



QD PRODUCT MANUAL

UQD/ UQDB/ TBV/ TFA/ TFB/ TFC/ TFD

Thermal Control Technology (Shenzhen) Co., Ltd.

▶ UQD Series QD



▶ Application: Data Center

- **Effective diameter:** DN03~10mm
- **Body material:** 316L stainless steel
- **Sealing material:** EPDM
- **Working pressure:** 0~20bar
- **Burst pressure:** 80bar
- **Temperature range:** -40 °C~+120 °C
- **Fluids:** deionized water,purified water,water glycol, water propylene glycol,fluoride solution
- **Others:** interface connection mode,red and blue ring identification optional

▶ Confirm to OCP performance standard,flat drip free design,on-off under pressure without leakage

▶ UQDB Series Blind Plug QD



▶ Application: Data Center

- **Effective diameter:** DN03~10mm
- **Body material:** 316L stainless steel
- **Floating distance:** ±1mm
- **Sealing material:** EPDM
- **Working pressure:** 0~20bar
- **Burst pressure:** 80bar
- **Temperature range:** -40°C~+120°C
- **Fluids:** deionized water,purified water,water glycol, water propylene glycol,fluoride solution
- **Others:** optional interface connection mode

▶ Confirm to OCP performance standard,flat drip free design,on-off under pressure without leakage

▶ TBV Series Ball Valve QD

- ▶ **Application:** HPC, Power Cabinets, And High-Density Liquid Cooling Servers



- **Effective diameter:** DN 20~40 mm
- **Body material:** 304 stainless steel
- **Sealing material:** EPDM
- **Working pressure:** 10bar- 20bar
- **Burst pressure:** 2Mpa
- **Temperature range:** -40°C~+120°C
- **Fluids:** Pure water coolant , formula coolant , Deionized Water
- **Connection Type:** G1" , G1.5" , G2" Internal Thread identification optional
- **Others:** interface connection mode,sealing material optional

- ▶ **Flat drip free design,small conduction spacing**

▶ TFA Series Compact QD

- ▶ **Application:** Data center,Supercomputing



- **Effective diameter:** DN04~06
- **Body material:** 316L stainless steel
- **Sealing material:** EPDM
- **Working pressure:** 0~20bar
- **Burst pressure:** 80bar
- **Temperature range:** -55 °C~+125 °C
- **Fluids:** deionized water,purified water,water glycol, water propylene glycol,fluoride solution
- **Others:** interface connection mode,sealing material, red and blue ring identification optional

- ▶ **Flat drip free design,compact design,low flow resistance, plate piercing,on-off under pressure without leakage**

▶ TFB Series QD



- ▶ **Application:** Data center, Supercomputing, Semiconductor, Medical

- **Effective diameter:** DN04~25mm
- **Body material:** 316L stainless steel
- **Sealing material:** EPDM
- **Working pressure:** 0~20bar
- **Burst pressure:** 80bar
- **Temperature range:** -40°C~+120°C
- **Fluids:** deionized water, purified water, water glycol, water propyleneglycol, fluoride solution
- **Others:** interface connection mode, sealing material, red and blue ring identification optional

- ▶ **Flat drip free design, sealing ring protection design, low flow resistance, one-handed operation, on-off under pressure without leakage**

▶ TFC Two-Phase Liquid Cooling QD



- ▶ **Application:** Data Center

- **Effective diameter:** DN06~14mm
- **Body material:** aluminum alloy
- **Sealing material:** HNBR, low temperature NBR, and FVMQ optional
- **Working pressure:** 0~40bar
- **Burst pressure:** 160bar
- **Temperature range:** -15°C~+125°C
- **Fluids:** Freon
- **Others:** interface connection mode, sealing material, red and blue ring identification

- ▶ **Flat drip free design, special treated surface for wear resistance, self-lubricating**

▶ TFD Series Blind Plug QD



▶ **Application:** Data center, Supercomputing, Semiconductor

- **Effective diameter:** DN03~12mm
- **Body material:** aluminum alloy, 316L stainless steel
- **Floating distance:** ± 0.5 mm
- **Sealing material:** EPDM, and FVMQ optional
- **Working pressure:** 0~16bar
- **Burst pressure:** 64bar
- **Temperature range:** $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$
- **Fluids:** deionized water, purified water, water glycol, water propylene glycol, fluoride solution
- **Others:** interface connection mode, sealing material optional

▶ **Flat drip free design, small conduction spacing**

Welcome to contact us!

- Coolant Distribution Unit(CDU)
- Rear Door Heat Exchanger (RDHx)
- Rack Manifold (MANIFOLD)
- Quick Disconnect (QD)
- Cold Plate
- 3DVC
- Thermal Test Vehicle(TTV)
- Immersion Tank
- Coolant
- Leakage Detection Rope
- Chiller
- Liquid Cooling Solution

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