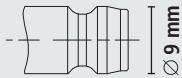


Temperature Regulation Quick Connect Couplings

Series ESHM plug size 9 mm

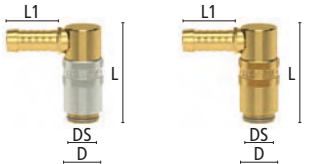
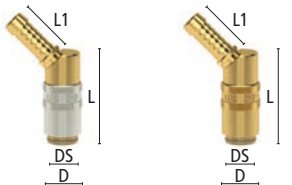
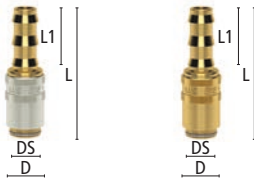
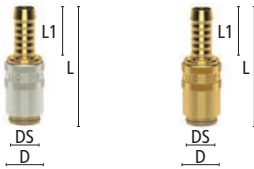
DN 6

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)!

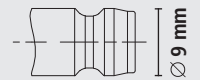
*subject to media (oil: 200°C, water: 150°C, air: 200°C)

Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

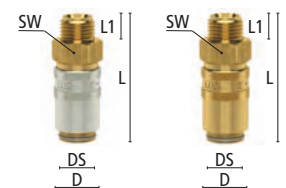
DN 6

Plug Profile (original size)



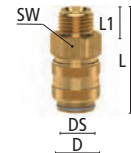
Couplings with straight male thread without/with valve (inner cone DIN 3863)

| 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 |



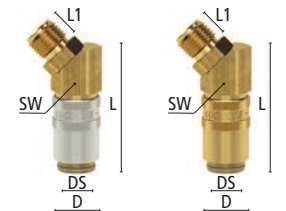
Couplings with straight male thread (short version) with valve

| 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 |



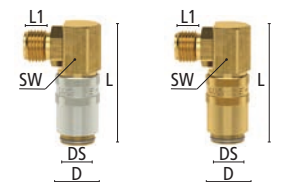
Couplings with 45° male thread without/with valve (inner cone DIN 3863)

| 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.

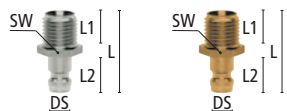
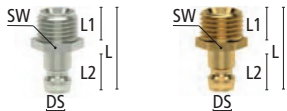
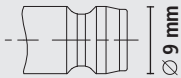


Temperature Regulation Quick Connect Couplings

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

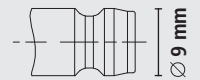
*Plugs with inch thread nickel-plated for simple distinction

Temperature Regulation Quick Connect Couplings

plug size 9 mm **Series ESHM**

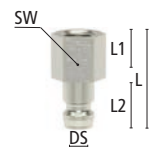
DN 6

Plug Profile (original size)



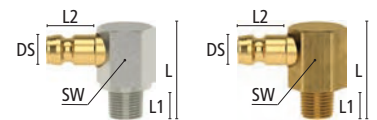
Plugs with straight female thread without valve

| 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* |



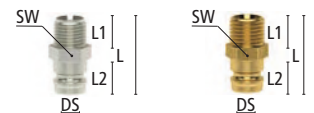
Plugs with 90° male thread without valve (metrical thread DIN 158/R-thread DIN EN 10226)

| 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 |



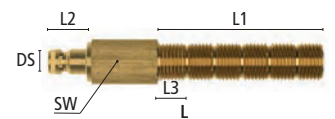
Plugs with straight male thread with valve

| 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 |



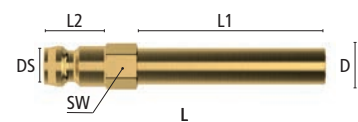
Plugs with straight male long thread without valve (for length cutting as needed)

| 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