



Product Data Sheet
Product: Tank Cleaning Machine
Type: DW (Directional Washer)

The Butterworth Type DW automated tank cleaning machine provides directional impact cleaning of the inside of open top tanks.

Industries

The Butterworth Type DW is typically used in open top tanks, such as those found in the oil & gas and food and beverage markets. The Type DW has the ability to clean tanks to a capacity of up to 10,000,000 gallons per machine.

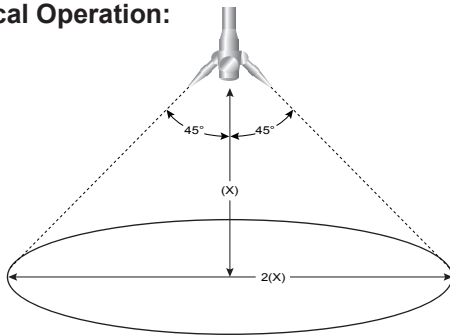
Operational

The spray arms on the Butterworth Type DW are adjustable from 270 degrees down to zero. The machine will sweep a 45 degree area from the point which the arms are set. This allows the unit to be used in open tanks and in areas where a high buildup of solids might require some additional cleaning focus.

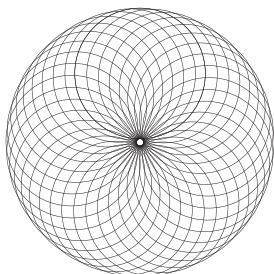
User Benefits

- Elimination of Confined Space Entry
- High Jet-Stream Impingement
- Unmatched cleaning capability for highly tenacious material
- Reduced Cleaning Times
- Reduced Effluent Generation
- Reduced Energy Costs
- High Durability

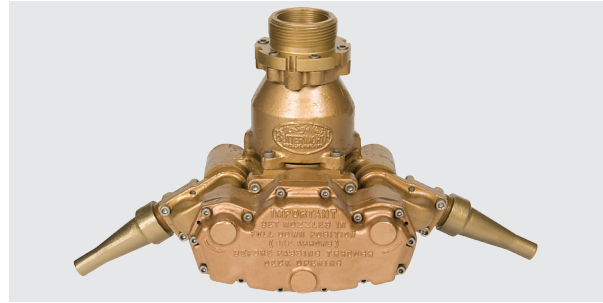
Typical Operation:



Cleaning Pattern Simulation



**Plan View /
 Looking Down /
 Bottom of Tank**



Specifications Summary

Materials of Construction (as Standard)

- Bronze alloys
- See manual for parts detail

Weight

- 70 lbs. (31.8 kg)

Lubrication

- Sealed – Food-grade grease

Drive Type

- Integrated turbine

Pressure Range

- Maximum: 250 PSI (17.3 bar)
- Normal range: 85-150 PSI (5.9–103 bar)

Jet-Length Radius

- Maximum: 76' (23metres) @ 250 PSI

Temperature Range

- Static: 250°F (121°C)
- Operational: 250°F (121°C)

Inlet Connection Type

- 2.50" ASA-B-26 (NST) – Male
- Others on request

Nozzle Sizes

- 9.5mm (0.375"), 11mm (0.437")

Minimum Tank Opening

- 9.00" (228.6mm)

Minimum Machine Turning Radius

- 18.75" (476.25mm)

Type K – Reference Table

| Ref. | Model | # Nozzles | Orifice | Vane |
|------|--------------|-----------|---------|------|
| 1. | DW-BK.375.V2 | 2 | 9.5mm | V2 |
| 2. | DW-AK.437.V1 | 2 | 11mm | V1 |
| 3. | DW-BK.437.V1 | 2 | 11mm | V1 |

Butterworth

Butterworth, Inc.

16737 West Hardy Road, Houston, TX 77060

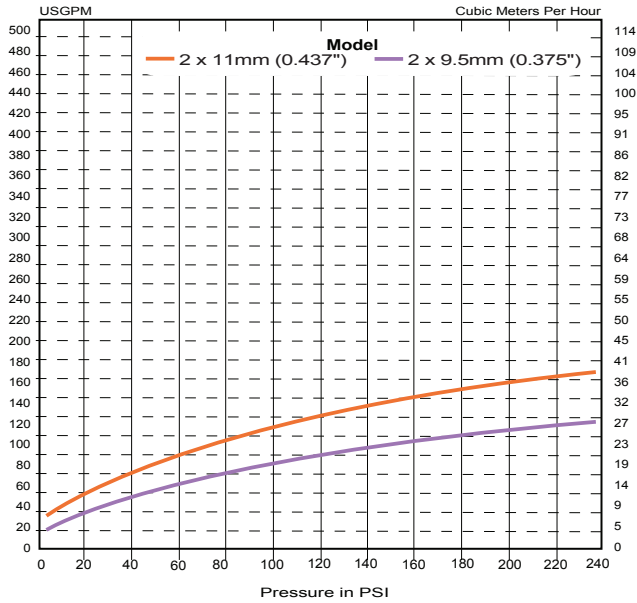
Phone: 281.821.7300 • Fax: 281.821.5550 • www.butterworth.com



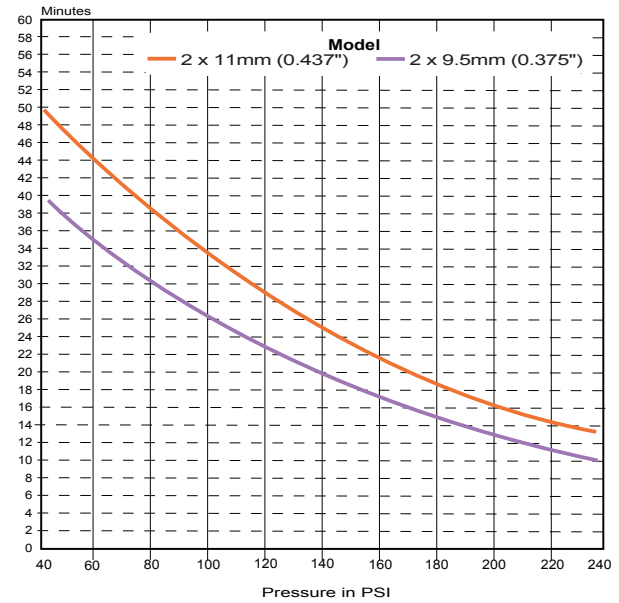
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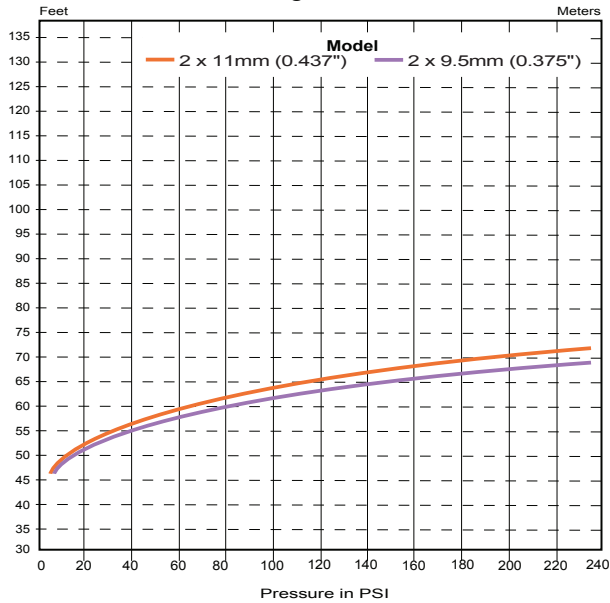
Flow / Pressure



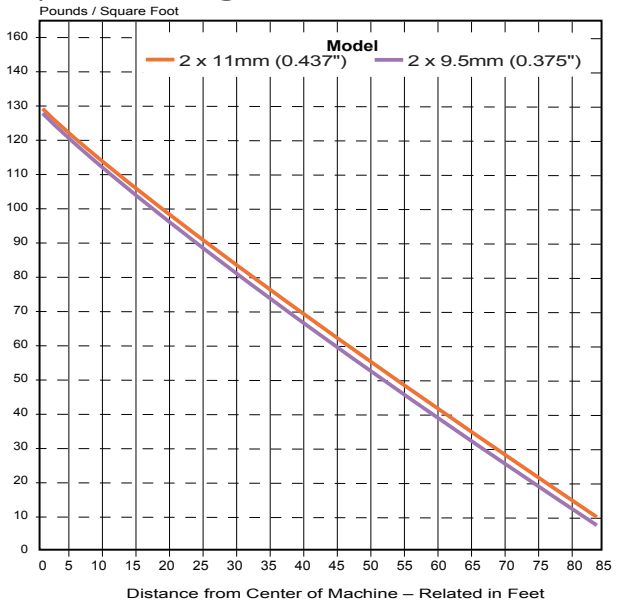
Cleaning Pattern Time



Effective Jet Throw Length



Impact Pressure @ 100 PSIG



IMPORTANT NOTICE:

The curves presented here are summary in nature.