



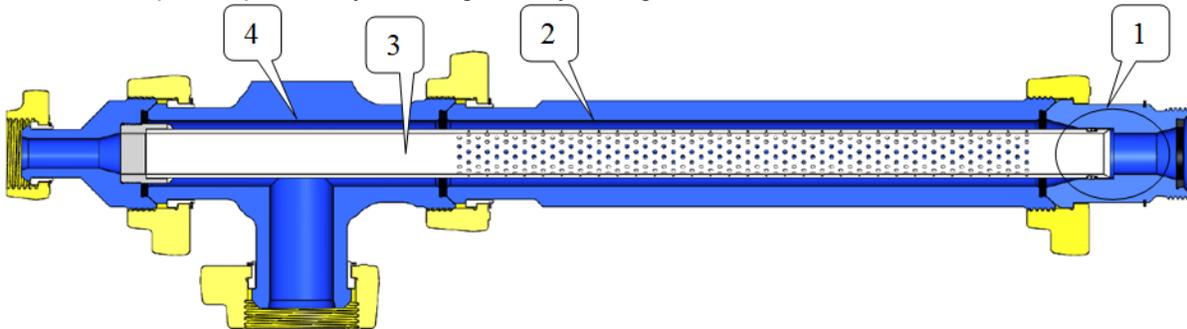
## Small Barrel Trash Catcher Improvements

MSI Technical Bulletin 063

Subject: Improvements made to trash catcher components (inlet adapter, screen, barrel, & tee body)

The intent of this bulletin is to outline improvements to the small barrel trash catcher assembly based on user feedback. All old and new parts mentioned in the table below are interchangeable in any combination. However, to take advantage of all improvements mentioned herein, all new parts listed must be present.

- 1) Added external seal to inlet of screen forcing all debris to enter the screen. The inlet adapter now has an ID that matches the screen ID to help guide the flow directly into the screen. This reduces erosion on the inlet adapter by preventing the flow from going around screen inlet.
- 2) Increased the internal diameter on the barrel by utilizing an integral tube rather than NPST flowline. The flow area around the screen is increased by 280%. The increased annulus reduces erosion and makes removal of the screen easier.
- 3) The screen hole pattern was revised to increase flow area through the screen and limit damage to the pressure-containing parts. Holes on the screen that lined up with the tee body were removed to extend tee life. Hole density in the barrel was increased resulting in 24% more flow area on the short version screen and 41% more on the long version screen. Velocities through screen holes reduced by 19% on the short version screen and 29% on the long version screen.
- 4) Increased the internal diameter of the tee body to match the new integral barrel. This change also improves part life by reducing velocity through the tee.



|                                | LONG, 6' BARREL |           | SHORT, 3' BARREL |           |
|--------------------------------|-----------------|-----------|------------------|-----------|
|                                | OLD             | NEW       | OLD              | NEW       |
| SCREEN ASSEMBLY                | PSA0003         | PSA0038   | PSA0004          | PSA0032   |
| TEE ASSEMBLY (STD)             | TA0186          | TA0186-TC | TA0186           | TA0186-TC |
| FLOWLINE (STD)                 | FA0379          | FA0468    | FA0427           | FA0467    |
| *INLET ADAPTER (STD) (4" x 3") | DA0466          | DA0549    | DA0466           | DA0549    |
| *INLET ADAPTER (STD) (4" x 2") | DA0471          | DA0581    | DA0471           | DA0581    |

\*Legacy version trash catchers (versions V1 and V2) stay using their original inlet adapter.

You may contact an MSI representative at [sales@diwmsi.com](mailto:sales@diwmsi.com) or [engineering@diwmsi.com](mailto:engineering@diwmsi.com) if you have any further questions or concerns.

MSI is a division of Dixie Iron Works, Ltd  
 300 W. Main St.  
 Alice, Texas 78332, USA  
 Phone: 800-242-0059  
[www.diwmsi.com](http://www.diwmsi.com)