMPERATURE RATING CS - ASTM A216 GR. WCB - CLASS 300
WOG (Non-shock): 740 PSI @ 100 °F
PRESSURE/ TEMPERATURE RATING SS - ASTM A351 GR. CF8M - CLASS 300
WOG (Non-shock): 720 PSI @ 100 °F

- *The above listed temperatures are theoretical and may vary during actual operating conditions.*
- *Carbon Steel not recommended for prolonged use above 800 °F.*
- *Stainless Steel not recommended for prolonged use above 1000 °F.*

APPLICATIONS

CARBON STEEL PROPERTIES: CARBON STEEL PERFORMS EXCEPTIONALLY WELL IN HIGH TEMPERATURES, UP TO 800°F IN CONTINUOUS SERVICE. IT PROVIDES HIGH RESISTANCE TO SHOCK, VIBRATION, PIPING STRAINS, AND FIRE AND FREEZING HAZARDS. CARBON STEEL STRAINERS ARE OFTEN USED IN THE OIL AND PETROCHEMICAL INDUSTRIES.

STAINLESS STEEL PROPERTIES: STAINLESS STEEL IS COMMONLY SPECIFIED FOR HIGH TEMPERATURE SERVICE, UP TO 1000°F IN CONTINUOUS SERVICE. STAINLESS STEEL STRAINERS ARE COMMONLY FOUND IN THE CHEMICAL, FOOD, AND PHARMACEUTICAL INDUSTRIES.

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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YS63-0816

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WYE STRAINER

YS 63-CS - (Carbon Steel)

YS 63-SS - (Stainless Steel)

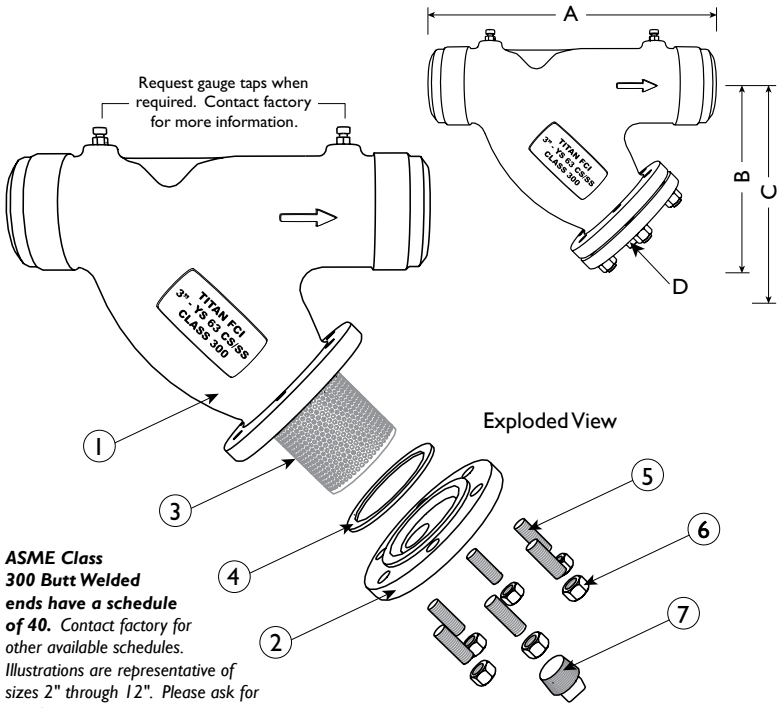
Butt Welded Ends • Carbon & Stainless Steel

ASME Class 300

BILL OF MATERIALS (1)

No.	PART	YS 63-CS (5)	YS 63-SS
1	Body (2)	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M
2	Cover	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M
3	Straining Element (3)	Stainless Steel	Stainless Steel
4	Gasket (3) (4)	Stainless Steel Spiral Wound	Stainless Steel Spiral Wound
5	Studs	Alloy Steel	Stainless Steel
6	Nuts	Carbon Steel	Stainless Steel
7	NPT Plug Blow-off	Carbon Steel	Stainless Steel

1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Available in additional body materials, such as LCB, WC6, WC9, 316L, Alloy 20, and Monel.
3. Denotes recommended spare parts.
4. The cover gasket is encapsulated in a machined recessed seat. A wide range of gasket materials are available; contact factory.
5. Carbon Steel bodies are epoxy painted.



ASME Class 300 Butt Welded ends have a schedule of 40. *Contact factory for other available schedules. Illustrations are representative of sizes 2" through 12". Please ask for certified drawings when required.*

DIMENSIONS AND PERFORMANCE DATA (1)

SIZE		½	¾	1	1¼	1½	2	2½	3	4	5	6	8	10	12
	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300
A DIMENSION FACE TO FACE (2)	in	C/F	C/F	7.875	C/F	C/F	8.625	10.625	12.0	14.5	16.375	19.313	23.375	27.375	32.25
	mm	C/F	C/F	200	C/F	C/F	219	270	305	368	416	491	594	695	813
B DIMENSION CENTER LINE TO BOTTOM	in	C/F	C/F	5.5	C/F	C/F	5.25	6.5	7.0	8.25	11.25	13.5	15.75	19.0	22.25
	mm	C/F	C/F	140	C/F	C/F	133	165	178	210	286	343	400	483	565
C DIMENSION SCREEN REMOVAL	in	C/F	C/F	8.125	C/F	C/F	7.0	9.75	10.0	12.0	17.0	20.0	22.75	28.0	30.0
	mm	C/F	C/F	206	C/F	C/F	178	248	254	305	432	508	578	711	762
D NPT Plug BLOW-OFF	in	C/F	C/F	1/2	C/F	C/F	1/2	1	1	1 1/2	2	2	2	2	2
	mm	C/F	C/F	15	C/F	C/F	15	25	25	40	50	50	50	50	50
ASSEMBLED WEIGHT APPROXIMATE	lb	C/F	C/F	6.0	C/F	C/F	12.0	20.5	28.0	51.0	73.5	126.0	214.0	268.0	480.0
	kg	C/F	C/F	2.7	C/F	C/F	5.4	9.3	12.7	23.1	33.3	57.1	97.1	121.6	217.7
Flow Coefficient	C_V	C/F	C/F	22	C/F	42	70	110	160	260	400	570	950	1600	2200

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.

REFERENCED STANDARDS & CODES

CODE	DESCRIPTION
ASMEI B16.25	Buttwelding Ends
ASME B16.34	Flanged, Threaded, and Welding End

SCREEN SELECTION GUIDELINES

Size	Liquid	Open Area	Steam	Open Area
1/2" - 4"	1/16 (.0625)	41%	1/32 (.033)	28%
5" - 8"	1/8 (.125)	40%	3/64 (.045)	36%
10" - 12"	1/8 (.125)	40%	30 Mesh Lined	44.8%

PRESSURE - TEMPERATURE RATING

Body Material	A216 Gr. WCB	A351 Gr. CF8M
WOG (Non-shock):	740 PSI @ 100 °F	720 PSI @ 100 °F

PRESSURE - TEMPERATURE RATINGS

This chart displays the pressure-temperature ratings for the strainer's body material per ASME B16.5