

# Temperature Regulation Quick Connect Couplings

Plug size 13.5 mm **Series ESD**

- One-hand quick connect couplings 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 with a surcharge, 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* | 9  | 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. 9     | 61.5 | 22 | 25 | 13.5 | 7       | 72     | ESD 9 TL           | ESD 9 TLAB       |
| Hose i.D. 13    | 61.5 | 22 | 25 | 13.5 | 9       | 81     | ESD 13 TL          |                  |
| Hose i.D. 13    | 61.5 | 22 | 25 | 13.5 | 9       | 81     |                    | ESD 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. 10    | 64.5 | 22 | 28 | 13.5 | 7       | 88     | ESD 10 T           | ESD 10 TAB       |
| Hose i.D. 13    | 64.5 | 22 | 28 | 13.5 | 9       | 90     | ESD 13 T           | ESD 13 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. 9     | 51 | 22 | 30 | 13.5 | 7       | 103    | ESD 9 TL-45        | ESD 9 TL-45AB    |
| Hose i.D. 13    | 51 | 22 | 30 | 13.5 | 9       | 109    | ESD 13 TL-45       | ESD 13 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. 10    | 51 | 22 | 28 | 13.5 | 7       | 112    | ESD 10 T-45        | ESD 10 T-45AB    |
| Hose i.D. 13    | 51 | 22 | 28 | 13.5 | 9       | 118    | ESD 13 T-45        | ESD 13 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. 9     | 51 | 22 | 30 | 13.5 | 7       | 105    | ESD 9 TL-90        | ESD 9 TL-90AB    |
| Hose i.D. 13    | 51 | 22 | 30 | 13.5 | 9       | 111    | ESD 13 TL-90       | ESD 13 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. 10    | 51 | 22 | 28 | 13.5 | 7       | 115    | ESD 10 T-90        | ESD 10 T-90AB    |
| Hose i.D. 13    | 51 | 22 | 28 | 13.5 | 9       | 121    | ESD 13 T-90        | ESD 13 T-90AB    |

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

| Version          | D  | Colour |    | Weight | Type No. |
|------------------|----|--------|----|--------|----------|
| 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 |
| For Hose i.D. 13 | 20 | blue   | 50 | 0.7    | AR-BL 13 |
| For Hose i.D. 13 | 20 | red    | 50 | 0.7    | AR-RO 13 |
| For Hose i.D. 13 | 20 | yellow | 50 | 0.7    | AR-GE 13 |

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

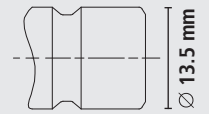
Suitable hose clips, double-ear hose clips or crimping ferrules for standard hoses – (© page 194 - 197)

**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 9**

Plug Profile (original size)



International Plug Profile

