



Product Data Sheet

Product : Tank Cleaning Machine
 Type : K / SK/ SSK

The Butterworth Type "K" automated 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. Thousand's of machines in service worldwide.

"The World's Original Tank Cleaning Machine"



Proven reliability since... 1925!

In Application

The "K" machine's primary construction material is Bronze alloys and employs an integrated turbine drive. The "Type K" Machine has the ability to clean tanks up to a capacity of 10,000,000 gallons (38,000 m³) or higher when multiple machines are used.

Operational

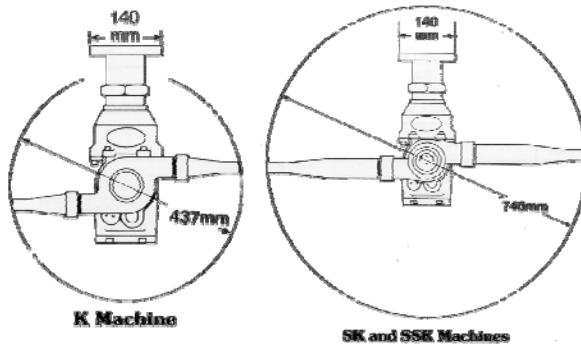
The Butterworth "Type K" machine creates a pattern matrix similar to a ball of twine (see cleaning pattern simulation in the lower left corner of this page). A complete pattern is established when 63 axial revolutions of the body have been completed. During the process of this pattern development, 2 cycles are established with each cycle increasing the density of the pattern matrix.

User Benefits

- High Durability; Workhorse of the Industry
- Elimination Of Confined Space Entry
- High Jet-Stream Impact
- Reduced Cleaning Times
- Reduced Effluent Generation
- Reduced Energy Costs

Dimensional Information:

All dimensions in mm



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 - Grease

Drive Type:

- Integrated turbine

Pressure Range:

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

Jet-Length Radius:

- Maximum : 115' (35 meters) @ 250 PSI (12 bar)

Temperature Range:

- Static : 250°F
- Operational : 250°F

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"), 22mm (0.866")

Minimum Tank Opening Requirement:

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

Minimum Machine Turning Radius

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

Ratio Body to Nozzle

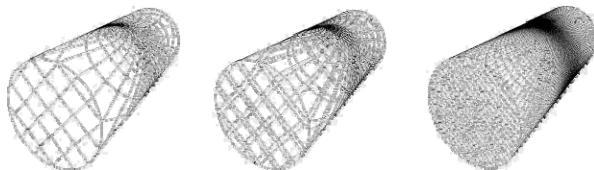
- K Machine : 63/64
- SK Machine : 63/64

Type K - Reference Table

Ref	Model	# Nozzles	Orifice	Vane	S-O
1.	SSK.886.V4	2	21.99mm (0.866")	V4	O
2.	SK.562.V4	2	14.27mm (0.562")	V4	S
3.	AK.437.V1	2	11.09mm (0.437")	V1	S
4.	BK.437.V1	2	11.09mm (0.437")	V1	O
5.	AK.437.V2	2	11.09mm (0.437")	V2	O
6.	BK.437.V2	2	11.09mm (0.437")	V2	O
7.	AK.375.V2	2	09.50mm (0.375")	V2	S
8.	BK.375.V2	2	09.50mm (0.375")	V2	S
9.	AK.375.V1	2	09.50mm (0.375")	V1	O
10.	BK.375.V1	2	09.50mm (0.375")	V1	O

S = Standard O=Option

Cleaning Pattern Simulation



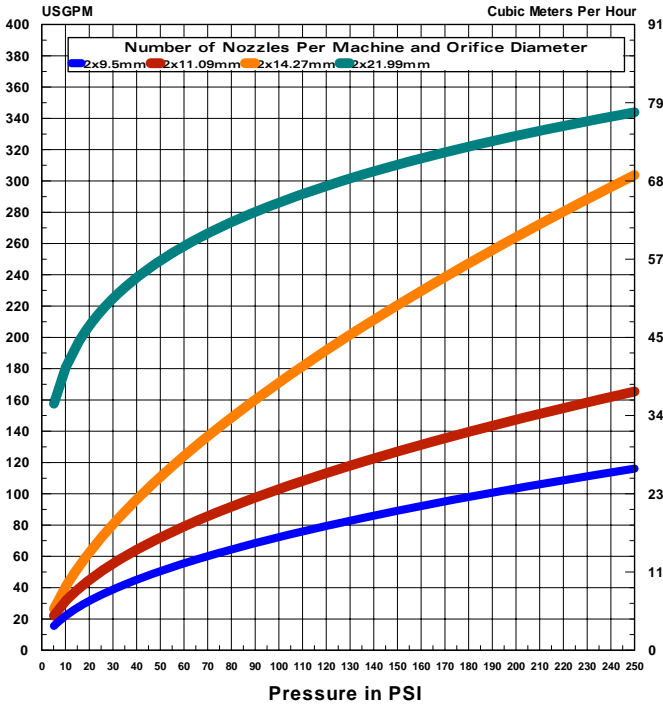
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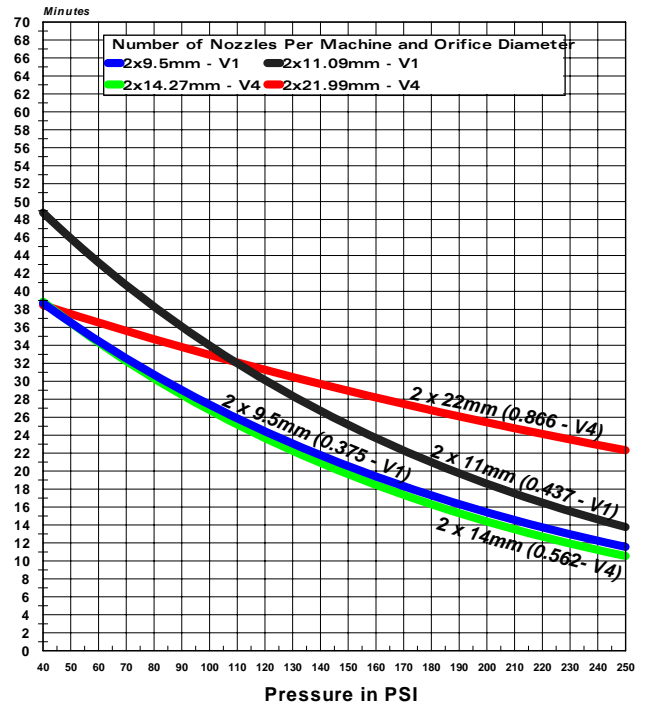
Butterworth



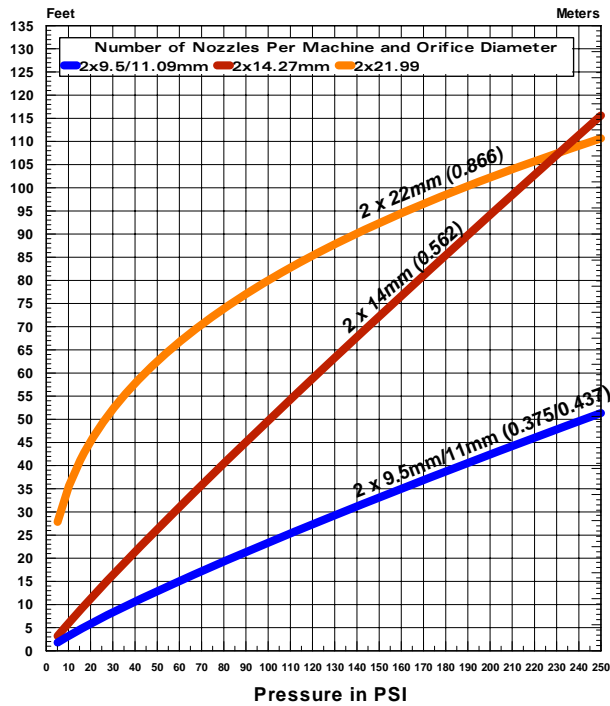
Flow/Pressure



Cleaning Pattern Time (Additional pattern times are available)



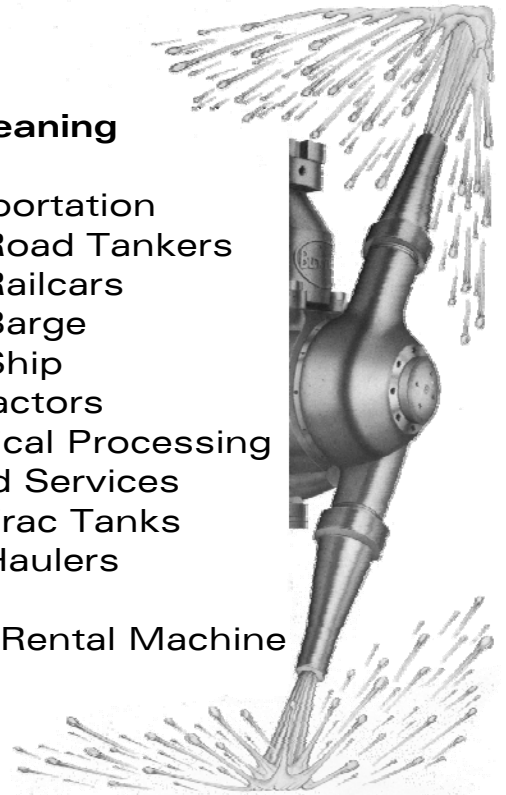
Jet Throw Length



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