LTK-T Push-Pull Fluid Connectors for Liquid Cooling, to +175 °C

Push-pull bayonet · double seal · 20 bar · –55 to +175 °C



Bore	3 to 16 mm
Max. pressure	20 bar
Max. flow	2–60 L/min
Temperature	–55 to +175 °C
Mating cycles	500

Key features

- One-hand push-pull bayonet locking
- Double seal: no leakage while mating and unmating
- Low pressure drop: Kv from 0.22 to 8.6 m³/h
- Aluminum body with nickel-fluorocarbon (T) finish for wear resistance
- Shock and vibration tested with pressurized fluid
- Color codes red, blue, green, yellow for supply and return lines

Specifications

Hydraulic

Parameter	Value	Condition
Max. working pressure	20 bar	
Flow impulse	5 s, 100 times each direction	
Pressure drop	See flow table (Kv)	

Mechanical and environmental

Parameter	Value	Condition
Shock	490 m/s², 11 ms, 18 shocks	With 1.5 MPa fluid
Random vibration	20–2000 Hz, 0.04 g²/Hz, 30 min per axis	With 3 MPa fluid
Operating temperature	–55 to +175 °C	
Durability	500 mating cycles	
Finish	Nickel-fluorocarbon (T) on aluminum	

Sizes and flow

Model	Bore	Flow area	Max. flow	Kv	Max. mating force
LTK03	3 mm	7 mm²	2 L/min	0.22 m³/h	75 N

Model	Bore	Flow area	Max. flow	Kv	Max. mating force
LTK05	5 mm	19.6 mm²	5.8 L/min	0.79 m³/h	100 N
LTK08	8 mm	50 mm²	15 L/min	1.93 m³/h	110 N
LTK10	10 mm	78.5 mm²	23.55 L/min	3.57 m³/h	130 N
LTK12	12 mm	113 mm²	33.9 L/min	5.41 m³/h	140 N
LTK16	16 mm	201 mm²	60 L/min	8.6 m³/h	180 N

Kv measured with coolant at 37.5–39.6 °C, ambient 26 °C.

How to order

LTK [bore] [type] [color] - T

Example: **LTK05TY-T** — 5 mm bore, plug, yellow code, aluminum with T finish

Code segment	Options
Bore	**03 05 08 10 12 16** Bore in mm
Type	**T / Z** Plug / receptacle
Color	**R B G Y** Red, blue, green, yellow
T	**T** Aluminum, nickel-fluorocarbon finish

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=LTK-T