PERFECT RINSING AND REMOVAL **OF LIGHT SOILING**



Cleaning efficiency class 2

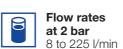
The typical task profile of the rotating nozzles in cleaning efficiency class 2 includes rinsing tasks and the removal of light soiling, particularly the kind that frequently occurs in the food and beverage industry as well as in the chemical and pharmaceutical industry.

The Lechler products in this class are free-spinning and made from particularly high-grade materials such as stainless steel, PVDF, PEEK and PTFE. This ensures the use of a wide range of different cleaning agents.













Max. temperatures 50 to 200 °C

Series 500.234

The PicoWhirly works with rotating solid jets and is also suitable for cleaning at very high temperatures. This rotating cleaning nozzle with kolsterised slide bearing is made entirely from stainless steel and can also be used in very small spaces, thanks to its extremely compact construction.







Material 316L SS



Max. temperature $200~^{\circ}\text{C}$



Recommended operating pressure 3 bar



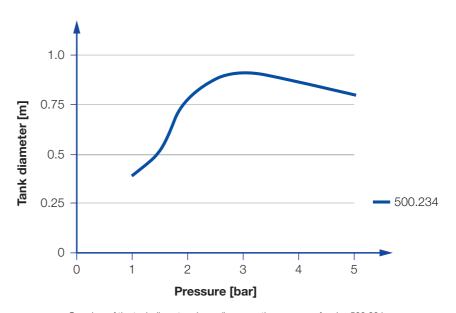
InstallationOperation in every direction is possible



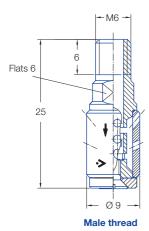
FiltrationLine strainer with a mesh size of 0.3 mm/50 mesh



BearingKolsterised slide bearing



Overview of the tank diameter, depending upon the pressure of series 500.234



Spray angle	Ordering number Type	E Ø		Ý [l/min]						
	.,,,,,	[mm]	p [bar] (p _{max} = 5 bar)							
			1	2	3	at 40 psi [US gal/min]	Max. diamel			
300°	500.234.G9.00	1.8	5.7	8.0	9.8	2.5	0.9			

E = narrowest free cross-section

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

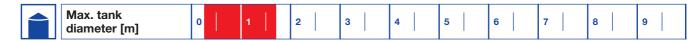
Information on operation

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

Series 566

The MicroWhirly, with effective flat fan nozzles, is licensed for contact with food. Thanks to the robust slide bearing made from PEEK, the MicroWhirly has a particularly long service life. The MicroWhirly is alternatively available with an internal or external thread and in an ATEX version, which allows it to be adapted to a wide range of uses.







Materials 316L SS, PEEK, PEEK ESD (ATEX version only)



Max. temperature 130 °C 90 °C ATEX Version



Recommended operating pressure 2 bar



InstallationOperation in every direction is possible

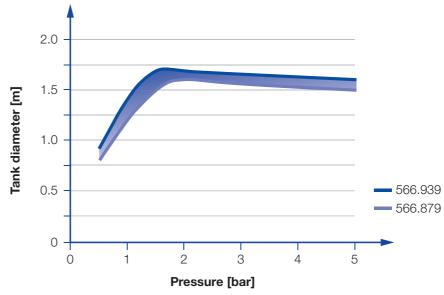


FiltrationLine strainer with a mesh size of

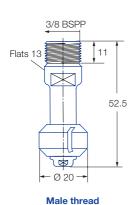
0.3 mm/50 mesh

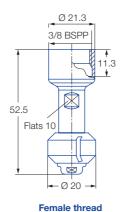


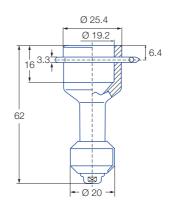
BearingSlide bearing made of PEEK



Overview of the tank diameter, depending upon the pressure of series 566







Dimensions slip-on connection according to ASME-BPE (OD-tube)

Spray angle	Orde	ring number						V [l/min]		''
		Connection			E Ø	p [bar] (p _{max} = 6 bar)				. tank eter [m]
	Туре	3/8 BSPP* male	3/8 BSPP* female	3/4" Slip-on	[mm]	1	2	3	at 40 psi [US gal/min]	Max. tar diameter
180°	566.873.1Y	AE	AF	TF	1	12	15	18	5	1.6
	566.933.1Y	AE	AF	TF	2.4	15	21	26	7	1.7
180°	566.874.1Y	AE	AF	TF	1	12	15	18	5	1.6
	566.934.1Y	AE	AF	TF	2.4	15	21	26	7	1.7
360°	566.879.1Y	AE	AF	TF	1	12	15	18	5	1.6
	566.939.1Y	AE	AF	TF	2.4	15	21	26	7	1.7

 $\mathsf{E} = \mathsf{narrowest}$ free cross-section \cdot * NPT and weld-on version on request

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Information on operation

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

Slip-on information

- R-clip made of 316L SS is included (Ordering no.: 095.022.1Y.50.94.E).
- Depending on diameter of the adapter the flow rate can increase due to leakage between connecting pipe and rotating cleaning nozzle.

Example of ordering with ATEX approval. No FDA and (EC) 1935/2004 conformity.

Unit group/category/zones:

⟨Ex⟩ II 1G Ex h IIB T6...T3 Ga

⟨Ex⟩ II 1D Ex h IIIC T85 °C...T150 °C Da

+ Connection = Ordering no. Example Type of ordering: 566.873.1Y.XX.EX + AE = 566.873.1Y.AE.EX **Example of ordering with FDA** and (EC) 1935/2004 conformity.

All Materials are suitable for contact with food.





Example + Connection = Ordering no. Type of ordering: 566.873.1Y.XX + AE = 566.873.1Y.AE

ATTENTION:

For the ATEX version of the slip-on connection the code for the connection changes. For a 566.873.1Y.TF.07 with ATEX the order number changes to 566.873.1Y.TF.EX

Series 500.186

The MiniWhirly made from POM is the economical entry-level model in the area of tank cleaning. The rotating nozzle has effective flat fan nozzles and was specifically designed for applications in barrel and canister cleaning.







Materials POM, 316 SS



Max. temperature $50~^{\circ}\text{C}$



Recommended operating pressure 2 bar



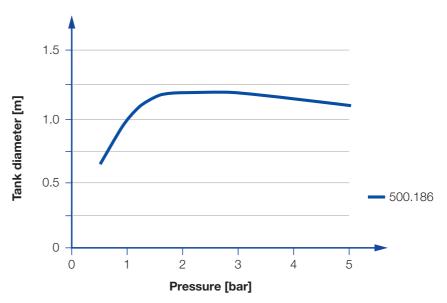
InstallationVertically facing downward



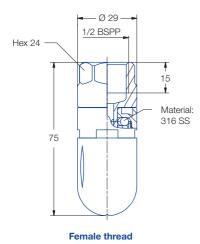
Filtration Line strainer with a mesh size of 0.3 mm/50 mesh



BearingBall bearing made of stainless steel



Overview of the tank diameter, depending upon the pressure of series 500.186



Spray angle	Ordering number Type	E Ø		Ů [l	/min]		E				
		[mm]		p [bar] (p _{max} = 5 bar)							
/-			1	2	3	at 40 psi [US gal/min]	Ma) diam				
300°	500.186.56.AH	1.9	13	18	22	6	1.3				

E = narrowest free cross-section

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Information on operation

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

Rotating cleaning nozzle »PVDF MicroWhirly« Series 500.191

Series 500.191

The PVDF MicroWhirly is made entirely from PVDF and designed to work in a corrosive environment. It is also suitable for contact with food and the application of foam, and can be used for cleaning equipment – all for a very good price-performance ratio.







Material PVDF



Max. temperature 90 $^{\circ}\mathrm{C}$



Recommended operating pressure 2 bar



Installation

Operation in every direction is possible

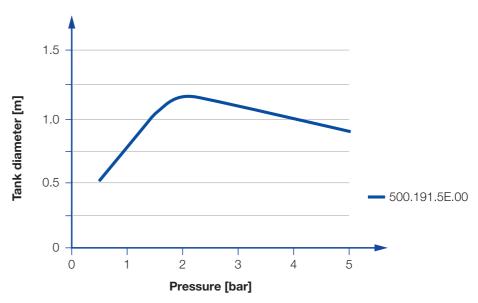


Filtration

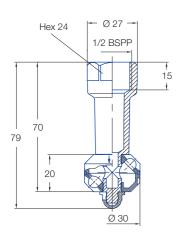
Line strainer with a mesh size of 0.3 mm/50 mesh

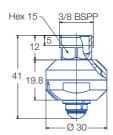


BearingSlide bearing made of PVDF



Overview of the tank diameter, depending upon the pressure of series 500.191





Standard version Female thread

Compact version Male thread

Standard version

Spray angle	Ordering number Type	EØ [mm]	Connection BSPP		Ϋ́Ι	l/min]		√ [E		
			female		p [bar] (p _{max} = 5 bar)					
				1	2	3	at 40 psi [US gal/min]	Max. tank diameter [m]		
180°	500.191.5E.02	2.2	1/2"	9	13	16	4	0.8		
180°	500.191.5E.01	2.2	1/2"	9	13	16	4	0.8		
270°	500.191.5E.31	2.2	1/2"	14	20	25	6	1.1		
360°	500.191.5E.00	2.2	1/2"	14	20	25	6	1.1		

 $\mathsf{E} = \mathsf{narrowest}$ free cross-section

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Compact version

Spray angle	Ordering number Type	EØ [mm]	Connection BSPP		tank er [m]					
	,,,,,	[,	male		p [bar] (p _{max} = 5 bar)					
				1	2	3	at 40 psi [US gal/min]	Max. tar diameter		
180°	500.191.5E.21	2.2	3/8"	9	13	16	4	0.8		
360°	500.191.5E.22	2.2	3/8"	14	20	25	6	1.1		

E = narrowest free cross-section

Information on operation

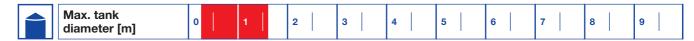
The PVDF MicroWhirly is not suitable for operation with compressed air or any other gas. Operation above the recommended operating pressure has negative effects on the cleaning result and wear. The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Rotating cleaning nozzle »NanoSpinner 2« Series 5M1

Series 5M1

The NanoSpinner 2 convinces by its compact design which allows cleaning in confined spaces. In addition, the rotating cleaning nozzle is characterized by its popular design and a double ball bearing. It is made entirely of stainless steel and is thus also suitable for high ambient temperatures.







Materials

Stainless steel 316L



Max. temperature $250~^{\circ}\text{C}$



Recommended operating pressure 2 bar



Installation

Operation in every direction is possible



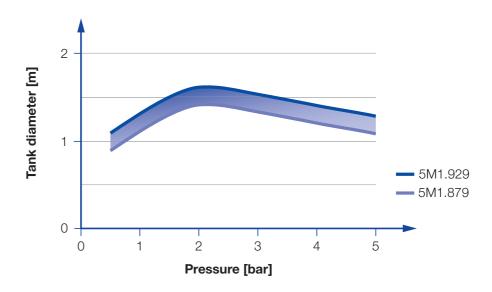
Filtration

Line strainer with a mesh size of 0.1 mm/170 Mesh

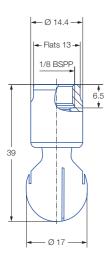


Bearing

Double ball bearing made of stainless steel 316L



Overview of the tank diameter, depending upon the pressure of series $5\mathrm{M}1$



Female thread

Spray angle	Ordering number Type	E Ø [mm]		V [l/min] p [bar] (p _{max} = 7 bar)						
			1	2	3	at 40 psi [US gal./ min]	Max. diame			
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			

 $\label{eq:energy} E = \text{narrowest free cross-section} \\ NPT, slip-on connection and weld-on versions on request$

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Information on operation

Operation with compressed air only for short-term usage. Operation above the recommended operating pressure means higher wear and smaller droplets. This might have adverse effects on the cleaning result.

Example of ordering with ATEX approval. FDA and (EG) 1935/2004 conform.



Unit group / category / zones:



Example of Type/Ordering no. ordering: 5M1.879.1Y.AB.EX **Example of ordering with FDA** and (EC) 1935/2004 conformity.

All Materials are suitable for contact with food.



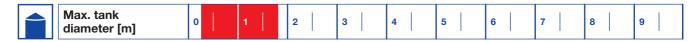


Example of Type Connection = Ordering no. ordering: 5M1.879.1Y + AB = 5M1.879.1Y.AB

Series 5M2

The MicroSpinner 2 convinces by its compact design which allows cleaning in confined spaces. The MicroSpinner 2 is made entirely from stainless steel and designed for use also at high temperatures. It is available with many different flow rates and spray angles.







Materials

Stainless steel 316L



Max. temperature 250 °C



Recommended operating pressure 2 bar



Installation

Operation in every direction is possible



Filtration

Line strainer with a mesh size of 0.1 mm/170 Mesh



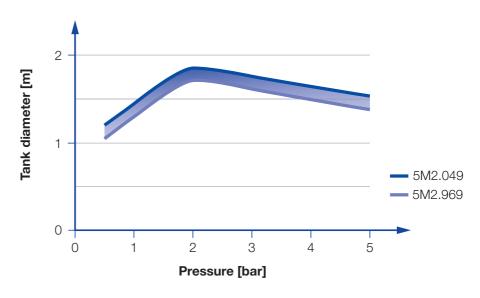
Bearing

Double ball bearing made of stainless steel 316L

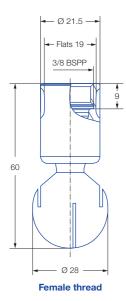


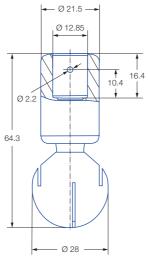
Adapter

3/8 BSPP is compatible with HygienicFit

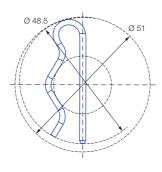


Overview of the tank diameter, depending upon the pressure of series $5\mbox{M2}$





1/2" Slip-on connection Dimensions slip-on connection according to ASME-BPE (OD-tube)



Dimensions slip-on connection top view

Spray angle	(Ordering number		E Ø		Ý	[l/min]		
		Conn	ection	[mm]	p [bar] (p _{max} = 7 bar)				독교
	Туре	3/8 BSPP	1/2" Slip-on		1	2	3	at 40 psi [US gal./ min]	Max. tank diameter [m]
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

E = narrowest free cross-section NPT, slip-on connection and weld-on versions on request The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Information on operation

Operation with compressed air only for short-term usage. Operation above the recommended operating pressure means higher wear and smaller droplets. This might have adverse effects on the cleaning result.

Slip-on information

- Split pin made of 316L SS is included. (Ordering no. 05M.230.1Y.00.00.0).
- Depending on diameter of the adapter the flow rate can increase due to leakage between connecting pipe and rotating cleaning nozzle.
- Minimum insertion diameter (with mounted split pin) is 48,5 mm.

Example of ordering with ATEX approval. FDA and (EG) 1935/2004 conform. Only material 316L SS available with ATEX approval.

Unit group / category / zones:



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

Attention: for the ATEX version of the slip-connection the code for the connection changes. Ordering example for connection: 5M2.042.1Y.T1.EX

Example of ordering with FDA and (EC) 1935/2004 conformity.

All Materials are suitable for contact with food.



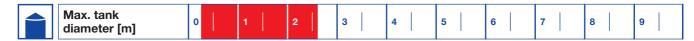
Example of Type Connection = Ordering no. Ordering: 5M2.952.1Y = 5M2.952.1Y.AF

Rotating cleaning nozzle »MiniSpinner 2« Series 5M3

Series 5M3

The MiniSpinner 2 convinces with its popular design and effective cleaning. The MiniSpinner 2 is made entirely from stainless steel and designed for use also at high temperatures. It is available with many different flow rates and spray angles.







Materials

Stainless steel 316L



Max. temperature $250~^{\circ}\text{C}$



Recommended operating pressure 2 bar



Installation

Operation in every direction is possible



Filtration

Line strainer with a mesh size of 0.1 mm/170 Mesh



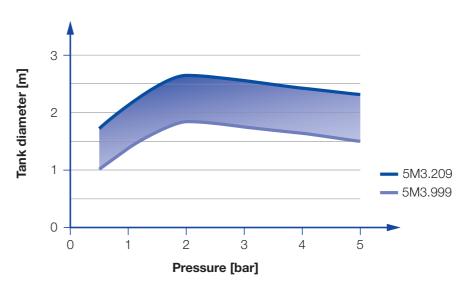
Bearing

Double ball bearing made of stainless steel 316L

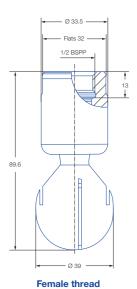


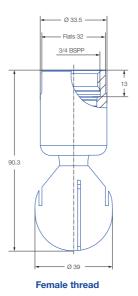
Adapter

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

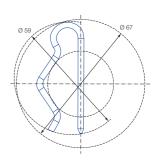


Overview of the tank diameter, depending upon the pressure of series 5M3





033.5



3/4" Slip-on connection Dimensions slip-on connection according to ASME-BPE (OD-tube)

Dimensions slip-on connection top view

Spray angle		Ordering n	umber		E Ø		Ý	[l/min]		
			Connection		[mm]	p [bar] (p _{max} = 7 bar)				골놀
	Туре	1/2 BSPP	3/4 BSPP	3/4" Slip-on		1	2	3	at 40 psi [US gal./ min]	Max. tank diameter [m]
60°	5M3.122.1Y	АН	-	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

E = narrowest free cross-section NPT, slip-on connection and weld-on versions on request The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Information on operation

Operation with compressed air only for short-term usage. Operation above the recommended operating pressure means higher wear and smaller droplets. This might have adverse effects on the cleaning result.

Slip-on information

- Split pin made of 316L SS is included. (Ordering no.: 05M.330.1Y.00.00.0).
- Depending on diameter of the adapter the flow rate can increase due to leakage between connecting pipe and rotating cleaning nozzle.
- Minimum insertion diameter (with mounted split pin) is 59 mm.

Example of ordering with ATEX approval. FDA and (EG) 1935/2004 conform. Only material 316L SS available with ATEX approval.

Unit group / category / zones:

lack | I 1 G Ex h | IB T6...T2 Ga



 $\langle \epsilon_x \rangle$

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

H.EX

All Materials are suitable for contact with food.

Example of ordering with FDA and (EC) 1935/2004 conformity.



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

Attention: for the ATEX version of the slip-connection the code for the connection changes. Ordering example for connection: 5M3.122.1Y.T2.EX

Rotating cleaning nozzle »MaxiSpinner 2« Series 5M4

Series 5M4

The newly developed MaxiSpinner 2 is similar to the Mini, Micro and NanoSpinner 2 series in many respects. As the largest product of this series, it also convinces with effective cleaning results and a reliable as well as durable bearing construction. The MaxiSpinner 2 is made entirely of stainless steel (316L) and is also designed for high ambient temperatures.







Materials

Stainless steel 316L



Max. temperature $250~^{\circ}\text{C}$



Recommended operating pressure 2 bar



Installation

Operation in every direction is possible



Filtration

Line strainer with a mesh size of 0.1 mm/170 Mesh



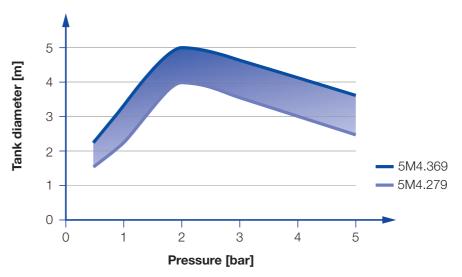
Bearing

Double ball bearing made of stainless steel 316L

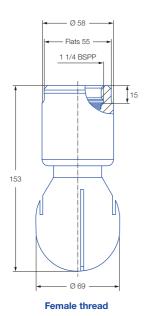


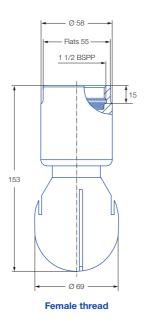
Adapter

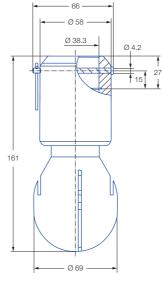
1 1/4 BSPP and 1 1/2 BSPP are compatible with HygienicFit

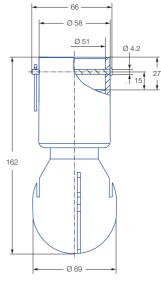


Overview of the tank diameter, depending upon the pressure of series 5M4









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

2" slip-on connection Dimensions slip-on connection according to ASME-BPE (OD-tube)

Spray angle			Ordering num	nber		E ý [l/min]					
			С	onnection		[mm]	p [bar] (p _{max} = 7 bar)*				독교
	-										Max. tank diameter [m]
	Туре	1 1/4 BSPP	1 1/2 BSPP	1 1/2" Slip-on	2" Slip-on		1	2	3	at 40 psi [US gal./ min]	Ma dian
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

E = narrowest free cross-section

NPT and weld-on versions on request

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Information on operation

T6.EX.

Operation with compressed air only for short-term usage. Operation above the recommended operating pressure means higher wear and smaller droplets. This might have adverse effects on the cleaning result.

Slip-on information

- Bolt with head incl. pin made of stainless steel 316L included. (Ordering no. 05M.431.1Y.00.00.0)
- Depending on diameter of the adapter the flow rate can 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.

Example of ordering with ATEX approval. FDA and (EG) 1935/2004 conform. Only material 316L SS available with ATEX approval. Unit group / category / zones:



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

Attention: for the ATEX version of the 1 1/2" slip-connection and the 2" slip-connection the code for the connection changes. Ordering example for 1 1/2" connection: 5M4.369.1Y.T5.EX. Ordering example for 2" connection: 5M4.369.1Y.

Example of ordering with FDA and (EC) 1935/2004 conformity.

All Materials are suitable for contact with food.

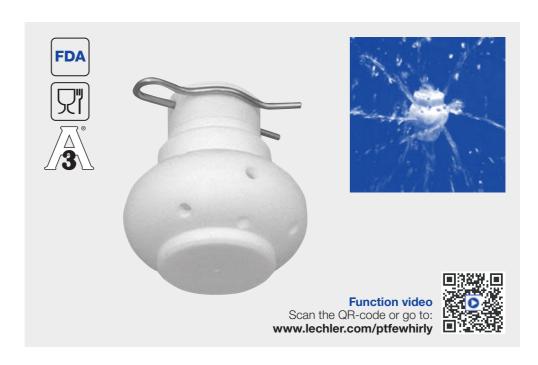


Example of Type Connection = Ordering no. 5M4.369.1Y Ordering: AQ

Please note the maximum operating pressure of 4 bar for the 2" slip-on version (TF.20).

Series 573/583

The PTFE Whirly is of particular interest for applications in the chemical, pharmaceutical and food industries. It works with rotating solid jets and is suitable for use in corrosive environments. The slip-on connection has a 3-A certification and can be used in areas subject to particularly high hygiene requirements, such as contact with food.







Material PTFE



Max. temperature 95 °C (versions for use with higher temperature (130 °C) on request)



Recommended operating pressure 2 bar



InstallationOperation in every direction is possible

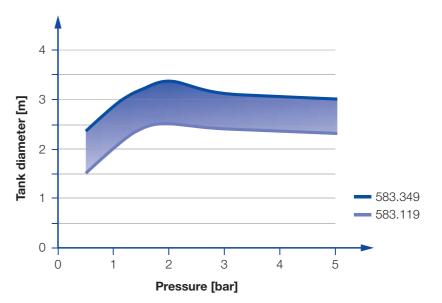


FiltrationLine strainer with a mesh size of

0.3 mm/50 mesh



BearingSlide bearing made of PTFE



Overview of the tank diameter, depending upon the pressure of series 573/583

Data in brackets refer to 1"-version marked with "

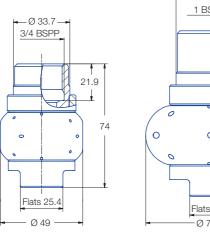
1 BSPP

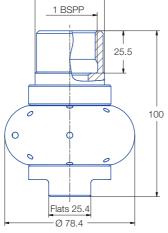
1 BSPP

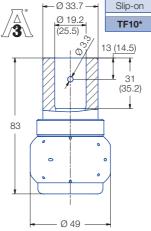
1 BSPP

1 BSPP

1 TF10*







33 14.5 35.2 83 0 78.4

Female thread

Female thread

3/4" and 1" Slip-on connection
(conforming to 3-A)

Dimensions according to ASME-BPE
(OD-tube)

1" Slip-on connection (conforming to 3-A) Dimensions according to ASME-BPE (OD-tube)

Spray angle			Orde	ering no.			E Ý [/min]					√ <u>E</u>
				Cor	nection		[mm]		\mathbf{p} [bar] ($p_{\text{max}} = 6$ bar)			tan ter [
	R-clip	Туре	3/4 BSPP	1 BSPP	3/4" Slip-on	1" Slip-on		1	2	3	at 40 psi [US gal/ min]	Max. tank diameter [m]
270°	1)	583.116.55	AL	-	TF07	-	2.4	47	67	82	21	2.5
	2)	583.346.55	-	-	-	TF10	5.9	159	225	276	70	3.2
270°	1)	573.116.55	AL	-	TF07	-	2.4	47	67	82	21	2.5
360°	1)	583.119.55	AL	-	TF07	TF10*	1.8	41	58	71	18	2.4
	1)	583.209.55	AL	-	TF07	TF10*	3.5	71	100	122	31	2.5
	1)	583.269.55	AL	-	TF07	-	4.8	103	145	178	45	2.8
	2)	583.279.55	-	AN	-	TF10	3.7	106	150	184	47	3.0
	2)	583.349.55	-	AN	-	TF10	5.6	159	225	276	70	3.2

E = narrowest free cross-section \cdot NPT on request

Information on operation

Operation with compressed air only for short-term usage. Operation above the recommended operating pressure has negative effects on the cleaning result and wear. The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Slip-on information

- R-clip made of 316L SS is included (Ordering no.: R-clip 1: 095.013.17.06.60,
- R-clip 2: 095.013.17.06.61).
- Depending on diameter of the adapter the flow rate can increase due to leakage between connecting pipe and rotating cleaning nozzle.

Example Type + Connection = Ordering no. of ordering: 583.119.55. + AL = 583.119.55.AL

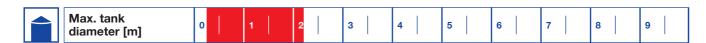
^{*} See drawing 3 for details

Retractable rotating cleaning nozzle »PopUp Whirly« Series 5P2/5P3

Series 5P2/5P3

The PopUp Whirly is designed for cleaning in confined spaces and for tanks or pipelines where conventional cleaning systems could affect the process. The free-spinning rotating nozzle can be installed flush with the wall. When a certain liquid pressure is applied, the rotating cleaning nozzle of the PopUp Whirly extends automatically and starts cleaning. The PopUp Whirly is also suitable for pipe cleaning and for applications that use foam. It is particularly interesting for applications in the food and beverage industry as well as in the chemical and pharmaceutical industry. The ATEX approval makes the PopUp Whirly suitable for use in explosive areas.







Materials 316L SS, 316Ti SS, 316 SS. FKM



Max. temperature 140 °C



Recommended operating pressure

2 bar 5P2: opening pressure approx. 1.0 bar closing pressure approx. 0.5 bar 5P3: opening pressure approx. 0.9 bar closing pressure approx. 0.5 bar



Installation

Operation in every direction is possible

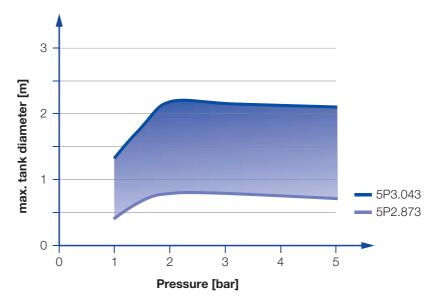


Filtration

Line strainer with a mesh size of 0.3 mm/50 mesh



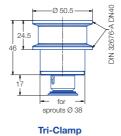
BearingSlide bearing

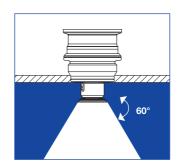


Overview of the tank diameter, depending upon the pressure of series 5P2/5P3

Series 5P2





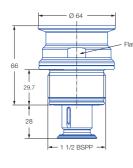


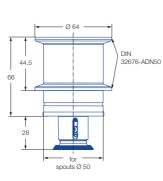
Mal	\sim	+h	ro	2
ivia		u	16	a١

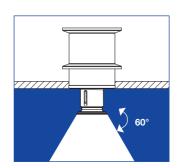
Spray angle	Ordering no.	-	nk ection	E Ø [mm]		. tank ster [m]			
		1 1/4 BSPP	Tri- Clamp		1	2	3	at 40 psi [US gal/min]	Max. ta diameter
	5P2.873.1Y.AP	0	-	2.5	10.6	15.0	18.4	5	0.8
	5P2.873.1Y.00	-	0	2.5	10.6	15.0	18.4	5	0.8
	5P2.923.1Y.AP	0	-	3.5	14.1	20.0	24.5	6	1.0
	5P2.923.1Y.00	-	0	3.5	14.1	20.0	24.5	6	1.0

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

Series 5P3







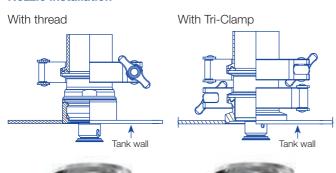
Male thread

Tri-Clamp

Spray angle	Ordering no.	Tank connection		E Ø [mm]	v [l/min] p [bar] (p _{max} = 6 bar)				tank ter [m]
		1 1/2 BSPP	Tri- Clamp		1	2	3	at 40 psi [US gal/min]	Max. diame
	5P3.043.1Y.AR	0	-	3.3	28.3	40	49	12	2.2
	5P3.043.1Y.00	-	0	3.3	28.3	40	49	12	2.2

The maximum tank diameter shown above applies for the recommended operating pressure and is indicative only. The cleaning result is also affected by the type of soiling.

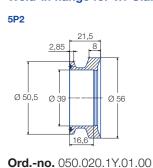
Nozzle installation

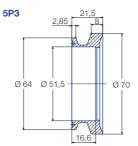


Information on operation

- The PopUp Whirly is not suitable for operation with compressed air or any other gas.
- Operation above the recommended operating pressure has negative effects on the cleaning result and wear.

Weld-in flange for Tri-Clamp-Version





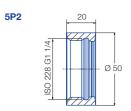
Ord.-no. 050.020.1Y.01.01

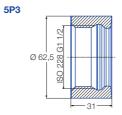
Information

Gasket with a thickness of 2 mm must be used if the PopUp Whirly is installed with this weld-in flange.

Material 316L SS

Weld-in socket for Thread-Version





Ord.-no. 050.020.1Y.AQ.00 Ord.-no. 050.020.1Y.AS.00

Information

The thread is hygienically sealed with 2 O-rings included in the scope of delivery.

Material 316L SS

Example of ordering with FDA and (EG) 1935/2004 conformity.

All Materials are suitable for contact with food.



FDA

Example of Type ordering: 5P2.873.1Y + Connection + AP

= Ordering no. = 5P2.873.1Y.AP

Example of ordering with ATEX approval. FDA and (EG) 1935/2004 conform. Only material 316L SS available with ATEX approval.

Unit group / category / zones



Example of Type + Mat.-No. + Connection = Ordering no. 5P2.873+ 1Y + AP = 5P2.873.1Y.AP.EX