Style FDI-20-30



FABRICATED INLINE DUPLEX STRAINERS

2" - 24"

ANSI CLASS 150, 300

LARGER SIZES AVAILABLE

Fabricated Duplex strainers are required when an off-the-shelf solution will not meet your exact piping requirements. All of our Fabricated Strainers are made right here in the USA, at our state-of-the-art facility in the southeastern part of North Carolina.

20" Fabricated Duplex Strainer with Internal Epoxy Coating shown

All pictures shown are for illustrative purposes only.
Actual product may vary due to product enhancement.

Sizes 2" - 24"

Contact Factory for Larger Sizes

MODELS

FDI 20 Series - 150 Class FDI 30 Series - 300 Class

MATERIALS:

Carbon SteelStainless SteelOther Alloys

OPTIONS



- Gauge Taps
- Vent/drains (Standard)
- Back Flush Valves
- Semi-Automatic
- Pressure Gauges
- DP Gauge Switch
- Support Legs

CUSTOM COVER SOLUTIONS INCLUDING DAVITS & HINGED COVER





HINGED

DAVIT

BOLTED

ANSI CLASSES

ANSI Class 150 up to high pressure 600 class



STRAINING ELEMENTS

Customize to fit your requirements

Heavy Duty Baskets, Wedge Wire, & Multi Basket Designs



END CONNECTIONS

Flanged, Raised Face, RTJ, Butt Weld, Socket Weld, Threaded



SANITARY

Sanitary Application Designs for food/pharmaceutical processing



TEMPERATURE CONTROL

Steam Jacket casing for set temperature control



UNIQUE PROJECTS

Rotated and Offset Nozzles to fit into your applications





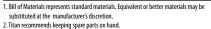
Brisbane, Australia www.monarchindustrial.com.au www.monarchasiapacific.com.au TITAN FLOW CONTROL, INC

FDI 20 & FDI 30 Series **Duplex Strainer**

ANSI Class 150,300

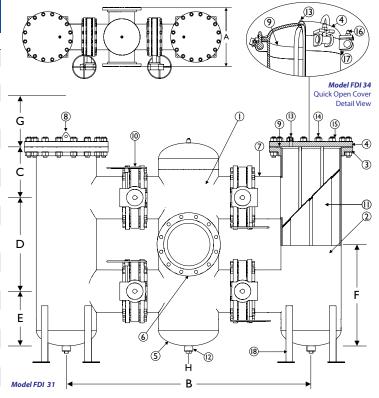
FDI 20 & FDI 30 Series											
	Part	FDI 20 & FDI 30 Carbon Steel	FDI 20 & FDI 30 Stainless Steel								
1	Column Body	Carbon Steel A106 Gr.B	Stainless Steel SA312 Type 316								
2	Basket Housing Body	Carbon Steel A234	Stainless Steel SA312 Type 316								
3	Body Flange	Carbon Steel A105	Stainless Steel SA182 Type 316								
4	Cover	Bolted: Carbon Steel A105 Quick-Open: Carbon Steel A516 Gr.70	Bolted: Stainless Steel SA182 Type 316 Quick-Open: Stainless Steel Type 316								
5	Pipe Cap	Carbon Steel A234	Stainless Steel SA 403 Type 316								
6	Inlet/Outlet Flange	Carbon Steel A105	Stainless Steel SA182 Type 316								
7	Nozzle Inlet/Outlet	Carbon Steel A106 Gr.B	Stainless Steel SA312 Type 316								
8	Lifting Lug	Carbon Steel	Stainless Steel								
9	Gasket/O-Ring ⁽²⁾	asket/O-Ring ⁽²⁾ Bolted Cover: Spiral Wound Stainless Steel Quick-Open: Buna-N ⁽³⁾									
10	Butterfly Valve	Butterfly Valve: BF 76 Ductile Iron Body, Ductile Iron Nickle Coated Disc ⁽⁵⁾ , Buna/EPDM Seat with Gear Operator									
11	Straining Element ⁽²⁾	T304 SS	T304 SS								
12	Drain	Carbon Steel A105	Stainless Steel SA182 Type 316								
13	Vent with Plug ⁽⁴⁾	Carbon Steel A105	Stainless Steel SA182 Type 316								
14	Studs	Carbon Steel A193 B7	Stainless Steel A193 B8 M								
15	Nuts	Carbon Steel A194 2H	Stainless Steel A194 Gr.8								
16	T-Bolt	Carbon Steel S A325	Stainless Steel								
17	T-Bolt Closure	Carbon Steel	Stainless Steel Type 316								
18	Support Legs ⁽⁶⁾	Carbon Steel	Stainless Steel								

RILL OF MATERIALS



^{5.} Stainless Steel discs are used for applications requiring all stainless parts. 3. Buna-N is standard for applications below 250° F. Viton is standard for applications above 250° F. 6. Support legs are optional. Call factory.

4. 1/2" NPT is standard



Illustrations are representative of Titan FCI fabricated duplex strainers; however, as with all fabricated designs, actual products may vary. Illustration is representative of multi-basket style (sizes 12" and up). 2" - 10" are single basket style.

Certified drawings are required for all Titan fabrications. Support legs are optional, contact factory for details.

FDI 20 & FDI 30 Series Inline Duplex Strainer Dimensions: 2" - 24" ANSI CLASS 150, 300

DIMENSIONS AND WEIGHTS ⁽¹⁾													
	in	2	3	4	6	8	10	12	14	16	18	20	24
	mm	50	80	100	125	150	200	250	350	400	450	500	600
A - Face to Face (2)	in	10.25	12.50	14.50	18.50	22.25	25.25	29.25	32.25	34.25	38.25	41.63	46.25
FDI 21, FDI 24, FDI 31, FDI 34	mm	260	318	368	470	565	641	743	819	870	972	1057	1175
B - Center Column to	in	32.18	34.63	43.25	49.63	55.75	62.44	73.25	78.25	85.00	90.50	101.88	114.13
Center Column	mm	817	880	1099	12.61	1416	1586	1861	1988	2159	2299	2588	2899
C - Center of	in	6.63	7.25	8.75	10.00	11.25	13.25	15.19	15.75	18.19	18.19	23.13	27.06
Top Valve to Top (3)	mm	168	184	222	254	286	337	386	400	462	462	588	687
D - Valve to Valve	in	13.00	13.00	17.00	17.00	21.00	25.00	28.00	30.00	34.00	36.00	40.00	48.00
	mm	330	330	432	432	533	635	711	762	864	914	1016	1219
E - Center of Bottom	in	6.69	6.63	8.25	10.31	12.31	14.38	16.38	18.00	20.50	21.50	22.50	24.50
Valve to Bottom	mm	170	168	210	262	313	365	416	457	521	546	572	622
F - Centerline	in	13.19	13.13	16.75	18.81	22.81	26.88	30.38	33.00	37.50	39.50	42.50	48.50
to Bottom ⁽⁴⁾	mm	335	334	426	478	580	683	772	838	953	1003	1080	1232
G - Screen Removal	in	24.00	25.00	32.00	34.00	40.00	47.00	53.00	56.00	64.00	67.00	77.00	91.00
	mm	610	635	813	864	1016	1194	1346	1422	1626	1702	1956	2311
H - NPT	in	.75	.75	1.00	1.00	1.50	1.50	1.50	2.00	2.00	2.00	2.00	2.00
	mm	19	19	25	25	38	38	38	51	51	51	51	51
Approximate Weight	lb	370.00	450.00	690.00	1100.00	1750.00	2550.00	4260.00	4325.00	6100.00	6500.00	10150.00	14750.00
	kg	168.00	204.00	313.00	499.00	794.00	1157.00	1932.00	1962.00	2767.00	2948.00	4604.00	6691.00

^{1.} Dimensions and weights of FDI 21, FDI 24, FDI 31, and FDI 34 are provided for reference only. Certified drawings are required for all Titan fabrica 2. Face to face values have a tolerance of ± 0.06 in $(\pm 2.0$ mm) for sizes 10" and lower and a tolerance of ± 0.12 in $(\pm 3.0$ mm) for sizes 12" and larger.

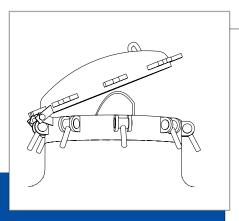
 $^{3. \ \} Centerline\ dimension\ is\ from\ the\ top\ of\ body\ housing. Does\ not\ include\ cover.\ Quick\ open\ cover\ dimension\ is\ to\ the\ top\ of\ body\ housing.$ 4. Centerline to bottom dimension is to bottom of body housing and does not include the NPT plug.

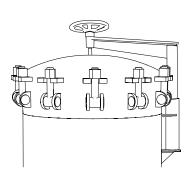


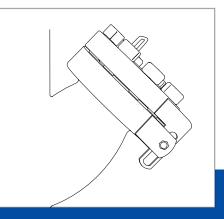
OPTIONS FOR FABRICATED PRODUCTS

COVER OPTIONS - FABRICATED STRAINERS

Titan Flow Control, Inc. cover options are designed for various strainers types and sizes so that the straining element is accessible for cleaning and maintenance, an important concern especially with large strainers. To make sure that you choose the best cover for your application, ask a Titan Sales Representative or Engineer.







Hinged Cover (T-Bolt)

A **Hinged Cover** is a quick opening cover that is secured with bolts around the outside of the cover. Rotating on its hinge, this cover is easiest to maneuver when it is on a small strainer, in a vertical position, or on the bottom of the strainer.

Davit Cover Assembly

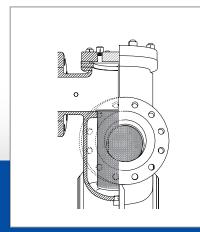
Davit Cover Assemblies mechanically aid in removing and replacing covers that would normally be too large for one operator to adjust unaccompanied. Lift davits also ensure that the cover is properly positioned and aligned with strainer.

Bolted Slide Hinge Cover

With a Bolted Slide Hinge Cover, the cover slides slightly away from the strainer so it has clearance to rotate. Although these covers in small sizes may be removed by a single operator, a lifting eye is available to aid in removal of larger covers.

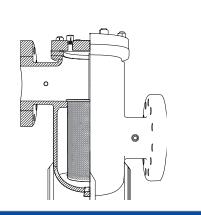
FLOW OPTIONS - FABRICATED STRAINERS

Titan Flow Control, Inc. offers various options for the placement of inlet and outlet nozzles in order to accommodate each unique piping system. Please contact the factory with your needs, questions, and concerns.



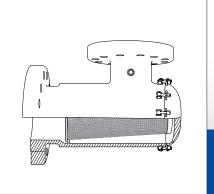
Right Angle Flow

Right Angle Flow fabricated strainers can be placed in a pipeline where a it has a 90 degree corner, eliminating the need for a pipeline elbow.



Offset Flow

Offset Flow fabricated strainers can align with pipes at different levels.



Horizontal-Vertical Flow

Horizontal-Vertical Flow fabricated strainers accommodate piping systems in which the flow changes from horizontal to vertical.

Contact Titan Flow Control, Inc. to learn about additional capabilities and information related to Titan's Fabricated Designs. This brochure is general in nature and is not a substitute for discussing your specific piping requirements with a Titan Sales Representative and obtaining certified engineering drawings.