

# Mini Quick Connect Couplings

## double shut-off Series ESME

- One-hand quick connect couplings with reduced dimensions made of stainless steel 1.4305 (on request in stainless steel 1.4404)
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 5. However, double shut-off plugs cannot be connected with standard couplings DN 5
- **Several fields of application, above all for liquid media in pharmacy, medical technology, chemical industry, food industry, clean-room applications, for sophisticated measure, control and regulation technology or increased hygienic requirements**

### Materials

- Body, sleeve, valve body, valve, plug: Stainless Steel 1.4305
- Springs, retaining ring: Stainless Steel 1.4310
- Balls: Stainless Steel 1.3541
- Seals: FKM (EPDM or FFKM on request)

| Max. Working Pressure | Temperature     | DN | Thread           | Flow Rate | Operation | Type of valve   | Media     | Area   |                  |
|-----------------------|-----------------|----|------------------|-----------|-----------|-----------------|-----------|--------|------------------|
| PN 35 bar             | -15°C – +200°C* | 5  | ISO 228 / DIN 13 | 330 l/min | One-hand  | Double shut-off | Different | Europe | Coupl. 1/ Plug 5 |

### Couplings with male thread

| Thread connection | L  | SW | D  | L1 | Weight | Type No.      |
|-------------------|----|----|----|----|--------|---------------|
| G 1/8 m           | 36 | 14 | 16 | 7  | 28     | ESME 18 AAB   |
| G 1/4 m           | 38 | 17 | 16 | 9  | 37     | ESME 14 AAB   |
| G 3/8 m           | 38 | 19 | 16 | 9  | 43     | ESME 38 AAB   |
| M 12x1.5 m        | 38 | 14 | 16 | 9  | 30     | ESME 1215 AAB |
| M 14x1.5 m        | 38 | 17 | 16 | 9  | 38     | ESME 1415 AAB |

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### Couplings with female thread

| Thread connection | L  | SW | D  | L1 | Weight | Type No.      |
|-------------------|----|----|----|----|--------|---------------|
| G 1/8 f           | 38 | 14 | 16 | 9  | 32     | ESME 18 IAB   |
| G 1/4 f           | 38 | 17 | 16 | 9  | 32     | ESME 14 IAB   |
| G 3/8 f           | 38 | 19 | 16 | 9  | 44     | ESME 38 IAB   |
| M 12x1.5 f        | 38 | 17 | 16 | 9  | 41     | ESME 1215 IAB |
| M 14x1.5 f        | 38 | 17 | 16 | 9  | 38     | ESME 1415 IAB |

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### Couplings with hose stem

| Hose connection | L  | SW | D  | L1 | Weight | Type No.    |
|-----------------|----|----|----|----|--------|-------------|
| Hose i.D. 4     | 47 | 14 | 16 | 17 | 28     | ESME 4 TAB  |
| Hose i.D. 6     | 47 | 14 | 16 | 17 | 29     | ESME 6 TAB  |
| Hose i.D. 8     | 47 | 14 | 16 | 17 | 29     | ESME 8 TAB  |
| Hose i.D. 9     | 47 | 14 | 16 | 17 | 31     | ESME 9 TAB  |
| Hose i.D. 10    | 47 | 14 | 16 | 17 | 31     | ESME 10 TAB |

For hose clips type HSE (© page 357)

### Couplings with hose squeeze nut

| Hose connection | L  | SW | D  | SW1 | Weight | Type No.    |
|-----------------|----|----|----|-----|--------|-------------|
| Hose 4x6        | 43 | 14 | 16 | 12  | 35     | ESME 4 TQAB |
| Hose 6x8        | 43 | 14 | 16 | 14  | 37     | ESME 6 TQAB |

### Couplings with hose squeeze nut and bulkhead screwing

| Hose connection | L  | SW | D  | L1 | SW1 | SW2 | G        | Weight | Type No.      |
|-----------------|----|----|----|----|-----|-----|----------|--------|---------------|
| Hose 4x6        | 54 | 14 | 16 | 18 | 12  | 12  | M 10x1 m | 42     | ESME 4 TQSVAB |
| Hose 6x8        | 54 | 14 | 16 | 18 | 14  | 14  | M 12x1 m | 50     | ESME 6 TQSVAB |

### Couplings with hose stem and bulkhead screwing

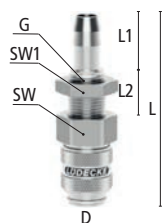
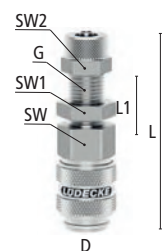
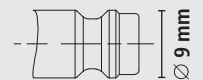
| Hose connection | L  | SW | D  | L1 | L2 | SW1 | G        | Weight | Type No.     |
|-----------------|----|----|----|----|----|-----|----------|--------|--------------|
| Hose i.D. 5     | 60 | 17 | 16 | 17 | 14 | 17  | M 12x1 m | 46     | ESME 5 TSVAB |
| Hose i.D. 6     | 60 | 17 | 16 | 17 | 14 | 17  | M 12x1 m | 46     | ESME 6 TSVAB |
| Hose i.D. 8     | 60 | 17 | 16 | 17 | 14 | 17  | M 12x1 m | 47     | ESME 8 TSVAB |

For hose clips type HSE (© page 357)

\*subject to media and sealing material

# DN 5

Plug Profile (original size)

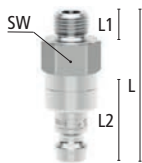
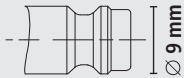


# Mini Quick Connect Couplings

## Series ESME double shut-off

### DN 5

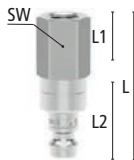
Plug Profile (original size)



#### Plugs with male thread

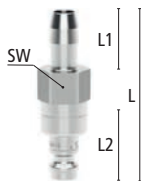
| Thread connection | L  | SW | L1 | L2 | Weight | Type No.       |
|-------------------|----|----|----|----|--------|----------------|
| G 1/8 m           | 40 | 14 | 7  | 14 | 22     | ESME 18 NAAB   |
| G 1/4 m           | 42 | 17 | 9  | 14 | 31     | ESME 14 NAAB   |
| G 3/8 m           | 42 | 19 | 9  | 14 | 37     | ESME 38 NAAB   |
| M 10x1 m          | 40 | 14 | 7  | 14 | 25     | ESME 101 NAAB  |
| M 12x1.5 m        | 42 | 17 | 9  | 14 | 31     | ESME 1215 NAAB |
| M 14x1.5 m        | 42 | 17 | 9  | 14 | 33     | ESME 1415 NAAB |

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#### Plugs with female thread

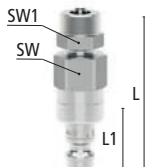
| Thread connection | L  | SW | L1 | L2 | Weight | Type No.       |
|-------------------|----|----|----|----|--------|----------------|
| G 1/8 f           | 42 | 14 | 9  | 14 | 26     | ESME 18 NIAB   |
| G 1/4 f           | 42 | 17 | 9  | 14 | 35     | ESME 14 NIAB   |
| G 3/8 f           | 42 | 19 | 9  | 14 | 37     | ESME 38 NIAB   |
| M 10x1 f          | 42 | 14 | 9  | 14 | 26     | ESME 101 NIAB  |
| M 12x1.5 f        | 42 | 17 | 9  | 14 | 36     | ESME 1215 NIAB |
| M 14x1.5 f        | 42 | 17 | 9  | 14 | 33     | ESME 1415 NIAB |



#### Plugs with hose stem

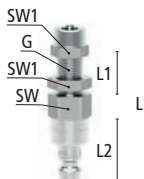
| Hose connection | L  | SW | L1 | L2 | Weight | Type No.    |
|-----------------|----|----|----|----|--------|-------------|
| Hose i.D. 4     | 50 | 14 | 17 | 14 | 21     | ESME 4 SAB  |
| Hose i.D. 6     | 50 | 14 | 17 | 14 | 22     | ESME 6 SAB  |
| Hose i.D. 8     | 50 | 14 | 17 | 14 | 23     | ESME 8 SAB  |
| Hose i.D. 9     | 50 | 14 | 17 | 14 | 23     | ESME 9 SAB  |
| Hose i.D. 10    | 50 | 14 | 17 | 14 | 24     | ESME 10 SAB |

For hose clips type HSE (© page 357)



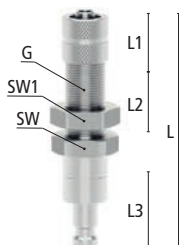
#### Plugs with hose squeeze nut

| Hose connection | L  | SW | L1 | SW1 | Weight | Type No.    |
|-----------------|----|----|----|-----|--------|-------------|
| Hose 4x6        | 46 | 14 | 14 | 12  | 29     | ESME 4 SQAB |
| Hose 6x8        | 46 | 14 | 14 | 14  | 31     | ESME 6 SQAB |



#### Plugs with hose squeeze nut and bulkhead screwing

| Hose connection | L  | SW | L1 | L2 | SW1 | SW2 | G        | Weight | Type No.      |
|-----------------|----|----|----|----|-----|-----|----------|--------|---------------|
| Hose 4x6        | 58 | 14 | 18 | 14 | 14  | 12  | M 10x1 m | 36     | ESME 4 SQSVAB |
| Hose 6x8        | 58 | 14 | 18 | 14 | 17  | 14  | M 12x1 m | 43     | ESME 6 SQSVAB |



#### Plugs with bulkhead screwing

| Hose connection | L  | SW | L1 | L2 | L3 | SW1 | G        | Weight | Type No.     |
|-----------------|----|----|----|----|----|-----|----------|--------|--------------|
| Hose i.D. 5     | 63 | 17 | 14 | 14 | 14 | 17  | M 12x1 m | 38     | ESME 5 SSVAB |
| Hose i.D. 6     | 63 | 17 | 14 | 14 | 14 | 17  | M 12x1 m | 38     | ESME 6 SSVAB |
| Hose i.D. 8     | 63 | 17 | 14 | 14 | 14 | 17  | M 12x1 m | 38     | ESME 8 SSVAB |

For hose clips type HSE (© page 357)