



## STAUFF Screw-to-connect coupling with poppet valve series HR

Screw-to-connect couplings of the HR Series consist of a female body with external thread and a male tip with a screw sleeve. The Series is developed for particularly heavy-duty, high pressure and high pulsing applications for connecting hydraulic lines up to DN38 (1 1/2").

Coupling (screwing) and uncoupling (unscrewing) of the two halves is safe and very easy. After the connection is complete, all internal components have minimal play or clearance, which significantly reduces the risk of material fatigue.

Another advantage is that the risk of permanent indentation, so-called "brinelling", on the surface of the male tip is eliminated, which can occur with push-to-connect couplings in similar extreme applications.

The proven design is suitable for use in heavy construction machinery and available in nominal sizes 10, 12.5, 19, 25, 38 (3/8" - 1 1/2").

### Characteristics

**Series:** HR

**Material:** Steel

**Surface protection:** Zinc coated

**Valve shape:** Poppet valve

**Minimum medium temperature (continuous):** -25 °C

**Maximum medium temperature (continuous):** 100 °C

**Connectable under residual pressure:** Yes, with restrictions

### Application

- Construction machinery

### Technical Information

**Connect under pressure:**

- male tip and female body up to max. 100 bar / 1450 PSI allowed

| Type of component | Construction size | Nominal bore in DN<br>mm | Coupling size (inch) | Connection type | Connection size | Maximum operating pressure<br>bar | Spillage<br>ml | Max. flow rate<br>l/min | Sealing  | Article  |
|-------------------|-------------------|--------------------------|----------------------|-----------------|-----------------|-----------------------------------|----------------|-------------------------|----------|----------|
| Coupling [female] | 2                 | 10                       | 3/8"                 | Internal thread | 3/8" BSP cyl.   | 610                               | 2              | 50                      | NBR/PTFE | 14508648 |
| Coupling [female] | 3                 | 12.5                     | 1/2"                 | Internal thread | 1/2" BSP cyl.   | 470                               | 3              | 85                      | NBR/PTFE | 14508654 |
| Coupling [female] | 4                 | 19                       | 3/4"                 | Internal thread | 3/4" BSP cyl.   | 400                               | 10             | 120                     | NBR/PTFE | 14508660 |
| Coupling [female] | 6                 | 25                       | 1"                   | Internal thread | 1" BSP cyl.     | 400                               | 16             | 280                     | NBR/PTFE | 14508666 |
| Coupling [female] | 6                 | 25                       | 1"                   | Internal thread | 1" BSP cyl.     | 400                               | 16             | 280                     | NBR/PTFE | 14508665 |
| Coupling [female] | 8                 | 31.5                     | 1.1/4"               | Internal thread | 1.1/4" BSP cyl. | 320                               | 30             | 460                     | NBR/PTFE | 14508672 |
| Coupling [female] | 8                 | 31.5                     | 1.1/4"               | Internal thread | 1.1/4" BSP cyl. | 320                               | 30             | 460                     | NBR/PTFE | 14508671 |
| Coupling [female] | 10                | 38                       | 1.1/2"               | Internal thread | 1.1/2" BSP cyl. | 300                               | 54             | 700                     | NBR/PTFE | 14508678 |
| Coupling [female] | 10                | 38                       | 1.1/2"               | Internal thread | 1.1/2" BSP cyl. | 300                               | 54             | 700                     | NBR/PTFE | 14508677 |
| Plug [male]       | 2                 | 10                       | 3/8"                 | Internal thread | 3/8" BSP cyl.   | 610                               | 2              | 50                      | NBR      | 14508650 |
| Plug [male]       | 3                 | 12.5                     | 1/2"                 | Internal thread | 1/2" BSP cyl.   | 470                               | 3              | 85                      | NBR      | 14508656 |
| Plug [male]       | 4                 | 19                       | 3/4"                 | Internal thread | 3/4" BSP cyl.   | 400                               | 10             | 120                     | NBR      | 14508662 |
| Plug [male]       | 6                 | 25                       | 1"                   | Internal thread | 1" BSP cyl.     | 400                               | 16             | 280                     | NBR      | 14508668 |
| Plug [male]       | 6                 | 25                       | 1"                   | Internal thread | 1" BSP cyl.     | 400                               | 16             | 280                     | NBR      | 14508667 |
| Plug [male]       | 8                 | 31.5                     | 1.1/4"               | Internal thread | 1.1/4" BSP cyl. | 320                               | 30             | 460                     | NBR      | 14508673 |

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| Type of component | Construction size | Nominal bore in DN<br>mm | Coupling size (inch) | Connection type | Connection size | Maximum operating pressure<br>bar | Spillage<br>ml | Max. flow rate<br>l/min | Sealing | Article  |
|-------------------|-------------------|--------------------------|----------------------|-----------------|-----------------|-----------------------------------|----------------|-------------------------|---------|----------|
| Plug (male)       | 8                 | 31.5                     | 1.1/4"               | Internal thread | 1.1/4" BSP cyl. | 320                               | 30             | 460                     | NBR     | 14508674 |
| Plug (male)       | 10                | 38                       | 1.1/2"               | Internal thread | 1.1/2" BSP cyl. | 300                               | 54             | 700                     | NBR     | 14508680 |
| Plug (male)       | 10                | 38                       | 1.1/2"               | Internal thread | 1.1/2" BSP cyl. | 300                               | 54             | 700                     | NBR     | 14508679 |

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