



TEE TYPE STRAINER ♦ FLANGED ENDS, RAISED FACE

ASME CLASS 150 ♦ CARBON AND STAINLESS STEEL

MODELS: CT 21-CS

(CARBON STEEL)

CT 21-SS

(STAINLESS STEEL)



3" CT 21-CS

FEATURES

SIZE RANGE: 2" ~ 24"

♦ TEE STRAINERS

TEE STRAINER ARE DESIGNED TO TRAP AND REMOVE UNWANTED FOREIGN DEBRIS AND CONTAMINANTS FROM PIPELINES. TEE STRAINERS ARE SIMPLE IN DESIGN AND EASY TO OPERATE. TEE STRAINERS ARE WIDELY USED TO PROTECT EQUIPMENT, IMPROVE SYSTEM EFFICIENCY AND REDUCE MAINTENANCE COSTS.

♦ HIGH QUALITY CONSTRUCTION

THE CAST TEE STRAINER ARE AVAILABLE IN CARBON OR STAINLESS STEEL WITH FLANGED (RF) END CONNECTIONS. IT FEATURES A MACHINED GROOVE THAT ENCAPSULATES THE COVER GASKET AND AIDS IN PREVENTING GASKET BLOW-OUTS.

♦ HEAVY DUTY COATING

CARBON STEEL UNITS ARE PRIMED AND PAINTED TO HELP RESIST RUST AND CORROSION.

♦ NUMEROUS STRAINING ELEMENT OPTIONS

STRAINING ELEMENTS ARE AVAILABLE IN A VARIETY OF PERFORATIONS, MESHES, AND MATERIALS. THE STANDARD MATERIAL FOR STRAINING ELEMENTS IS TYPE 304 STAINLESS STEEL.

TECHNICAL

PRESSURE/TEMPERATURE RATING
CS - ASTM A216 GR. WCB - CLASS 150

WOG (Non-shock): 285 PSI @ 100 °F

PRESSURE/TEMPERATURE RATING
SS - ASTM A351 GR. CF8M - CLASS 150

WOG (Non-shock): 275 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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TEE STRAINER
CT 21-CS - (Carbon Steel)
CT 21-SS - (Stainless Steel)

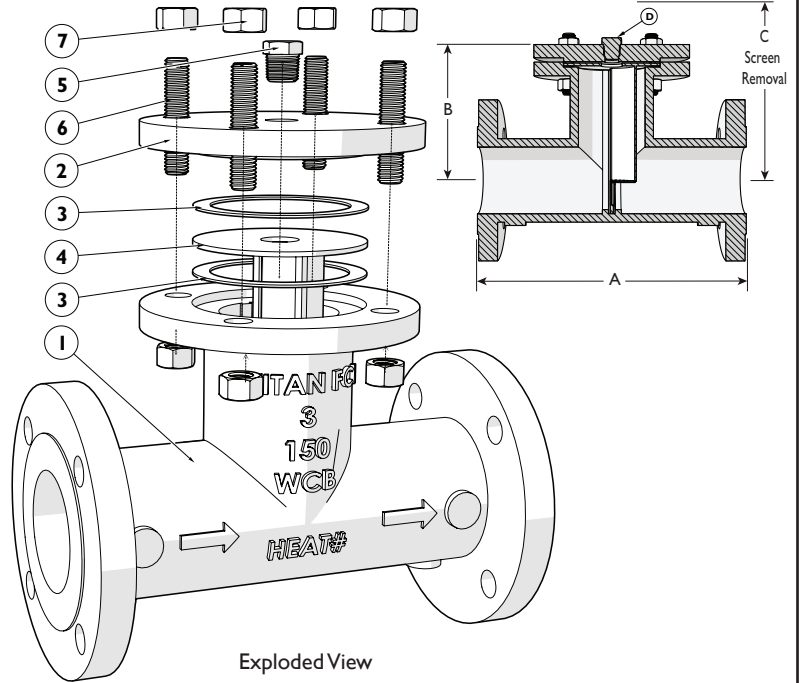
ASME Class
150

Flanged Ends • Raised Face • Carbon & Stainless Steel

BILL OF MATERIALS (1)

No.	PART	CT 21-CS	CT 21-SS
1	Body	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M
2	Cover	Carbon Steel A216 Gr. WCB	Stainless Steel A351 Gr. CF8M
3	Gasket (2) (3)	Stainless Steel Spiral Wound	Stainless Steel Spiral Wound
4	Straining Element (3)	Stainless Steel	Stainless Steel
5	NPT Plug Blow-off	Carbon Steel	Stainless Steel
6	Studs	Alloy Steel ASTM A193 B7	Stainless Steel ASTM A193 B8M
7	Nuts	Carbon Steel ASTM A194 2H	Stainless Steel ASTM A194 8M

1. Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
2. Denotes recommended spare parts.
3. A wide range of gasket materials are available; contact factory for more information.



DIMENSIONS AND PERFORMANCE DATA (1)

SIZE	in	2	3	4	6	8	10	12	14	16	18	20	24
	mm	50	80	100	150	200	250	300	350	400	450	500	600
A DIMENSION FACE TO FACE (2)	in	8.00	9.50	11.50	16.00	19.50	21.00	24.00	27.00	30.00	34.00	36.00	42.00
	mm	203	241	292	406	495	533	610	686	762	864	914	1067
B DIMENSION CENTER LINE TO TOP (COVER)	in	4.33	5.12	5.91	8.27	10.24	11.02	12.21	13.78	15.36	17.72	18.50	22.05
	mm	110	130	150	210	260	280	310	350	390	450	470	560
C DIMENSION SCREEN REMOVAL	in	9.7	12.97	13.83	19.57	24.47	27.05	30.42	34.19	38.36	44.07	46.63	55.73
	mm	246.4	329.4	351.3	497.1	621.5	687.1	772.7	868.4	974.3	1119.4	1184.4	1415.5
D NPT Plug BLOW-OFF	in	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1	1	1	1
	mm	15	15	15	15	20	20	20	20	25	25	25	25
ASSEMBLED WEIGHT APPROXIMATE	lb	29	57	97	190	320	441	540	794	1025	1257	1577	2271
	kg	13	26	44	86	145	200	245	360	465	570	715	1030
Flow Coefficient	C _v	76	208	320	650	1195	2125	2770	3580	4610	6060	7590	9890

1. Dimensions and weights are for reference only. When required, request certified drawings.
2. Face to face dimension includes raised face. These 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
ASME B16.5	Pipe Flanges and Flanged Fittings
ASME B16.10	Face-to-Face and End-to-End Dimensions of Valves
ASME B16.34	Flanged, Threaded, and Welding End
API Std 598	Valve Inspection and Testing

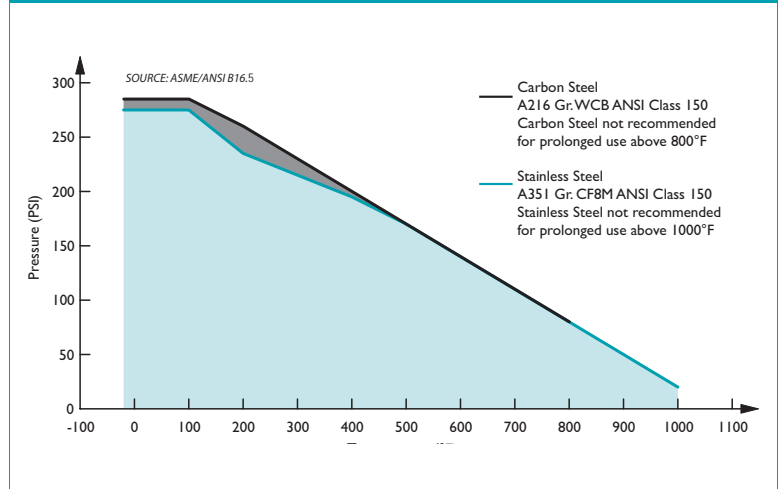
PRESSURE - TEMPERATURE RATING

Body Material	A216 Gr. WCB	A351 Gr. CF8M
WOG (Non-shock):	285 PSI @ 100 °F	275 PSI @ 100 °F

STANDARD SCREEN

Size	Perforation	Open Area
2" - 12"	1/8 (.125)	40%

PRESSURE - TEMPERATURE RATINGS



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.