

# Chemical and Industrial Fittings



For applications with aggressive and challenging conditions in the chemical and industrial sector (e.g. chemical and petrochemical industry, construction industry, machine and plant manufacturing, shipbuilding, agriculture, steel industry as well as medical technology) **LUDECKE** offers extremely resistant and robust fittings.

Of course, all products meet the respective standards in order to guarantee the highest level of safety and reliability in this critical area.

#### Advantages:

- High-quality couplings and fittings made of stainless steel 1.4401/1.4305, steel or brass
- Sturdy, reliable, absolutely leakage-proof and durable
- Easy handling
- Maximum bore for maximum flow rate
- Different sizes and connection types

## Broad Range

The **LUDECKE** chemical and industrial fittings provide Kamlok quick couplings and plugs, steam screwings, thread stems as well as the tried and tested SoftFlow material conveying quick connect couplings.



# Kamlok Quick Couplings and Plugs



Kamlok quick couplings are extremely robust couplings to connect large volume hoses to each other or plants. In this asymmetrical coupling system, a male and female part is locked by two handles.

This popular coupling system originates from the USA and is based on the US standard MIL-C 27487. For Europe DIN EN 14420-7 (former DIN 2828) is obligatory.

The main difference is the hose assembly. Couplings according to the MIL standard use clamps whereas couplings according to DIN EN 14420-7 use forged safety clamps.

# Steam Screwings



When working with saturated steam or hot water, **LUDECKE** offers solid and sturdy steam screwings made of steel, stainless steel or brass. The steam screwings are available as female and male thread screwings for safety clamps.

# Thread Stems



The **LUDECKE** female and male thread stems enable direct connection or can be used as adaptors for Kamlok quick couplings, tank truck couplings, etc.

They are available in brass as well as in stainless steel and need to be assembled with aluminium clamps.

# SoftFlow Material Conveying Quick Connect Couplings



The **LUDECKE** SoftFlow material conveying quick connect couplings are a high-quality quick coupling system for pressure and vacuum conveying of bulk material or liquids (e.g. for vacuum-conveying granulate).

Due to their quick coupling principle with ball shut-off and light weight, the couplings are especially easy to handle. The coupling body is made of stainless steel for less abrasion.



# Overview of Chemical and Industrial Fittings

	Kamlok Quick Couplings	Steam Screwings	Thread Stems	SoftFlow Material Conveying Quick Connect Couplings
Series/Nominal diameter:	DIN EN 14 420-7	DIN EN 14 423	DIN EN 14 420-5	DN 41



Materials				
Body:	-	Steel zinc pl. yellow pass., Brass MS 58 plain, Stainless Steel 1.4305	-	Stainless Steel 1.4305
Sleeve:	-	-	-	Aluminium (hard coated)
Coupling body:	Stainless Steel 1.4401 electropolished	-	Stainless Steel 1.4408 electropolished / MS 58 plain	-
Valve body:	-	-	-	Stainless Steel 1.4305
Clamp:	-	Brass MS 58 plain	-	-
Springs, Retaining ring:	-	-	-	Stainless Steel 1.4310
Balls:	-	-	-	Stainless Steel 1.4304
Screwing:	-	Dacro 500 A coated	-	Stainless Steel 1.4301
Seals:	NBR	Frenzelit Novapress Multi II	-	NBR
Special seals for other media on request:	Hypalon, EPDM, FKM	-	-	-
Handle:	Stainless Steel 1.4401 electropolished	-	-	-
Plug:	Stainless Steel 1.4401 electropolished	-	-	Stainless Steel 1.4305
Max. Working Pressure:	PN 16 bar	PN 18 bar	PN 25 bar	PN 10 bar
Temperature:	-40°C – + 95°C	up to +210°C (satur. steam)/ up to +120°C (hot water)	-40°C – + 95°C	-15°C – + 95°C
Thread types:	-	ISO 228/ DIN EN 10226	ISO 228	-
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# Kamlok Quick Couplings and Plugs

DIN EN 14 420-7 made of Stainless Steel 1.4401 electropolished

- High-quality, robust couplings according to DIN EN 14 420-7 (former DIN 2828) made of stainless steel 1.4401 for safety clamps
- Interchangeable with common worldwide used types
- Surface electropolished, couplings always come with handle securing and safety clips
- Hose stem machined
- Seals made of NBR, Hypalon, EPDM and FKM, as well as handles and spare parts
- **Universal coupling for aggressive media (depending on mixture/ concentration) in chemical and petrochemical industry, steel and food industry, medical technology, shipbuilding or agriculture**

## Materials

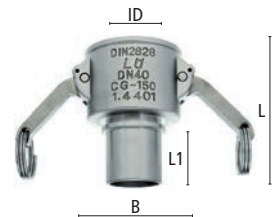
- Female part, male part, handle: Stainless Steel 1.4401 electropolished
- Seals: NBR

Max. Working Pressure	Temperature	Norm	Media	
PN 16 bar	-40°C – +95°C	DIN EN 14 420-7	Different	1

## Couplings with hose stem for safety clamps (DIN EN 14 420-7 Form CC)

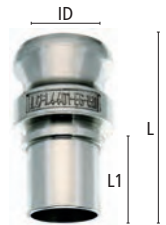
Hose connection	L	B	Type-Size	ID	L1	Passage	DN	Version	Weight	Type No.
Hose 19x6	77	60	75	32.4	35	14.5	20	KSA 30-33	254	75-CG-SS-BU
Hose 25x6	83	66	100	37.3	35	21	25	KSA 36-39	335	100-CG-SS-BU
Hose 32x6	89	77	125	46	35	27.5	32	KSA 43-46	570	125-CG-SS-BU
Hose 38x6.5	91	82	150	54	34.5	33	40	KSA 50-53	653	150-CG-SS-BU
Hose 50x8	103	95	200	63.8	41	45.5	50	KSA 63-67	894	200-CG-SS-BU
Hose 63x8	120	107	250	76.5	53	58.5	65	KSA 78-82	1273	250-CG-SS-BU
Hose 75x8	127	132	300	92.2	57	70	80	KSA 89-93	1645	300-CG-SS-BU

Aluminium clamps (© page 344)



## Plugs with hose stem for safety clamps (DIN EN 14 420-7 Form EC)

Hose connection	L	Type-Size	ID	L1	Passage	DN	Version	Weight	Type No.
Hose 19x6	70	75	32.1	35	15	20	KSA 30-33	120	75-EG-SS
Hose 25x6	78	100	36.7	35	20.5	25	KSA 36-39	190	100-EG-SS
Hose 32x6	84	125	45.5	35	27.5	32	KSA 43-46	323	125-EG-SS
Hose 38x6.5	85	150	53.4	34.5	33	40	KSA 50-53	400	150-EG-SS
Hose 50x8	100	200	63	41	45	50	KSA 63-67	586	200-EG-SS
Hose 63x8	113	250	75.8	53	56.5	65	KSA 78-82	882	250-EG-SS
Hose 75x8	120	300	91.5	57	70	80	KSA 89-93	1122	300-EG-SS



## Current information about standards:

- DIN 2828 is replaced by DIN EN 14 420-7
- New form markings:
  - female part with stem: Form CC
  - female part with female thread: Form DF
  - female part with male thread: Form BF
  - female part with blind cap: Form DC
  - male part with stem: Form EC
  - male part with female thread: Form AF
  - male part with male thread: Form FF
  - male part with sealing plug: Form DP
- The form markings on female and male part are adapted accordingly
- Type approval tests and quality control: all types are checked using test jack connectors and defined test criteria
- Manufacturer should be certified according to DIN EN ISO 9001:2000
- New maximum operating pressure of 16 bar or application limit of used pipes or hose lines

