



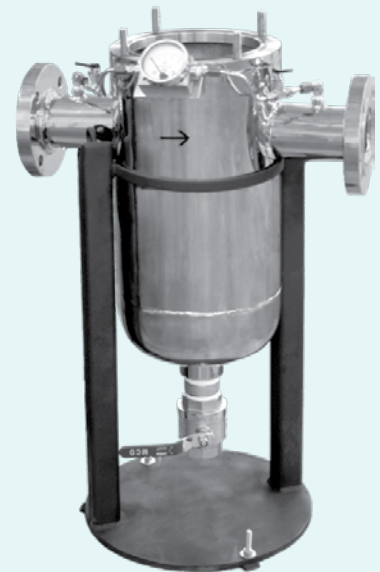
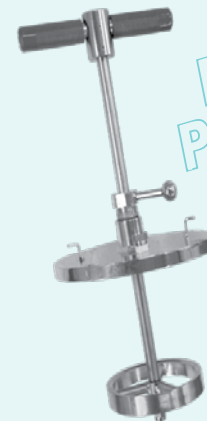
# TITAN FLOW CONTROL, INC

## Push-Clean Strainer

**SIZE RANGE:** 1" through 20"  
**PRESSURE RANGE:** 150 lb. to 600 lb.  
**MATERIALS:** Carbon Steel  
 Stainless Steel  
 Copper Nickel 90/10  
 Special Alloys

**PATENT  
 PENDING  
 DESIGN!**

*Unique,  
 Hand-Operated  
 Push-Clean  
 Strainer*



### OVERVIEW PUSH-CLEAN STRAINERS

**PURPOSE** The purpose of a push-clean strainer is to provide a way to remove debris from pipelines. As pictured on the right, the strainer is a hand-operated manual strainer with a scraper blade, which facilitates debris removal through a

**APPLICATIONS** Push-Clean 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 push-clean 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 PUSH-CLEAN STRAINER OVER A BASKET STRAINER

**SIMPLE TO USE** The Push-Clean 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

**SAFE OPERATION** The risk of an operator accidentally opening a cover when the strainer is under pressure is eliminated with a Push-Clean 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** Push-Clean Strainer units do not have to be serviced as often as basket strainers because operational induced wear is slight.

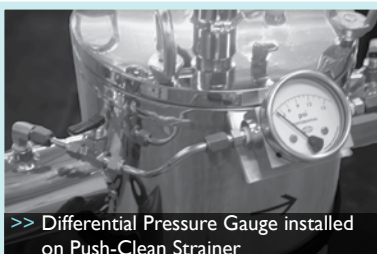
### OPTIONS AVAILABLE OPTIONS FOR A TITAN FCI PUSH-CLEAN STRAINER

- Drain Valves
- Air Operation for large sizes
- Air Vents
- Wedgewire Straining Baskets (Range 0.002 to 0.125" slots)
- Perforated Baskets (Range 1/32" to 1/2" diameter holes)
- Mounting Legs
- Steam Jackets
- **AND MORE...** Ask a Titan Engineer!

**Also available**  
**Titan FCI's**  
**BS 35**  
 as a  
**MINI**  
**Push-Clean**  
**Strainer**



### IMAGES



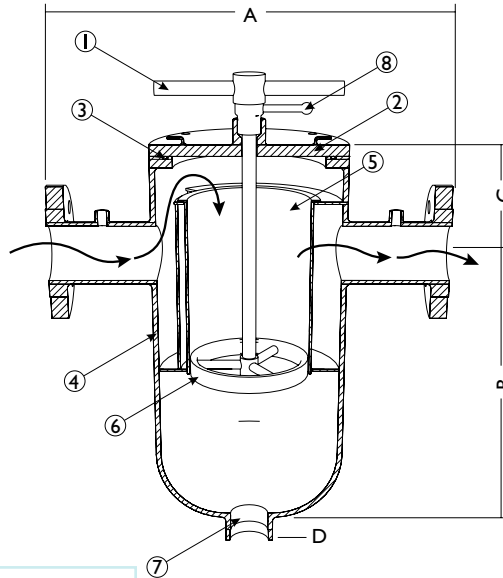
# TITAN FLOW CONTROL, INC

## Push-Clean Strainer

### BILL OF MATERIALS

NO: PART:

- 1 Handle
- 2 Cover
- 3 O-Ring
- 4 Body
- 5 Straining Element
- 6 Scraper
- 7 Drain Valve
- 8 Sealing Gland Adjustment



### OPTIONS:

- Sizes: 150 lb. to 600 lb.
- Pressures: 150lb. to 600lb.
- Materials: Carbon Steel, Stainless Steel, Copper Nickel 90/10, Special Alloys
- Drain Valves
- Air Operation for large sizes
- Air Vents
- Wedgewire Straining Baskets (Range 0.002 to 0.125" slots)
- Perforated Baskets (Range 1/32" to 1/2" diameter holes)
- Mounting Legs
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*This simplified illustration is representative of Titan FCI's Push-Clean Strainer; however, as with all fabricated designs, actual products may vary. When required, request certified drawings.*

### DIMENSIONS 150 lb. only <sup>(1)</sup>

150 lb. Only	Size:	in	4	5	6	8	10	12	14	16	18	20
		mm	100	125	150	200	250	300	350	400	450	500
<b>A Dimension <sup>(2)</sup></b>		in	16	16	20	22	32	35	37	42	42	43
Face to Face		mm	406	406	508	559	813	889	940	1067	1067	1092
<b>B Dimension <sup>(3)</sup></b>		in	14	15	17	21	25	28	33	36	39	44
Center to Bottom		mm	356	381	432	533	645	711	838	914	991	1118
<b>C Dimension <sup>(4)</sup></b>		in	10.75	11.25	12	13.25	14.5	15.75	16.5	17.75	19	21
Center to Top		mm	273	286	305	337	368	400	419	451	483	533
<b>D Dimension</b>		in	1	1	1	1 1/2	1 1/2	1 1/2	2	2	2	2
NPT		mm	25	25	25	40	40	40	50	50	50	50

<sup>(1)</sup> 8ja Ybgjcbg UbX'k Y][ \rg UFY dfcj ]XYX Zcf fYZfYbW' cb'm'K \Yb fYei ]fYXZ'fYei YghWfth] 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 handle. Handle height may vary depending on design. Please contact factory for this dimension.

### DESIGN NOTES

- >> Titan Flow Control, Inc. fabricates the Push-Clean Strainer according to the specifications required for each unit so **dimensions, materials, and options may vary**. Contact a Titan FCI Engineer with your unique needs.
- >> The Push-Clean Strainer has an **over-the-top flow**. It is available with a horizontal flow pattern as well as an offset flow pattern.
- >> **HOW IT WORKS** As the strainer becomes dirty, differential pressure will increase indicating that cleaning of the unit is necessary. The unit can be cleaned by a simple push and pull of the piston, forcing the debris out the bottom of the strainer. The drain valve (where the debris exits) must be opened before cleaning and closed before resuming normal operation.
- >> The Push-Clean Strainer is also available as a cast unit. Titan offers the **BS 35 CS/SS** with an unique scraper and handle, These dimensions are located on the BS 35 cut sheet, but do not include the additional height and weight added by the handle. Please contact factory.



*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.*

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