

# 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.

#### **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.







#### **TKU** version

The TKU is a symmetrical coupling. There is no male or female differentiation. They can therefore be deployed in either direction. TKU requires an especially low connection force thanks to the use of lip seals in the interface.

#### **TKM** version

This non-unisex version has been designed for a wider range of media, thanks to the use of an O-ring as interface seal that us available in many different materials. The use of an O-ring as interface seal makes the TKM also suitable for depression applications.

#### Quick, simple connection

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

To avoid misuse, the interfaces are designed in a way that TKU and TKM coupling halves cannot be connected to each other.

#### Ease of use and ease of handling

- · Intuitive handling without predifined sequence required to move the levers.
- · Each coupling half is equipped with an integrated swivel to prevent torsion of the hose, thus preventing the coupling causing any stress even under pressure.
- · Depending on the application the swivel can be locked at the factory.
- The swivel on the hose connection side should remain movable, while at a fixed point a locked swivel simplifies the connection process.
- If not otherwise stated a pair of TKU or TKM will be delivered with the swivel movable in one coupling halve and locked in the other.
- TKU80 is fitted with additional handles for easier handling.

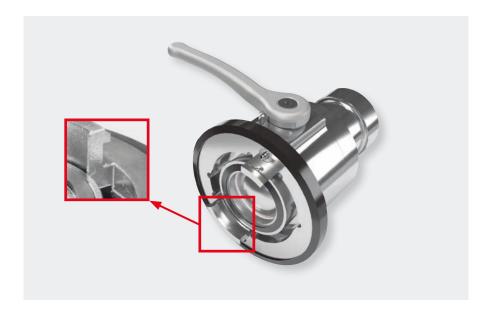
#### **Applications**

- 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.
- Connection for cooling lines.
- Connections for test benches.

#### **Protection caps**

All coupling halves are equiped with PA caps to protect the coupling against dirt and mechanical impact. Each cap is attached with a steel cable to its coupling.

# Available options



#### Mechanical coding

A key locking system prevents any circuit inversion and thus secures 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	25							
Shut-off	double	<b>-&gt;+</b> <-						
Minimum and maxin	C) according to s	eal type:						
- with Nitrile (NBR) seal			-	0 to +100				
- with Ethylene-Propy		-	0 to +110					
- with Perfluoroelasto	- 0 to +110							
- with Fluorocarbon (FKM) seal				0 to +110				

#### Sealing

O-rings

#### TKU:

- Fluorocarbon (FKM)

#### TKM:

- Nitrile (NBR)
- Ethylene-Propylene (EPDM)
- Fluorocarbon (FKM)
- Perfluoroelastomer (FFKM)
- Bearing of ball valve
  - PTFE
- Thread gasket (BSP)
  - PTFE

#### Connection

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

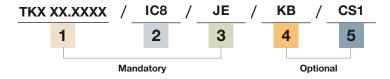
#### Construction

- Predominantly stainless steel.
- Polyamide dust caps.

# Reminder of products / diameter correspondences

- 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:

1	Standard part number to be chosen page 7
2	Material series (predominantly) Code - Stainless steel
3	Type of seal Code TKU - Fluorocarbon (FKM)
	- Nitrile (NBR)

4	Colour code	Code
	- Red	KF
	- Blue	KE
	- Black	KN
	- Yellow	K.
5	Mechanical coding	
	(TKM only)	
	- Key-lock	CS1

### Part numbers

TKU Designation	Model	Thread F	Dimensions (mm)					Weight	Part
INO Designation	Wiodei		ØD	L1	L2	Н	Flats	(kg)	numbers
Tank side: fixed end connection, female thread, supplied with polyamide protective dust cap	TKU38	BSP 1 ½"	107	153	125	-	50	2.9	TKU38.1107
		NPT 1 ½"	107	153	125	-	50	2.9	TKU38.1207
H/flats	TKU50	BSP 2"	133	186	149	68	-	4.0	TKU50.1108
		NPT 2"	133	186	149	68	-	4.9	TKU50.1208
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		BSP 3"	209	396	291	100	-	20.1	TKU80.110A
		NPT 3"	209	396	291	100	-	20.4	TKU80.120A

TKU Designation		Thus and E	Dimensions (mm)					Weight	Part
TKU Designation	Model	Thread F	ØD	L1	L2	Н	Flats	(kg)	numbers
Hose side: rotating end connection, female thread, supplied with polyamide protective dust cap		BSP 1 ½"	107	153	125	-	50	2.9	TKU38.7107
		NPT 1 ½"	107	153	125	-	50	2.9	TKU38.7207
protective dust cap	TKU50	BSP 2"	133	186	149	68	-	4.0	TKU50.7108
H/flats		NPT 2"	133	186	149	68	-	4.9	TKU50.7208
- 10 Mac	TKU80	BSP 3"	209	396	291	100	-	20.1	TKU80.710A
00 P		NPT 3"	209	396	291	100	-	20.4	TKU80.720A

TKM Designation		Thread F	Dimensions (mm)					Weight	Part
	Model	I III eau F	ØD	L1	L2	Н	Flats	(kg)	numbers
Tank side: fixed end connection, female thread,	TKM25	BSP 1"	91	143	108	-	32	1.9	TKM25.1105
supplied with polyamide protective dust cap		NPT 1"	91	143	108	-	36	1.9	TKM25.1205
H/flats	ТКМ38	BSP 1 ½"	107	153	125	-	50	2.9	TKM38.1107
		NPT 1 ½"	107	153	125	-	50	2.9	TKM38.1207

TKM Designation		Thus and E	Dimensions (mm)					Weight	Part
TKM Designation	Model	Thread F	ØD	L1	L2	Н	Flats	(kg)	numbers
Hose side (seal interface location): rotating	TKM25	BSP 1"	91	143	108	-	32	1.9	TKM25.7105
end connection, female thread, supplied with polyamide protective dust cap		NPT 1"	91	143	108	-	36	1.9	TKM25.7205
polyamide protective dust cap	TKM38	BSP 1 ½"	107	153	125	-	50	2.9	TKM38.7107
H/flats		NPT 1 ½"	107	153	125	-	50	2.9	TKM38.7207
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