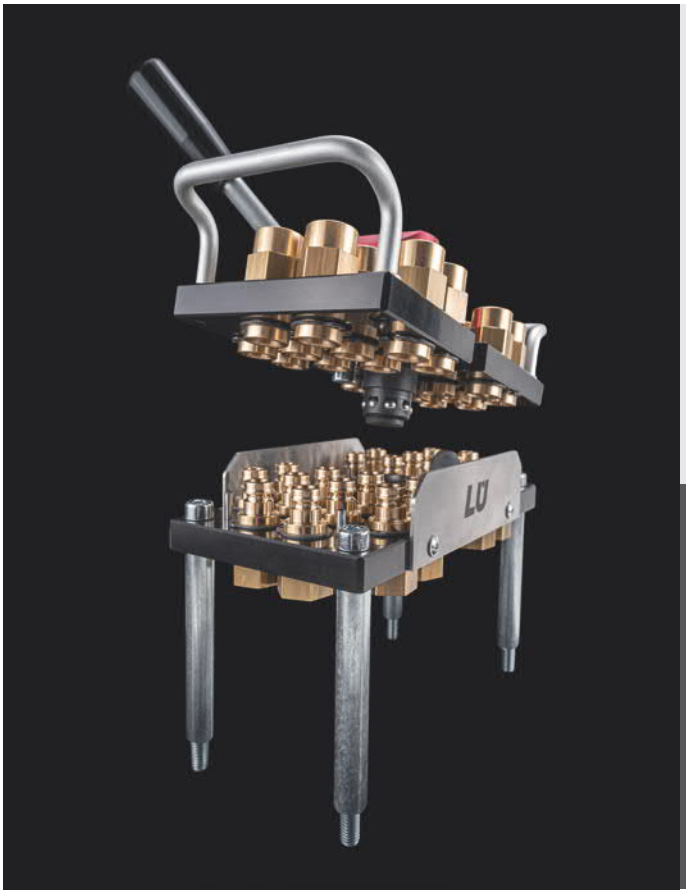
Multi-Coupling System



The **LÜDECKE** multi-coupling system allows you to connect several temperature regulation circuits in one step.

Especially when equipping machines, this provides huge advantages: Now, these tasks can be carried out quickly, easily and accurately. There are no more risks of mixing up important lines.

Thanks to its modular design, every multi-coupling can be put together and configured individually and thus is perfectly tailored to any requirement and application.

Advantages:

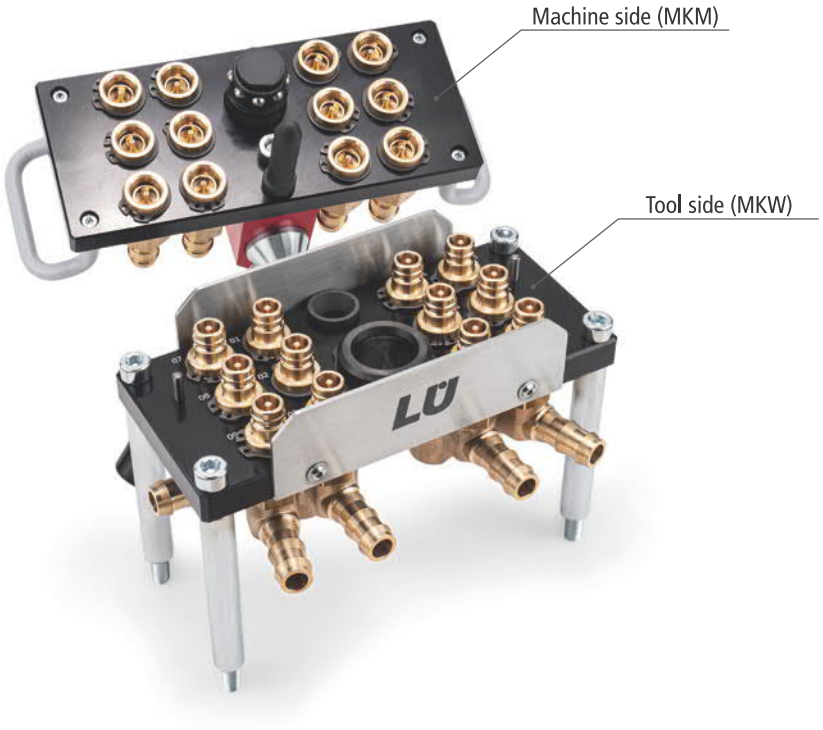
- Quick & simultaneous connection of several temperature regulation lines
- Increased safety and efficiency: no risk of mixing up connections/ hoses
- Reduced equipping time
- Easy operation
- Robust, high-quality, leakage-proof and durable
- Huge flexibility due to modular design
- Different plug profiles, materials and connection types

Broad Range

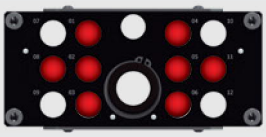
To match the most common plug systems and to guarantee the best compatibility possible, the **LÜDECKE** multi-coupling is available for all standard plug profiles. Moreover, you can choose between a version with 6, 12 or 20 connections.

Construction & Assembly

The multi-coupling system is made up of two parts: the machine side (MKM) with a pre-installed lever system as well as the tool side (MKW).
The holes on both plates are clearly numbered and help to quickly identify the circuits.



Important to note:
Symmetrical set-up of machine side (on top) and tool side (at the bottom).



You mount the couplings on the machine side and the plugs on the tool side. Both sides can be equipped individually – however, you should pay attention that they are arranged symmetrically.

Overview

LÜDECKE offers the multi-couplings with European, international and French plug profile as well as dripless system. The design of the versions always remains identical.

European Plug Profile

Page 4

International Plug Profile

Page 8

French Plug Profile

Page 12

Dripless System

Page 16

Note: It only takes a few easy steps to put together the systems shown.
Should you have any questions, do not hesitate to contact our qualified sales and technical team.

Multi-Coupling System - European Plug Profile

Series MKH Machine Side

DN 9

- Machine side of the two-part multi-coupling system
- Using the lever easily and quickly connects & disconnects the systems
- Can be equipped individually
- For safe and fast production processes
- Also available as high-temperature version on demand
- For temperature regulation applications with hot or cold water as well as tempered oil

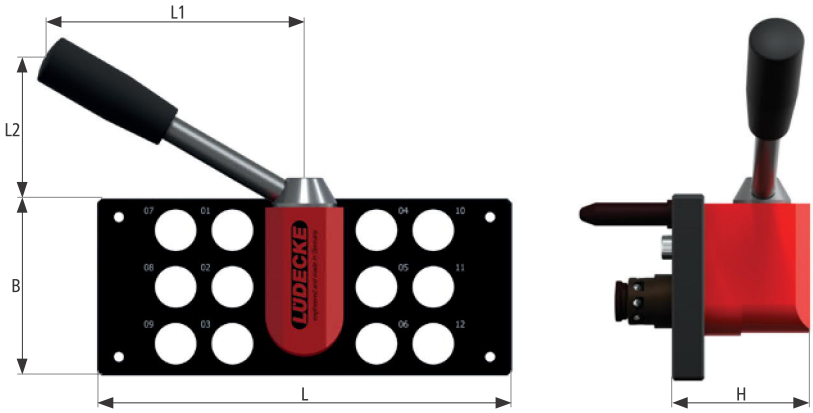
Materials

- Body, valve body, valve: Brass MS 58 plain
- Springs: Stainless Steel 1.4310
- Safety ring: Steel phosphated
- Balls: Stainless steel 1.4034
- Seals: FKM
- Plates, lever case: Aluminium anodized
- Lever including mounting
  - Shaft: Steel zinc-plated
  - Head: Thermoset (PF)
- Handle: Aluminium coated

Max. Working Pressure	Temperature	DN	Thread	Type of valve	Media
PN 15 bar	+5°C – +200°C*	9	ISO 228	Single Shut-off/ Double Shut-off/ Straight-Through	Air/ Water/ Oil/ Vacuum

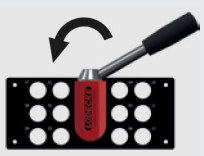
*Subject to media (oil: 200°C, water: 150°C, air: 200°C)

Plates



Plates without products (including handle)							
Connection	L	B	L1	L2	H	Weight	Type No.
6	140	81	118	67	68	1100	MKMH06
12	190	81	118	67	68	1200	MKMH12
20	206	103	118	67	68	1275	MKMH20

Colour range of plate:
The plates can also be ordered in red or blue colour. To do so, simply add the colour code to the item number.
➔ Red = RO, blue = BL (i.e. MKMH12-RO or MKMH12-BL)



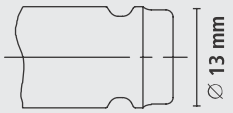
Lever closing to the left:
The lever closes to the right. However, on request the lever is also available as left-hand version. In this case, please add this abbreviation to the item number:
➔ LH (i.e. MKMH12-LH)

Multi-Coupling System - European Plug Profile

Machine Side **Series MKH**

DN 9

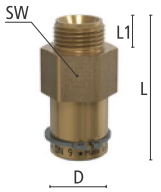
Plug Profile (original size)



Couplings

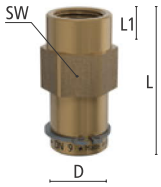
Couplings with male thread (including safety ring)

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
G 3/8 m	45.5	22	19	11	66	MKMH 38 A	MKMH 38 AAB



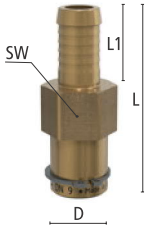
Couplings with female thread (including safety ring)

Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
G 3/8 f	45	22	19	10	67	MKMH 38 I	MKMH 38 IAB



Couplings with hose stem (including safety ring)

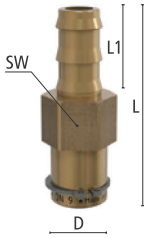
Hose connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 9	58.5	22	19	22.5	64	MKMH 9 TL	MKMH 9 TLAB
Hose i.D. 13	61	22	19	25	75	MKMH 13 TL	MKMH 13 TLAB



Couplings with quick-fit hose stem (including safety ring)

Hose connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 10	64.5	22	19	28	73	MKMH 10 T	MKMH 10 TAB
Hose i.D. 13	64.5	22	19	28	80	MKMH 13 T	MKMH 13 TAB

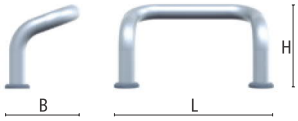
Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!



Accessories

Handle

Version	L	B	H	Weight	Type No.
06/ 12	76	36	40	23	MKM-B64
20	100	36	40	25	MKM-B88



Multi-Coupling System - European Plug Profile

Series MKH Tool Side

DN 9

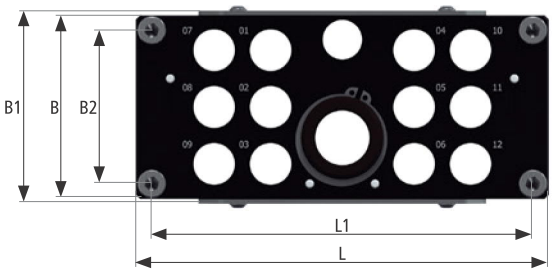
- Tool side of the two-part multi-coupling system
- Using the lever on the machine side easily and quickly connects and disconnects the systems
- Can be equipped individually
- For safe and fast production processes
- Also available as high-temperature version on demand
- For temperature regulation applications with hot or cold water as well as tempered oil

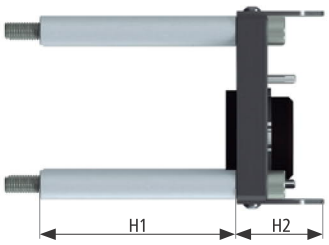
Materials
- Body, valve body, valve, plug: Brass MS 58 plain
- Safety ring: Steel phosphated
- Seals: FKM
- Plates: Aluminium anodized
- Feet: Steel zinc-plated

Max. Working Pressure	Temperature	DN	Thread	Type of valve	Media
PN 15 bar	+5°C – +200°C*	9	ISO 228	Single Shut-off/ Double Shut-off/ Straight-Through	Air/ Water/ Oil/ Vacuum

*Subject to media (oil: 200°C, water: 150°C, air: 200°C)

Plates





Plates without products

Connection	L	B	L1	B1	B2	H1	H2	Weight	Type No.
6	140	84	120	88	70	90	40	1100	**MKWH06**
12	190	84	175	88	70	90	40	1200	**MKWH12**
20	206	104	186	108	84	90	40	1350	**MKWH20**

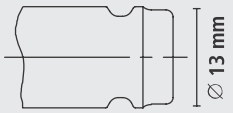
Colour range of plate:
The plates can also be ordered in red or blue colour. To do so, simply add the colour code to the item number.
➔ Red = RO, blue = BL (i.e. MKWH12-RO or MKWH12-BL)

Multi-Coupling System - European Plug Profile

Tool Side **Series MKH**

DN 9

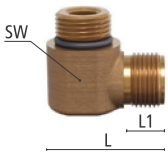
Plug Profile (original size)



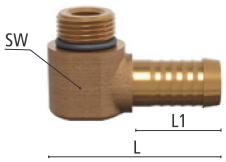
Plugs

Plugs with female thread (including safety ring)							
Thread connection	L	SW	D	L1	Weight	Type No. w/o valve	Type No. w valve
G 3/8 f	45	22	19	10	60	MKWH 38 NI	MKWH 38 NIAB

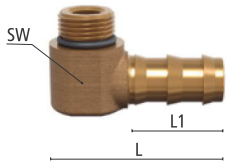
Elbow Connectors



Elbow Connector with male thread (in combination with MKWH 38 NI/AB)					
Thread connection	L	SW	L1	Weight	Type No.
G 3/8 m	35	20	12	77	MKW 38 A90



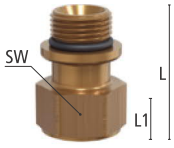
Elbow Connectors with hose stem (in combination with MKWH 38 NI/AB)					
Hose connection	L	SW	L1	Weight	Type No.
Hose i.D. 9	46.5	20	22.5	77	MKW 9 TL90
Hose i.D. 13	49	20	25	80	MKW 13 TL90



Elbow Connectors with quick-fit hose stem (in combination with MKWH 38 NI/AB)					
Hose connection	L	SW	L1	Weight	Type No.
Hose i.D. 10	51	20	28	79	MKW 10 T90
Hose i.D. 13	51	20	28	84	MKW 13 T90

Safety instruction: Only use quick-fit hose stems in combination with suitable quick-fit hoses (up to max. 100°C)!

Adapter



Adapter with female thread					
Thread connection	L	SW	L1	Weight	Type No.
G 3/8 f	33	22	10	55	MKW-V