

# Industrial Quick Connect Couplings

single shut-off **Series ESIG**

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- For compressed air supply in industry and handcrafts at extraction points with extremely high flow rates for high-performance tools as well as in engineering and construction

## Materials

- Body, valve body: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve, plug: Hardened steel nickel-plated
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034
- Seals: NBR (other materials on request)

| Max. Working Pressure | Temperature    | DN | Thread               | Flow Rate  | Operation | Type of valve   | Media      | Area   | ⊕                  |
|-----------------------|----------------|----|----------------------|------------|-----------|-----------------|------------|--------|--------------------|
| PN 35 bar             | -20°C – +100°C | 10 | ISO 228/DIN EN 10226 | 3200 l/min | One-hand  | Single shut-off | Air/Others | Europe | Coupl. 5 / Plug 10 |

## Couplings with tapered male thread (thread coated)

| Thread connection | L  | SW | D  | L1 | Weight | Type No.  |
|-------------------|----|----|----|----|--------|-----------|
| R 1/4 m           | 63 | 24 | 27 | 12 | 135    | ESIG 14 A |
| R 3/8 m           | 63 | 24 | 27 | 12 | 143    | ESIG 38 A |
| R 1/2 m           | 65 | 24 | 27 | 17 | 147    | ESIG 12 A |
| R 3/4 m           | 65 | 27 | 27 | 17 | 155    | ESIG 34 A |

## Couplings with parallel female thread

| Thread connection | L  | SW | D  | L1 | Weight | Type No.  |
|-------------------|----|----|----|----|--------|-----------|
| G 1/4 f           | 56 | 24 | 27 | 10 | 136    | ESIG 14 I |
| G 3/8 f           | 56 | 24 | 27 | 11 | 145    | ESIG 38 I |
| G 1/2 f           | 56 | 24 | 27 | 12 | 135    | ESIG 12 I |
| G 3/4 f           | 60 | 32 | 27 | 16 | 200    | ESIG 34 I |

## Couplings with hose barb

| Hose connection | L  | SW | D  | L1 | Weight | Type No.  |
|-----------------|----|----|----|----|--------|-----------|
| Hose i.D. 9     | 76 | 24 | 27 | 25 | 150    | ESIG 9 T  |
| Hose i.D. 10    | 76 | 24 | 27 | 25 | 150    | ESIG 10 T |
| Hose i.D. 13    | 76 | 24 | 27 | 25 | 152    | ESIG 13 T |
| Hose i.D. 16    | 76 | 24 | 27 | 25 | 152    | ESIG 16 T |
| Hose i.D. 19    | 76 | 24 | 27 | 25 | 160    | ESIG 19 T |

For hose clips type ZOS (⊕ page 130), type HS (⊕ page 131) or crimping ferrules type LPH (⊕ page 133)

## Plugs with tapered male thread (thread coated)

| Thread connection | L  | SW | L1 | L2 | Weight | Type No.    |
|-------------------|----|----|----|----|--------|-------------|
| R 1/4 m           | 40 | 17 | 12 | 21 | 30     | ESIG 14 NAS |
| R 3/8 m           | 40 | 17 | 12 | 21 | 32     | ESIG 38 NAS |
| R 1/2 m           | 45 | 22 | 17 | 21 | 35     | ESIG 12 NAS |
| R 3/4 m           | 48 | 27 | 19 | 21 | 37     | ESIG 34 NAS |

## Plugs with parallel female thread

| Thread connection | L  | SW | L1 | L2 | Weight | Type No.    |
|-------------------|----|----|----|----|--------|-------------|
| G 1/4 f           | 34 | 17 | 10 | 21 | 36     | ESIG 14 NIS |
| G 3/8 f           | 34 | 19 | 11 | 21 | 42     | ESIG 38 NIS |
| G 1/2 f           | 37 | 24 | 12 | 21 | 41     | ESIG 12 NIS |
| G 3/4 f           | 42 | 32 | 16 | 21 | 43     | ESIG 34 NIS |

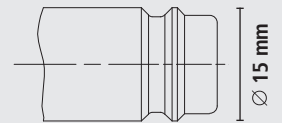
## Plugs with hose barb

| Hose connection | L  | D  | L1 | L2 | Weight | Type No.   |
|-----------------|----|----|----|----|--------|------------|
| Hose i.D. 9     | 48 | 15 | 25 | 21 | 24     | ESIG 9 SS  |
| Hose i.D. 10    | 48 | 15 | 25 | 21 | 24     | ESIG 10 SS |
| Hose i.D. 13    | 48 | 15 | 25 | 21 | 28     | ESIG 13 SS |
| Hose i.D. 16    | 48 | 20 | 25 | 21 | 30     | ESIG 16 SS |
| Hose i.D. 19    | 48 | 24 | 25 | 21 | 35     | ESIG 19 SS |

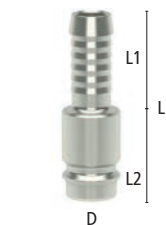
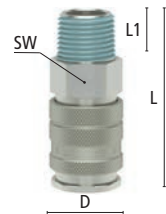
For hose clips type ZOS (⊕ page 130), type HS (⊕ page 131) or crimping ferrules type LPH (⊕ page 133)

**DN 10**

Plug Profile (original size)



Also in Stainless Steel  
Series ESIGE  
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**Opti**  
Flow  
by **LUDECKE**



# Industrial Quick Connect Couplings

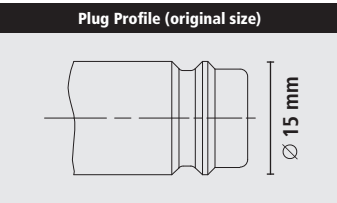
## Series ESIG double shut-off

### DN 10

- Top-quality, extreme robust one-hand quick connect couplings with high-class sealing made of brass MS 58 nickel-plated
- Double shut-off to avoid leaking media when disconnecting
- Please note: Valve construction designed for media flow from coupling to plug
- Very high flow rates with low pressure drop due to patented OptiFlow by **LUDECKE**® valve technology
- Suitable for low vacuum at low couple force compared to all other compatible products
- Attention: Couplings can be connected with straight-through plugs DN 10. However, double shut-off plugs cannot be connected with standard couplings DN 10
- Several fields of application, above all for liquid media in construction, control technology, switchboard cooling etc.
- Adheres to the German Clean Air Act "TA-Luft" for industrial production plants

#### Materials

- Body, valve body, valve: Brass MS 58 nickel-plated
- Valve: Brass MS 58 plain
- Sleeve: Steel hardened and nickel-plated
- O-rings: NBR (other materials on request)
- Springs: Stainless steel 1.4310
- Balls: Stainless steel 1.4034



Also in Stainless Steel  
Series ESIGE  
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| Max. Working Pressure | Temperature    | DN | Thread               | Flow Rate  | Operation | Type of valve   | Media      | Area   | ⊕              |
|-----------------------|----------------|----|----------------------|------------|-----------|-----------------|------------|--------|----------------|
| PN 35 bar             | -20°C – +100°C | 10 | ISO 228/DIN EN 10226 | 1070 l/min | One-hand  | Double shut-off | Air/Others | Europe | Coupl.5/Plug10 |

#### Couplings with tapered male thread (thread coated)

| Thread connection | L  | SW | D  | L1 | Weight | Type No.    |
|-------------------|----|----|----|----|--------|-------------|
| R 1/4 m           | 63 | 24 | 27 | 12 | 135    | ESIG 14 AAB |
| R 3/8 m           | 63 | 24 | 27 | 12 | 143    | ESIG 38 AAB |
| R 1/2 m           | 65 | 24 | 27 | 17 | 147    | ESIG 12 AAB |
| R 3/4 m           | 65 | 27 | 27 | 17 | 155    | ESIG 34 AAB |

#### Couplings with parallel female thread

| Thread connection | L  | SW | D  | L1 | Weight | Type No.    |
|-------------------|----|----|----|----|--------|-------------|
| G 1/4 f           | 56 | 24 | 27 | 11 | 136    | ESIG 14 IAB |
| G 3/8 f           | 56 | 24 | 27 | 11 | 145    | ESIG 38 IAB |
| G 1/2 f           | 56 | 24 | 27 | 12 | 135    | ESIG 12 IAB |
| G 3/4 f           | 60 | 32 | 27 | 16 | 200    | ESIG 34 IAB |

#### Couplings with hose barb

| Hose connection | L  | SW | D  | L1 | Weight | Type No.    |
|-----------------|----|----|----|----|--------|-------------|
| Hose i.D. 9     | 76 | 24 | 27 | 25 | 150    | ESIG 9 TAB  |
| Hose i.D. 10    | 76 | 24 | 27 | 25 | 150    | ESIG 10 TAB |
| Hose i.D. 13    | 76 | 24 | 27 | 25 | 152    | ESIG 13 TAB |
| Hose i.D. 16    | 76 | 24 | 27 | 25 | 152    | ESIG 16 TAB |
| Hose i.D. 19    | 76 | 24 | 27 | 25 | 160    | ESIG 19 TAB |

For hose clips type ZOS (⊕ page 130), type HS (⊕ page 131) or crimping ferrules type LPH (⊕ page 133)

#### Plugs with tapered male thread (thread coated)

| Thread connection | L  | SW | L1 | L2 | Weight | Type No.     |
|-------------------|----|----|----|----|--------|--------------|
| R 3/8 m           | 61 | 24 | 12 | 21 | 105    | ESIG 38 NAAB |
| R 1/2 m           | 63 | 24 | 17 | 21 | 108    | ESIG 12 NAAB |
| R 3/4 m           | 63 | 27 | 17 | 21 | 115    | ESIG 34 NAAB |

#### Plugs with parallel female thread

| Thread connection | L  | SW | L1 | L2 | Weight | Type No.     |
|-------------------|----|----|----|----|--------|--------------|
| G 3/8 f           | 55 | 24 | 11 | 21 | 120    | ESIG 38 NIAB |
| G 1/2 f           | 55 | 24 | 12 | 21 | 140    | ESIG 12 NIAB |
| G 3/4 f           | 59 | 32 | 16 | 21 | 150    | ESIG 34 NIAB |

#### Plugs with hose barb

| Hose connection | L  | SW | L1 | L2 | Weight | Type No.    |
|-----------------|----|----|----|----|--------|-------------|
| Hose i.D. 9     | 74 | 24 | 25 | 21 | 110    | ESIG 9 SAB  |
| Hose i.D. 10    | 74 | 24 | 25 | 21 | 110    | ESIG 10 SAB |
| Hose i.D. 13    | 74 | 24 | 25 | 21 | 110    | ESIG 13 SAB |
| Hose i.D. 16    | 74 | 24 | 25 | 21 | 120    | ESIG 16 SAB |
| Hose i.D. 19    | 74 | 24 | 25 | 21 | 120    | ESIG 19 SAB |

For hose clips type ZOS (⊕ page 130), type HS (⊕ page 131) or crimping ferrules type LPH (⊕ page 133)

