

FAST MOVING TECHNOLOGY

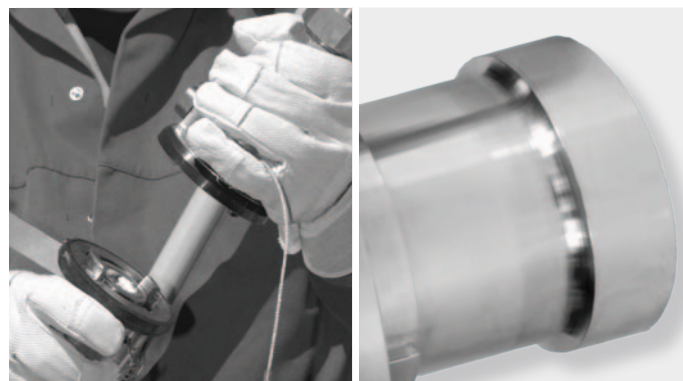
STÄUBLI

TKU/TKM couplings

High flow transfer | Full flow



Count on
a direct flow





Full flow

The TKU and TKM couplings have a spherical valve which ensures a direct flow of fluid, allowing for an optimal flow rate and pressure drop ratio.

Two symmetrical parts for TKU unisex

The TKU is a symmetrical coupling. There is no male or female differentiation and both hoses that need to be connected are fitted with identical parts. They can therefore be deployed in either direction.

Ease of use and ease of handling

- The integrated swivel prevents torsion of the hose, thus preventing the coupling causing any stress even under pressure.
- Conversely, the locked shutoff makes the connection easier when using on a fixed point.
- TKU80 is fitted with additional handles for easier handling.
- Intuitive handling without predefined sequence required to move the levers.

Quick, simple connection

The system of cleats ensures quick, simple locking and safe connection.

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.

Performance and reliability

The technology of the TKU and TKM couplings provides excellent compatibility with high flow, pressure peaks and vibrations.

Protection caps

All coupling halves are equipped with PA caps to protect the coupling against dirt and mechanical impact.

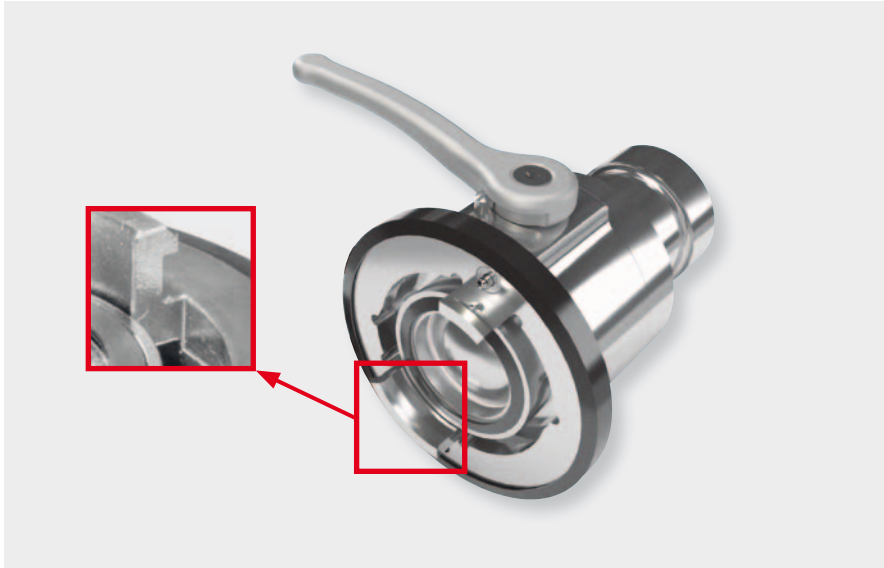
Applications

- Fluid distribution and transfer systems.
- Loading and unloading of tank trucks, vessels, containers and tanks.
- Fitting on fuelling vehicles, pump units.
- Fast connection of fuel supply hoses.
- Connections for cooling electronics, motors and chillers.
- Connections for test benches.

TKM version

This non-unisex version has been designed for a wide range of applications, thanks to the large variety of available O-ring materials. The use of an O-ring as interface seal makes it suitable for depression applications.

Available options



Mechanical coding

A key locking system prevents any circuit inversion, therefore safeguarding the process.




Colour code

Various colours are available for the levers, for easy identification of your circuits.



Technical specifications

	TKU38	TKU50	TKU80	TKM25	TKM38
Nominal diameter of the hose	DN38	DN50	DN80	DN25	DN38
Equivalent flow diameter (mm)	38	50	80	25	38
Maximum allowable pressure PS (bar)	25				
Minimum and maximum allowable temperatures TS (°C) according to seal type:					
- with Nitrile (NBR) seal	0 to +100				
- with Ethylene-Propylene (EPDM) seal	0 to +110				
- with Fluorocarbon (FKM) seal					
- with Perfluoroelastomer (FFKM) seal					
Shut-off	double				

Sealing

- O-rings
 - TKU:**
 - Fluorocarbon (FKM)
 - TKM:**
 - As required:
 - Nitrile (NBR)
 - Ethylene-Propylene (EPDM)
 - Fluorocarbon (FKM)
 - Perfluoroelastomer (FFKM)
 - Others O-ring are available on request.
- Bearing of ball valve
 - TKU and TKM:**
 - PTFE
- Thread gasket BSP
 - PTFE

Connection

- Thread: female BSP or NPT
- Other connections are available on request.

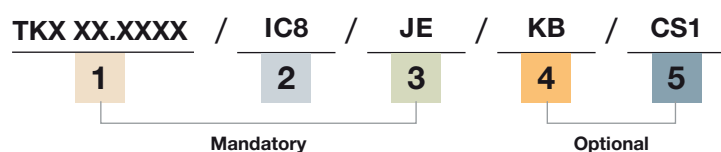
Construction

- Predominantly stainless steel.
- Other constructions are available on request.
- Please contact us for further details.
- Polyamide dust caps.

Reminder of products / corresponding diameters

- TKU38 – 1 ½"
- TKU50 – 2"
- TKU80 – 3"
- TKM25 – 1"
- TKM38 – 1 ½"

How to create your part number



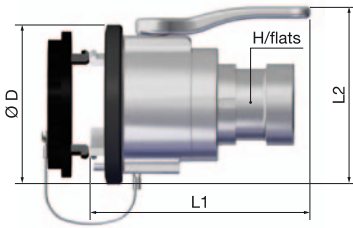
To create your part number, add the following components and options to the standard part number:

- | | |
|---|---|
| <p>1 Standard part number
to be chosen page 7</p> <p>2 Material series (predominantly) Code
- Stainless steel..... IC8</p> <p>3 Type of seal Code
TKU
- Fluorocarbon (FKM)..... JV
TKM
- Nitrile (NBR) JN
- Ethylene-Propylene (EPDM) JE
- Fluorocarbon (FKM)..... JV
- Perfluoroelastomer (FFKM) 6375 JK1
- Perfluoroelastomer (FFKM) 6230 JK3</p> | <p>4 Colour code Code
(For valves - for TKU and TKM)
- Red KR
- Blue..... KB
- Black..... KN
- Yellow KJ</p> <p>5 Mechanical coding
(for TKM only)
- Key-lock..... CS1
Keys 1 and 2 available 1 2
Please contact us for further information.</p> |
|---|---|

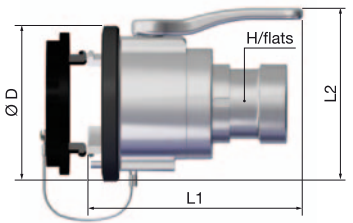
Part numbers

TKU

Designation	Model	Thread F	Dimensions (mm)				Part numbers for fixed part
			Ø D	L1	L2	H/flats	
Tank side: fixed end connection, female thread, supplied with polyamide protective dust cap	TKU38	BSP 1 ½"	107	153	125	50	TKU38.1107
		NPT 1 ½"	107				TKU38.1207
	TKU50	BSP 2"	133	171	149		TKU50.1108
		NPT 2"	133				TKU50.1208
	TKU80	BSP 3"	209	396	291		TKU80.110A
		NPT 3"	209				TKU80.120A

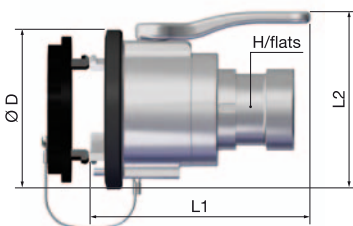


Designation	Model	Thread F	Dimensions (mm)				Part numbers with ball joint
			Ø D	L1	L2	H/flats	
Hose side: rotating end connection, female thread, supplied with polyamide protective dust cap	TKU38	BSP 1 ½"	107	153	125	50	TKU38.7107
		NPT 1 ½"	107				TKU38.7207
	TKU50	BSP 2"	133	171	149		TKU50.7108
		NPT 2"	133				TKU50.7208
	TKU80	BSP 3"	209	396	291		TKU80.710A
		NPT 3"	209				TKU80.720A

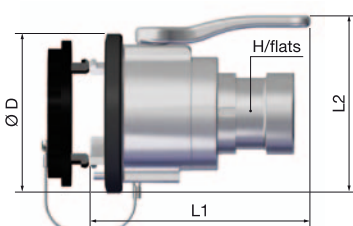


TKM

Designation	Model	Thread F	Dimensions (mm)				Part numbers for fixed part
			Ø D	L1	L2	H/flats	
Tank side: fixed end connection, female thread, supplied with polyamide protective dust cap	TKM25	BSP 1"	91	143	108	32	TKM25.1105
		NPT 1"	91				TKM25.1205
	TKM38	BSP 1 ½"	107	153	125	50	TKM38.1107
		NPT 1 ½"	107				TKM38.1207



Designation	Model	Thread F	Dimensions (mm)				Part numbers with ball joint
			Ø D	L1	L2	H/flats	
Hose side (seal interface location): rotating end connection, female thread, supplied with polyamide protective dust cap	TKM25	BSP 1"	91	143	108	32	TKM25.7105
		NPT 1"	91				TKM25.7205
	TKM38	BSP 1 ½"	107	153	125	50	TKM38.7107
		NPT 1 ½"	107				TKM38.7207



TKU and TKM couplings are not interchangeable.



■ Stäubli units ○ Agents

Global presence of the Stäubli Group

www.staubli.com