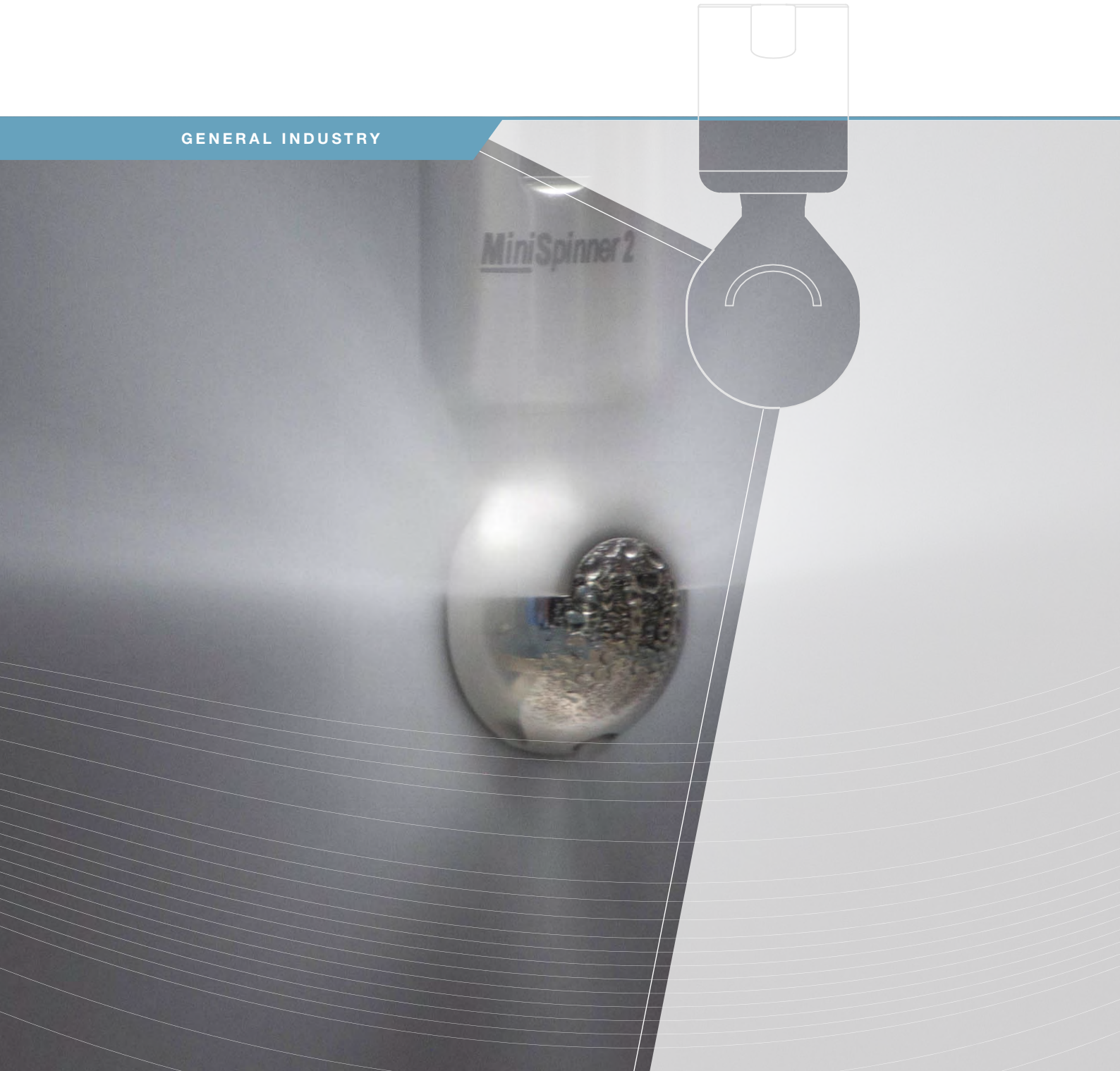
ENGINEERING
YOUR SPRAY SOLUTION

ROTATING CLEANING NOZZLES SPINNER 2

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

GENERAL INDUSTRY



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) 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)
- ATEX version available




MaxiSpinner2
MiniSpinner 2

Rotating cleaning nozzle NanoSpinner2
Series 5M1

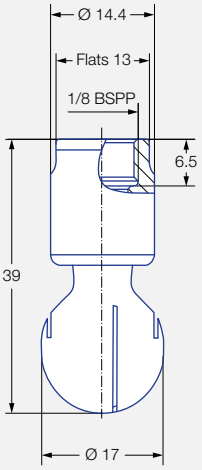
Features:
- Compact design for confined spaces
- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel

ATEX version available on request



FDA

Series 5M1



Female thread

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

Cleaning efficiency class
2

Max. temperature
250 °C

Installation
Operation in every direction is possible

Bearing
Double ball bearing made of stainless steel 316L

Material
Stainless steel 316L

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 number Type 1/8 BSPP	Narrowest free cross section Ø [mm]	V̇ water [l/min] p [bar] (p_{max} = 7 bar)				Max. tank diameter [m]
			1.0	**2.0**	3.0	at 40 psi [US gal/min]	
360° 	**5M1.879.1Y.AB**	0.4	11	**15**	18	5	1.4
	5M1.929.1Y.AB	0.5	14	**20**	25	6	1.6

NPT thread available 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.

Rotating cleaning nozzle MicroSpinner 2
Series 5M2

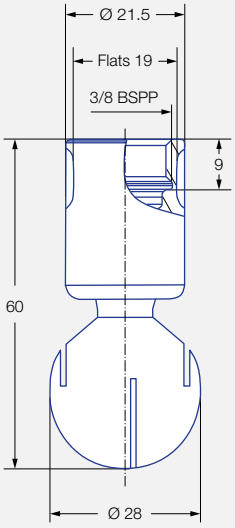
Features:
- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel

FDA

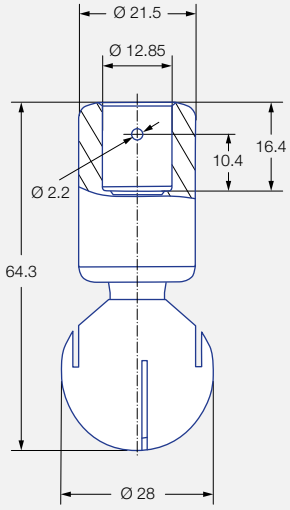
ATEX version available on request



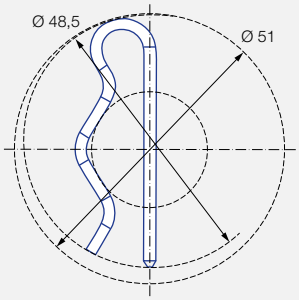
Series 5M2



Female thread



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



Dimensions of the slip-on connection top view

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

Material
Stainless steel 316L

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 number			Narrowest free cross section Ø [mm]	V̇ water [l/min]				Max. tank diameter [m]
	Type	Connection			p [bar] (p_{max} = 7 bar)				
		3/8 BSPP	1/2"-Slip-on		1.0	**2.0**	3.0	at 40 psi [US gal/min]	
60° 	**5M2.952.1Y**	**AF**	**TF05**	1.5	16	**23**	28	7	–
	5M2.042.1Y	**AF**	**TF05**	3.0	28	**40**	49	12	–
180° 	**5M2.004.1Y**	**AF**	**TF05**	0.9	22	**32**	39	10	1.8
360° 	**5M2.969.1Y**	**AF**	**TF05**	0.8	18	**25**	31	8	1.7
	5M2.049.1Y	**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 steal 316L included (ordering no. 05M.230.1Y.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

MicroSpinner 2

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

Rotating cleaning nozzle MiniSpinner 2
Series 5M3

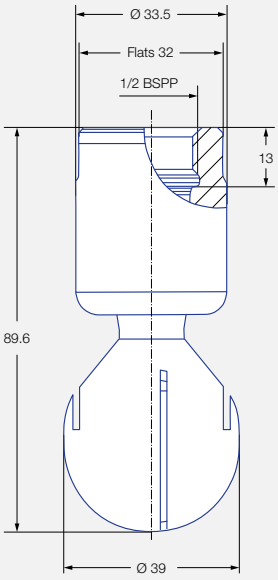
Features:
- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel



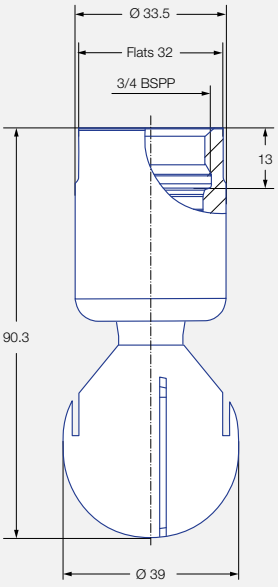
FDA

ATEX version available on request

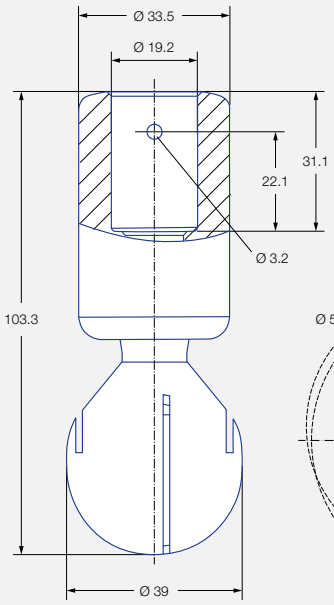
Series 5M3



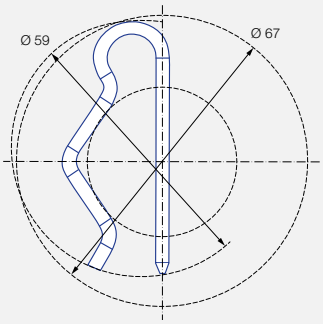
Female thread



Female thread



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



Dimensions of the slip-on connection top view

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

Material
Stainless steel 316L

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	Connection				p [bar] (p_{max} = 7 bar)				
		1/2 BSPP	3/4 BSPP	3/4"- Slip-on		1.0	**2.0**	3.0	at 40 psi [US gal/min]	
60° 	**5M3.122.1Y**	**AH**		**TF07**	2.6	45	**63**	77	20	
180° 	**5M3.133.1Y**		**AL**	**TF07**	1.2	47	**67**	82	21	2.6
180° 	**5M3.134.1Y**		**AL**	**TF07**	1.3	47	**67**	82	21	2.6
360° 	**5M3.999.1Y**		**AL**	**TF07**	0.4	21	**30**	37	9	1.8
	5M3.089.1Y		**AL**	**TF07**	0.7	35	**49**	60	15	2.1
	5M3.139.1Y		**AL**	**TF07**	0.8	49	**69**	85	21	2.3
	5M3.209.1Y		**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 steal 316L included (Ordering no. 05M.330.1Y.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.

MiniSpinner 2

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

Rotating cleaning nozzle MaxiSpinner 2
Series 5M4

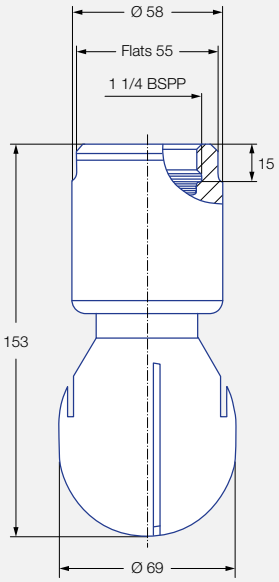
Features:
- Hygienic design
- Suitable for high temperatures
- Made entirely of stainless steel



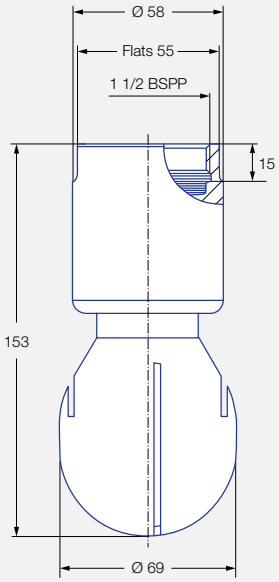
FDA

ATEX version available on request

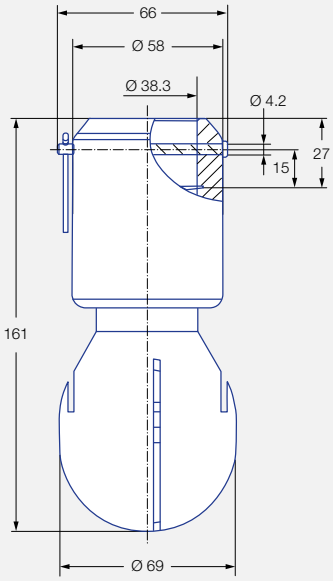
Series 5M4



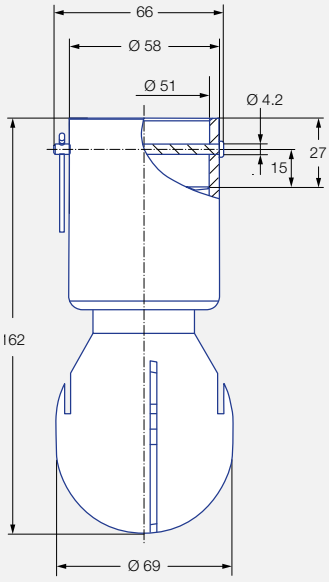
Female thread



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

Cleaning efficiency class
2

Max. temperature
250 °C

Installation
Operating in every direction possible

Bearing
Double ball bearing made of stainless steel 316L

Material
Stainless steel 316L

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	Connection					p [bar] (p_{max} = 7 bar)*				
		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]	
180° 	**5M4.253.1Y**	**AQ**	**AS**	**TF15**	**TF20**	1.8	95	**135**	165	42	4.0
180° 	**5M4.254.1Y**	**AQ**	**AS**	**TF15**	**TF20**	2.1	95	**135**	165	42	4.0
270° 	**5M4.365.1Y**	**AQ**	**AS**	**TF15**	**TF20**	2.5	177	**250**	306	78	5.0
360° 	**5M4.279.1Y**	**AQ**	**AS**	**TF15**	**TF20**	1.7	107	**150**	184	46	4.0
	5M4.329.1Y	**AQ**	**AS**	**TF15**	**TF20**	2.0	141	**200**	245	62	4.5
	5M4.369.1Y	**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 steal 316L included (Ordering no. 05M.431.1Y.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 bolt) is the same as for the threaded variants 69 mm.

MaxiSpinner 2

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

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