DUPLEX STRAINER * QUAD BALL TYPE * THREE PIECE BODY

ASME CLASS 125 (CI) & 150 (CS & SS) * FLANGED

Design!

Titan Series – 695/696

MODELS: DS 695-CI

(Flanged - Cast Iron)

DS 696-CS

(Flanged - Carbon Steel)

DS 696-SS

(Flanged - Stainless Steel)



FEATURES

SIZE RANGE: 6" ~ 8"

O UNIQUE QUAD-BALL DIVERSION SYSTEM

REVOLUTIONARY FOUR BALL DESIGN THAT EFFICIENTLY DIVERTS THE PIPELINE FLOW FROM ONE CHAMBER TO THE OTHER. TEFLON SEATS ENSURE A POSITIVE SEAL AND HELP TO PREVENT SEEPAGE INTO THE CHAMBER THAT IS BEING CLEANED.

O LOW OPERATING TORQUE

TITAN FCI'S DUPLEX STRAINER FEATURES A LOW TORQUE, EASY TO OPERATE HANDLE THAT DOES NOT REQUIRE ANY AUTOMATION. ADDITIONALLY, THE HANDLE'S POSITION CLEARLY INDICATES WHICH BASKET IS IN SERVICE AND WHICH BASKET CAN SAFELY BE REMOVED FOR CLEANING.

O REDUCED MAINTENANCE

THE OUAD BALL DESIGN ISOLATES EACH CHAMBER AND KEEPS THE SERVICING CHAMBER DRY DURING CLEANING. NO SPECIAL TOOLS ARE REQUIRED TO ACCESS AND REMOVE THE STRAINING ELEMENT FROM THE CHAMBER. COVER VENTS, DRAIN PLUGS, AND FOOT PADS ARE PROVIDED ON EACH CHAMBER.

O NUMEROUS OTHER BENEFITS

TITAN'S NEW DESIGN OFFERS COUNTLESS OTHER ADVANTAGES INCLUDING: NO INTERRUPTION IN SERVICE, COMPACT STRUCTURE, LONG SERVICE LIFE, AND LOW PRESSURE DROP.

TECHNICAL

PRESSURE/TEMPERATURE RATING (1) CAST IRON - A126 GR.B - CLASS 125

WOG (Non-shock): 200 PSI @ 150 °F

PRESSURE/ TEMPERATURE RATING (1) CARBON STEEL- A216 GR. WCB - CLASS 150

WOG (Non-shock): 285 PSI @ 100 °F

PRESSURE/ TEMPERATURE RATING (1) STAINLESS STEEL- A351 GR. CF8M - CLASS 150

WOG (Non-shock): 275 PSI @ 100 °F

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

GENERAL APPLICATION: THE DUPLEX STRAINER IS A UNIQUE PRODUCT WITHIN THE PIPELINE INDUSTRY. LIKE OTHER BASKET STRAINERS, THE DUPLEX STRAINER PROTECTS EXPENSIVE DOWNSTREAM EQUIPMENT BY MECHANICALLY REMOVING SOLIDS FROM FLOWING FLUIDS VIA A PERFORATED, MESH, OR WEDGE WIRE STRAINING ELEMENT, HOWEVER, THE DUPLEX STRAINER IS DESIGNED WITH TWO BASKET CHAMBERS AND A FLOW DIVERTER SYSTEM THAT ALLOWS THE PIPELINE FLOW TO BE SWITCHED FROM ONE CHAMBER TO THE OTHER, COMPLETELY ISOLATING THE FLOW TO A SINGLE CHAMBER. THIS MAKES THE DUPLEX STRAINER IDEAL FOR NON-INTERRUPTIBLE APPLICATIONS THAT CANNOT BE SHUT DOWN DURING ROUTINE MAINTENANCE AND CLEANING OPERATIONS.

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 Series – 695/696

DUPLEX BASKET STRAINER Flanged Ends

DS 696-CS (Carbon Steel) • DS 696-SS (Stainless Steel)
DS 695-CI (Cast Iron)

125 CI

ASME Class

ASME Class 150 CS & SS

		BILL OF	MATERIALS	115
No.	Part	DS 696-CS	DS 696-SS	DS 695-CI
1	Body	Carbon Steel A216 Gr.WCB	Stainless Steel A351 Gr. CF8M	Cast Iron A126 Gr. B
2	Straining Element (3)	Stainless Steel	Stainless Steel	Stainless Stee
3	Cover	Carbon Steel A216 Gr.WCB	Stainless Steel A351 Gr. CF8M	Cast Iron A126 Gr. B
4	Ball	Stainless Steel Type 304	Stainless Steel Type 304	Stainless Stee Type 304
5	O-Ring	Buna-N	Viton	Buna-N
6	Seat	Teflon (PTFE)	Teflon (PTFE)	Teflon (PTFE)
7	Seal	Buna-N	Viton	Buna-N
8	O-Ring Body	Buna-N	Viton	Buna-N
9	Handle	Carbon Steel Zinc Coated	Carbon Steel Zine Coated	Carbon Steel Zinc Coated

- Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.
- 2. Aluminum Bronze units are also available.
- 3. Denotes recommended spare parts.

SIZE (2)	in	6"	8"
	mm	300	350
AF DIMENSION	in	22	26.75
FACE TO FACE	mm	559	680
B DIMENSION	in	35.31	48.50
UNIT WIDTH (INCLUDING PLUG)	mm	897	1368
C DIMENSION	in	35.63	45.12
HEIGHT WITH HANDLE	mm	905	1146
D DIMENSION	in	24.45	30.39
CENTER LINE TO BOTTOM	mm	621	772
E DIMENSION	in	48	62
BASKET REMOVAL	mm	1220	1575
APPROXIMATE WEIGHT	lb	850	1600
DS DS695/696, FLANGED	kg	386	726
Flow Coefficient	C _v	429	776

Dimensions, weights, and flow coefficients are provided for reference only.
 Always request certified drawings.

Please contact factory for more information.

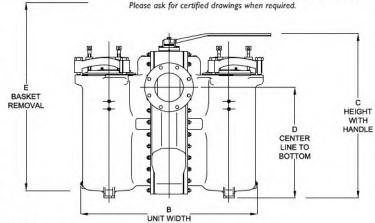
Larger, fabricated duplex strainers are available. Fabricated duplex strainers can be designed to meet any space or application requirements.

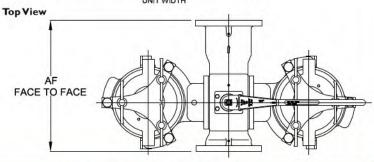
6	CutView	
	9 3 1 5	
	2	

Cut parts shown with hatch.

Front View

Illustrations are representative of a I" DS696-CS (Flanged model).





PRESSURE - TEMPERATURE RATING

25 DS 695-CI	
200 PSI @ 150 °F	
DS 696-CS	DS 696-SS
285 PSI @ 100 °F	275 PSI @ 100 °F
	DS 696-CS

	STANDA	RD SCREEN SELE	CTIONS	
Size	Liquid	Open Area	Steam	Open Area
6" ~ 8"	1/8" (0.125)	41%	Not Rec	commended

MATERIAL TEMPERATURES	
Temp Range	
-20 ~ 250 °F	
-40 ~ 400 °F	
Max 450 °F	

REFERENCED STANDARDS & CODES		
Code	Description	
ASME/ANSI B16.5	Pipe Flanges and Flanged Fittings	
ASME/ANSI B16.11	Forged Steel Fittings, Socket-Welding, and Threaded	
ASME B16.1	Gray Iron Pipe Flanges and Flanged Fittings	