

# Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDMF**

- Quick connect couplings with small dimensions made of brass MS 58, flat-sealing with two-hand operation
- For temperature regulation applications with hot or cold water as well as tempered oil
- Optional with straight-through, single or double shut-off valves
- Hose couplings available with standard stem profile for standard hoses or quick-fit profile for quick-fit hoses

## Materials

- Body, valve body, valve: Brass MS 58 plain
- Sleeve, plug: Brass MS 58 plain/ nickel-plated
- Springs, retaining ring: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: FKM (flat-sealing)

Max. Working Pressure	Temperature	DN	Thread	Operation	Type of valve	Media	
PN 15 bar	-20°C – +200°C*	6	ISO 228 / DIN 13	Two-hands	Single/double/straight-through	Tempered media	Coupl. 5 / Plug 10

## Couplings with straight standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	51	17	22.5	9.4	5	40	ESDMF 6 TL	ESDMF 6 TLAB
Hose i.D. 9	51	17	22.5	9.4	6	45	ESDMF 9 TL	ESDMF 9 TLAB
Hose i.D. 13	53	17	25	9.4	6	54	ESDMF 13 TL	ESDMF 13 TLAB

## NEW! Couplings with straight quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	57.5	17	28	9.4	5	42	ESDMF 6 T	ESDMF 6 TAB
Hose i.D. 10	57.5	17	28	9.4	7	49	ESDMF 10 T	ESDMF 10 TAB

## Couplings with 45° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	25.5	9.4	5	58	ESDMF 6 TL-45	ESDMF 6 TL-45AB
Hose i.D. 9	41.5	17	25.5	9.4	6	62	ESDMF 9 TL-45	ESDMF 9 TL-45AB

## NEW! Couplings with 45° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	28	9.4	5	62	ESDMF 6 T-45	ESDMF 6 T-45AB
Hose i.D. 10	41.5	17	28	9.4	7	66	ESDMF 10 T-45	ESDMF 10 T-45AB

## Couplings with 90° standard hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	25.5	9.4	5	58	ESDMF 6 TL-90	ESDMF 6 TL-90AB
Hose i.D. 9	41.5	17	25.5	9.4	6	62	ESDMF 9 TL-90	ESDMF 9 TL-90AB

## NEW! Couplings with 90° quick-fit hose stem without/with valve

Hose connection	L	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Hose i.D. 6	41.5	17	28	9.4	5	62	ESDMF 6 T-90	ESDMF 6 T-90AB
Hose i.D. 10	41.5	17	28	9.4	7	66	ESDMF 10 T-90	ESDMF 10 T-90AB

## Marking rings for easy and clear identification of quick-fit hose lines

Version	D	Colour		Weight	Type No.
For Hose i.D. 6	14	blue	50	0.3	AR-BL 6
For Hose i.D. 6	14	red	50	0.3	AR-RO 6
For Hose i.D. 6	14	yellow	50	0.3	AR-GE 6
For Hose i.D. 10	17	blue	50	0.5	AR-BL 10
For Hose i.D. 10	17	red	50	0.5	AR-RO 10
For Hose i.D. 10	17	yellow	50	0.5	AR-GE 10

To put on coupling or plug stem before assembling the quick-fit hose

Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

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

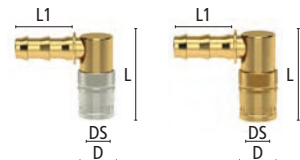
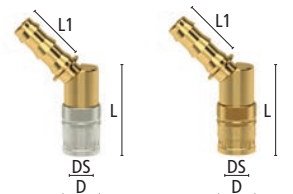
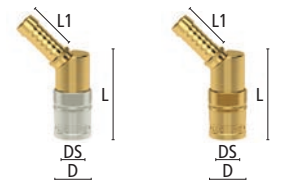
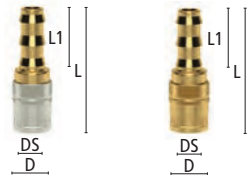
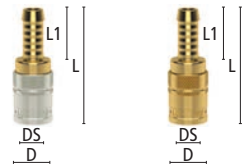
\*subject to media (oil: 200°C, water: 150°C, air: 200°C)

**DN 6**

Plug Profile (original size)



International Plug Profile

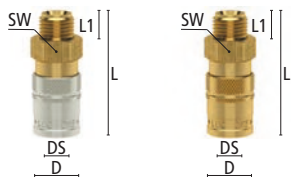
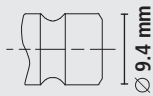


# Temperature Regulation Quick Connect Couplings

**Series ESDMF** Plug size 9.4 mm

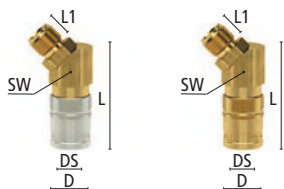
**DN 6**

Plug Profile (original size)



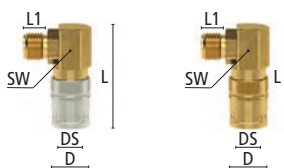
### Couplings with straight male thread without/with valve (inner cone DIN 3863)

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	46	17	17	13	9.4	6	60	ESDMF 14 A	ESDMF 14 AAB
G 3/8 m	46	19	17	13	9.4	6	70	ESDMF 38 A	ESDMF 38 AAB
M 10x1 m	44	17	17	7	9.4	6	60	ESDMF 101 A	ESDMF 101 AAB
M 14x1.5 m	46	17	17	13	9.4	6	60	ESDMF 1415 A	ESDMF 1415 AAB
M 16x1.5 m	46	19	17	13	9.4	6	70	ESDMF 1615 A	ESDMF 1615 AAB



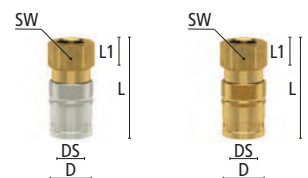
### Couplings with 45° male thread without/with valve (inner cone DIN 3863)

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	65	ESDMF 14 A-45	ESDMF 14 A-45AB
G 3/8 m	45	19	17	9	9.4	6	75	ESDMF 38 A-45	ESDMF 38 A-45AB
M 10x1 m	45	17	17	7	9.4	6	65	ESDMF 101 A-45	ESDMF 101A-45AB
M 14x1.5 m	45	17	17	9	9.4	6	65	ESDMF 1415 A-45	ESDMF1415A-45AB
M 16x1.5 m	45	19	17	9	9.4	6	75	ESDMF 1615 A-45	ESDMF1615A-45AB



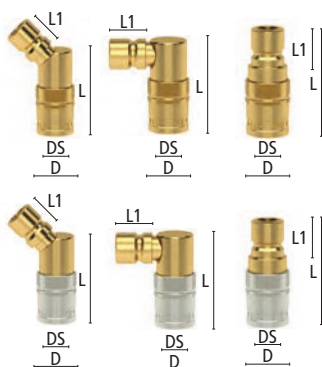
### Couplings with 90° male thread without/with valve (inner cone DIN 3863)

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 m	45	17	17	9	9.4	6	75	ESDMF 14 A-90	ESDMF 14 A-90AB
G 3/8 m	45	19	17	9	9.4	6	85	ESDMF 38 A-90	ESDMF 38 A-90AB
M 10x1 m	45	17	17	7	9.4	6	75	ESDMF 101 A-90	ESDMF 101A-90AB
M 14x1.5 m	45	17	17	9	9.4	6	75	ESDMF 1415 A-90	ESDMF1415A-90AB
M 16x1.5 m	45	19	17	9	9.4	6	85	ESDMF 1615 A-90	ESDMF1615A-90AB



### Couplings with straight female thread without/with valve

Thread Connect.	L	SW	D	L1	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
G 1/4 f	40	17	17	9	9.4	6	50	ESDMF 14 I	ESDMF 14 IAB
G 3/8 f	40	21	17	9	9.4	6	54	ESDMF 38 I	ESDMF 38 IAB
M 10x1 f	40	17	17	9	9.4	6	50	ESDMF 101 I	ESDMF 101 IAB
M 14x1.5 f	40	17	17	9	9.4	6	50	ESDMF 1415 I	ESDMF 1415 IAB



### Couplings with plug DN 6 - ESDMF and ESDMF-ESHM-System Adapters

Connection	L	D	L1	DS	Passage	Version	Weight	Type No. w/o valve	Type No. w valve
DN 6 - DN 9	50.5	17	15.5	9.4	6	straight	75	ESDMFK-ESDS	ESDMFK-ESDS-AB
DN 6 - DN 9	45	17	15.5	9.4	6	45°	80	ESDMFK-ESDS-45	ESDMFK-ESDS45AB
DN 6 - DN 9	45	17	15.5	9.4	6	90°	80	ESDMFK-ESDS-90	ESDMFK-ESDS90AB
DN 6 - DN 6	50	17	14	9.4	6	straight	70	ESDMFK-ESHMS	ESDMFK-ESHMS-AB
DN 6 - DN 9	50	17	14	9.4	6	straight	75	ESDMFK-ESHS	ESDMFK-ESHS-AB

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Plug size 9.4 mm **Series ESDMF**

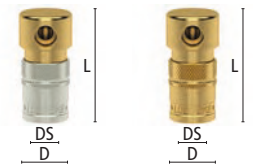
**DN 6**

Plug Profile (original size)



## Diversion coupling for temperature regulation bridges for tube connection 90° with/without valve

Connection	L	D	DS	Passage	Weight	Type No. w/o valve	Type No. w valve
Tube 6/8	42	17	9.4	6	63	ESDMF 8-U	ESDMF 8-UAB



## Tube (chamfered) for diversion couplings (temperature regulation tube), hardened brass

Connection	L	D	Passage	Weight	Type No.
Tube 8/6	250	8	6	45	TR 250-8
Tube 8/6	500	8	6	93	TR 500-8



## Plain End Coupling

Connection	L	D	DS	Weight	Type No.
closed	30	17	9.4	37	ESDMF-B



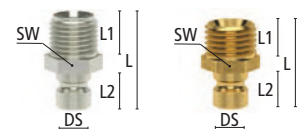
## Plugs with standard hose stem without valve

Hose connection	L	D	L1	L2	DS	Passage	Weight	Type No.
Hose i.D. 6	39.5	12	22.5	10.5	9.4	5	9	ESDM 6 SL
Hose i.D. 9	39.5	12	22.5	10.5	9.4	6	13	ESDM 9 SL
Hose i.D. 13	39.5	15	22.5	10.5	9.4	6	17	ESDM 13 SL



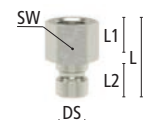
## Plugs with straight male thread without valve (inner cone DIN 3863)

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 m	22	11	8	10.5	9.4	6	10	ESDM 18 NA*
R 1/8 m	25	11	11	10.5	9.4	6	12	ESDM 18 NAR*
G 1/4 m	23	14	9	10.5	9.4	6	14	ESDM 14 NA*
R 1/4 m	26	14	12	10.5	9.4	6	16	ESDM 14 NAR*
G 3/8 m	23.5	17	9	10.5	9.4	6	18	ESDM 38 NA*
M 8x0.75 m	20.5	11	7	10.5	9.4	4.5	9	ESDM 875 NA
M 10x1 m	22	11	7	10.5	9.4	6	8	ESDM 101 NA
M 14x1.5 m	23	14	9	10.5	9.4	6	10	ESDM 1415 NA
M 16x1.5 m	23	17	9	10.5	9.4	6	18	ESDM 1615 NA



## Plugs with straight female thread without valve

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/8 f	22	14	9	10.5	9.4	6	15	ESDM 18 NI*
G 1/4 f	23	17	9	10.5	9.4	6	19	ESDM 14 NI*
G 3/8 f	23	19	10	10.5	9.4	6	25	ESDM 38 NI*



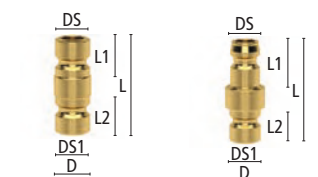
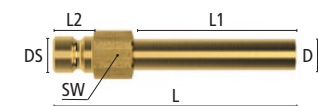
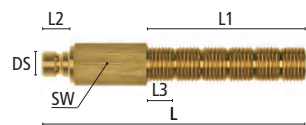
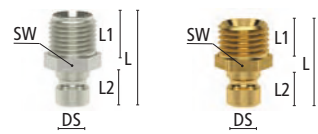
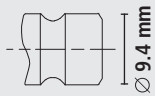
\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

**Series ESDMF** Plug size 9.4 mm

**DN 6**

Plug Profile (original size)



**Plugs with 90° male thread without valve (metrical thread DIN 158/ R-thread DIN EN 10226)**

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
R 1/8 m	27	15	9	10.5	9.4	6	35	ESDM 18 NA-90*
R 1/4 m	29	15	11	10.5	9.4	6	35	ESDM 14 NA-90*
R 3/8 m	30	17	12	10.5	9.4	6	35	ESDM 38 NA-90*
M 8x0.75 m	27	15	9	10.5	9.4	4.5	38	ESDM 875 NA-90
M 10x1 m	27	15	9	10.5	9.4	6	38	ESDM 101 NA-90
M 14x1.5 m	29	15	11	10.5	9.4	6	40	ESDM 1415 NA-90

**Plugs with straight male thread with valve**

Thread connection	L	SW	L1	L2	DS	Passage	Weight	Type No.
G 1/4 m	25.5	14	11	10.5	9.4	6	14	ESDM 14 NAAB*
R 1/4 m	28.5	14	14	10.5	9.4	6	18	ESDM 14 NARAB*
G 3/8 m	26.5	17	11	10.5	9.4	6	22	ESDM 38 NAAB*
M 14x1.5 m	25.5	15	11	10.5	9.4	6	15	ESDM 1415 NAAB

**Plugs with straight male long thread without valve (for length cutting as needed)**

Thread connection	L	SW	L1	L2	L3	DS	Passage	Weight	Type No.
G 1/8 m	100	11	60	10.5	9	9.4	6	36	ESDM 18-60 NA
G 1/4 m	100	14	60	10.5	9	9.4	6	58	ESDM 14-60 NA
G 3/8 m	100	17	60	10.5	9	9.4	6	90	ESDM 38-60 NA
M 10x1 m	100	11	60	10.5	9	9.4	6	36	ESDM 101-60 NA
M 14x1.5 m	100	14	60	10.5	9	9.4	6	61	ESDM 1415-60 NA

**Plug Tubes for countersunk mould threads (for length cutting as needed)**

D	L	SW	L1	L2	DS	Passage	Weight	Type No.
8	63	11	42	10.5	9.4	6	14	ESDM 68 R
8	100	11	79	10.5	9.4	6	20	ESDM 100 R
10	63	11	42	10.5	9.4	6	20	ESDM 63 R10
10	100	11	79	10.5	9.4	6	38	ESDM 100 R10
10	120	11	102	10.5	9.4	6	49	ESDM 120 R
10	240	11	222	10.5	9.4	6	102	ESDM 240 R
10	360	11	342	10.5	9.4	6	154	ESDM 360 R

**Plug System Adapters**

Connection	L	D	L1	L2	DS	DS1	Passage	Weight	Type No.
DN 6 – DN 6	27	10	10.5	10.5	9.4	9.4	6	14	ESDM-ESDM
DN 9 – DN 6	31	14	15.5	10.5	9.4	13.5	6	18	ESD-ESDM
DN 6 – DN 6	31	12	10.5	14	9	9.4	6	14	ESDM-ESHM
DN 6 – DN 9	31	14	10.5	14	13	9.4	6	18	ESDM-ESH

Protection cap (plastic) for plug profile ESDM 100 ESDM-K

\*Plugs with inch thread nickel-plated for simple distinction