

BRECONCHERRY SELLERS CLEAN

International specialists in the design and
manufacture of tank cleaning equipment

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TROLL BALL - Model 3"



The Perfect Spray Ball Replacement

- No Gear, No Ball Bearings
- Minimum Moving Parts
- Rotary Spray Action
- Hygienic Design
- Range of Spray Patterns Available
- No Risk of Contamination from Shedding
- Less Wear / Maintenance Costs
- Ideal for Regular, Consistent, High Standard Cleaning
- Food Grade Approved
- Suitable for Wider Range of Applications

Versatile & Unique

The versatile **TROLL BALL MODEL 3"** is ideally suited to applications which demand regular, consistent cleaning to a high standard. This is a larger version of the popular 2" Troll Ball, for in-place cleaning of

vessels up to 6m in diameter, when used singly. The **TROLL BALL MODEL 3"** operates with hot or cold water, with or without additives, or other cleaning fluid.

Applications

The **TROLL BALL MODEL 3"** ensures effective cleaning by steadily sweeping curtains of water, covering all required areas of the vessel. It operates with the cleaning fluid at a pressure up to 14 Bar and a flow rate up to 285 lpm.

The **TROLL BALL MODEL 3"** is widely used in the food, beverage, dairy, chemical, coatings/paints industries.

The **TROLL BALL MODEL 3"** may be installed at any angle, or used manually, attached to the end of a lance.





TROLL BALL - Model 3"

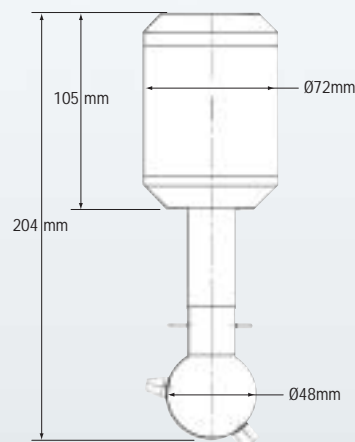
Technical data

Materials of Construction	316 S/S, PTFE
Inlet Connection	1 1/2" NPT or BSPT fem
Operating Pressure Range	3 - 14 bar
Max. operating temperature	120°C
Flow Capacity	106 - 285 lpm
Standard Materials	Stainless Steel 316, PTFE
Weight	2.3kg

Optional Features	To Order
Inlet Connection 1 1/2" BSP Fem	Add 1 1/2" BSPT
Anti Vibration Unit – Ball Threaded and Locked to Shaft	Add/AV to Type Code
Custom Spray Patterns & Flow Characteristics	On Application

Pressure (Bar)	3	4	6	8	10	12	14
Spray Pattern Ball	Flow (lpm)						
360° Type C	132	154	190	219	245	267	285
360° Inverted Type D	132	154	190	219	245	267	285
180° Down Type G	106	123	152	176	196	214	228
180° Up Type H	116	135	167	194	216	235	250
Cleaning Radius	3m	3m	3m	3m	3m	3m	3m
Wetting Radius	6m	6m	6m	6m	6m	6m	6m

The TROLL BALL MODEL 3" is self powered by the cleaning fluid. From a known input pressure, read off from the charts below the flow rates and wash radius.



Manhole Opening: the smallest diameter recommended in normal use is 90mm/3.5". Care should be taken to avoid damage to the unit.

Installation & Operation

Mount the TROLL BALL MODEL 3" rigidly inside the tank or, for manual use, it can be suspended on a hose.

A strainer should be fitted to prevent clogging of fluid paths and damage to the internal bearing surfaces. 20 mesh or finer is recommended, depending on the concentration, nature and size of the foreign particles. It is particularly important on a new installation that lines are well flushed out before installing the cleaning head.

Closed tanks should have adequate venting to allow for either release gases or vapours, or alternatively, prevention of possible tank collapse due to vacuum formation following a hot wash.

Liquids which are able to generate hazardous vapours e.g. solvents, should be sprayed only when full provisions have been made in the installation, in accordance with relevant Health and Safety Regulations, and good practice, to eliminate or prevent any hazardous effects.

Rapid build up of liquid pressure in inlet to the TROLL BALL MODEL 3" should be avoided, or prevent "pipeline hammer" effects.

If a positive displacement pump is used to supply liquid pressure, e.g. diaphragm type, pulsation dampening may be required on pump outlet to ensure smooth rotation of the TROLL BALL.

The TROLL BALL MODEL 3" is suitable for use with cold water supplied from a hydrant or a pump, or hot water at up to 120°C.

Refer to our Technical Department before using re-circulated water which may contain fine particles.

Maintenance & Inspection

Worldwide comprehensive after-sales service includes spare parts, technical support and full repair facilities from the Breconcherry trained global network.

We reserve the right to change the specifications without notice.

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