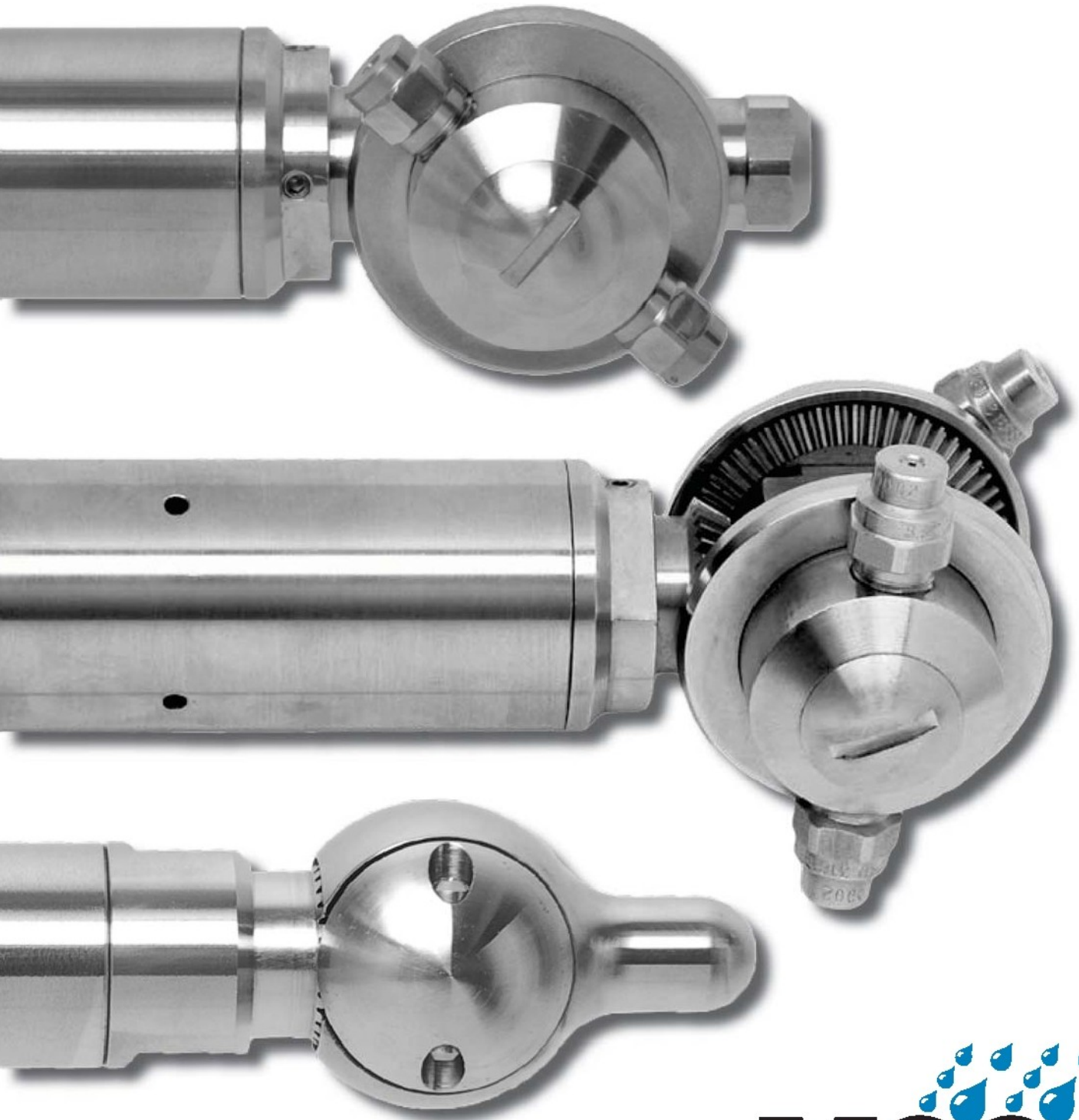


# Tank Washers

Three-dimensional rotating spray heads:

For the most efficient and economical internal cleaning of all types of containers.



  
**MOOG**  
Cleaning Systems  
swiss quality

# Tank Washers

**Three-dimensional rotating spray heads:  
For the most efficient and economical internal cleaning of  
all types of containers.**

MOOG tank washers stand out in particular through the following advantages:

- Available in standard shaft lengths, as well as in special shaft lengths (from 170 mm upwards, on request)
- Top quality, rugged design
- Depending on the model, suitable for a working pressure up to 250 bar 3625 psi
- Easy handling, low maintenance costs
- Lightweight
- Upgradable and convertible with a wide range of options and accessories

## Application range

MOOG tank washers can be employed for the cleaning of:

Drying plants	Bottling plants
Spray towers	Pipelines
Reactors	IBC
Container cleaning plants	Case washing plants
Centrifuges	Wine barrels
Fermenters	Steel tanks
Silos	Furnaces
Filters	Concrete mixers
Agitators	Grease extractors
Mixing vessels	Bottle cleaning
Vacuum vessels	Kegs
Truck cleaning	Chemical barrels
Freight car cleaning	and many more

## Successful worldwide

MOOG tank washers are used all over the world

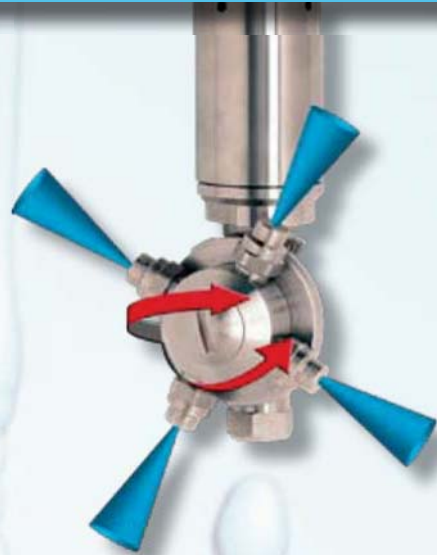
Chemical industry	Wine industry
Pharmaceutical industry	Plant construction
Dyeing industry	Food industry
IBC and cask recycling	and many more



## Mode of operation and use

MOOG tank washers work with a spray head that rotates in three dimensions, driven by an electric or compressed air motor.

Through the simultaneous movement in all rotation axes, a 360 degree spray pattern is formed, thereby thoroughly cleaning every location and every corner inside the tank.



This guarantees the most rational, effective and economic cleaning of the inside of tanks, silos, IBC, tanks, barrels and all other types of containers.

MOOG tank washers can be connected to any commercially-available high-pressure cleaner or any stationary high-pressure pump.

MOOG tank washers are available in various standard shaft lengths, as well as in special lengths. You will therefore always be able to find the right insertion length for your application.



Whatever the requirements for cleaning the insides of tanks and whatever their size, MOOG has the right spray head available. These vary in their maximum flow rate and maximum working pressure. And where no series products can be used, we can also offer customized versions.

MOOG tank washers are also available with ATEX certification.



# Models ER/AR and EM/AM

## Description

The ER/AR and EM/AM models are available in various configurations; For example, made from different materials, or fitted with seals made from various materials. Furthermore there are three different spray head sizes available.

### Applications

The models ER/AR and EM/AM are used for all kind of containers, tanks, barrels etc. Appropriate to operate with agents.

### Mounting position

The mounting position can be chosen freely.

### CIP

The models ER/AR and EM/AM are CIP capable, conform to FDA\* and capable of being integrated into automated cleaning processes.

### Consumption

In comparison to conventional cleaning processes, the best possible cleaning result is being achieved with a reduced consumption of water at the same time.

### Operating costs

The short cleaning time and the solid construction offer low downtime at reduced costs.

### Water connection

3/8" as a standard

Optionally available with different threads

### Mounting flange/clamp

Wide range of accessory mountings available or custom-designed fabrication

### Options

3 or 4 nozzles (spray head Ø 55/40mm only)

Solvent-resistant seals

Seals made of EPDM

Vacuum-resistant\*\*

ATEX certified\*

\* exclusively model ER/AR

\*\* exclusively model ER/AR  
with spray head Ø 55/40mm

## Spray head



Spray head Ø 55mm



Spray head Ø 40mm



Spray head Ø 32mm

(in 316L only, working pressure limited to 180 bar/2610 psi)



## Technical data

### Materials

Stainless steel 316L (model ER/AR)

Nickel plated brass (model EM/AM)

Other materials on request

### Working pressure

Max. 250 bar 3625 psi (model ER/AR)

Max. 180 bar 2610 psi (model EM/AM)

### Water flow rate

Max. 50 L/min. 13.2 gal (spray head Ø 55/40mm)

Max. 30 L/min. 7.9 gal (spray head Ø 32mm)

### Drive

Electric motor (model ER/EM)

Air motor (model AR/AM)

### Nozzles

2 nozzles

### Shaft length

500/700/1000/1500/2000/3000/4000 mm

(Spray head Ø 32mm limited to 2000 mm)

Optionally available in other shaft lengths

# Model ERD/ARD

## Description

The ERD/ARD model is especially suitable for large tanks, due to its high water throughput. Two spray heads mounted opposite to each other guarantee a very fine spray pattern and a uniform cleaning result.

### Applications

The model ERD/ARD is used for all large containers, tanks, silos etc. Suitable for the suspension on a chain hoist. Appropriate to operate with agents.

### Mounting position

The mounting position can be chosen freely.

### CIP

The models ERD/ARD is CIP capable, conform to FDA and capable of being integrated into automated cleaning processes.

### Consumption

In comparison to conventional cleaning processes, the best possible cleaning result is being achieved with a reduced consumption of water at the same time.

### Operating costs

The short cleaning time and the solid construction offer low downtime at reduced costs.

### Water connection

3/8" as a standard  
Optionally available with different threads

### Mounting flange/clamp

Wide range of accessory mountings available or custom-designed fabrication

### Options

Solvent-resistant seals  
Seals made of EPDM  
ATEX certified

### Also available as model ERD70/ARD70:

Working pressure max. 70 bar 1015 psi  
Water flow rate max. 200 L/min. 52.8 gal

## Spray head



Double spray head



## Technical data

### Material

Stainless steel 316L  
Other materials on request

### Working pressure

Max. 200 bar 2900 psi

### Water flow rate

Max. 80 L/min. 21.1 gal

### Drive

Electric motor (model ERD)  
Air motor (model ARD)

### Nozzles

4 nozzles

### Shaft length

500/700/1000/1500/2000/3000/4000 mm  
Optionally available in other shaft lengths

# Model ERK/ARK

## Description

The ERK/ARK model has been specially developed for automated insertion into wine barrels. The spherical shape and compact design of the spray head makes it possible to insert the unit even into the smallest openings.

### Applications

The model ERK/ARK is used for all wine barrels, as well as for smaller containers, tanks etc. Appropriate to operate with agents.

### Mounting position

The mounting position can be chosen freely.

### CIP

The model ERK/ARK is CIP capable, conform to FDA and capable of being integrated into automated cleaning processes.

### Consumption

In comparison to conventional cleaning processes, the best possible cleaning result is being achieved with a reduced consumption of water at the same time.

### Operating costs

The short cleaning time and the solid construction offer low downtime at reduced costs.

### Water connection

3/8" as a standard

Optionally available with different threads

### Mounting flange/clamp

Wide range of accessory mountings available or custom-designed fabrication

### Options

Solvent-resistant seals

ATEX certified device

## Spray head



Round-shaped spray head  
Ø 37mm

## Technical data

### Material

Stainless steel 316L

Other materials on request

### Working pressure

Max. 180 bar 2610 psi

### Water flow rate

Max. 30 L/min. 7.9 gal

### Minimum size of built-in opening

38,0 mm 1.49"

### Drive

Electric motor (model ERK)

Air motor (model ARK)

### Nozzles

2 nozzles

### Shaft length

500/700/1000/1500/2000 mm

Optionally available in other shaft lengths



# Model ERW/ARW

## Description

Due to its shape, the ERW/ARW model with the angled spray head only covers an area of 270° to the front, as a result the cleaning can be aimed at a specific area depending on the installation situation. In addition, sensitive areas or installation openings can be excluded from the cleaning.

### Applications

The model ERW/ARW is used for all kind of containers, tanks etc. Appropriate to operate with agents.

### Mounting position

The mounting position can be chosen freely.

### CIP

The model ERW/ARW is CIP capable, conform to FDA and capable of being integrated into automated cleaning processes.

### Consumption

In comparison to conventional cleaning processes, the best possible cleaning result is being achieved with a reduced consumption of water at the same time.

### Operating costs

The short cleaning time and the solid construction offer low downtime at reduced costs.

### Water connection

3/8" as a standard  
Optionally available with different threads

### Mounting flange/clamp

Wide range of accessory mountings available or custom-designed fabrication

### Options

Solvent-resistant seals  
Seals made of EPDM  
ATEX certified

## Spray head



Angled spray head



## Technical data

### Material

Stainless steel 316L  
Other materials on request

### Working pressure

Max. 250 bar 3625 psi

### Water flow rate

Max. 50 L/min. 13.2 gal

### Drive

Electric motor (model ERW)  
Air motor (model ARW)

### Nozzles

2 nozzles

### Shaft length

500/700/1000 mm  
Optionally available in other shaft lengths

# Model BASIC 40

## Description

The BASIC 40 model offers the usual high quality at a very attractive price. The construction from stainless steel in 304 quality allows for many applications in the foodstuff industry without further requirements. This model is only available with an electrical drive and a shaft length of 1000 mm.

### Applications

The model BASIC 40 is used for all kind of containers, tanks etc. Appropriate to operate with agents.

### Mounting position

The mounting position can be chosen freely.

### CIP

The model BASIC 40 is CIP capable, conform to FDA and capable of being integrated into automated cleaning processes.

### Consumption

In comparison to conventional cleaning processes, the best possible cleaning result is being achieved with a reduced consumption of water at the same time.

### Operating costs

The short cleaning time and the solid construction offer low downtime at reduced costs.

### Water connection

M22x1,5 as a standard  
Optionally available with different threads

### Mounting flange/clamp

Wide range of accessory mountings  
available or custom-designed fabrication



## Spray head



Spray head BASIC 40

## Technical data

### Material

Stainless steel 304

### Working pressure

Max. 250 bar 3625 psi

### Water flow rate

Max. 50 L/min. 13.2 gal

### Drive

Electric motor

### Nozzles

2 nozzles

### Shaft length

1000 mm



# Model ERVC/ARVC

## Description

The ERVC/ARVC model excels at extreme conditions. The completely encapsulated and sealed teeth of the spray head defy any dirt, glue, paint particles or similar foreign bodies; the unit remains ready for use at all times.

### Applications

The model ERVC/ARVC is used for the cleaning of all kind of containers, tanks, silos etc. under difficult conditions. Appropriate to operate with agents.

### Mounting position

The mounting position can be chosen freely.

### CIP

The model ERVC/ARVC is CIP capable, conform to FDA and capable of being integrated into automated cleaning processes.

### Consumption

In comparison to conventional cleaning processes, the best possible cleaning result is being achieved with a reduced consumption of water at the same time.

### Operating costs

The short cleaning time and the solid construction offer low downtime at reduced costs.

### Water connection

3/8" as a standard  
Optionally available with different threads

### Mounting flange/clamp

Wide range of accessory mountings available or custom-designed fabrication

### Options

3 or 4 nozzles  
Solvent-resistant seals  
Seals made of EPDM  
ATEX certified

## Spray head



Sealed spray head



## Technical data

### Material

Stainless steel 316L  
Other materials on request

### Working pressure

Max. 250 bar 3625 psi

### Water flow rate

Max. 50 L/min. 13.2 gal

### Drive

Electric motor (model ERVC)  
Air motor (model ARVC)

### Nozzles

2 nozzles

### Shaft length

500/700/1000/1500/2000/3000/4000 mm  
Optionally available in other shaft lengths

# Accessories for Tank Washers

## Add-ons for drive

Angular gear



Rubber protection cap



## Screwings

Brass nickel plated screwing



Delrin or stainless steel barrel screwings



## Bunghole mounts

Bunghole mounts with Delrin or rubber cone



## Spray head protection

Gearing protection



Basket guard



## Clamping device / Stand

Clamp



Stand



## Motor protection covers



Stainless steel motor covers



## Screw-in mounts / Counter nuts

Delrin or stainless steel screw-in mounts and counter-nuts



## Double handle

Double handle for all models (stainless steel)



## Suspension bail

Suspension bail



Water bearing suspension bail



## Custom products on request

Custom products such as fittings and flanges available on request



Ask for our complete accessories brochure!