

ENGINEERING
YOUR SPRAY SOLUTION



» ROTATING CLEANING NOZZLES SPINNER 2

Series 5M1, 5M2, 5M3, 5M4

GENERAL INDUSTRY

MiniSpinner 2





THE NEW LECHLER QUARTET IN 2ND GENERATION: HYGIENIC DESIGN FOR MANY TANK SIZES

The four newly developed rotating cleaning nozzles of the series Spinner 2 convince with their extremely hygienic welding design. The series of the 2nd Spinner generation is completely made of stainless steel 316L or completely made of Alloy 22 and therefore also suitable for higher ambient temperatures. The four tank cleaning nozzles are available in many different flow rates and spray angles as well as with different connection possibilities.

Key Features

- High surface finish as standard
- Suitable for high ambient temperatures
- High corrosion resistance
- Completely made of stainless steel 316L or Alloy 22
- ATEX version available





Rotating cleaning nozzle NanoSpinner 2 Series 5M1



Features:

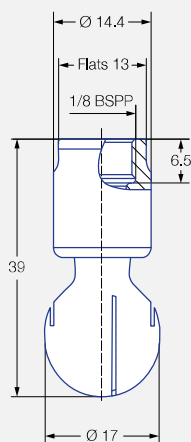
- Compact design for confined spaces
- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel 316L or Alloy 22



**ATEX version
available on
request**



Series 5M1



Female thread

Max. tank diameter [m]	0	1	2	3	4	5	6	7	8	9
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Cleaning efficiency class
2



Max. temperature
250 °C



Installation
Operation in every direction is possible



Bearing
Double ball bearing made of stainless steel 316L, Alloy 22



Material
Stainless steel 316L, Alloy 22



Recommended operating pressure
2 bar




Filtration
Line strainer with a mesh size of 0,1mm/170 mesh

[Function video](#)

www.lechler.com/de-en/medialibrary
Or scan the QR Code.



Spray angle	Ordering no.				Narrowest free cross section Ø [mm]	V̇ water [l/min]				Max. tank diameter [m]
	Type	Material no.		1/8 BSPP		p [bar] (p _{max} = 7 bar)				
		1Y	21							
		Stainless steel 316L	Alloy 22			at 40 psi [US gal/min]				
					1.0	2.0	3.0			
360° 	5M1.879	●	●	AB	0.4	11	15	18	5	1.4
	5M1.929	●	●	AB	0.5	14	20	25	6	1.6

NPT thread, weld-on and slip-on versions on request.

The maximum tank diameter applies to the recommended operating pressure and is meant as a recommendation only.
The cleaning result is also affected by the type of soiling.

Compressed air should be used for dry blowing for a short time only. Operation above the recommended operating pressure has a negative impact on the cleaning result and wear.

NanoSpinner 2

Example Type + Material-no. + Connection = Ordering no.
of ordering: 5M1.879 + 1Y + AB = 5M1.879.1Y.AB

Rotating cleaning nozzle MicroSpinner 2 Series 5M2



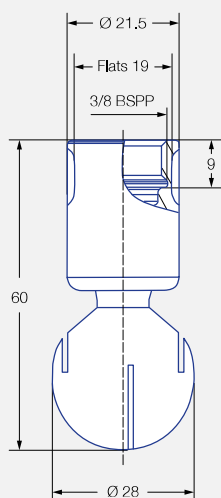
Features:

- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel 316L or Alloy 22

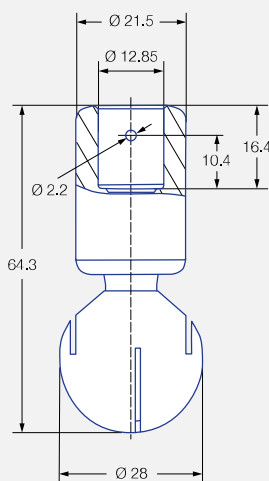


**ATEX version
available on
request**

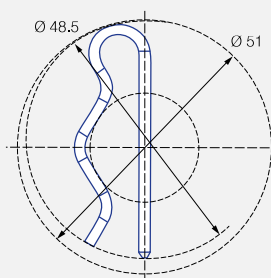
Series 5M2



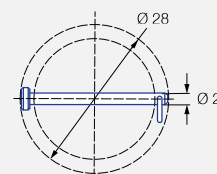
Female thread



**Dimensions of the
slip-on connection according
to ASME-BE (OD-tube)**



**Dimensions of the
slip-on connection
top view stainless steel 316L**



**Dimensions of the
slip-on connection
top view Alloy 22**

Max. tank diameter [m]	0	1	2	3	4	5	6	7	8	9
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**Cleaning
efficiency class**
2



Max. temperature
250 °C



Installation
Operating in every direction
possible



Bearing
Double ball bearing made
of stainless steel 316L,
Alloy 22



Material
Stainless steel 316L,
Alloy 22



**Recommended
operating pressure**
2 bar



Filtration
Line strainer with a mesh
size of 0,1mm/170 mesh






Adapter
3/8 BSPP is compatible
with HygienicFit

Function video

www.lechler.com/de-en/medialibrary
Or scan the QR Code.



Spray angle	Ordering no.					Narrowest free cross section Ø [mm]	V̇ water [l/min]				Max. tank diameter [m]
	Type	Material no.		Connection			p [bar] (p _{max} = 7 bar)				
		1Y	21								
		Stainless steel 316L	Alloy 22	3/8 BSPP	1/2" Slip-on		1.0	2.0	3.0	at 40 psi [US gal/min]	
 60°	5M2.952	●	●	AF	TF05	1.5	16	23	28	7	–
	5M2.042	●	●	AF	TF05	3.0	28	40	49	12	–
 180°	5M2.004	●	●	AF	TF05	0.9	22	32	39	10	1.8
 360°	5M2.969	●	●	AF	TF05	0.8	18	25	31	8	1.7
	5M2.049	●	●	AF	TF05	0.9	28	39	48	12	1.8

NPT thread, weld-on and further slip-on versions on request.

The max. tank diameter shown above applies for the recommended operating pressure and has to be seen as a recommendation.
The cleaning result is also affected by the type of soiling.

Operating with compressed air only for short-term usage. Operation above the recommended operating pressure has negative effects on the cleaning result and wear.

Information slip-on connection

- Pin made of stainless steel 316L included (Ordering-no. 05M.230.1Y.00.00.0). Version made of Alloy 22 bolt with head incl. pin included (Ordering-no. 05M.231.21.00.00.0).
- Depending on diameter of the adapter, the flow rate increase due to leakage between connecting pipe and rotating cleaning nozzle.
- Minimum insertion diameter (with mounted pin) is 48,5 mm for the types made of stainless steel 316L and 28 mm for the types made of Alloy 22.

MicroSpinner 2

Example Type + Material-no. + Connection = Ordering no.
of ordering: 5M2.952 + 1Y + AF = 5M2.952.1Y.AF

Rotating cleaning nozzle MiniSpinner 2

Series 5M3



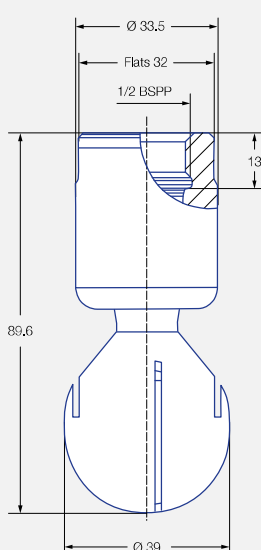
Features:

- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel 316L or Alloy 22

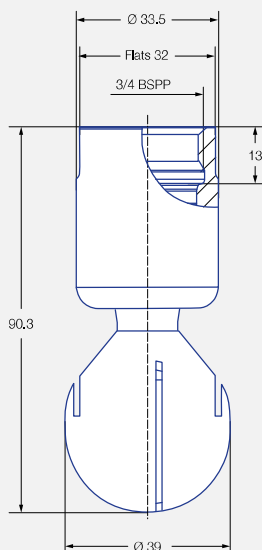


**ATEX version
available on
request**

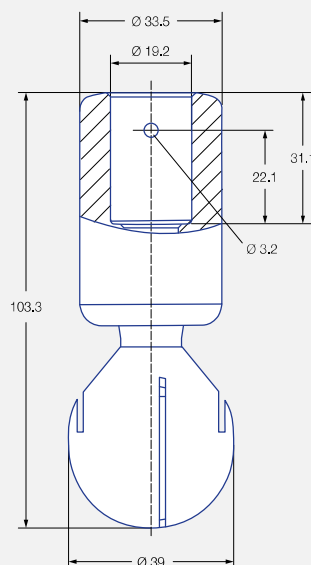
Series 5M3



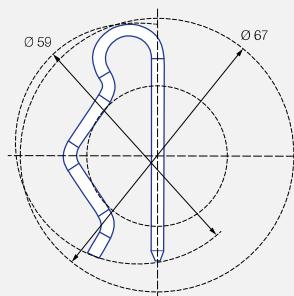
Female thread



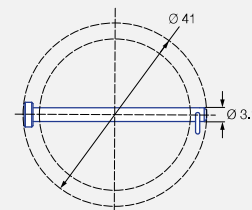
Female thread



**Dimensions of the
slip-on connection
according to
ASME-BE (OD-tube)**



**Dimensions of the
slip-on connection
top view stainless steel 316L**



**Dimensions of the
slip-on connection
top view Alloy 22**

Max. tank diameter [m]	0	1	2	3	4	5	6	7	8	9
------------------------	---	---	---	---	---	---	---	---	---	---



**Cleaning
efficiency class**
2



Max. temperature
250 °C



Installation
Operating in every
direction possible



Bearing
Double ball bearing made
of stainless steel 316L,
Alloy 22



Material
Stainless steel 316L,
Alloy 22



**Recommended
operating pressure**
2 bar



Filtration
Line strainer with a mesh
size of 0,1mm/170 mesh







Adapter
1/2 BSPP and 3/4 BSPP
are compatible with
HygienicFit

Function video

www.lechler.com/de-en/medialibrary
Or scan the QR Code.



Spray angle	Ordering no.						Narrowest free cross section Ø [mm]	V̇ water [l/min]				Max. tank diameter [m]
	Type	Material no.		Connection		p [bar] (p _{max} = 7 bar)						
		1Y	21							at 40 psi [US gal/min]		
		Stainless steel 316L	Alloy 22									
				1/2 BSPP	3/4 BSPP	3/4"-Slip-on		1.0	2.0	3.0		
	5M3.122	●	●	AH		TF07	2.6	45	63	77	20	–
	5M3.133	●	●		AL	TF07	1.2	47	67	82	21	2.6
	5M3.134	●	●		AL	TF07	1.3	47	67	82	21	2.6
	5M3.999	●	●		AL	TF07	0.4	21	30	37	9	1.8
	5M3.089	●	●		AL	TF07	0.7	35	49	60	15	2.1
	5M3.139	●	●		AL	TF07	0.8	49	69	85	21	2.3
	5M3.209	●	●		AL	TF07	1.5	71	100	122	31	2.6

NPT thread, weld-on and further slip-on versions on request.

The max. tank diameter shown above applies for the recommended operating pressure and has to be seen as a recommendation.
The cleaning result is also affected by the type of soiling.

Operating with compressed air only for short-term usage. Operation above the recommended operating pressure has negative effects on the cleaning result and wear.

Information slip-on connection

- Pin made of stainless steel 316L included (Ordering-no. 05M.330.1Y.00.00.0). Version made of Alloy 22 bolt with head incl. pin included (Ordering-no. 05M.332.21.00.00.0).
- Depending on diameter of the adapter, the flow rate increase due to leakage between connecting pipe and rotating cleaning nozzle.
- Minimum insertion diameter (with mounted pin) is 59 mm for the types made of stainless steel 316L and 41 mm for the types made of Alloy 22.

MiniSpinner 2

Example Type + Material-no. + Connection = Ordering no.
of ordering: 5M3.122 + 1Y + AH = 5M3.122.1Y.AH

Rotating cleaning nozzle MaxiSpinner 2

Series 5M4



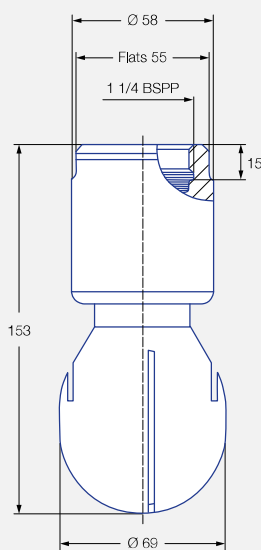
Features:

- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel 316L or Alloy 22

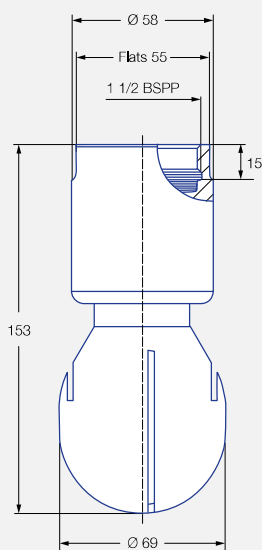


**ATEX version
available on
request**

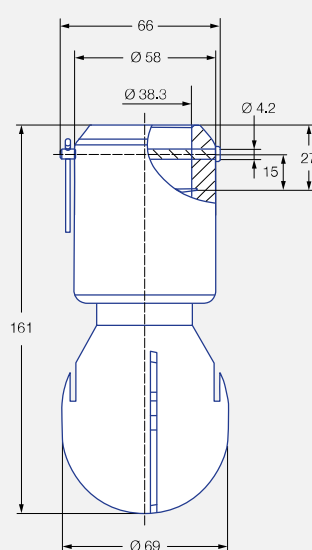
Series 5M4



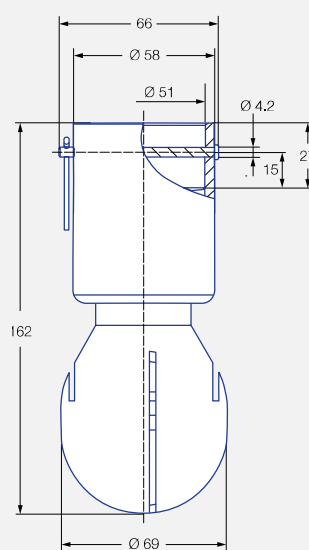
Female thread



Female thread



Dimensions of the
1 1/2" slip-on connection according
to ASME-BE (OD-tube)



Dimensions of the
2" slip-on connection according
to ASME-BE (OD-tube)

Max. tank diameter [m]	0	1	2	3	4	5	6	7	8	9
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**Cleaning
efficiency class**
2



Max. temperature
250 °C



Installation
Operating in every
direction possible



Bearing
Double ball bearing made
of stainless steel 316L,
Alloy 22



Material
Stainless steel 316L,
Alloy 22



**Recommended
operating pressure**
2 bar



Filtration
Line strainer with a mesh
size of 0,1mm/170 mesh







Adapter
1 1/4 BSPP and
1 1/2 BSPP are compatible
with HygienicFit

Function video

www.lechler.com/de-en/medialibrary
Or scan the QR Code.



Spray angle	Ordering no.							Narrowest free cross section Ø [mm]	V̇ water [l/min]				Max. tank diameter [m]
	Type	Material no.		Connection					p [bar] (p _{max} = 7 bar)*				
		1Y	21	1 1/4 BSPP	1 1/2 BSPP	1 1/2" Slip-on	2" Slip-on		1,0	2,0	3.0	at 40 psi [US gal/min]	
		Stainless steel 316L	Alloy 22										
<div>180°</div> <div></div>	5M4.253	●	●	AQ	AS	TF15	TF20	1.8	95	135	165	42	4.0
<div>180°</div> <div></div>	5M4.254	●	●	AQ	AS	TF15	TF20	2.1	95	135	165	42	4.0
<div>270°</div> <div></div>	5M4.365	●	●	AQ	AS	TF15	TF20	2.5	177	250	306	78	5.0
<div>360°</div> <div></div>	5M4.279	●	●	AQ	AS	TF15	TF20	1.7	107	150	184	46	4.0
	5M4.329	●	●	AQ	AS	TF15	TF20	2.0	141	200	245	62	4.5
	5M4.369	●	●	AQ	AS	TF15	TF20	2.3	177	250	306	78	5.0

NPT thread and weld-on versions on request.

* Please note the maximum operating pressure of 4 bar for the 2" slip-on connection.

The max. tank diameter shown above applies for the recommended operating pressure and has to be seen as a recommendation.
The cleaning result is also affected by the type of soiling

Operating with compressed air only for short-term usage. Operation above the recommended operating pressure has negative effects on the cleaning result and wear.

Information slip-on connection

- Bolt with head incl. pin made of stainless steel 316L included (Ordering-no. 05M.431.1Y.00.00.0). Version made of Alloy 22 bolt with head incl. pin included (Ordering-no. 05M.431.21.00.00.0).
- Depending on diameter of the adapter, the flow rate increase due to leakage between connecting pipe and rotating cleaning nozzle.
- Minimum insertion diameter (with mounted pin) is 69 mm for the types made of stainless steel 316L and also for the types made of Alloy 22.

MaxiSpinner 2

Example Type + Material-no. + Connection = Ordering no.
of ordering: 5M4.369 + 1Y + AQ = 5M4.369.1Y.AQ

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Subject to technical modifications or mistakes.