Product Data Sheet

Product: Tank Cleaning Machine

Type: K/SK

Part Numbers: See Table Below



The Butterworth Type K/SK Tank Cleaning Machine provides 360° impact indexed coverage for the cleaning of the inside of tanks. The Butterworth Type K is the world's most successful design in terms of durability and reliance. Thousands of machines are in service worldwide.

In Application

The Type K machines are primarily constructed of bronze alloys and employ an integrated turbine drive. These machines clean tanks up to a capacity of 10,000,000 gallons (38,000 m3) or higher when multiple machines are used.

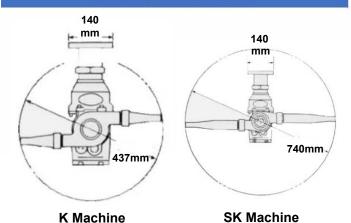
Operational

The Butterworth Type K/SK Tank Cleaning Machine creates a pattern matrix similar to a ball of twine (see cleaning pattern below). A complete pattern is established when 63 axial revolutions of the body have been completed. During the process of this pattern development, 2 cycles are established with each cycle increasing the density of the pattern matrix.

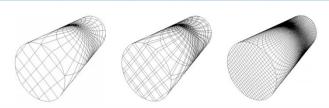
User Benefits

- Eliminate Confined Space Entry
- High Durability
- Improve Cleaning Times
- Lower Energy Costs
- Reduce Discharge Generation
- Unmatched Jet Stream Impact

General Dimensions



Cleaning Pattern Simulation





General Specifications

Materials of Construction (As Standard):

• Bronze Alloys

· See manual for parts detail

Weight:

K Machine : 48 lbs. (21.77 kg)
 SK Machine : 58 lbs. (26.31 kg)

Lubrication:

· Sealed - Food Grade Grease

Drive Type:

• Integrated Turbine

Pressure Range:

Maximum
 Nominal Range
 250 PSI (17.3 Bar)
 85-150 PSI (5.9-103 Bar)

Jet Length Radius:

Maximum : 115' (35 Meters) @ 250 PSI (12 Bar)

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 (mm orifice):

• 9.5mm (0.375") • 11mm (0.437")

• 14mm (0.562")

Minimum Machine Turning Radius:

• K Machine : 476.25mm (18.75")
• SK Machine : 857.25mm (33.75")

Minimum Tank Opening Requirement:

K Machine : 9.00" (228.6MM)SK Machine : 9.00" (228.6mm)

Ratio Body to Nozzle:

A complete pattern is established when the body has rotated about its axis 63 times.

TYPE K -Model Reference Table

Model	# <u>of</u> Nozzles	Orifice	Vane
SK-562-V4	2	14.27mm (0.562")	V4
AK-437-V1	2	11.09mm (0.437")	V1
BK-375-V2	2	09.50mm (0.375")	V2

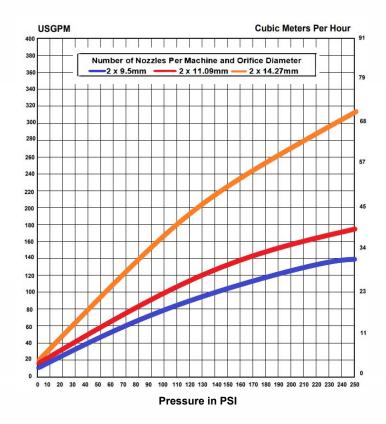
Butterworth, Inc.

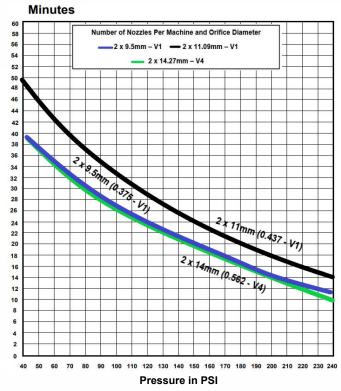
16737 W Hardy Road Houston, Texas 77060 USA Phone: 281-821-7300 Toll Free: 866-920-3233 Fax: 281-821-5550

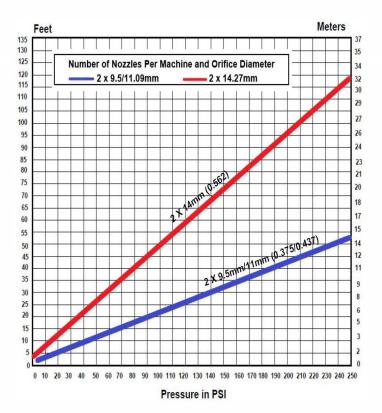
Email: info@butterworth.com www.butterworth.com

Type: K/SK















Butterworth, Inc.