

Rotating cleaning nozzle

XactClean HP 2

Series 5S6/5S7



Features:

- Flat fan nozzle with high impact
- Uniform cleaning
- High efficiency due to controlled rotation
- High operating reliability thanks to robust drive unit



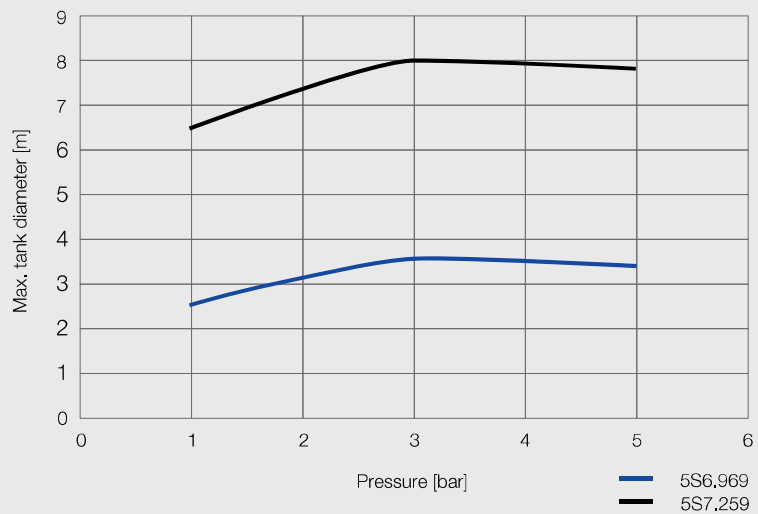
Function video
www.lechler.com/de-en/medialibrary/videos-general-industry
 Or scan the QR code.

Series 5S6/5S7

Technical data:

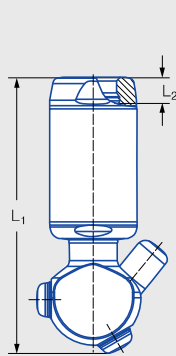
| | | | |
|--|---|---|--|
| Maximum operating temperature 150 °C 150 °C (ATEX) | Maximum ambient temperature 150 °C 150 °C (ATEX) | Installation Operation in every installation position | Bearing Double ball bearing |
| Material Stainless steel 1.4404 (316L) or 2.4602 (Alloy 22), PEEK, EPDM or FKM | Weight 650–900 g | Surface quality Ra ≤ 0,8 µm <small>OUTSIDE</small> | Surface quality Ra ≤ 1,6 µm <small>INSIDE</small> |
| Steam suitability Suitable | Insertion diameter 50–79 mm | Recommended filter Line strainer with a mesh size of 0.3 mm/50 mesh | Recommended operating pressure 3 bar |
| Rotation monitoring Sensor-compatible, information: see pages 100–101 | Maintainable | Adapter 3/8 BSPP, 1/2 BSPP, 3/4 BSPP and 1 BSPP are compatible with HygienicFit | |

Max. tank diameter
 The specified maximum tank diameter applies to the recommended operating pressure and is indicative only. The type of soiling is also decisive for the cleaning result.

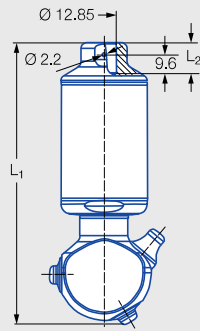


Overview of maximum tank diameter depending on pressure

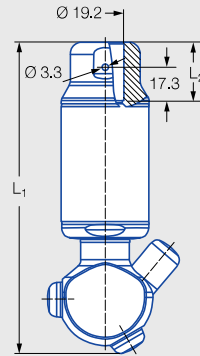
Dimensions in mm.



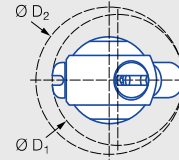
Female thread



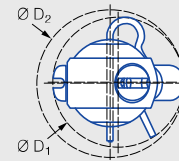
Dimensions of 1/2" slip-on connection according to ASME-BPE (OD tube)



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



Insertion diameter D_1 and interference circle diameter D_2 of the threaded connection



Insertion diameter D_1 and interference circle diameter D_2 of the slip-on connection

| EPDM O-rings | FKM O-rings | Connection | Dimensions [mm] | | | |
|--------------|-------------|-------------------------|-----------------|-------|--------------------------|------------------------------------|
| | | | L_1 | L_2 | Insertion diameter D_1 | Interference circle diameter D_2 |
| AF | 20 | 3/8 BSPP | 141.0 | 9.0 | 50.0–66.0 | 50.0–67.0 |
| AH | 21 | 1/2 BSPP | 143.0 | 13.0 | 50.0–74.0 | 50.0–76.0 |
| AL | 22 | 3/4 BSPP | 143.0 | 13.2 | 50.0–79.0 | 50.0–81.0 |
| AN | 23 | 1 BSPP | 140.0 | 16.5 | 51.0–79.0 | 53.0–80.0 |
| TF05 | 30 | 1/2" slip-on connection | 150.0 | 16.0 | 52.0–66.0 | 50.0–67.0 |
| TF07 | 31 | 3/4" slip-on connection | 160.0 | 30.0 | 66.0–79.0 | 50.0–81.0 |

| Spray angle | Ordering no. | | | | | | | | | | | | | Narrowest cross-section \varnothing [mm] | \dot{V} water [l/min] | | | | \dot{V} water at 3 bar [m ³ /h] | Max. tank diameter [m] | | | | | |
|-------------|----------------|---------------|-------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------------------|-----|--|-------------------------|-----------|------|-----|--|------------------------|------------|------|-----|-----|-----|
| | Type | Mat. no. | | Connection | | | | | | | | p [bar] ($p_{max} = 15$ bar) | | | | | | | | | | | | | |
| | | 1Y | 21 | 3/8 BSPP | | 1/2 BSPP | | 3/4 BSPP | | 1 BSPP | | 1/2" slip-on connection | | | 3/4" slip-on connection | | 2.0 | 3.0 | | | 5.0 | 10.0 | | | |
| | | 1.4404 (316L) | 2.4602 (Alloy 22) | EPDM | FKM | EPDM | FKM | EPDM | FKM | EPDM | FKM | EPDM | FKM | | EPDM | FKM | EPDM | FKM | | | | | | | |
| 180° | 5S6.963 | ● | ● | AF | 20 | AH | 21 | | | | | | | TF05 | 30 | | | 1.7 | 25 | 31 | 40 | 57 | 1.9 | 3.5 | |
| | 5S7.043 | ● | ● | | | AH | 21 | | | | | | | | TF07 | 31 | | | 2.0 | 41 | 50 | 65 | 92 | 3.0 | 4.0 |
| | 5S7.113 | ● | ● | | | AH | 21 | AL | 22 | | | | | | TF07 | 31 | | | 2.0 | 60 | 73 | 94 | 133 | 4.4 | 6.0 |
| | 5S7.183 | ● | ● | | | | | AL | 22 | | | | | | TF07 | 31 | | | 2.0 | 89 | 109 | 141 | 199 | 6.5 | 7.0 |
| | 5S7.223 | ● | ● | | | | | AL | 22 | | | | | | TF07 | 31 | | | 2.0 | 111 | 136 | 175 | 248 | 8.2 | 7.5 |
| | 5S7.253 | ● | ● | | | | | AL | 22 | AN | 23 | | | | TF07 | 31 | | | 2.0 | 135 | 165 | 213 | 301 | 9.9 | 8.0 |
| 180° | 5S6.964 | ● | ● | AF | 20 | AH | 21 | | | | | | | TF05 | 30 | | | 1.7 | 25 | 31 | 40 | 57 | 1.9 | 3.5 | |
| | 5S7.044 | ● | ● | | | AH | 21 | | | | | | | | TF07 | 31 | | | 2.0 | 41 | 50 | 65 | 92 | 3.0 | 4.0 |
| | 5S7.114 | ● | ● | | | AH | 21 | AL | 22 | | | | | | TF07 | 31 | | | 2.0 | 60 | 73 | 94 | 133 | 4.4 | 6.0 |
| | 5S7.184 | ● | ● | | | | | AL | 22 | | | | | | TF07 | 31 | | | 2.0 | 89 | 109 | 141 | 199 | 6.5 | 7.0 |
| | 5S7.224 | ● | ● | | | | | AL | 22 | | | | | | TF07 | 31 | | | 2.0 | 111 | 136 | 175 | 248 | 8.2 | 7.5 |
| | 5S7.254 | ● | ● | | | | | AL | 22 | AN | 23 | | | | TF07 | 31 | | | 2.0 | 135 | 165 | 213 | 301 | 9.9 | 8.0 |





| Spray angle | Ordering no. | | | | | | | | | | | | | | Narrowest cross-section Ø [mm] | V̇ water [l/min] | | | | V̇ water at 3 bar [m³/h] | Max. tank diameter [m] | | | | |
|-------------|--------------|---------------|-------------------|------------|-----|----------|-----|----------|-----|--------|-----|-------------------------|-----|-------------------------|--------------------------------|-------------------------------------|------|-----|------|--------------------------|------------------------|-----|-----|-----|-----|
| | Type | Mat. no. | | Connection | | | | | | | | | | | | p [bar] (p _{max} = 15 bar) | | | | | | | | | |
| | | 1Y | 21 | 3/8 BSPP | | 1/2 BSPP | | 3/4 BSPP | | 1 BSPP | | 1/2" slip-on connection | | 3/4" slip-on connection | | 2.0 | 3.0 | 5.0 | 10.0 | | | | | | |
| | | 1.4404 (316L) | 2.4602 (Alloy 22) | EPDM | FKM | EPDM | FKM | EPDM | FKM | EPDM | FKM | EPDM | FKM | EPDM | | FKM | EPDM | FKM | EPDM | | | FKM | | | |
| 270° | 5S6.965 | ● | ● | AF | 20 | AH | 21 | | | | | | | TF05 | 30 | | | 1.7 | 25 | 31 | 40 | 57 | 1.9 | 3.5 | |
| | 5S7.045 | ● | ● | | | AH | 21 | | | | | | | | | | TF07 | 31 | 2.0 | 41 | 50 | 65 | 92 | 3.0 | 4.0 |
| | 5S7.115 | ● | ● | | | AH | 21 | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 60 | 73 | 94 | 133 | 4.4 | 6.0 |
| | 5S7.185 | ● | ● | | | | | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 89 | 109 | 141 | 199 | 6.5 | 7.0 |
| | 5S7.225 | ● | ● | | | | | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 111 | 136 | 175 | 248 | 8.2 | 7.5 |
| | 5S7.255 | ● | ● | | | | | AL | 22 | AN | 23 | | | | | | TF07 | 31 | 2.0 | 135 | 165 | 213 | 301 | 9.9 | 8.0 |
| 270° | 5S6.966 | ● | ● | AF | 20 | AH | 21 | | | | | | | TF05 | 30 | | | 1.7 | 25 | 31 | 40 | 57 | 1.9 | 3.5 | |
| | 5S7.046 | ● | ● | | | AH | 21 | | | | | | | | | | TF07 | 31 | 2.0 | 41 | 50 | 65 | 92 | 3.0 | 4.0 |
| | 5S7.116 | ● | ● | | | AH | 21 | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 60 | 73 | 94 | 133 | 4.4 | 6.0 |
| | 5S7.186 | ● | ● | | | | | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 89 | 109 | 141 | 199 | 6.5 | 7.0 |
| | 5S7.226 | ● | ● | | | | | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 111 | 136 | 175 | 248 | 8.2 | 7.5 |
| | 5S7.256 | ● | ● | | | | | AL | 22 | AN | 23 | | | | | | TF07 | 31 | 2.0 | 135 | 165 | 213 | 301 | 9.9 | 8.0 |
| 360° | 5S6.969 | ● | ● | AF | 20 | AH | 21 | | | | | | | TF05 | 30 | | | 1.5 | 25 | 31 | 40 | 57 | 1.9 | 3.5 | |
| | 5S7.049 | ● | ● | | | AH | 21 | | | | | | | | | | TF07 | 31 | 2.0 | 41 | 50 | 65 | 92 | 3.0 | 4.0 |
| | 5S7.119 | ● | ● | | | AH | 21 | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 60 | 73 | 94 | 133 | 4.4 | 6.0 |
| | 5S7.189 | ● | ● | | | | | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 89 | 109 | 141 | 199 | 6.5 | 7.0 |
| | 5S7.229 | ● | ● | | | | | AL | 22 | | | | | | | | TF07 | 31 | 2.0 | 111 | 136 | 175 | 248 | 8.2 | 7.5 |
| | 5S7.259 | ● | ● | | | | | AL | 22 | AN | 23 | | | | | | TF07 | 31 | 2.0 | 135 | 165 | 213 | 301 | 9.9 | 8.0 |

NPT threads on request.

Information on operation

Compressed air can be used only for a short time for blowing dry. Use above the recommended pressure will have a negative effect on the cleaning result and wear.

Information on slip-on connection

- Cotter pin made of stainless steel 1.4404 (316L) included (ordering no. 095.022.1Y.50.60.E (TF07), 095.013.1E.05.59 (TF05)). For version made of 2.4602 (Alloy 22), bolt with head incl. cotter pin included (ordering no. 05M.332.21.00.00).
- Depending on the adapter diameter, the flow rate may increase due to the leakage between the adapter and rotating cleaning nozzle.

Ordering example with FDA and (EC) 1935/2004 conformity.

All materials are suitable for contact with food.



Type + Connection = Ordering no.
5S6.965.1Y + AF = 5S6.965.1Y.AF

Ordering example with ATEX approval, 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...T190 °C Da

Important

The code for the connection changes for the ATEX version with slip-on connection.
Ordering example for 1/2" slip-on connection: 5S6.963.1Y.T1.EX
Ordering example for 3/4" slip-on connection: 5S7.043.1Y.T2.EX



Type + Connection + ATEX = Ordering no.
5S6.965.1Y + AF + EX = 5S6.965.1Y.AF.EX