FAST MOVING TECHNOLOGY



TDU 24

Cooling | High flow transfer



Direct flow for cooling applications

Applications

- Thermoregulation
- Connections for cooling of electronic equipment, in use in super computer, data center, telecommunications...
- Broadcasting
- Water cooling unit (chiller)
- Rear door
- Heatexchanger
- Connections for cooling in chemical, pharma, industrial machinery and plastics
- Cooling of power converters
- Water cooling jackets
- Inerting applications

Full flow

The TDU 24 coupling has a spherical valve which ensures a direct flow of fluid, allowing for an optimal flow rate and pressure drop ratio.

Two symmetrical parts for TDU 24 unisex

The TDU 24 is a symmetrical coupling. There is no male or female differentiation and both sides that need to be connected are fitted with identical interfaces.

Ease of use and ease of handling

- The integrated swivel prevents torsion of the hose, preventing the coupling from causing any stress even under pressure.
- The locking for the swivel allows an easier connection when used on a fixed point.
- Intuitive handling without predefined sequence required to move the levers.

Quick, simple and safe connection

The TDU locking system is independent of the fluid stream. It allows connection even if one side is under pressure.

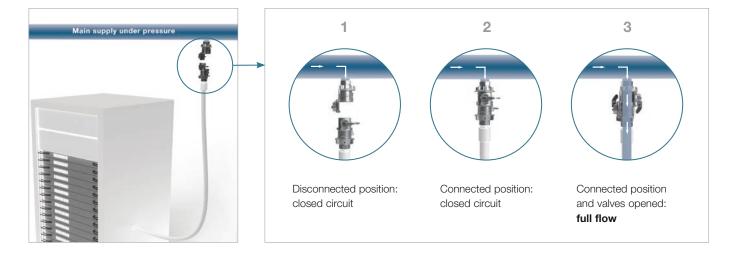
Completely safe operation

Safety is ensured as the valves can only be opened when both coupling halves are fully connected. For disconnection, both valves must be closed completely.

Optional color code

For easy circuit identification, two colors (blue **/KB** and red **/KB**) are available.

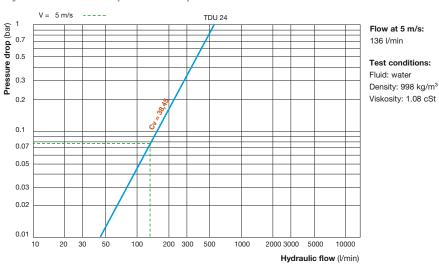




Stäubli

Technical specifications

Nominal diameter DN (mm)	24
Maximum allowable pressure PS (bar)	10
Minimum and maximum allowable temperatures TS (°C) with Ethylene-Propylene (EPDM) seal	-10 to +80
Shut-off double	->+<



Hydraulic flow rate / pressure drop charts

Sealing

- O-ring: Ethylene-Propylene (EPDM)
- Bearing of ball valve: PTFE/PEEK

Connection

- Thread: male BSP, female NPT
- Hose barb

Other connections are available on request.

Construction

Stainless steel

According to your application, each product is available in fixed or swivelling.

Part numbers

Description		Connection F	Dimensions (mm)					Weight	
			А	В	С	Total length	H/flats	(kg)	Part numbers
Female thread	Total length	NPT 1"	56.6	95.5	82.4	124.4	41	1.3	TDU24.7205/IC1/JE
		BSP 1"	56.6	95.5	85.4	127.4	46	1.3	TDU24.7105/IC1/JE
		BSP 1 1/2" 🖉	56.6	95.5	99.4	141.4	55	1.5	TDU24.7107/IC1/JE
Male threa		BSP 1"	56.6	95.5	101.4	143.4	46	1.4	TDU24.7155/IC1/JE
with front seal									
Hose barb	Total length	Hose barb 25 mm	56.6	95.5	123.9	165.9		1.3	TDU24.7825/IC1/JE
	∞ 53 C								
90° hose barb	a Total length	90° hose barb 25 mm	56.6	95.5	114.9	170.6		1.4	TDU24.7825/IC1/JE/RE
		90° hose barb 32 mm	56.6	95.5	123.9	183.1		1.4	TDU24.7832/IC1/JE/RE



Stäubli Units O Representatives/Agents

Global presence of the Stäubli Group

www.staubli.com

Staubli is a trademark of Stäubli International AG, registered in Switzerland and other countries. © Stäubli 16/02/2023. We reserve the right to modify product specifications without prior notice. Photo credits: Stäubli.

