ENGINEERING
TOMORROW

Fact sheet

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

Applications & Markets

- Data Centers
- Thermal Management Systems

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

Figure 1

Figure 2

Dimensions

Part Number	Hose barb size	Port Thread	Fig.	A	B	C	S1	S2
				mm	mm	mm	mm	mm
FF4514-2024-568	-24	G1.1/4-11 ISO1179-2 BSPP	1	20	84.5	104	70	65
FF4514-2032-568	-32	G1.1/4-11 ISO1179-2 BSPP	1	20	84.5	113	70	65
FF4514-3232-568	-32	G2-11 ISO1179-2 BSPP	1	24	84.5	113	75	65
FF4521-1616-568	-16	G1-11 ISO1179-2 BSPP	2	18	28	65.3	–	41