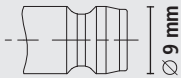


# Temperature Regulation Quick Connect Couplings

## Series ESHM plug size 9 mm

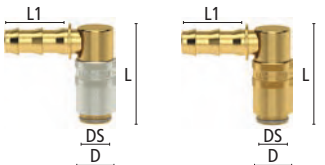
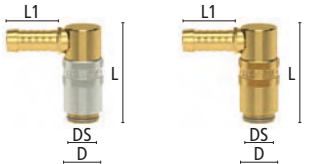
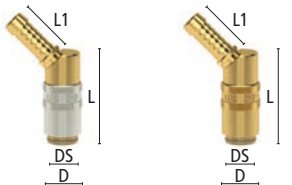
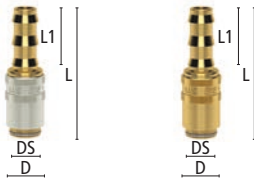
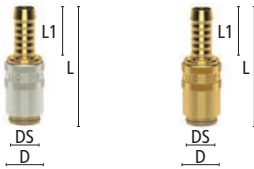
### DN 6

Plug Profile (original size)



Also in Stainless Steel  
Series ESHME  
page 314

European  
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  | ISO228/ DIN13/ DIN158 | One-hand  | single/double/straight-thr. | 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 v. | Type No. w valve |
|-----------------|----|----|------|----|---------|--------|-----------------|------------------|
| Hose i.D. 6     | 53 | 17 | 22.5 | 9  | 5       | 40     | ESHM 6 TL       | ESHM 6 TLAB      |
| Hose i.D. 9     | 53 | 17 | 22.5 | 9  | 6       | 45     |                 | ESHM 9 TLAB      |
| Hose i.D. 9     | 53 | 17 | 22.5 | 9  | 6       | 45     | ESHM 9 TL       |                  |
| Hose i.D. 13    | 55 | 17 | 25   | 9  | 6       | 54     | ESHM 13 TL      | ESHM 13 TLAB     |

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

| Hose connection | L    | D  | L1 | DS | Passage | Weight | Type No. w/o v. | Type No. w valve |
|-----------------|------|----|----|----|---------|--------|-----------------|------------------|
| Hose i.D. 6     | 58.5 | 17 | 28 | 9  | 5       | 42     | ESHM 6 T        | ESHM 6 TAB       |
| Hose i.D. 10    | 58.5 | 17 | 28 | 9  | 6       | 49     | ESHM 10 T       | ESHM 10 TAB      |

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

| Hose connection | L    | D  | L1   | DS | Passage | Weight | Type No. w/o v. | Type No. w valve |
|-----------------|------|----|------|----|---------|--------|-----------------|------------------|
| Hose i.D. 6     | 42.5 | 17 | 25.5 | 9  | 5       | 58     | ESHM 6 TL-45    | ESHM 6 TL-45AB   |
| Hose i.D. 9     | 42.5 | 17 | 25.5 | 9  | 6       | 62     | ESHM 9 TL-45    | ESHM 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 v. | Type No. w valve |
|-----------------|------|----|----|----|---------|--------|-----------------|------------------|
| Hose i.D. 6     | 42.5 | 17 | 33 | 9  | 5       | 59     | ESHM 6 T-45     | ESHM 6 T-45AB    |
| Hose i.D. 10    | 42.5 | 17 | 33 | 9  | 6       | 68     | ESHM 10 T-45    | ESHM 10 T-45AB   |

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

| Hose connection | L    | D  | L1   | DS | Passage | Weight | Type No. w/o v. | Type No. w valve |
|-----------------|------|----|------|----|---------|--------|-----------------|------------------|
| Hose i.D. 6     | 42.5 | 17 | 22.5 | 9  | 5       | 58     | ESHM 6 TL-90    | ESHM 6 TL-90AB   |
| Hose i.D. 9     | 42.5 | 17 | 22.5 | 9  | 6       | 62     | ESHM 9 TL-90    | ESHM 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 v. | Type No. w valve |
|-----------------|------|----|----|----|---------|--------|-----------------|------------------|
| Hose i.D. 6     | 42.5 | 17 | 28 | 9  | 5       | 59     | ESHM 6 T-90     | ESHM 6 T-90AB    |
| Hose i.D. 10    | 42.5 | 17 | 28 | 9  | 6       | 68     | ESHM 10 T-90    | ESHM 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)!

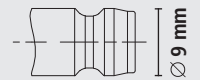
\*subject to media (oil: 200°C, water: 150°C, air: 200°C)

# Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

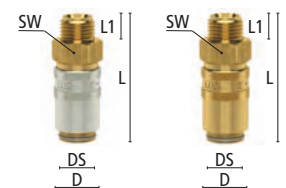
**DN 6**

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 v. | Type No. w valve |
|-------------------|----|----|----|----|----|---------|--------|-----------------|------------------|
| G 1/4 m           | 48 | 17 | 17 | 9  | 9  | 6       | 60     | ESHM 14 A       | ESHM 14 AAB      |
| G 3/8 m           | 48 | 19 | 17 | 9  | 9  | 6       | 70     | ESHM 38 A       | ESHM 38 AAB      |
| M 10x1 m          | 46 | 17 | 17 | 7  | 9  | 6       | 60     | ESHM 101 A      | ESHM 101 AAB     |
| M 14x1.5 m        | 48 | 17 | 17 | 9  | 9  | 6       | 60     | ESHM 1415 A     | ESHM 1415 AAB    |
| M 16x1.5 m        | 48 | 19 | 17 | 9  | 9  | 6       | 70     | ESHM 1615 A     | ESHM 1615 AAB    |
| G 1/4 m           | 52 | 17 | 17 | 11 | 9  | 6       | 65     | ESHM 14 AL*     | ESHM 14 ALAB     |
| G 3/8 m           | 52 | 19 | 17 | 11 | 9  | 6       | 75     | ESHM 38 AL*     | ESHM 38 ALAB     |
| M 14x1.5 m        | 52 | 17 | 17 | 11 | 9  | 6       | 65     | ESHM 1415 AL*   | ESHM 1415 ALAB   |



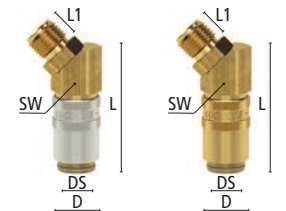
## Couplings with straight male thread (short version) with valve

| Thread connection | L  | SW | D  | L1 | DS | Passage | Weight | Type No.     |
|-------------------|----|----|----|----|----|---------|--------|--------------|
| G 1/4 m           | 38 | 17 | 17 | 9  | 9  | 6       | 45     | ESHM 14 AKAB |



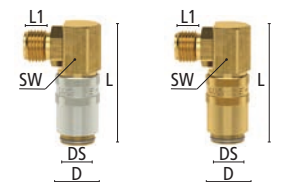
## Couplings with 45° male thread without/with valve (inner cone DIN 3863)

| Thread connection | L  | SW | D  | L1 | DS | Passage | Weight | Type No. w/o v. | Type No. w valve |
|-------------------|----|----|----|----|----|---------|--------|-----------------|------------------|
| G 1/4 m           | 47 | 17 | 17 | 9  | 9  | 6       | 65     | ESHM 14 A-45    | ESHM 14 A-45AB   |
| G 3/8 m           | 47 | 19 | 17 | 10 | 9  | 6       | 75     | ESHM 38 A-45    | ESHM 38 A-45AB   |
| M 10x1 m          | 47 | 17 | 17 | 7  | 9  | 6       | 65     | ESHM 101 A-45   | ESHM 101 A-45AB  |
| M 14x1.5 m        | 47 | 17 | 17 | 9  | 9  | 6       | 65     | ESHM 1415 A-45  | ESHM 1415A-45AB  |
| M 16x1.5 m        | 47 | 19 | 17 | 9  | 9  | 6       | 75     | ESHM 1615 A-45  | ESHM 1615A-45AB  |
| G 3/8 m           | 47 | 19 | 17 | 11 | 9  | 6       | 80     | ESHM 38 AL-45*  | ESHM 38 AL-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 v. | Type No. w valve |
|-------------------|----|----|----|----|----|---------|--------|-----------------|------------------|
| G 1/4 m           | 47 | 17 | 17 | 9  | 9  | 6       | 75     | ESHM 14 A-90    | ESHM 14 A-90AB   |
| G 3/8 m           | 47 | 19 | 17 | 9  | 9  | 6       | 85     | ESHM 38 A-90    | ESHM 38 A-90AB   |
| M 10x1 m          | 47 | 17 | 17 | 7  | 9  | 6       | 75     | ESHM 101 A-90   | ESHM 101 A-90AB  |
| M 14x1.5 m        | 47 | 17 | 17 | 9  | 9  | 6       | 75     | ESHM 1415 A-90  | ESHM 1415A-90AB  |
| M 16x1.5 m        | 47 | 19 | 17 | 9  | 9  | 6       | 85     | ESHM 1615 A-90  | ESHM 1615A-90AB  |
| G 3/8 m           | 47 | 19 | 17 | 11 | 9  | 6       | 90     | ESHM 38 AL-90*  | ESHM 38 AL-90AB* |



## Couplings with straight female thread without/with valve

| Thread connection | L    | SW | D  | L1 | DS | Passage | Weight | Type No. w/o v. | Type No. w valve |
|-------------------|------|----|----|----|----|---------|--------|-----------------|------------------|
| G 1/4 f           | 41.5 | 17 | 17 | 9  | 9  | 6       | 50     | ESHM 14 I       | ESHM 14 IAB      |
| G 3/8 f           | 42   | 21 | 17 | 9  | 9  | 6       | 60     | ESHM 38 I       | ESHM 38 IAB      |
| M 10x1 f          | 41.5 | 17 | 17 | 9  | 9  | 6       | 50     | ESHM 101 I      | ESHM 101 IAB     |
| M 14x1.5 f        | 41.5 | 17 | 17 | 9  | 9  | 6       | 50     | ESHM 1415 I     | ESHM 1415 IAB    |



## Couplings with plug DN 9 - ESH System Adapters and ESHM-ESD System Adapter

| Thread connect. | L  | D  | L1   | DS | Passage | Version  | Weight | Type No. w/o v. | Type No. w valve |
|-----------------|----|----|------|----|---------|----------|--------|-----------------|------------------|
| DN 6 - DN 9     | 44 | 17 | 14   | 9  | 6       | straight | 75     | ESHMK-ESHS      | ESHMK-ESHS-AB    |
| DN 6 - DN 9     | 49 | 17 | 14   | 9  | 6       | 45°      | 80     | ESHMK-ESHS-45   | ESHMK-ESHS-45AB  |
| DN 6 - DN 9     | 47 | 17 | 14   | 9  | 6       | 90°      | 80     | ESHMK-ESHS-90   | ESHMK-ESHS-90AB  |
| DN 6 - DN 6     | 47 | 17 | 10.5 | 9  | 6       | straight | 70     | ESHMK-ESDMS     | ESHMK-ESDMS-AB   |
| DN 6 - DN 9     | 47 | 17 | 15.5 | 9  | 6       | straight | 75     | ESHMK-ESDS      | ESHMK-ESDS-AB    |

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

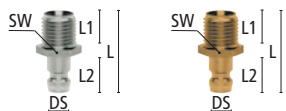
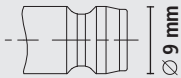


# Temperature Regulation Quick Connect Couplings

**Series ESHM** plug size 9 mm

**DN 6**

Plug Profile (original size)



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

| Connection | L  | D  | DS | Passage | Weight | Type No. w/o valve | Type No. w valve |
|------------|----|----|----|---------|--------|--------------------|------------------|
| Tube 8/6   | 43 | 17 | 9  | 6       | 63     | ESHM 8-U           | ESHM 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  | 37     | ESHM-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 | 14 | 9  | 5       | 9      | ESHM 6 SL  |
| Hose i.D. 9     | 39.5 | 12 | 22.5 | 14 | 9  | 6       | 13     | ESHM 9 SL  |
| Hose i.D. 13    | 39.5 | 16 | 22.5 | 14 | 9  | 6       | 17     | ESHM 13 SL |

## Plugs with straight quick-fit hose stem without valve

| Hose connection | L  | D  | L1 | L2 | DS | Passage | Weight | Type No.  |
|-----------------|----|----|----|----|----|---------|--------|-----------|
| Hose i.D. 6     | 44 | 12 | 28 | 14 | 9  | 5       | 11     | ESHM 6 S  |
| Hose i.D. 10    | 44 | 16 | 28 | 14 | 9  | 6       | 18     | ESHM 10 S |

## 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           | 24 | 11 | 7  | 14 | 9  | 6       | 10     | ESHM 18 NA*  |
| G 1/4 m           | 26 | 15 | 9  | 14 | 9  | 6       | 14     | ESHM 14 NA*  |
| G 3/8 m           | 27 | 17 | 9  | 14 | 9  | 6       | 18     | ESHM 38 NA*  |
| M 8x0.75 m        | 24 | 11 | 7  | 14 | 9  | 4.5     | 9      | ESHM 875 NA  |
| M 10x1 m          | 24 | 11 | 7  | 14 | 9  | 6       | 8      | ESHM 101 NA  |
| M 14x1.5 m        | 26 | 15 | 9  | 14 | 9  | 6       | 14     | ESHM 1415 NA |
| M 16x1.5 m        | 26 | 17 | 9  | 14 | 9  | 6       | 18     | ESHM 1615 NA |

## Plugs with straight male thread and inner hexagon without valve

| Thread connection | L  | SW | L1 | L2 | DS | Passage | Weight | System         | Type No.       |
|-------------------|----|----|----|----|----|---------|--------|----------------|----------------|
| G 1/8 m           | 24 | 11 | 7  | 14 | 9  | 6       | 10     | SW5,19mm depth | ESHM 18 NAIB*  |
| G 1/4 m           | 26 | 15 | 9  | 14 | 9  | 6       | 14     | SW5,19mm depth | ESHM 14 NAIB*  |
| M 10x1 m          | 24 | 11 | 7  | 14 | 9  | 6       | 8      | SW5,19mm depth | ESHM 101 NAIB  |
| M 14x1.5 m        | 26 | 15 | 9  | 14 | 9  | 6       | 14     | SW5,19mm depth | ESHM 1415 NAIB |

For easy assembly with Allen key countersunk in the tool

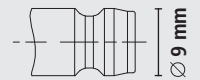
\*Plugs with inch thread nickel-plated for simple distinction

# Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

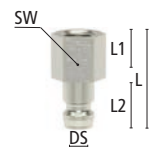
## DN 6

Plug Profile (original size)



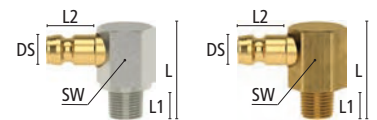
### Plugs with straight female thread without valve

| Thread connection | L  | SW | L1 | L2 | DS | Passage | Weight | Type No.    |
|-------------------|----|----|----|----|----|---------|--------|-------------|
| G 1/8 f           | 27 | 14 | 9  | 14 | 9  | 6       | 15     | ESHM 18 NI* |
| G 1/4 f           | 27 | 17 | 9  | 14 | 9  | 6       | 19     | ESHM 14 NI* |
| G 3/8 f           | 27 | 19 | 10 | 14 | 9  | 6       | 25     | ESHM 38 NI* |



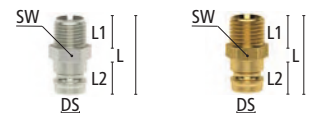
### Plugs with 90° male thread without valve (metrical thread DIN 158/R-thread DIN EN 10226)

| Thread connection | L  | SW | L1 | L2 | DS | Passage | Weight | Type No.        |
|-------------------|----|----|----|----|----|---------|--------|-----------------|
| R 1/8 m           | 27 | 15 | 9  | 14 | 9  | 6       | 35     | ESHM 18 NA-90*  |
| R 1/4 m           | 29 | 15 | 11 | 14 | 9  | 6       | 40     | ESHM 14 NA-90*  |
| R 3/8 m           | 30 | 17 | 12 | 14 | 9  | 6       | 44     | ESHM 38 NA-90*  |
| M 8x0.75 m        | 27 | 15 | 9  | 14 | 9  | 4.5     | 38     | ESHM 875 NA-90  |
| M 10x1 m          | 27 | 15 | 9  | 14 | 9  | 6       | 38     | ESHM 101 NA-90  |
| M 14x1.5 m        | 29 | 15 | 11 | 14 | 9  | 6       | 40     | ESHM 1415 NA-90 |



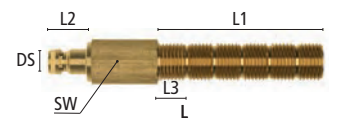
### Plugs with straight male thread with valve

| Thread connection | L  | SW | L1 | L2 | DS | Passage | Weight | Type No.       |
|-------------------|----|----|----|----|----|---------|--------|----------------|
| G 1/8 m           | 40 | 15 | 8  | 14 | 9  | 6       | 13     | ESHM 18 NAAB*  |
| G 1/4 m           | 29 | 15 | 12 | 14 | 9  | 6       | 14     | ESHM 14 NAAB*  |
| G 3/8 m           | 30 | 17 | 12 | 14 | 9  | 6       | 22     | ESHM 38 NAAB*  |
| M 14x1.5 m        | 29 | 15 | 12 | 14 | 9  | 6       | 15     | ESHM 1415 NAAB |



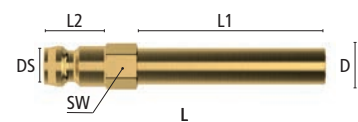
### Plugs with straight male long thread without valve (for length cutting as needed)

| Thread connection | L   | SW | L1 | L2 | L3 | DS | Passage | Weight | Type No.        |
|-------------------|-----|----|----|----|----|----|---------|--------|-----------------|
| G 1/8 m           | 100 | 11 | 60 | 14 | 10 | 9  | 6       | 36     | ESHM 18-60 NA   |
| G 1/4 m           | 100 | 14 | 60 | 14 | 10 | 9  | 6       | 58     | ESHM 14-60 NA   |
| G 3/8 m           | 100 | 17 | 60 | 14 | 10 | 9  | 6       | 90     | ESHM 38-60 NA   |
| M 10x1 m          | 100 | 11 | 60 | 14 | 10 | 9  | 6       | 36     | ESHM 101-60 NA  |
| M 14x1.5 m        | 100 | 14 | 60 | 14 | 10 | 9  | 6       | 61     | ESHM 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  | 9  | 42  | 14 | 9  | 5       | 14     | ESHM 63 R     |
| 8  | 100 | 9  | 79  | 14 | 9  | 5       | 20     | ESHM 100 R    |
| 10 | 63  | 11 | 42  | 14 | 9  | 6       | 20     | ESHM 63 R10   |
| 10 | 100 | 11 | 79  | 14 | 9  | 6       | 41     | ESHM 100 R10  |
| 10 | 120 | 11 | 99  | 14 | 9  | 6       | 49     | ESHM 120 R    |
| 10 | 240 | 11 | 219 | 14 | 9  | 6       | 103    | ESHM 240 R    |
| 10 | 360 | 11 | 339 | 14 | 9  | 6       | 157    | ESHM 360 R    |
| 14 | 150 | 15 | 127 | 14 | 9  | 6       | 114    | ESHM 150 R-14 |



### Plug System Adapters

| Connection                                     | L  | L1 | L2 | DS | DS1 | Weight | Type No.  |
|--|----|----|----|----|-----|--------|-----------|
| DN 6 - DN 6                                    | 34 | 14 | 14 | 9  | 9   | 14     | ESHM-ESHM |
| DN 9 - DN 6                                    | 34 | 14 | 14 | 9  | 13  | 18     | ESH-ESHM  |
| Protection cap (plastic) for plug profile ESHM |    |    |    |    | 100 |        | ESHM-K    |



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