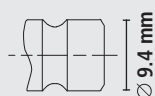


# Temperature Regulation Quick Connect Couplings

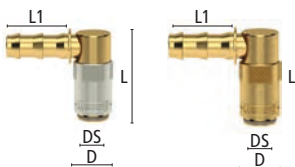
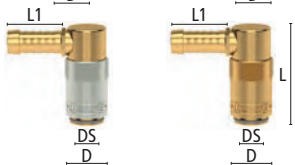
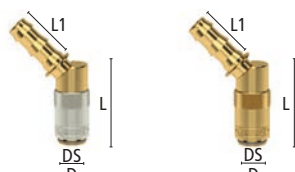
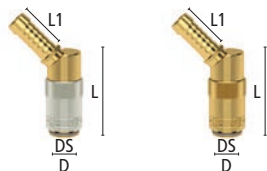
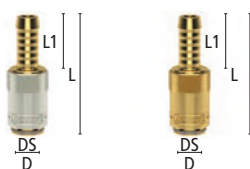
## Series ESDM Plug size 9.4 mm

DN 6

Plug Profile (original size)



International Plug Profile



- One-hand quick connect couplings with small dimensions made of Brass MS 58
- 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
- All couplings available with security lock, just add "S" on Type No. (Surcharge: 2.19 Euro gross)

### 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

| Max. Working Pressure | Temperature     | DN | Thread           | Operation | Type of valve                  | Media          |                    |
|-----------------------|-----------------|----|------------------|-----------|--------------------------------|----------------|--------------------|
| PN 15 bar             | -20°C – +200°C* | 6  | ISO 228 / DIN 13 | One-hand  | 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     | ESDM 6 TL          | ESDM 6 TLAB      |
| Hose i.D. 9     | 51 | 17 | 22.5 | 9.4 | 6       | 45     | ESDM 9 TL          |                  |
| Hose i.D. 9     | 51 | 17 | 22.5 | 9.4 | 6       | 45     |                    | ESDM 9 TLAB      |
| Hose i.D. 13    | 53 | 17 | 25   | 9.4 | 6       | 54     | ESDM 13 TL         | ESDM 13 TLAB     |

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

| Hose connect. | L    | D  | L1 | DS  | Passage | Weight | Type No. w/o valve | Type No. w valve |
|---------------|------|----|----|-----|---------|--------|--------------------|------------------|
| Hose i.D. 6   | 56.5 | 17 | 28 | 9.4 | 5       | 40     | ESDM 6 T           | ESDM 6 TAB       |
| Hose i.D. 10  | 56.5 | 17 | 28 | 9.4 | 6       | 46     | ESDM 10 T          | ESDM 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     | 40.5 | 17 | 25.5 | 9.4 | 5       | 58     | ESDM 6 TL-45       | ESDM 6 TL-45AB   |
| Hose i.D. 9     | 40.5 | 17 | 25.5 | 9.4 | 6       | 62     | ESDM 9 TL-45       | ESDM 9 TL-45AB   |

### 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     | 40.5 | 17 | 28 | 9.4 | 5       | 63     | ESDM 6 T-45        | ESDM 6 T-45AB    |
| Hose i.D. 10    | 40.5 | 17 | 28 | 9.4 | 6       | 67     | ESDM 10 T-45       | ESDM 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     | 40.5 | 17 | 25.5 | 9.4 | 5       | 58     | ESDM 6 TL-90       | ESDM 6 TL-90AB   |
| Hose i.D. 9     | 40.5 | 17 | 25.5 | 9.4 | 6       | 62     | ESDM 9 TL-90       | ESDM 9 TL-90AB   |

### 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     | 40.5 | 17 | 28 | 9.4 | 5       | 63     | ESDM 6 T-90        | ESDM 6 T-90AB    |
| Hose i.D. 10    | 40.5 | 17 | 28 | 9.4 | 6       | 67     | ESDM 10 T-90       | ESDM 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)!

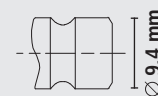
\*subject to media (oil: 200°C, water: 150°C, air: 200°C)

# Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDM**

**DN 6**

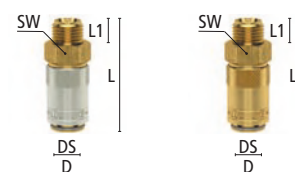
Plug Profile (original size)



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

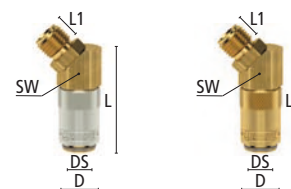
| Thread connection | L  | SW | D  | L1 | DS  | Passage | Weight | Type No. w/o valve | Type No. w valve |
|-------------------|----|----|----|----|-----|---------|--------|--------------------|------------------|
| G 1/4 m           | 46 | 17 | 17 | 9  | 9.4 | 6       | 60     | ESDM 14 A          | ESDM 14 AAB      |
| G 3/8 m           | 46 | 19 | 17 | 9  | 9.4 | 6       | 70     | ESDM 38 A          | ESDM 38 AAB      |
| M 10x1 m          | 44 | 17 | 17 | 7  | 9.4 | 6       | 60     | ESDM 101 A         | ESDM 101 AAB     |
| M 14x1.5 m        | 46 | 17 | 17 | 9  | 9.4 | 6       | 60     | ESDM 1415 A        | ESDM 1415 AAB    |
| M 16x1.5 m        | 46 | 19 | 17 | 9  | 9.4 | 6       | 70     | ESDM 1615 A        | ESDM 1615 AAB    |
| G 1/4 m           | 50 | 17 | 17 | 13 | 9.4 | 6       | 61     | ESDM 14 AL         | ESDM 14 ALAB     |
| G 3/8 m           | 50 | 19 | 17 | 13 | 9.4 | 6       | 75     | ESDM 38 AL         | ESDM 38 ALAB     |
| M 14x1.5 m        | 50 | 17 | 17 | 13 | 9.4 | 6       | 65     | ESDM 1415 AL       | ESDM 1415 ALAB   |

Version AL with longer male thread mainly used for assembly with Ermeto fittings



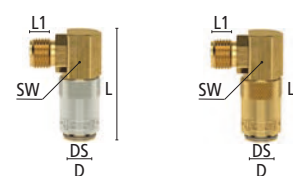
## Couplings with 45° male thread without/with valve (inner cone DIN 3863)

| Thread connection | 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     | ESDM 14 A-45       | ESDM 14 A-45AB   |
| G 3/8 m           | 45 | 19 | 17 | 9  | 9.4 | 6       | 75     | ESDM 38 A-45       | ESDM 38 A-45AB   |
| M 10x1 m          | 45 | 17 | 17 | 7  | 9.4 | 6       | 65     | ESDM 101 A-45      | ESDM 101 A-45AB  |
| M 14x1.5 m        | 45 | 17 | 17 | 9  | 9.4 | 6       | 65     | ESDM 1415 A-45     | ESDM 1415A-45AB  |
| M 16x1.5 m        | 45 | 19 | 17 | 9  | 9.4 | 6       | 75     | ESDM 1615 A-45     | ESDM 1615A-45AB  |



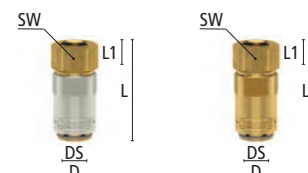
## Couplings with 90° male thread without/with valve (inner cone DIN 3863)

| Thread connection | 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     | ESDM 14 A-90       | ESDM 14 A-90AB   |
| G 3/8 m           | 45 | 19 | 17 | 9  | 9.4 | 6       | 85     | ESDM 38 A-90       | ESDM 38 A-90AB   |
| M 10x1 m          | 45 | 17 | 17 | 7  | 9.4 | 6       | 75     | ESDM 101 A-90      | ESDM 101 A-90AB  |
| M 14x1.5 m        | 45 | 17 | 17 | 9  | 9.4 | 6       | 75     | ESDM 1415 A-90     | ESDM 1415A-90AB  |
| M 16x1.5 m        | 45 | 19 | 17 | 9  | 9.4 | 6       | 85     | ESDM 1615 A-90     | ESDM 1615A-90AB  |



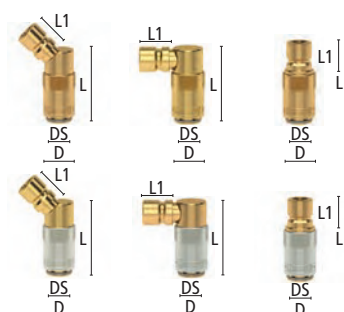
## Couplings with straight female thread without/with valve

| Thread connection | 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     | ESDM 14 I          | ESDM 14 IAB      |
| G 3/8 f           | 40 | 21 | 17 | 9  | 9.4 | 6       | 54     | ESDM 38 I          | ESDM 38 IAB      |
| M 10x1 f          | 40 | 17 | 17 | 9  | 9.4 | 6       | 50     | ESDM 101 I         | ESDM 101 IAB     |
| M 14x1.5 f        | 40 | 17 | 17 | 9  | 9.4 | 6       | 50     | ESDM 1415 I        | ESDM 1415 IAB    |



## Couplings with plug DN 9 - ESDM and ESDM-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     | ESDMK-ESDS         | ESDMK-ESDS-AB    |
| DN 6 - DN 9 | 45   | 17 | 15.5 | 9.4 | 6       | 45°      | 80     | ESDMK-ESDS-45      | ESDMK-ESDS-45AB  |
| DN 6 - DN 9 | 45   | 17 | 15.5 | 9.4 | 6       | 90°      | 80     | ESDMK-ESDS-90      | ESDMK-ESDS-90AB  |
| DN 6 - DN 6 | 50   | 17 | 14   | 9.4 | 6       | straight | 70     | ESDMK-ESHMS        | ESDMK-ESHMS-AB   |
| DN 6 - DN 9 | 50   | 17 | 14   | 9.4 | 6       | straight | 75     | ESDMK-ESHS         | ESDMK-ESHS-AB    |

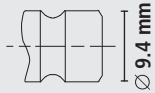


# Temperature Regulation Quick Connect Couplings

## Series ESDM Plug size 9.4 mm

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 8/6   | 41 | 17 | 9.4 | 6       | 63     | ESDM 8-U           | ESDM 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 |



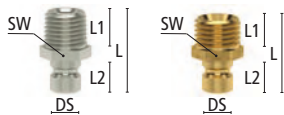
Plain End Coupling

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



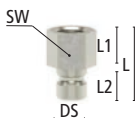
Plugs with straight standard hose stem without valve

| 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* |

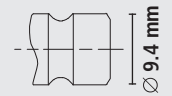
\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

Plug size 9.4 mm **Series ESDM**

**DN 6**

Plug Profile (original size)



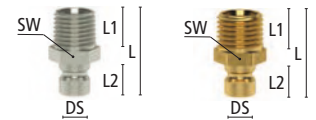
**Plugs with 90° male thread without valve (metrical thread DIN 158/ R-thread DIN EN 10226)**

| 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 |



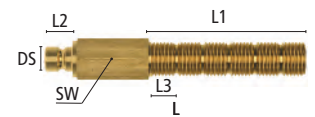
**Plugs with straight male thread with valve**

| 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 |



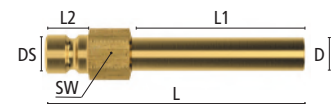
**Plugs with straight male long thread without valve (for length cutting as needed)**

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