

LÜDECKE


Since 1930. The perfect connection.



**Clean
Connect**
by **LÜDECKE**

**Coupling Systems and Fittings for
Cleaning and Compressed Air Applications
in the Food Industry**



LÜDECKE MADE IN GERMANY 



Innovative coupling systems and fittings for cleaning applications in the food industry



For food processors, hygiene has first priority. Therefore, working surfaces, machines and premises need to be cleaned very often.

The used devices must meet high requirements due to rough operating conditions, cleaning agents and the strict hygiene guidelines.

LUDECKE offers a high quality system adapted to these special requirements. It consists of different fittings (screwing/quick connect coupling system*) which will be especially adapted to the hoses used for cleaning applications.

**Clean
Connect**
by **LUDECKE**

Easy & Efficient

- Ergonomic design for an optimum ease of use
- Easy handling
- High flow rate due to maximum bore

Safe

- Extremely robust, secure and reliable
- High sealing characteristic and durable (ensures high operation times)
- Permanent and leakage-free hose assembly
- No risk of injury due to unsuitable assembly

Hygienic

- Completely made of stainless steel
- High corrosion resistance
- Hygienic smooth surfaces as well as free and clean passage to prevent dirt accumulation
- O-rings which are especially approved for the food industry (VO 1935/2004)

*this hose unit has been developed together with Altmann Industrietechnik



Fittings for preliminary cleaning

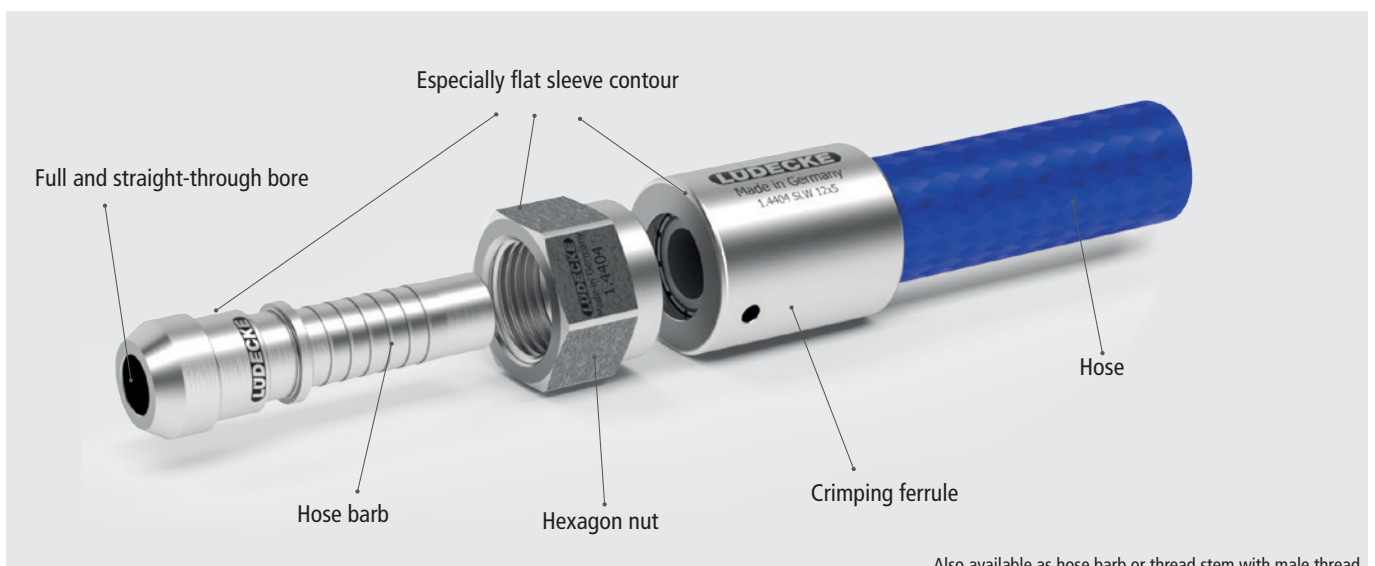


The **LUDECKE** CleanConnect fitting is outstandingly suitable for the use of cleaning agents and high water pressure. It's a high quality and robust fitting for a safe hose assembly.

- High quality hose fitting made of stainless steel 1.4404
- Permanent assembly by hose crimping or re-usable hose squeeze nut
- Full and straight-through passage
- For applications with aggressive cleaning agents (e.g. for the preliminary cleaning)
- For a working pressure of 40 bar as well as operating temperatures up to 150°C

Quality in every component

We recommend for the hose fitting a suitable hose, which meets the high requirements of the food industry. To offer you a perfect solution (subject to application) we advise a conversation with our competent sales and technical team.



Also available as hose barb or thread stem with male thread



Flexible quick connect coupling system for rinsing with water

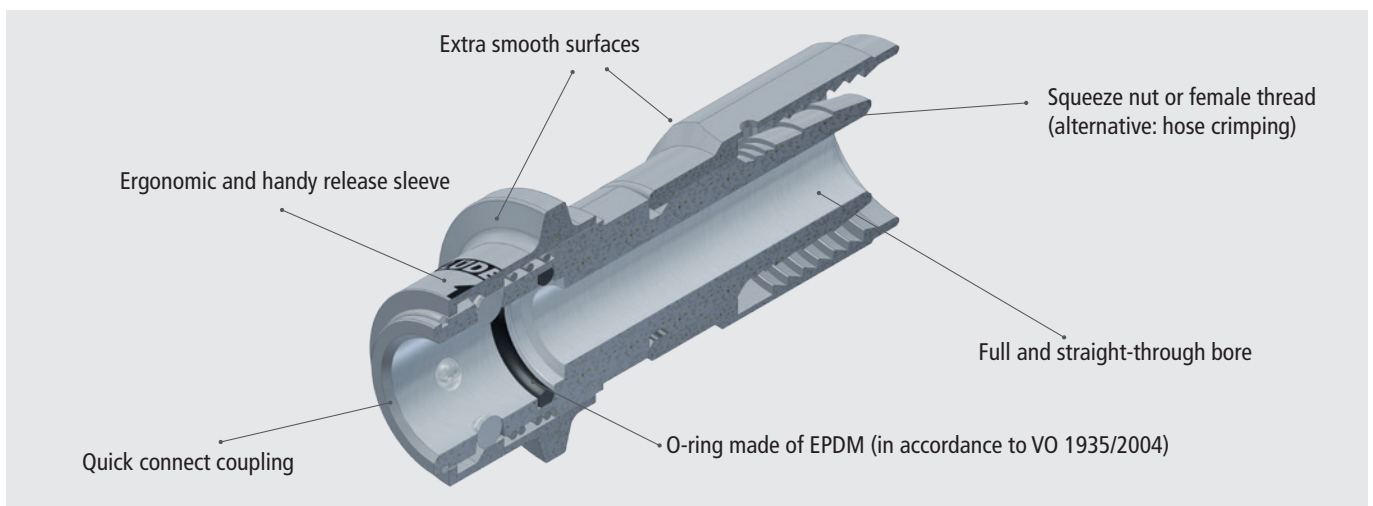


The **LUDECKE** CleanConnect quick connect coupling system is used for applications which require high flexibility (e.g. for rinsing with water). The quick connect coupling contains o-rings which are especially approved for the food industry (VO 1935/2004) and is so designed that it still remains handy when the surface is wet or when wearing heavy gloves.

- High quality quick connect coupling system of stainless steel 1.4404
- Different connection types (re-usable squeeze nut, permanent hose crimping, female and male threads)
- Full and straight-through bore
- Fast and easy coupling or decoupling
- O-rings in accordance to VO 1935/2004
- For an operating pressure up to 40 bar (subject to temperature and assembly) and operating temperatures up to 140°C

First-class materials

We recommend for the quick connect coupling system, a suitable hose, which meets the high requirements of the food industry. To offer you a perfect solution (subject to application) we advise a conversation with our competent sales and technical team.





Simple - Hygienic - Fast



The CleanConnect quick connect coupling is characterized by an especially easy coupling process.

Connect (two-hand operation):

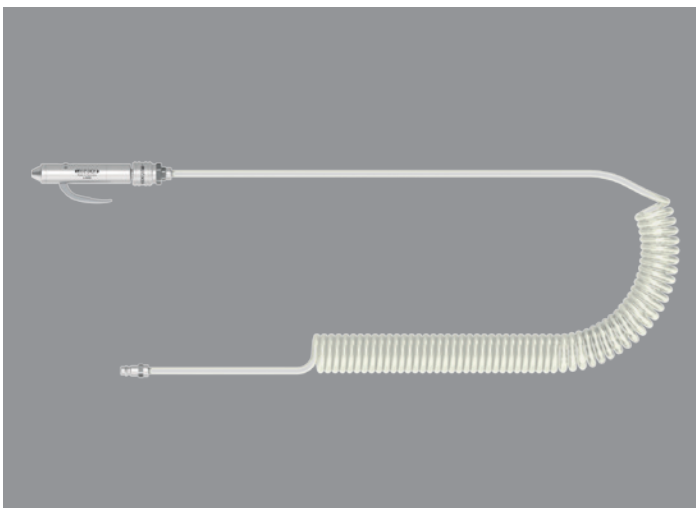
To connect, push the locking sleeve in direction of the hose connection. Press the plug coaxially up to the stop in the coupling. Afterwards the locking sleeve can be released - it locks automatically without support in direction of the plug.

Disconnect:

To disconnect, grasp the plug firmly with one hand. With the other hand push the locking sleeve in direction of the hose connection and separate the connection. The plug can be pulled out of the coupling. The locking sleeve slips automatically back to the starting position.



Compressed air range for the food industry



Along with the fittings and quick connect coupling systems, **LUDECKE** also offers components for compressed air applications in the food industry:

- Compressed air blow-off gun with a DN 7.2 connecting plug made of stainless steel 1.4305
- Spiraled hose with food approval for use with
→ Quick connect coupling and plug DN 7.2 made of stainless steel 1.4305

NEW!

Fittings for Cleaning Applications of Stainless Steel 1.4404



- High-quality hose fitting of stainless steel 1.4404
- Hose fitting for hose crimping consisting of: hose barb with 60° sealing cone and hexagon nut or hose barb with male thread and 60° sealing cone and crimping ferrule
- High pressure and temperature capabilities, absolutely tight and durable
- Hygienic smooth surfaces as well as free and clean passage to prevent dirt accumulation
- For cleaning applications in the food industry (e.g. for application with aggressive cleaning agents), etc.

Materials

- Hose barb, hexagon nut, crimping ferrule, thread stems, double nipple: stainless steel 1.4404



Max.Working Pressure	Temperature	Thread	Medium	
PN 40 bar**	up to +150°C	ISO 228	Water with cleaning agents / steam	5

Hose barbs with 60° sealing cone and hexagon nut for hose crimping

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/2 f	Hose i.D. 13	42	27	12	34	9.5	67	STE 1213 PH-...*
G 3/4 f	Hose i.D. 19	69.5	32	16	34	14.5	142	STE 3419 PH-...*

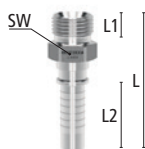
Hose connection with crimping ferrule type PHE (☺ page 6)



Hose barbs with male thread and 60° sealing cone according to ISO 8434-6 for hose crimping

Thread connection	Hose connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/2 m	Hose i.D. 13	63.5	22	14	34	9.5	57	TAE 1213 PH-...*
G 3/4 m	Hose i.D. 19	66.5	27	16	34	14.5	117	TAE 3419 PH-...*

Hose connection with crimping ferrule type PHE (☺ page 6)



Crimping ferrules (hydraulic crimping)

L	D	D1	Weight	Type No.
37	30	23	61	PHE-13-...*
37	36	29	75	PHE-19-...*



Thread stems with male thread and 60° sealing cone according to ISO 8434-6 and squeeze nut

Thread connection	Hose connection	L	SW	L1	L2	SW1	Bore	Weight	Type No.
G 1/2 m	Hose i.D. 13	71	22	25	14	27	10	168	TAE 1213 TQ-...*
G 3/4 m	Hose i.D. 19	73.5	27	25	16	32	13	245	TAE 3419 TQ-...*



Double Nipples with male threads on both sides

Thread connection	L	SW	L1	L2	Bore	Weight	Type No.
G 1/2 m - G 1/2 m	36	22	14	14	13	56	D 12 E
G 3/4 m - G 3/4 m	40	27	16	16	13	114	D 34 E
G 3/4 m - G 1/2 m	38	27	16	12	13	92	D 3412 E



*the exact article number can be determined upon selection of hose to be used and consulting our sales team

**subject to temperature, assembly and hose

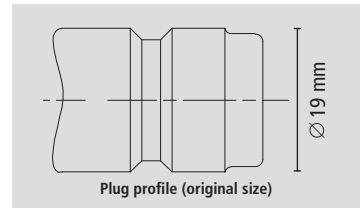
Quick Connect Couplings for Cleaning Applications of Stainless Steel 1.4404 Series ESLGE

- High-quality quick connect couplings of stainless steel 1.4404
- Easy to couple, high-pressure and temperature capabilities, absolutely tight and durable
- Hygienic smooth surfaces as well as free and clean passage to prevent dirt accumulation
- O-rings which are especially approved for the food sector (VO 1935/2004) and for the drinking water sector (according to elastomer guide line, DVGW W 270, DVGW W 534)
- Different connection types (squeeze nut, hose crimping or female thread)
- **For cleaning applications in the food industry, etc.**

Materials

- Connections, sleeve, plug, crimping ferrule: stainless steel 1.4404
- Springs, retaining rings: stainless steel 1.4571
- Balls: stainless steel 1.4401
- O-rings: EPDM (others on request)

DN 13



Max. Working Pressure	Temperature	DN	Thread	Type of valve	Operation	Medium	
PN 40 bar**	up to +140°C	13	ISO 228	straight-through	Two-Hand	Water with cleaning agents / steam	5

Couplings with squeeze nut

Hose connection	L	SW	D	L1	SW1	Bore	Weight	Type No.
Hose i.D. 13	93.5	24	43	25	27	10	303	ESLGE 13 TQ-...*
Hose i.D. 19	92	27	43	25	32	13	345	ESLGE 19 TQ-...*

Couplings for hose crimping

Hose connection	L	D	L1	Bore	Weight	Type No.
Hose i.D. 13	79	43	34	9.5	187	ESLGE 13 TPH-...*
Hose i.D. 19	79	43	34	13	225	ESLGE 19 TPH-...*

Hose connection with crimping ferrule type PHE (☉ page 6)

Couplings with female thread

Thread connection	L	SW	D	L1	Weight	Type No.
G 1/2 f	50	27	43	10	200	ESLGE 12 I
G 3/4 f	53	32	43	10	220	ESLGE 34 I

Plugs with female thread

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 f	42	27	10	27	19	72	ESLGE 12 NI
G 3/4 f	42.5	32	10	27	19	86	ESLGE 34 NI

Plugs with male thread and 60° sealing cone according to ISO 8434-6

Thread connection	L	SW	L1	L2	DS	Weight	Type No.
G 1/2 m	49	22	14	27	19	66	ESLGE 12 NA
G 3/4 m	51	27	16	27	19	101	ESLGE 34 NA

Plugs with squeeze nut

Hose connection	L	SW	L1	L2	DS	SW1	Weight	Type No.
Hose i.D. 13	84	22	25	27	19	27	173	ESLGE 13 SQ-...*
Hose i.D. 19	84.5	27	25	27	19	32	232	ESLGE 19 SQ-...*

Plugs for ferrule crimping

Hose connection	L	D	L1	DS	Bore	Weight	Type No.
Hose i.D. 13	70.5	22	34	19	9.5	53	ESLGE 13 SPH-...*
Hose i.D. 19	70.5	22	34	19	13	92	ESLGE 19 SPH-...*

Hose connection with crimping ferrule type PHE (☉ page 6)

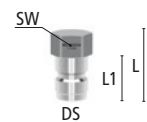
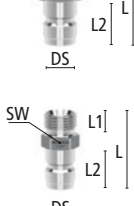
Cap plug

L	SW	L1	DS	Weight	Type No.
40	22	27	19	100	ESLGE-V

*the exact article number can be determined upon selection of hose to be used and consulting our sales team

**subject to temperature, assembly and hose

Clean Connect
by LUDECKE

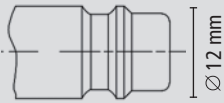


NEW!

Quick Connect Couplings

Series ESE of Stainless Steel 1.4305

DN7.2

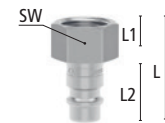
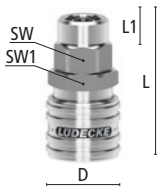


Plug profile (original size)

- Standard one-hand quick connect couplings of stainless steel 1.4305 (in stainless steel 1.4404 on request)
- O-rings which are especially approved for the food industry (VO 1935/2004)
- For use of compressed air at demanding pureness and hygiene regulations or for applications with most different media (gases, chemicals, lacquers, pharmaceuticals)
- Numerous application sectors for pharmacy, chemistry, medical engineering, food industry, clean rooms, high-grade pneumatic applications
- Maximum operation temperature subject to medium used

Materials

- Connections, sleeve, valve body, valve, pins, plug: stainless steel 1.4305
- Springs, retaining rings: stainless steel 1.4310
- Seals: FKM (EPDM or FFKM on request)



Max. Working Pressure	Temperature	DN	Thread	Flow Capacity	Operation	Type of valve	Medium	Area	⊗
PN 35 bar	-15°C – +200°C	7,2	ISO 228	1150 l/min	One-hand	single shut-off	different	worldwide	coupl. 1/ plug 5

Coupling with squeeze nut

Hose connection	L	SW	D	L1	SW1	Weight	Type No.
Hose 8x12	48	22	27	9.5	17	107	ESEG 812 TQ

Plugs with male thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 m	33	19	9	20	25	ESE 38 NA
G 1/2 m	37	24	12	20	45	ESE 12 NA

Plugs with female thread

Thread connection	L	SW	L1	L2	Weight	Type No.
G 3/8 f	32	19	10	20	25	ESE 38 NI
G 1/2 f	35	24	12	20	36	ESE 12 NI

Plugs with squeeze nut

Thread connection	L	SW	L1	L2	SW1	Weight	Type No.
Hose 8x12	42	17	9.5	20	19	51	ESE 812 SQ

Couplings and plugs also available in other versions (⊗ main catalogue pages 288 -291)

Compressed air Blow-off Valve

of Stainless Steel

- Robust valve for continuous use under extreme conditions
- For cleaning of working places or parts in applications with specific hygienic requirements

Materials

- Blow-off valve: stainless steel 1.4305
- Handle: stainless steel 1.4308



Max. Working Pressure	Temperature	Medium	⊗
PN 12 bar	-40°C – +90°C	compressed air	1

Compressed air Blow-off Valve

Connection	Version	Nozzle bore	L	D	Weight	Type No.
Plug ESE	with Nozzle HE2	2	108	22	277	AHLE ESE

NEW!

MODY-CleanConnect-Spiral Hoses of Polyurethane

with straight ends for the food industry and pharmacy

- High-abrasion, pressure and wear resistance as well as extreme and constant recoil of the spirals
- Perfect elasticity, flexibility, can be driven over, crush-resistant, free of taste and smell
- Resistant to microbes and hydrolysis, oil, gas and chemical resistant, good cold flexibility
- Polyurethane food-safe according to FDA 21 CFR 177.2600 and 178.2010, EU regulation 10/2011 and the newest regulation 2015/174
- Approved according to the EU regulation 1935/2004
- Production process according to GMP EC 2023/2006
- For applications in the pneumatic sector as well as for liquids, gases and abrasive solids
- For applications in the food industry (e.g. food conveying, dry, watery, acidic and fatty foods), pharmaceutical industry (FDA, EU regulation)

Materials

- Hose: polyurethane on polyether based
- Coupling, plug: stainless steel 1.4305

Max. Working Pressure	Temperature	Medium	Colours	Short End	Long End	
PN 12 bar	-40°C – +90°C	different	Transparent	100	500	1

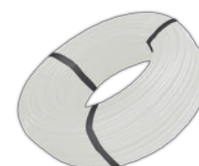
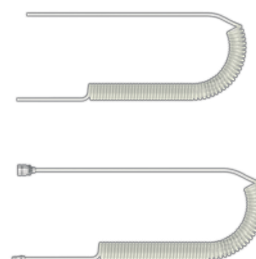
Hose i.D./o.D.	Connection	Max. Working L.		Block Length		Weight	
		Hose Length		Outer Spiral	∅	Type. Nr.	
8/12	without	3000	4700	240	75	345	PUL 8123
8/12	without	6000	7600	400	75	555	PUL 8126
8/12	without	8000	9700	540	75	710	PUL 8128
8/12	ESE-coupling + plug	3000	4700	240	75	505	PUL 8123 ESE
8/12	ESE-coupling + plug	6000	7600	400	75	715	PUL 8126 ESE
8/12	ESE-coupling + plug	8000	9700	540	75	870	PUL 8128 ESE

MODY-CleanConnect-Hose of Polyurethane, non-spiraled (minimum quantity 10m)

Hose i.D./o.D.	Weight g/m	Type. Nr.
8/12	80	PUL 812

Food-Safe

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