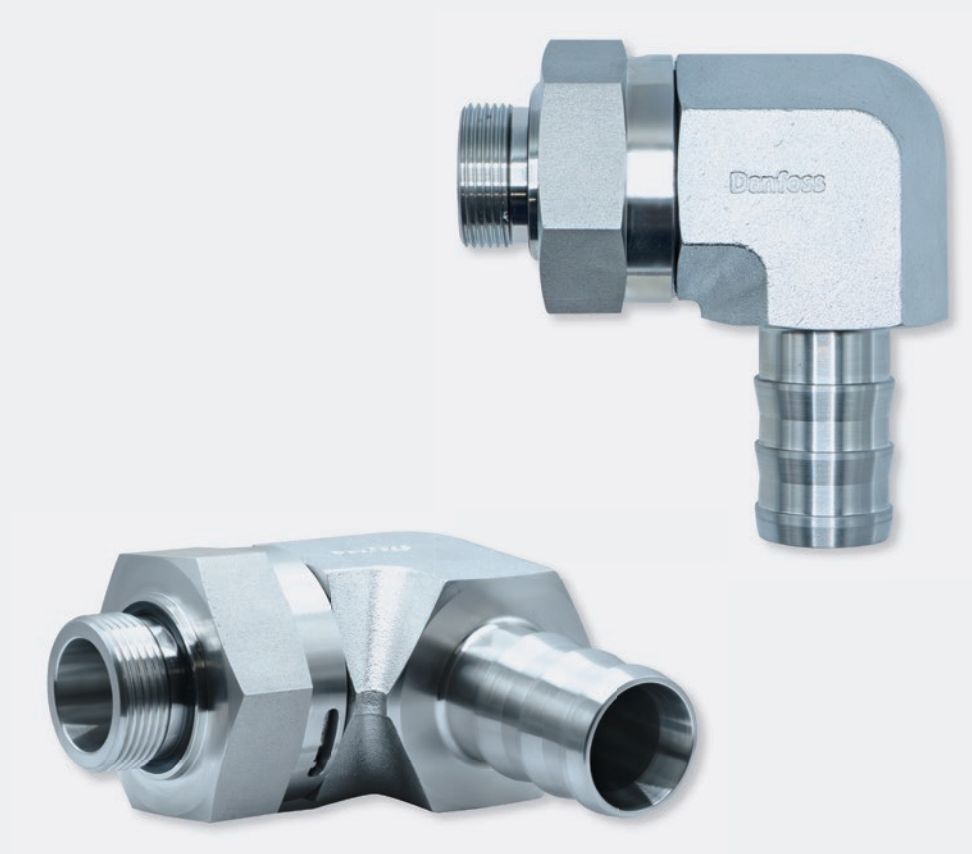


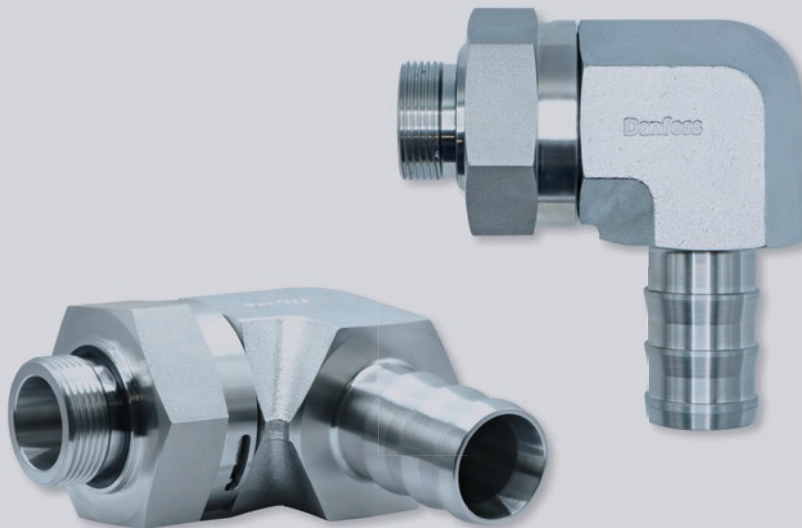


# Danfoss **FF4514** and **FF4521** 90° Swivel Adapter Families

# Danfoss **FF4514** and **FF4521** 90° Swivel Adapter Families

Danfoss **FF4514** and **FF4521** swivel adapter families are specifically developed for liquid cooling hose assembly connection to data center server rack manifolds.

The swivelling feature allows an easy and fast installation of cooling lines to the rack manifold also in tight environment.



## Product Features

- Swivelling functionality for easy and fast connection
- Available for different hose sizes and port threads
- 304 stainless steel material provides broad fluid compatibility
- Standard seal material: EPDM, additional material available on request
- Operation temperature range: -3°C min (26.6°F), 60°C max (140°F)\*
- 100% of production parts are helium leakage tested
- Production related QR code for easy traceability

## Physical characteristics

| Part Number     | Max. operating pressure | Max. proof pressure | Min. burst pressure | Seal Materials |
|-----------------|-------------------------|---------------------|---------------------|----------------|
| FF4514-2032-568 | 10 bar                  | 17 bar              | 21 bar              | EPDM&EPR       |
| FF4514-2024-568 | 10 bar                  | 17 bar              | 21 bar              | EPDM&EPR       |
| FF4514-3232-568 | 10 bar                  | 17 bar              | 21 bar              | EPDM&EPR       |
| FF4521-1616-568 | 10 bar                  | 17 bar              | 21 bar              | EPDM&EPR       |

## Applications & Markets

- Data Centers
- Thermal Management Systems

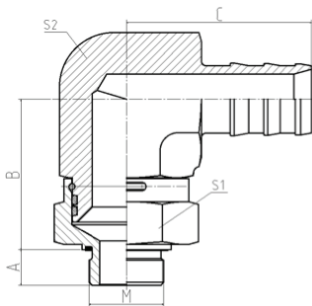


Figure 1

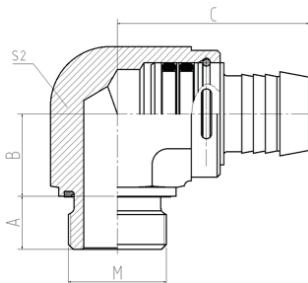


Figure 2

## Dimensions

| Part number     | Hose barb Size | Port Thread                 | Fig. | A    |      | B    |      | C     |      | S1   |      | S2   |      |
|-----------------|----------------|-----------------------------|------|------|------|------|------|-------|------|------|------|------|------|
|                 |                |                             | n°   | (mm) | (in) | (mm) | (in) | (mm)  | (in) | (mm) | (in) | (mm) | (in) |
| FF4514-2024-568 | -24            | G1.1/4-11<br>ISO1179-2 BSPP | 1    | 20.0 | 0.79 | 84.5 | 3.33 | 104.0 | 4.09 | 70.0 | 2.76 | 65.0 | 2.56 |
| FF4514-2032-568 | -32            | G1.1/4-11<br>ISO1179-2 BSPP | 1    | 20.0 | 0.79 | 84.5 | 3.33 | 113.0 | 4.45 | 70.0 | 2.76 | 65.0 | 2.56 |
| FF4514-3232-568 | -32            | G2-11<br>ISO1179-2 BSPP     | 1    | 24.0 | 0.94 | 84.5 | 3.33 | 113.0 | 4.45 | 75.0 | 2.95 | 65.0 | 2.56 |
| FF4521-1616-568 | -16            | G1-11<br>ISO1179-2 BSPP     | 2    | 18.0 | 0.71 | 28.0 | 1.10 | 65.3  | 2.57 | -    | -    | 41.0 | 1.61 |



**Danfoss丹佛斯签约中国经销商：北京汉深流体技术有限公司**

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