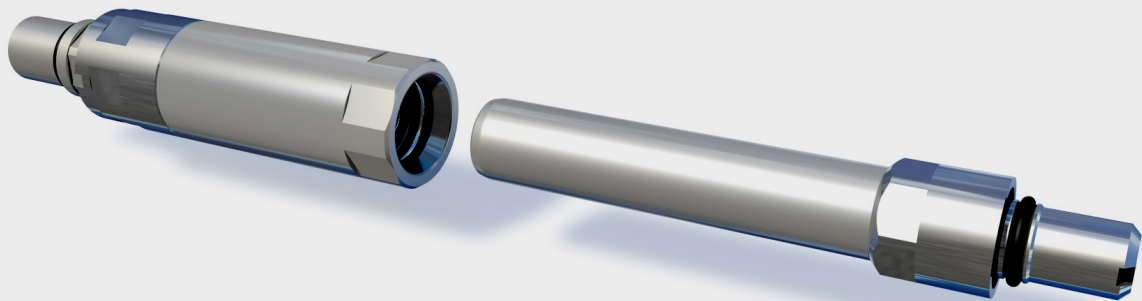




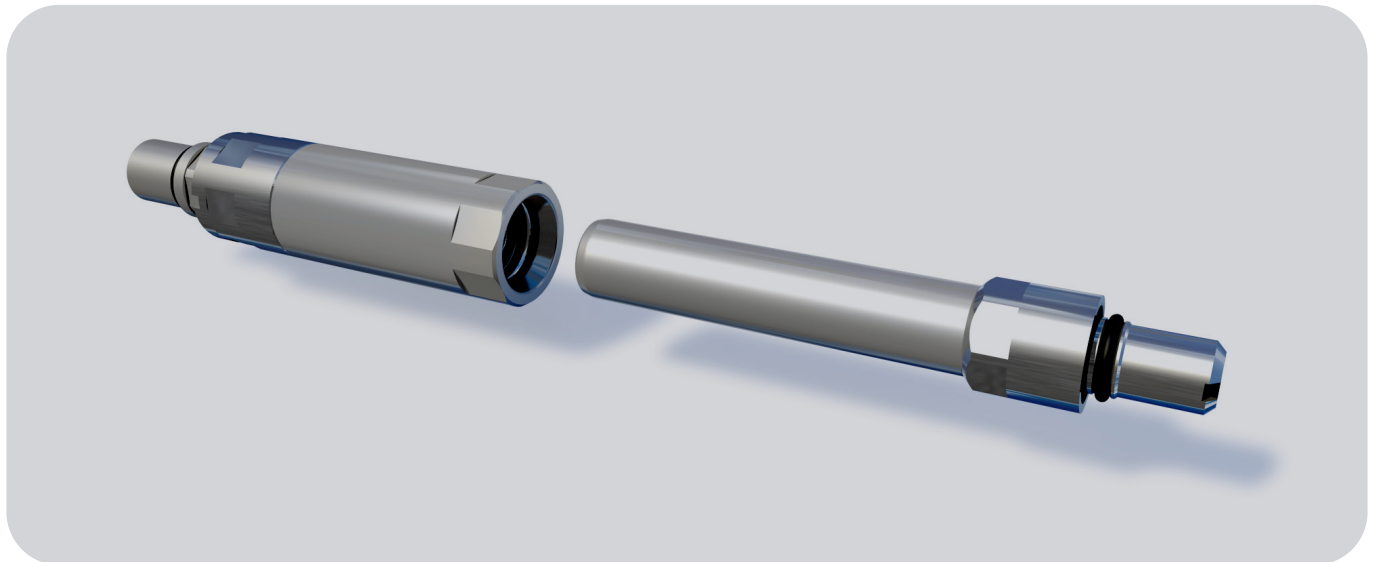
Danfoss Hansen[®] eXtra-dense pluggable optics Blind Mate liquid Connector (XBMC)

One partner, every solution

Danfoss Hansen® eXtra-dense pluggable optics Blind Mate liquid Connector (XBMC)

Danfoss Hansen **XBMC (eXtra-Dense Pluggable Optics Blind-Mate Connector)** is a purpose-built liquid cooling connector designed to meet XPO technical specifications version 0.99 for next-generation pluggable optics applications.

Engineered for ultra-high-density deployments, XBMC is the smallest quick-disconnect coupling available for data centre liquid cooling, enabling reliable blind-mate connectivity, maximising rack density, and simplifying installation and serviceability in space-constrained environment.



Product Features*

- Designed per XPO specifications (V 0.99) to support XPO infrastructure
- Push-to-connect design
- Smallest blind mate QD developed with optimized flow and limited pressure drop for optimized cooling system efficiency
- Flat-face dry break design to avoid spillage during connection & disconnection
- "Blind-connection" with self-alignment feature of +/-0.5 mm radial offset
- Standard material: Stainless steel (304) & EPDM-P (Peroxide-cured) provide broad fluid compatibility and highest corrosion resistance
- QR Code identification to help track parts
- Operating temperature: +17° to +65°C (62.6°F to 149°F)
- Spillage: <0.02 cc max
- Compliant to RoHS REACH, IEC 62368 G15 requirements

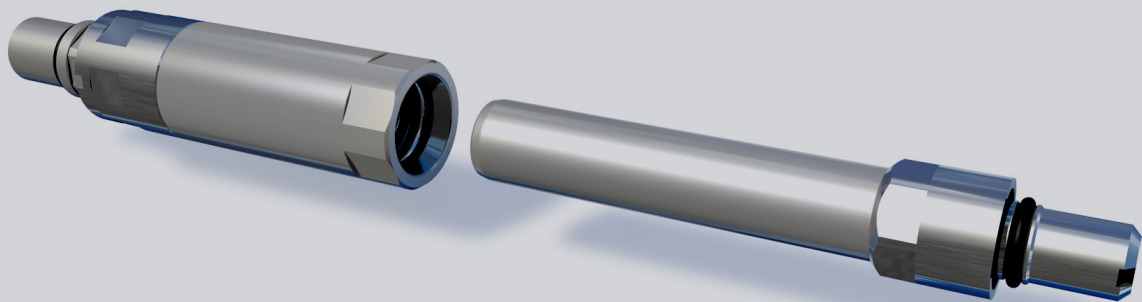
*The values provided are initial targets following XPO spec version 0.99. These will be refined based on the results of our internal testing and validation process.

Solutions to your liquid cooling challenges

Switch tray solutions

Danfoss' direct-to-chip cooling solutions extend into the racks through efficient routing of flexible, kink-free hoses, and leak free, helium-tested couplings.

Danfoss has a **comprehensive portfolio of premium fluid conveyance products** to meet your thermal management system needs.



Physical characteristics

Size	Working pressure		Min burst pressure		Radial mis-alignment	MAX Flow		Pressure drop at 0.4 lpm	Torque	Fluid loss
	bar	psi	bar	psi		lpm	gpm			
-01	6.9	100	13.8	200	0.5	0.8	0.21	< 6.9 kPa	N/A	0.02

Applications & Markets

- Liquid-cooled XPO optical switches and pluggable optics used in next-generation AI and hyperscale data centres

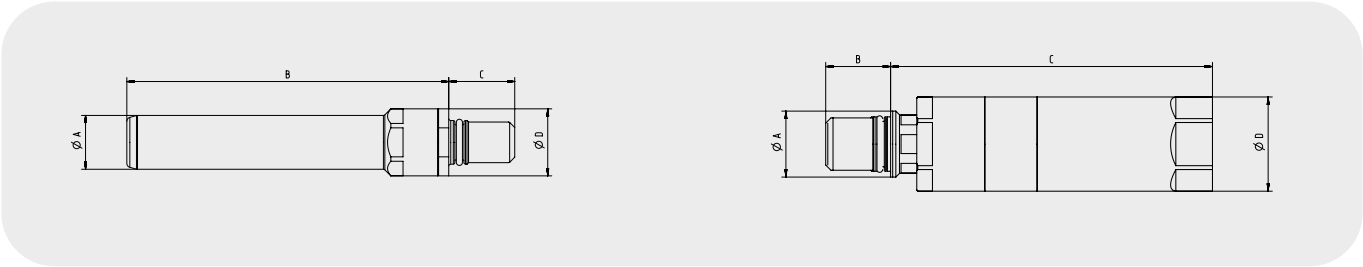


Figure 1
Plug

Figure 2
Socket

Dimensions

Part/Order number	Part	End connection			Dimensions							
		End type	Thread size	Fig. n°	A		B		C		D	
					(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
11432427	Plug	Customized sealing	M4X0.7	1	5.3	0.21	31.7	1.25	6.5	0.26	6.6	0.26
11432428	Socket	Customized sealing	M5X0.8	2	6.3	0.25	6.2	0.24	30.75	1.21	9	0.35

Flow Data

To be published after internal testings.

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To be published after internal testings.



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