

CONTACT TITAN FLOW CONTROL, INC.

Tel: 910.735.0000
Fax: 910.738.3848
Email: titan@titanfci.com
Web: www.titanfci.com



TITAN FLOW CONTROL, INC

Centrifugal *Cyclone* Strainer

**PATENT
PENDING
DESIGN!**



*Unique,
Motor-Operated
Centrifugal
Cyclone Strainer*

Sizes 2 - 12"

OVERVIEW

CENTRIFUGAL STRAINERS

PURPOSE for a safe and clean way to remove debris from pipelines. As pictured on the left, the Centrifugal Cyclone Strainer is an electric motor-operated bottom of the unit.

APPLICATIONS Centrifugal Cyclone Strainers are recommended when pipeline services are hot or toxic, when spills from the strainer need to be prevented, or when basket removal is inconvenient or impractical. Common applications for self-cleaning strainers are for the protection of equipment in steel, petrochemical, and power generation industries as well as in the Navy and Coast Guard.

FEATURES

ADVANTAGES OF CENTRIFUGAL CYCLONE STRAINER

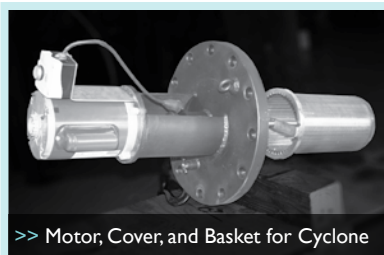
SIMPLE TO USE The Centrifugal Cyclone Strainer is easy to operate and maintain because it has no parts to lose, no gaskets to break, and no baskets to remove or clean.

NO SPILLS! Spills from the strainer are eliminated as cleaning is accomplished via the rotating basket and bottom drain valve - - There is no need to remove a dirty basket.

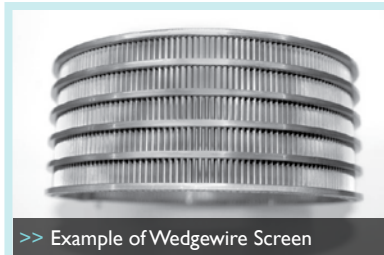
SAFE OPERATION The risk of an operator accidentally opening a cover when the strainer is under pressure is eliminated with a Centrifugal Cyclone Strainer because the cover is not removed during cleaning. Also, NO TOOLS are required to operate/clean!

SAFETY FROM HARMFUL PRODUCTS Operators are not exposed to hot or toxic products, providing a safe working environment.

EXTENDED SERVICE LIFE Centrifugal Cyclone Strainer units do not have to be serviced as often as basket strainers because operational induced wear is slight.



>> Motor, Cover, and Basket for Cyclone



>> Example of Wedgewire Screen



>> Drain Valve on Bottom of Strainer

IMAGES

TITAN FLOW CONTROL, INC

Centrifugal *Cyclone* Strainer

SIZE RANGE: 2" through 12"

PRESSURE RANGE: 150 lb. to 600 lb.

MATERIALS: Carbon Steel
Stainless Steel
Copper Nickel 90/10
Aluminum

AVAILABLE OPTIONS:

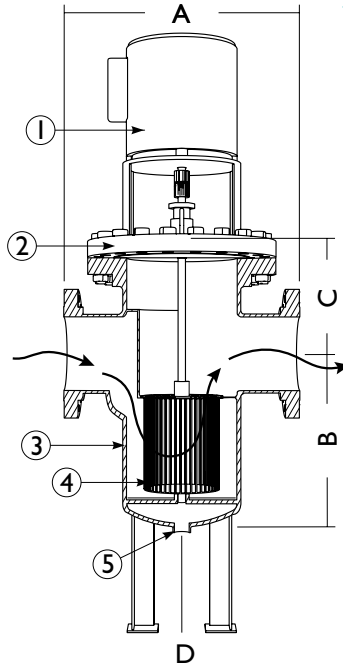
- Drain Valves
- Air Vents
- Perforated Baskets
- Mounting Legs
- Steam Jackets
- Motors: 110V, 230V Single-phase, 230V Double Phase, Explosion proof

• **AND MORE...**
Ask a Titan FCI Engineer!

BILL OF MATERIALS

- NO: PART:**
- 1 Motor
 - 2 Cover
 - 3 Body
 - 4 Straining Element
 - 5 Drain Valve

This simplified illustration is representative of Titan FCI's Centrifugal Cyclone Strainer; however, as with all fabricated designs, actual products may vary. When required, request certified drawings.



DESIGN NOTES

- >> Titan Flow Control, Inc. fabricates the Centrifugal Cyclone Strainer according to the specifications required for each unit so **dimensions, materials, and options may vary.**
- >> The high quality stainless steel wedgewire element is highly effective in removing contaminant particles as small as 50 microns.
- >> Also available with a fully automatic electric or pneumatic operator with timer or differential pressure switch.
- >> **Method of operation:** The fluid enters the strainer vessel and passes down outside of the wedgewire screen. As the flow moves from outside to inside the straining element, the debris is trapped on the outside of the wedgewire screen. The flow is uninterrupted and the strained, clean fluid continues into the outlet of the strainer body.
- >> **Cleaning the screen:** Open the blow-down drain, press motor switch and hold for brief period. The screen spinning forces the debris to detach and is expelled to the drain. Close the valve.

DIMENSIONS 150 lb. only ⁽¹⁾

150 lb. Only	Size:	in	4	5	6	8	10	12
		mm	100	125	150	200	250	300
A Dimension ⁽²⁾ Face to Face	in	mm	16.0	16.0	20.0	22.0	32.0	35.0
			406	406	508	559	813	889
B Dimension ⁽³⁾ Center to Bottom	in	mm	14.0	15.0	17.0	21.0	25.0	28.0
			356	381	432	533	645	711
C Dimension ⁽⁴⁾ Center to Top	in	mm	10.75	11.25	12.0	13.25	14.5	15.75
			273	286	305	337	368	400
D Dimension NPT	in	mm	1.0	1.0	1.0	1 1/2	1 1/2	1 1/2
			25	25	25	40	40	40



¹ 8]a Ybg]cbg'UbX'k Y][\hg'UFY' dfc]]XYX ZcF % \$ ``V'' gnfU]bYF ZcF fYZfYbW' cb m'K \ Yb 'fYeI]fYXzfYeI YghWfH] YX'XfUk]b[g"
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.
³ Center to Bottom, Dimension B, does not include drain valve, legs, or any other available options that may extend below the body of the strainer.
⁴ Center to Top, Dimension C, does not include motor. Motor size may vary depending on design. Please contact factory for this dimension.

Titan FCI's fabricated products are made to each customer's unique specifications. Dimensions, materials, and all other product details referenced in this literature are general in nature. Some options may not be available in all sizes and/or models. Titan FCI reserves the right to make design and specification changes to improve the products without prior notification. For exact product specifications, please consult the Titan FCI factory and request certified engineering documents.

TITAN FLOW CONTROL, INC

290 Corporate Drive
Lumberton, NC 28358

Tel: 910.735.0000
Fax: 910.738.3848
Email: titan@titanfci.com
Web: www.titanfci.com