

Model 539 Diffuser | AST & UST Models

SPECIFICATION SHEET

Application

The diffuser is designed for installation at the bottom of a drop tube to reduce turbulence and vapor loss during the filling operation.

Features and Details

- Low turbulence—The diffuser dramatically reduces product turbulence when filling a tank through an open tube. Less turbulence will save fuel through reduced vapors.
- Rag catcher—The diffuser will catch foreign objects such as rags that can shut down the filling operation at the time of the occurrence. It will block a rag from entering the tank which will cut the flow down enough to alert the driver of the problem. This allows the situation to be corrected immediately and will prevent a more costly crisis later such as when a rag wraps around the submersible pump intake long after the driver has left.
- No change to normal operations—With certain models, tank filling, manual sticking, water detection, and even cathodic protection can be accomplished without any change in procedure or routine. The diffuser will not restrict flow or cause any noticeable difference in filling.
- Easy installation—The diffuser can be installed in minutes on the bottom of a new or existing drop tube or threaded pipe. It is well-suited to be incorporated into a routine tank maintenance and/or service program.
- **539AS, 539TC, and 539TO** are slip-on style
- **539AT** is threaded style
- **539TC** has a telescoping closed bottom and strike plate
- **539TO** has a telescoping open bottom

Materials of Construction

- Body... aluminum or passivated
- O-ring... PTFE encapsulated FKM (telescoping models)

Certifications & Listings

CARB EVR Executive Order VR-402

Item numbers & schematics on next page...











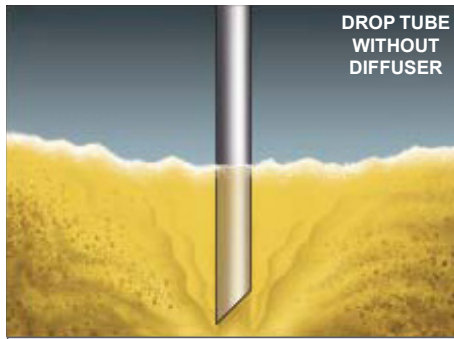
Scan to watch diffuser demonstration video



Model 539 Diffuser | AST & UST Models (continued)

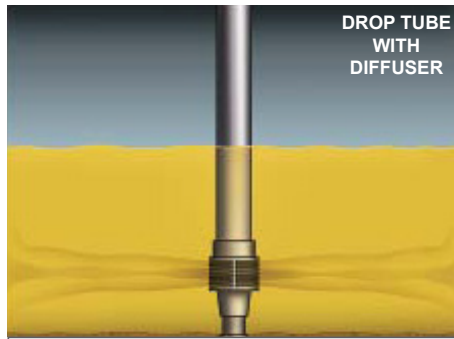
SPECIFICATION SHEET

| Item Number | Size | Gauge Stick | Passivated | Cathodic Probe | Weight (lbs) |
|--|------|-------------|------------|----------------|--------------|
| 539AS-0200 AD | 2" | No | No | No | 1.10 |
|  539AS-0200ADEV | 2" | No | No | No | 1.10 |
|  539ASA0200ADEV | 2" | No | Yes | No | 1.10 |
| 539AS-0300 AD | 3" | No | No | No | 1.10 |
|  539AS-0300ADEV | 3" | No | No | No | 1.10 |
| 539AS-0400 AD | 4" | No | No | No | 1.10 |
|  539ASA0300ADEV | 3" | No | Yes | No | 1.10 |
| 539AT-0200 AD | 2" | No | No | No | 1.10 |
|  539AT-0200ADEV | 2" | No | No | No | 1.10 |
| 539AT-0300 AD | 3" | No | No | No | 1.10 |
|  539AT-0300ADEV | 3" | No | No | No | 1.10 |
|  539ATA0200ADEV | 2" | No | Yes | No | 1.10 |
|  539ATA0300ADEV | 3" | No | Yes | No | 1.10 |
| 539TC-0400 AD | 4" | Yes | No | No | 1.10 |
| 539TC-0400 ADA | 4" | Yes | Yes | No | 1.10 |
| 539TO-0400 AD | 4" | Yes | No | Yes | 1.90 |
| 539TO-0400 ADA | 4" | Yes | Yes | Yes | 1.90 |
| 539TO-5400 ADA | 4" | Yes | Yes | Yes | 1.90 |



DROP TUBE WITHOUT DIFFUSER

TURBULENT FLOW—Increased Vapor Pressure Stirs Up Tank Bottom



DROP TUBE WITH DIFFUSER

SMOOTH FLOW—Evenly Distributes Product Above Tank Bottom

Patent 7302968



MORRISON BROS. CO.

570 E. 7th Street | Dubuque, IA 52001
t. 563.583.5701 | 800.553.4840 | f. 563.583.5028
www.morbros.com