

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, FKM or FFKM



Weight
 650–900 g



Surface quality
 $Ra \leq 0.8 \mu m$



Surface quality
 $Ra \leq 1.6 \mu m$



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 108-109



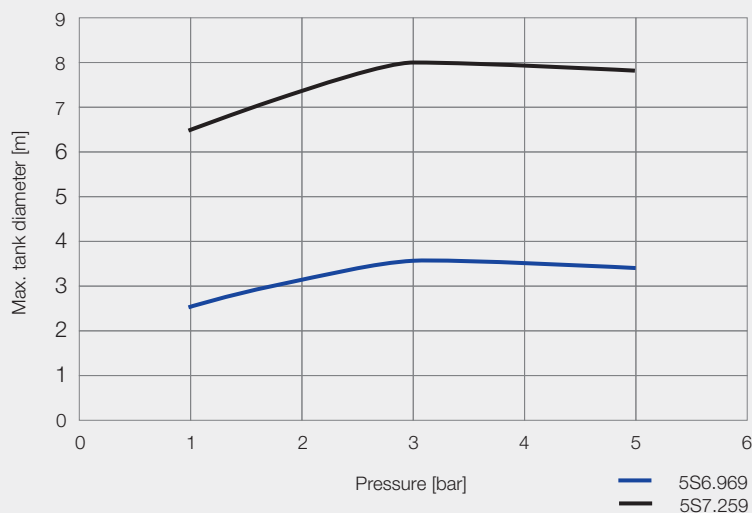
Maintainable



Adapter
 3/8 BSPP, 1/2 BSPP, 3/4 BSPP and 1 BSPP are compatible with HygienicFit

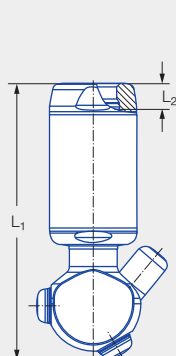


Max. tank diameter
 The specified maximum tank diameter applies to the recommended operating pressure and is indicative only. The type of soiling is also decisive for the cleaning result.

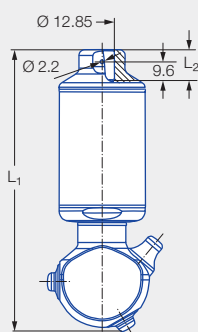
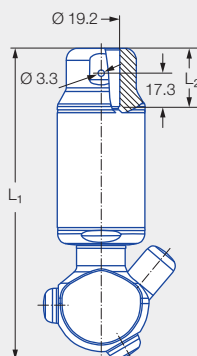
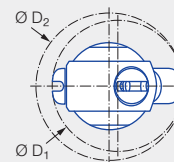
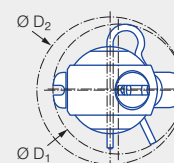


Overview of maximum tank diameter depending on pressure

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

O-rings			Connection	Dimensions [mm]			
EPDM	FKM	FFKM		L ₁	L ₂	Insertion diameter D ₁	Interference circle diameter D ₂
AF	20	50	3/8 BSPP	141.0	9.0	50.0–66.0	50.0–67.0
AH	21	51	1/2 BSPP	143.0	13.0	50.0–74.0	50.0–76.0
AL	22	52	3/4 BSPP	143.0	13.2	50.0–79.0	50.0–81.0
AN	23	53	1 BSPP	140.0	16.5	51.0–79.0	53.0–80.0
TF05	30	60	1/2" slip-on connection	150.0	16.0	52.0–66.0	50.0–67.0
TF07	31	61	3/4" slip-on connection	160.0	30.0	66.0–79.0	50.0–81.0

Spray angle	Ordering no.																				Narrowest cross-section Ø [mm]	V̇ water [l/min]				V̇ water	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			at 3 bar [m³/h]								
		1.4404 (316L)	2.4602 (Alloy 22)	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM			FFKM							
																					2.0	3.0	5.0	10.0						
	180°	5S6.963	●	●	AF	20	50	AH	21	51							TF05	30	60			1.7	25	31	40	57	1.9	3.5		
		5S7.043	●	●				AH	21	51											TF07	31	62	2.0	41	50	65	92	3.0	4.0
		5S7.113	●	●				AH	21	51	AL	22	52								TF07	31	62	2.0	60	73	94	133	4.4	6.0
		5S7.183	●	●							AL	22	52								TF07	31	62	2.0	89	109	141	199	6.5	7.0
		5S7.223	●	●							AL	22	52								TF07	31	62	2.0	111	136	175	248	8.2	7.5
		5S7.253	●	●							AL	22	52	AN	23	53					TF07	31	62	2.0	135	165	213	301	9.9	8.0
	180°	5S6.964	●	●	AF	20	50	AH	21	51							TF05	30	61			1.7	25	31	40	57	1.9	3.5		
		5S7.044	●	●				AH	21	51											TF07	31	62	2.0	41	50	65	92	3.0	4.0
		5S7.114	●	●				AH	21	51	AL	22	52								TF07	31	62	2.0	60	73	94	133	4.4	6.0
		5S7.184	●	●							AL	22	52								TF07	31	62	2.0	89	109	141	199	6.5	7.0
		5S7.224	●	●							AL	22	52								TF07	31	62	2.0	111	136	175	248	8.2	7.5
		5S7.254	●	●							AL	22	52	AN	23	53					TF07	31	62	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										
		1.4404 (316L)	2.4602 (Alloy 22)	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM	FKM	FFKM	EPDM		FKM	FFKM	2.0	3.0	5.0		10.0		
	270°	5S6.965	●	●	AF	20	50	AH	21	51							TF05	30	61				1.7	25	31	40	57	1.9	3.5
	5S7.045	●	●					AH	21	51										TF07	31	62	2.0	41	50	65	92	3.0	4.0
	5S7.115	●	●					AH	21	51	AL	22	52							TF07	31	62	2.0	60	73	94	133	4.4	6.0
	5S7.185	●	●								AL	22	52							TF07	31	62	2.0	89	109	141	199	6.5	7.0
	5S7.225	●	●								AL	22	52							TF07	31	62	2.0	111	136	175	248	8.2	7.5
	5S7.255	●	●								AL	22	52	AN	23	53				TF07	31	62	2.0	135	165	213	301	9.9	8.0
	270°	5S6.966	●	●	AF	20	50	AH	21	51							TF05	30	61				1.7	25	31	40	57	1.9	3.5
	5S7.046	●	●					AH	21	51										TF07	31	62	2.0	41	50	65	92	3.0	4.0
	5S7.116	●	●					AH	21	51	AL	22	52							TF07	31	62	2.0	60	73	94	133	4.4	6.0
	5S7.186	●	●								AL	22	52							TF07	31	62	2.0	89	109	141	199	6.5	7.0
	5S7.226	●	●								AL	22	52							TF07	31	62	2.0	111	136	175	248	8.2	7.5
	5S7.256	●	●								AL	22	52	AN	23	53				TF07	31	62	2.0	135	165	213	301	9.9	8.0
	360°	5S6.969	●	●	AF	20	50	AH	21	51							TF05	30	61				1.5	25	31	40	57	1.9	3.5
	5S7.049	●	●					AH	21	51										TF07	31	62	2.0	41	50	65	92	3.0	4.0
	5S7.119	●	●					AH	21	51	AL	22	52							TF07	31	62	2.0	60	73	94	133	4.4	6.0
	5S7.189	●	●								AL	22	52							TF07	31	62	2.0	89	109	141	199	6.5	7.0
	5S7.229	●	●								AL	22	52							TF07	31	62	2.0	111	136	175	248	8.2	7.5
	5S7.259	●	●								AL	22	52	AN	23	53				TF07	31	62	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

