

TITAN

DUPLEX STRAINER • THREADED AND FLANGED

Class 125 lb • CAST IRON



3" DS 691-CI

Models: DS 591-CI
(Threaded - Cast Iron)

DS 691-CI
(Flanged - Cast Iron)

Size Range: 3/4" ~ 4"

WORKING PRESSURES & TEMPERATURE - NON-SHOCK

ANSI 125 lb Class	DS 591 & DS 691-CI
WOG (Water, Oil, Gas)	200 PSI @ 150 °F
Saturated Steam	Not Recommended
MAX Liquid	200 PSI @ 150 °F

Features:

- HIGHLY DYNAMIC BALL SEALING SYSTEM (PATENT PENDING) ENSURES LONG SEAT LIFE AND POSITIVE SEALING.
- LOW TORQUE, EASY TO OPERATE HANDLE THAT DOES NOT REQUIRE A GEARBOX
- LOW MAINTENANCE SEAT AND STEM SEALS GUARD AGAINST POSSIBLE LEAKAGE WHILE PROVIDING IMPROVED SERVICE LIFE
- EQUIPPED WITH FOOT PADS TO ENSURE A SECURE, RELIABLE INSTALLATION
- DRAIN PLUGS ARE PROVIDED ON THE SIDE AND BOTTOM OF EACH BASKET CHAMBER
- VENT IS ALSO PROVIDED ON THE TOP OF THE STRAINER BODY
- NO-HASSLE STRAINER DESIGN ALLOWS BASKET CLEANING OPERATIONS TO BE PERFORMED QUICKLY AND EASILY - NO SPECIAL TOOLS ARE REQUIRED
- COMPACT, LOW PROFILE DESIGN CAPABLE OF BEING INSTALLED IN APPLICATIONS THAT HAVE LIMITED OR RESTRICTED SPACE - STILL UTILIZES FULL-SIZED STRAINER BASKETS
- ANSI 150 LB BRONZE, CARBON STEEL, AND STAINLESS STEEL UNITS ARE ALSO AVAILABLE

*Ideal Design for Industrial and Commercial Applications
with Non-Interruptible Flow Requirements*



TITAN FLOW CONTROL

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DUPLEX STRAINER

MODEL: DS 591-CI

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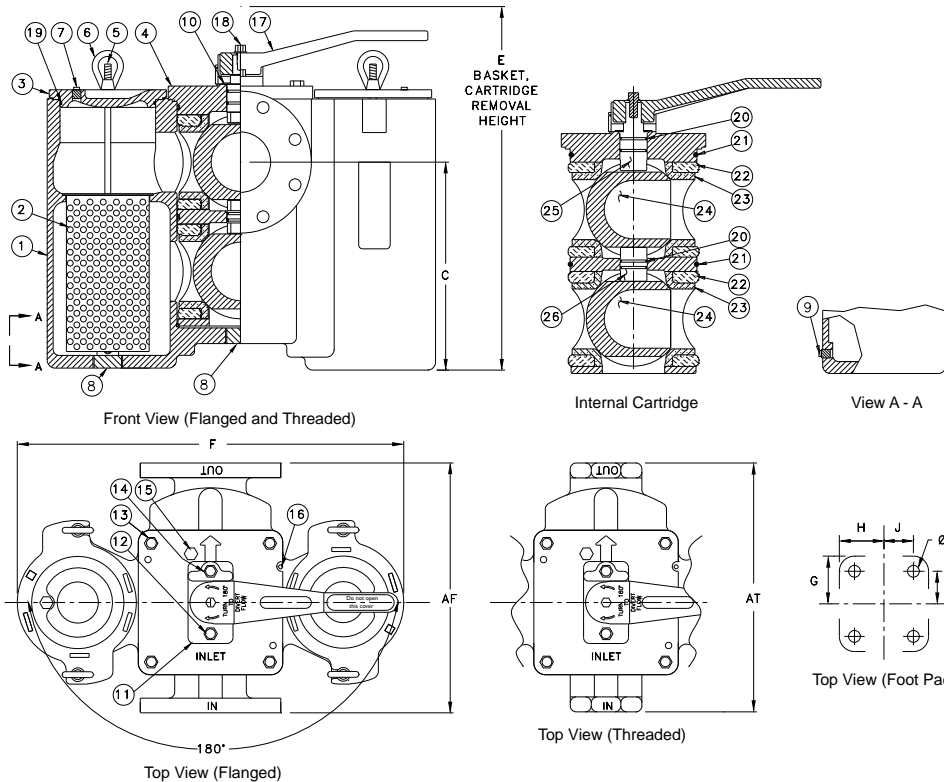
CAST IRON

CAST IRON

THREADED ENDS

FLANGED ENDS

ANSI Class 125 lb



BILL OF MATERIALS			
No.	PART	MATERIAL (1)	QTY
1	Body	Cast Iron A126 CL. B	1
2	Basket	T-316 Stainless Steel	2
3	Cover	Ductile Iron A395	2
4	Cartridge	Ductile Iron A395	1
5	Stud	Carbon Steel	4
6	Eye Nut	Carbon Steel	4
7,8,9	Pipe Plug	Cast Iron	2,3,2
10	Washer	Stainless Steel	1
11	Stem Retainer	Stainless Steel	1
12,13,14	Cap Screw	Carbon Steel	1,4,1
15	Vent Valve	Brass	1
16	Pin	Carbon Steel	1
17	Handle	D.I. / C.S.	1
18	Cap Screw	Carbon Steel	1
19,20,21	O-ring	Buna-N	2,4,2
22	Seal	Buna-N	4
23	Seat	Teflon	4
24	Ball	Stainless Steel	2
25,26	Stem	Stainless Steel	1,1

*Recommended spare parts

DIMENSIONS: (2)

SIZE (3)	in	3/4 (4)	1	1 1/4 (4)	1 1/2	2	2 1/2	3 (5)	4 (5)
AF DIMENSION FLANGED FACE-TO-FACE	in	---	6.88	---	9.38	10.63	10.75	13.50	16.00
	mm	---	175	---	238	270	273	343	406
AT DIMENSION THREADED FACE-TO-FACE	in	5.50	5.50	7.50	7.50	10.00	10.00	---	---
	mm	140	140	190	190	254	254	---	---
C DIMENSION CTR. LINE TO BOTTOM	in	5.00	5.00	6.81	6.81	8.38	8.38	8.88	13.25
	mm	127	127	173	173	213	213	226	337
E DIMENSION SCREEN REMOVAL	in	13.38	13.38	17.00	17.00	21.75	21.75	26.50	33.00
	mm	340	340	432	432	552	552	673	838
F DIMENSION WIDTH	in	10.50	10.50	13.25	13.25	17.38	17.37	22.75	24.75
	mm	268	268	330	330	441	441	578	629
G DIMENSION FOOT PAD	in	3.25	3.25	3.25	3.25	4.69	4.69	4.69	5.19
	mm	83	83	83	83	119	119	119	132
H DIMENSION FOOT PAD	in	2.13	2.13	2.13	2.13	2.50	2.50	2.50	3.94
	mm	54	54	54	54	64	64	64	100
J DIMENSION FOOT PAD	in	1.63	1.63	1.63	1.63	1.81	1.81	1.81	3.25
	mm	41	41	41	41	46	46	46	83
K DIMENSION FOOT PAD	in	2.75	2.75	2.75	2.75	4.00	4.00	4.00	4.50
	mm	70	70	70	70	102	102	102	114
L DIMENSION FOOT PAD	in	.375	.375	.375	.375	.625	.625	.625	.625
	mm	10	10	10	10	16	16	16	16
WEIGHT FLANGED	lb	---	42	---	90	167	183	285	389
	kg	---	19	---	41	76	83	129	177
WEIGHT THREADED	lb	37	37	80	80	157	157	---	---
	kg	17	17	36	36	71	71	---	---
Flow Coefficient (7)	C _v	13	14	19	24	42	68	105	180

STANDARD SCREEN SELECTIONS

Sizes	Water Service	Open Area	Steam	Open Area
3/4" ~ 4"	1/16 (.0625)	37 %	Not Recommended	

A wide range of optional materials, wire mesh, perforated screens and magnetic assemblies are available.

WORKING PRESSURES & TEMPERATURE - NON-SHOCK

ANSI 125 lb Class	DS 591/691-CI
WOG (Water, Oil, Gas) (6)	200 PSI @ 150 °F

APPLICABLE STANDARDS

Cast Iron - Pipe Flanges	ASME/ANSI B16.1
Cast Iron - Threaded Fittings	ASME/ANSI B16.4

Design and Applications Notes:

1. Bronze, Carbon, and Stainless Steel units are also available.
2. Dimensions are for reference only. When required, request certified drawings.
3. Larger sizes (5" ~ 8") are available. Please consult factory for pricing and delivery.
4. Flanged units are not available in 3/4" or 1 1/4".
5. Threaded units are not available in 3" or 4".
6. Duplex Strainers are not recommended for steam service.
7. Flow Coefficient shown is only for clean, perforated baskets.

Ordering Code: _____ Size: _____

Customer/Project: _____

Inq./P.O. No.: _____

Titan Order No.: _____

Certified By: _____ Date: _____

Engineering Specification Submittal

Titan FCI makes every effort to ensure the information presented on our literature accurately reflects exact product specifications. However, as changes occur, there may short-term differences between actual product specifications and the data on our literature. Titan FCI reserves the right to make specification changes to improve our products without prior notification.

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Size	Model Number	Description	Drawing No.