TSA Bayonet Fluid Connectors for Liquid Cooling, 3 to 20 mm

Bayonet · 3–20 mm bores · 1000 cycles · low spillage



Bore	3 to 20 mm
Max. pressure	20 bar
Max. flow	2–94.2 L/min
Temperature	–55 to +95 °C (FVMQ to +155 °C)
Mating cycles	1000

Key features

- One-hand bayonet locking
- Double seal; spillage per mating 0.002 to 0.09 cm³
- Eight bores from 3 to 20 mm, flow up to 94.2 L/min
- For deionized water and antifreeze
- Anodized aluminum or stainless-steel bodies
- EPDM or fluorosilicone seals

Specifications

Hydraulic

Parameter	Value	Condition
Working pressure	0–2 MPa (20 bar)	
Media	Deionized water, antifreeze	
Spillage per mating	0.002–0.09 cm³	By size

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 +95 °C	EPDM seals
Operating temperature	–55 to +155 °C	Fluorosilicone seals
Durability	1000 mating cycles	
Salt spray	96 h	

Sizes and flow

Model	Bore	Flow area	Max. flow	Max. mating force	Spillage per mating
TSA-3	3 mm	7 mm²	2 L/min	75 N	0.002 cm³

Model	Bore	Flow area	Max. flow	Max. mating force	Spillage per mating
TSA-5	5 mm	19.6 mm²	5.8 L/min	100 N	0.02 cm³
TSA-8	8 mm	50 mm²	15 L/min	110 N	0.03 cm³
TSA-10	10 mm	78.5 mm²	23.55 L/min	130 N	0.05 cm³
TSA-12	12 mm	113 mm²	33.9 L/min	140 N	0.05 cm³
TSA-15	15 mm	176.7 mm²	53 L/min	180 N	0.09 cm³
TSA-16	16 mm	201 mm²	60 L/min	180 N	0.09 cm³
TSA-20	20 mm	314 mm²	94.2 L/min	180 N	0.09 cm³

How to order

TS A - [bore] [type] [interface] [color] [body] [seal]

Example: **TSA-8Z01RALJE** — Bayonet, bore code 8, receptacle, interface 01, red, aluminum, EPDM seal

Code segment	Options
Bore	**3 5 8 10 12 15 16 20** Size
Type	**T / Z** Plug / receptacle
Interface	**01 …** Rear port — see drawings
Color	**R B G Y** Red, blue, green, yellow
Body	**AL / SS** Aluminum / stainless steel
Seal	**JE / JM** EPDM / fluorosilicone

Rear ports include M10 × 1 and other threads; tell us your hose or tube interface.

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