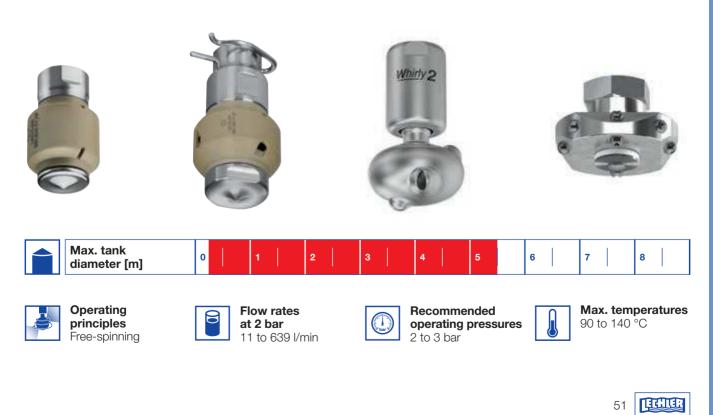
EFFICIENT REMOVAL OF LIGHT AND MEDIUM SOILING



Cleaning efficiency class 3

Due to their special nozzle geometry and flow rates from 11 to 639 l/min at 2 bar, the rotating nozzles in efficiency class 3 are suitable for cleaning medium soiling from tanks and equipment. Such soiling is especially found in the food and beverage industry, but also in the chemical and pharmaceutical industry. The free-spinning rotating nozzles in class 3 are made from especially high-grade materials and are available in tank sizes from small to large. The HygienicWhirly is perfectly suited for hygienically sensitive areas and can also be used for the output of foam.

The Whirly series is also available as an ATEX version and can therefore also be used in explosive environments.





HENNLICH -ŽIJEME TECHNIKOU o.z. HYDRO-TECH HENNLICH s.r.o. Českolipská 9, 412 01 Litoměřice Telefon: +420 416 711 222 E-mail: hydro-tech@hennlich.cz



Rotating cleaning nozzles **»HygienicWhirly«** Series 594/595

Series 594/595

The HygienicWhirly with its highly effective flat jets is particularly suited for high hygiene requirements and for the application of foam. Operation at low pressure with good cleaning effect is also possible.







Materials

316L SS, PEEK, Slip-on connection version: O-ring made of EPDM



Max. temperature 100 °C,

short-term up to 140 °C



Recommended operating pressure 3 bar

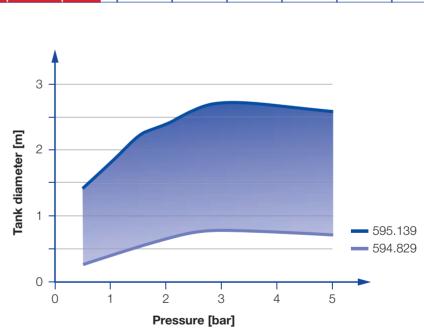
Installation Operation in every direction is possible



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



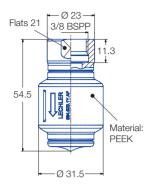
Bearing Slide bearing made of PEEK



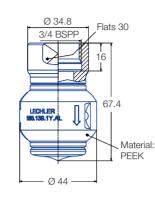
Overview of the tank diameter, depending upon the pressure of series 594/595



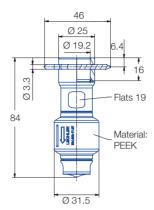




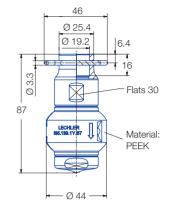
Standard version Female tread 59X.XX9.1Y.AF



Standard version Female tread 595.139.1Y.AL



Dimensions slip-on connection according to ASME-BPE (OD-tube) 59X.XX9.1Y.67



Dimensions slip-on connection according to ASME-BPE (OD-tube) 595.139.1Y.67

| Spray angle | | Ordering | no. | E Ý [/min] | | | | | | ¥Έ | | |
|----------------|------------|-----------------------|-----------------------|-------------------|------|-----|----|----|----|-------------------------------|----------------|--|
| | Туре | Connection | | | [mm] | | | | | | tar ter | |
| | | 3/8 BSPP female | 3/4 BSPP female | 3/4" Slip-on | | 0.5 | 1 | 2 | 3 | at 40 psi [US gal/ min] | Max. diamet | |
| 360° | 594.829.1Y | AF | - | 67 | 1.7 | 6 | 8 | 11 | 14 | 3 | 0.8 | |
| | 594.879.1Y | AF | - | 67 | 2.5 | 8 | 11 | 15 | 18 | 5 | 1.2 | |
| | 595.009.1Y | AF | - | 67 | 4.0 | 16 | 22 | 32 | 39 | 10 | 1.5 | |
| | 595.049.1Y | AF | - | 67 | 4.2 | 20 | 28 | 40 | 49 | 12 | 2.0 | |
| | 595.139.1Y | - | AL | 67 | 5.0 | 34 | 47 | 67 | 82 | 21 | 2.7 | |

E = narrowest free cross-section \cdot NPT 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.

| Example | Туре | + | Connection | = | Ordering no. |
|--------------|------------|---|------------|---|---------------|
| of ordering: | 594.829.1Y | + | AF | = | 594.829.1Y.AF |

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.



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LECHLER



Series 5W9

Popular and proven: the design of the Whirly 2. It generates effective flat jets, offers various connection options and is available in a very wide range of flow rates. It is also available in an ATEX-approved version and in a range of versions with different spray angles.







Materials 316L, PEEK



140 °C

Max. temperature

operating pressure



2 bar Installation



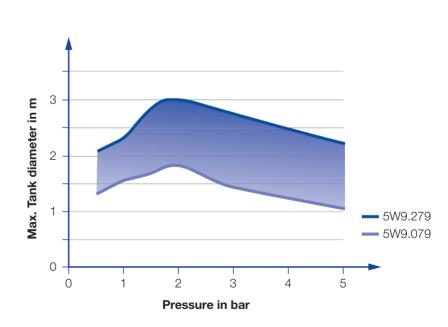
Operation in every direction is possible

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



Bearing Double ball bearing made of 316L

Adapter 3/4 BSPP is compatible with HygienicFit

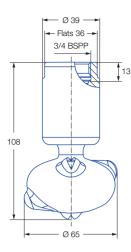


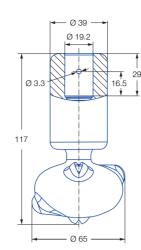
Overview of the maximum tank diameter, depending upon the pressure of series 5W9

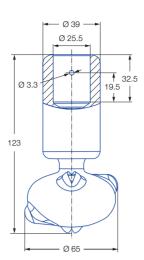


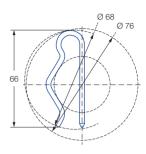


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Female thread

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

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

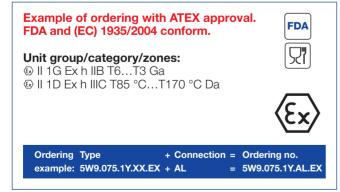
Dimensions slip-on connection top-view

| Spray angle | | Ordering I | E Ø | Ξ¥ | | | | | | |
|----------------|------------|-------------|--------------------|------------------|------|---|-----|-----|--------------------------------|----------------------|
| Å | | Code | | | [mm] | p [bar] (p _{max} = 6 bar) | | | | tank ter [m |
| | Туре | 3/4 BSPP | 3/4" Connection | 1" Connection | | 1 | 2 | 3 | at 40 psi [US gal./ min] | Max. tar diameter |
| 270° | 5W9.075.1Y | AL | TF07 | TF10 | 2.0 | 34 | 48 | 59 | 15 | 1.8 |
| | 5W9.145.1Y | AL | TF07 | TF10 | 2.8 | 50 | 71 | 87 | 22 | 2.1 |
| | 5W9.195.1Y | AL | TF07 | TF10 | 3.3 | 69 | 97 | 119 | 30 | 2.6 |
| 270° | 5W9.076.1Y | AL | TF07 | TF10 | 2.0 | 34 | 48 | 59 | 15 | 1.8 |
| | 5W9.106.1Y | AL | TF07 | TF10 | 2.5 | 41 | 58 | 71 | 18 | 2.1 |
| | 5W9.196.1Y | AL | TF07 | TF10 | 3.4 | 69 | 97 | 119 | 30 | 2.6 |
| 360° | 5W9.079.1Y | AL | TF07 | TF10 | 1.6 | 34 | 48 | 59 | 15 | 1.8 |
| | 5W9.149.1Y | AL | TF07 | TF10 | 2.4 | 50 | 71 | 87 | 22 | 2.1 |
| | 5W9.199.1Y | AL | TF07 | TF10 | 3.0 | 69 | 97 | 119 | 30 | 2.6 |
| | 5W9.279.1Y | AL | TF07 | TF10 | 3.5 | 103 | 145 | 178 | 45 | 3.0 |

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

Information on operation

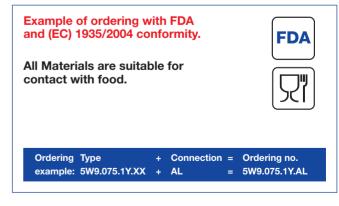
Operation with compressed air only for short-term usage. Operation above the recommended operating pressure has negative effects on the cleaning result and wear.



Attention: for the ATEX version of the slip-on connection the code for the connection changes. Ordering example for connection TF.07: 5W9.075.1Y.T2.EX/ ordering example for connection TF.10: 5W9.075.1Y.T3.EX 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

- Split pin made of 316L SS is included (Ordering no.: 095.022.1Y.06.72.0).
- 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 68 mm.







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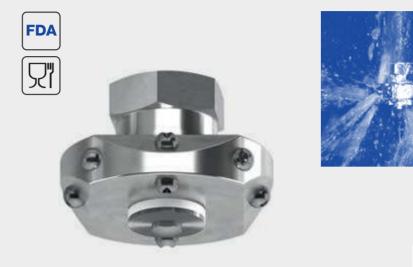
o.z. HYDRO-TECH HENNLICH s.r.o. Českolipská 9, 412 01 Litoměřice

Telefon: +420 416 711 222 E-mail: hydro-tech@hennlich.cz



Series 577

The Gyro cleans with powerful nozzle inserts and is available in many flow rates and spray angles. It is also suitable for very large tanks and is insensitive to clogging.





Scan the QR-code or go to:

www.lechler.com/gyro

Function video





Materials 316L SS, PTFE



Max. temperature 90 °C



Recommended operating pressure 3 bar



Installation Vertically facing downward

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



Bearing Slide bearing made of PTFE

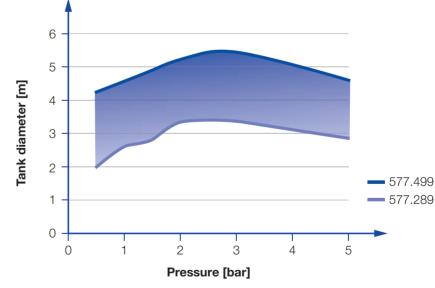


Accessories Spare parts set consisting of: top seal, bottom seal, bolt, nut, sleeve, instructions for use

EEEE 56



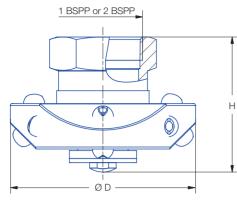
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Overview of the tank diameter, depending upon the pressure of series 577

Telefon: +420 416 711 222 E-mail: hydro-tech@hennlich.cz

Cleaning efficiency class



Female thread

| Spray angle | Orde | ring no. | | | | V [l/min] | Dimensions | | . 5 | | |
|-------------|------------|----------|--------|-----|-------------|----------------------------|------------|-------------------------------|---------------------|-----------------------|---------------------------|
| | | Conne | ection | | p [t | oar] (p _{max} = 5 | | | tank ter [n | | |
| | Туре | 1 BSPP | 2 BSPP | 1 | 2 | 3 | 5 | at 40 psi [US gal/ min] | Height H [mm] | Diameter D [mm] | Max. tank diameter [m] |
| 180° | 577.283.1Y | AN | - | 115 | 163 | 200 | 258 | 50 | 72 | 118 | 3.4 |
| | 577.363.1Y | AN | - | 182 | 258 | 316 | 408 | 80 | 72 | 118 | 3.9 |
| | 577.403.1Y | - | AW | 228 | 322 | 394 | 509 | 100 | 103 | 156 | 4.2 |
| | 577.433.1Y | - | AW | 273 | 386 | 473 | 610 | 120 | 103 | 156 | 4.6 |
| | 577.523.1Y | - | AW | 452 | 639 | 783 | 1,010 | 170 | 103 | 156 | 5.4 |
| 180° | 577.284.1Y | AN | - | 115 | 163 | 200 | 258 | 50 | 72 | 118 | 3.4 |
| | 577.364.1Y | AN | - | 182 | 258 | 316 | 408 | 80 | 72 | 118 | 3.9 |
| | 577.404.1Y | - | AW | 228 | 322 | 394 | 509 | 100 | 103 | 156 | 4.2 |
| | 577.434.1Y | - | AW | 273 | 386 | 473 | 610 | 120 | 103 | 156 | 4.6 |
| | 577.494.1Y | - | AW | 380 | 538 | 659 | 851 | 170 | 103 | 156 | 5.4 |
| 270° | 577.285.1Y | AN | - | 115 | 163 | 200 | 258 | 50 | 72 | 118 | 3.4 |
| | 577.365.1Y | AN | - | 182 | 258 | 316 | 408 | 80 | 72 | 118 | 3.9 |
| | 577.405.1Y | - | AW | 228 | 322 | 394 | 509 | 100 | 103 | 156 | 4.2 |
| | 577.435.1Y | - | AW | 273 | 386 | 473 | 610 | 120 | 103 | 156 | 4.6 |
| | 577.495.1Y | - | AW | 380 | 538 | 659 | 851 | 170 | 103 | 156 | 5.4 |
| 360° | 577.289.1Y | AN | - | 115 | 163 | 200 | 258 | 50 | 72 | 118 | 3.4 |
| | 577.369.1Y | AN | - | 182 | 258 | 316 | 408 | 80 | 72 | 118 | 3.9 |
| | 577.409.1Y | - | AW | 228 | 322 | 394 | 509 | 100 | 103 | 156 | 4.2 |
| | 577.439.1Y | - | AW | 273 | 386 | 473 | 610 | 120 | 103 | 156 | 4.6 |
| | 577.499.1Y | - | AW | 380 | 538 | 659 | 851 | 170 | 103 | 156 | 5.4 |

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.

| Example | Туре | + | Connection | = | Ordering no. |
|---------------|-------------|---|------------|---|---------------|
| for Ordering: | 577.283.1Y. | + | AN | = | 577.283.1Y.AN |





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EECHEER 58