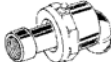
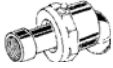
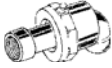



















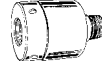
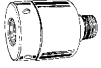








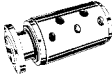
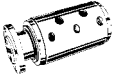
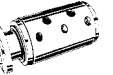
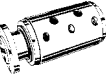






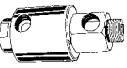



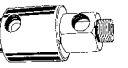


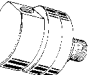

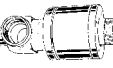

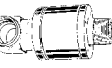

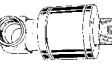




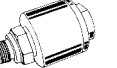









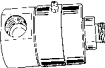


# INDUSTRIAL FITTINGS - couplings

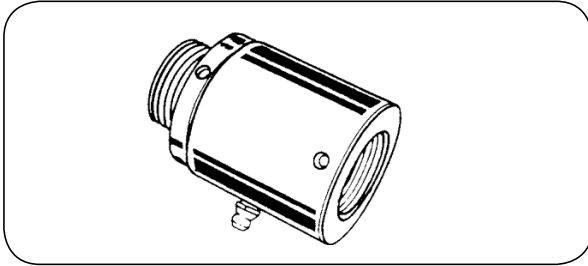
## GT swivel joints

GT swivel joints are designed for fixed installations or flexible hose assembly connections, where rotary movements or oscillations between certain installation parts take place. While choosing a swivel joint one has to take into consideration medium, working pressure, temperature, frequency of rotation (r.p.m.) or oscillations, number of ports in multiconnection joints. For proper selection, please contact Sales or Technical Department of TUBES INTERNATIONAL®.

series	water	air	vacuum	steam	hot oil	hydraulic oil	pressure [bar]
400 4200							25
1000							25
1000-2							25
BR							25
1800 SR 1800 SRDE							350 700
1200 SR/SR2 1400 SR							350
MC MC R2 MC RVR							400 12
BATR BATR VR							400 12
1600 1600 B							200
3 S							10
800 SR3 900 SR3							20
800 SR4 900 SR4							50
800 SR5							50
600-700 (EX 3S)							250

# INDUSTRIAL FITTINGS - couplings

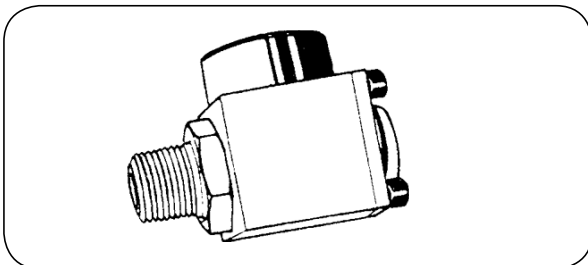
## GT swivel joints



### 1000

**Material:** Nickel-plated steel, AISI 316L  
**Seal:** PTFE  
**Working temp.:** Up to +200°C  
**Thread:** BSP female thread, BSP male thread  
**Rotation:** Slow, swivelling

nickel-plated steel			AISI 316L		
code	thread size [inch]	working pressure [bar]	code	thread size [inch]	working pressure [bar]
GT-1013-K	1/4	50	GT-1013-I	1/4	20
GT-1017-K	3/8	50	GT-1017-I	3/8	20
GT-1021-K	1/2	50	GT-1021-I	1/2	20
GT-1027-K	3/4	50	GT-1027-I	3/4	20
GT-1034-K	1	30	GT-1034-I	1	15
GT-1042-K	1.1/4	30	GT-1042-I	1.1/4	15
GT-1049-K	1.1/2	30	GT-1049-I	1.1/2	15
GT-1060-K	2	20	GT-1060-I	2	10
GT-1076-K	2.1/2	20	GT-1076-I	2.1/2	10
GT-1090-K	3	20	GT-1090-I	3	10



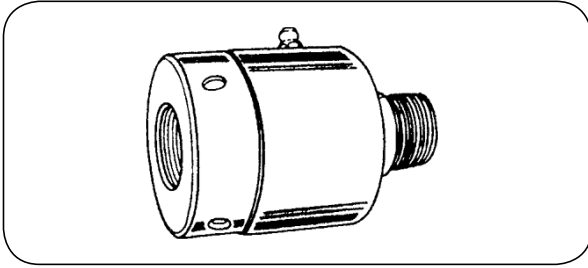
### 1200 SR

**Material:** Steel, nickel-plated steel, AISI 316L  
**Seal:** NBR, Viton, PTFE  
**Working temp.:** Up to +150°C (+120°C for AISI 316L)  
**Thread:** BSP female thread, BSPT male thread  
**Rotation:** Slow, swivelling

nickel-plated steel			AISI 316L		
code	thread size [inch]	working pressure [bar]	code	thread size [inch]	working pressure [bar]
GT-1213-SRK	1/4	350	GT-1213-SRI	1/4	175
GT-1217-SRK	3/8	350	GT-1217-SRI	3/8	175
GT-1221-SRK	1/2	300	GT-1221-SRI	1/2	150
GT-1227-SRK	3/4	300	GT-1227-SRI	3/4	150
GT-1234-SRK	1	250	GT-1234-SRI	1	125
GT-1242-SRK	1.1/4	250	GT-1242-SRI	1.1/4	125
GT-1249-SRK	1.1/2	200	GT-1249-SRI	1.1/2	100

# INDUSTRIAL FITTINGS - couplings

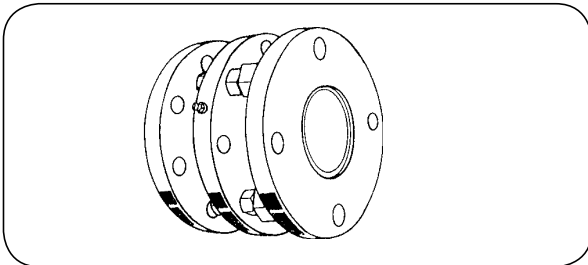
## GT swivel joints



### 1800 SR

**Material:** Steel, nickel-plated steel, AISI 316L  
**Seal:** NBR, Viton, PTFE  
**Working temp.:** Up to +200°C (+120°C for AISI 316L)  
**Thread:** BSP female thread, BSPT male thread  
**Rotation:** Slow, swivelling

nickel-plated steel			AISI 316L		
code	thread size [inch]	working pressure [bar]	code	thread size [inch]	working pressure [bar]
GT-1813-SRK	1/4	350	GT-1813-SRI	1/4	175
GT-1817-SRK	3/8	350	GT-1817-SRI	3/8	175
GT-1821-SRK	1/2	300	GT-1821-SRI	1/2	150
GT-1827-SRK	3/4	300	GT-1827-SRI	3/4	150
GT-1834-SRK	1	250	GT-1834-SRI	1	125
GT-1842-SRK	1.1/4	250	GT-1842-SRI	1.1/4	125
GT-1849-SRK	1.1/2	200	GT-1849-SRI	1.1/2	100
GT-1860-SRK	2	200	GT-1860-SRI	2	100
GT-1876-SRK	2.1/2	150	GT-1876-SRI	2.1/2	75
GT-1890-SRK	3	150	GT-1890-SRI	3	75



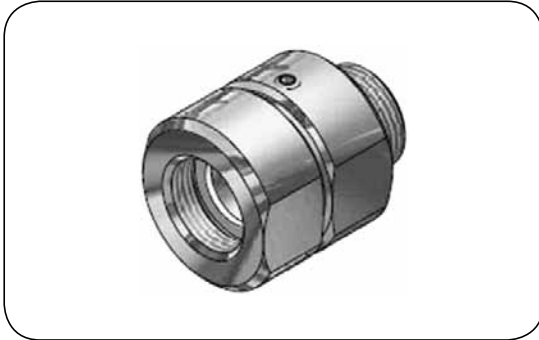
### BR

**Material:** Nickel-plated steel, AISI 316L  
**Seal:** PTFE  
**Working temp.:** Up to +200°C (+120°C for AISI 316L)  
**Pressure:** Up to 20 bar (depends on diameter)  
**Connections:** Flange  
**Rotation:** Slow, swivelling

nickel-plated steel			AISI 316L		
code	size [inch]	flange	code	size [inch]	flange
GT-BR050-K	2	PN 16	GT-BR050-I	2	PN 16
GT-BR066-K	2.1/2	PN 16	GT-BR066-I	2.1/2	PN 16
GT-BR080-K	3	PN 16	GT-BR080-I	3	PN 16
GT-BR100-K	4	PN 16	GT-BR100-I	4	PN 16
GT-BR125-K	5	PN 16	GT-BR125-I	5	PN 16
GT-BR150-K	6	PN 16	GT-BR150-I	6	PN 16
GT-BR175-K	7	PN 10	GT-BR175-I	7	PN 10
GT-BR200-K	8	PN 10	GT-BR200-I	8	PN 10
GT-BR250-K	10	PN 10	GT-BR250-I	10	PN 10
GT-BR300-K	12	PN 10	GT-BR300-I	12	PN 10

# INDUSTRIAL FITTINGS - couplings

## SJ swivel joints



**Material:** AISI 316, brass, aluminium  
**Connections:** BSP, NPT, BSPT, ACME, groove couplings, butt weld, DIN, ASA, TW, TTMA flanges  
**Working press.:** 20 bar (single ball bearing coupling)  
**Working temp.:** From -40°C up to +250°C

Swivel joint designed for fixed installations or flexible hose assemblies where transfer of torsional moment to other installation parts must be prevented. Widely used in chemical and petrochemical industry. Are not resistant to large bending moment (in cases swivel joints with double ball bearing are recommended - heavy duty type).

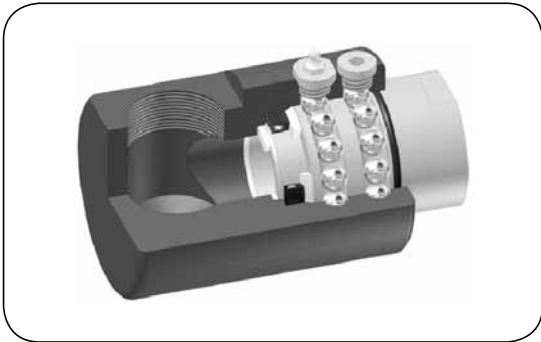
Couplings meet the requirements of pressure directive 97/23/EC (PED), TDT, TÜV, Apragaz.

code	connection* [BSP]	working press. [bar]	material	seal	
				O-ring	thread
MK-ZO-D01011401B	3/4" female thread	10	aluminium	Viton	PUR
MK-ZO-D01012401B		20	brass		PUR
MK-ZO-D01014401A			AISI 316		PTFE
MK-ZO-D03031401B	1" female thread	10	aluminium		PUR
MK-ZO-D03032401B		20	brass		PUR
MK-ZO-D03034401A			AISI 316		PTFE
MK-ZO-D05051401B	1.1/4" female thread	10	aluminium		PUR
MK-ZO-D05052401B		20	brass		PUR
MK-ZO-D05054401A			AISI 316		PTFE
MK-ZO-D07071401B	1.1/2" female thread	10	aluminium		PUR
MK-ZO-D07072401B		20	brass		PUR
MK-ZO-D07074401A			AISI 316		PTFE
MK-ZO-D10101401B	2" female thread	10	aluminium		PUR
MK-ZO-D10102401B		20	brass		PUR
MK-ZO-D10104401A			AISI 316		PTFE
MK-ZO-D12121401B	2.1/2" female thread	10	aluminium		PUR
MK-ZO-D12122401B		20	brass		PUR
MK-ZO-D12124401A			AISI 316		PTFE
MK-ZO-D14141401B	3" female thread	10	aluminium		PUR
MK-ZO-D14142401B		20	brass		PUR
MK-ZO-D14144401A			AISI 316	PTFE	
MK-ZO-D16161401B	4" female thread	10	aluminium	PUR	
MK-ZO-D16162401B		20	brass	PUR	
MK-ZO-D16164401A			AISI 316	PTFE	

\* - female/male and male/male threads are available on request.

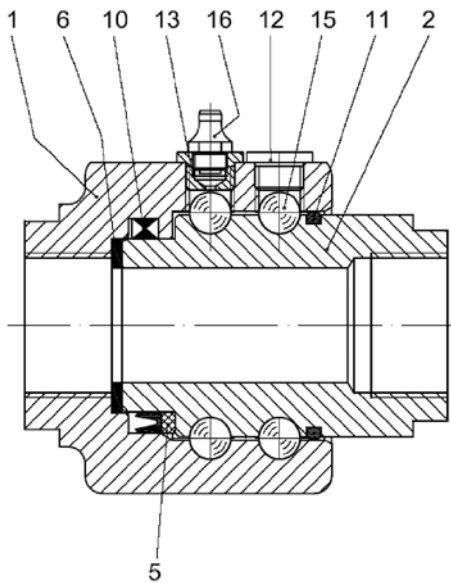
# INDUSTRIAL FITTINGS - couplings

## Swivel joints - T type



**Material:** Carbon steel 42CrMo4, or AISI 316Ti  
**Seal:** NBR, PU, PTFE  
**Connections:** BSP, BSPT, NPT female  
**Working press.:** Up to 420 bar - carbon steel  
                           Up to 100 bar - AISI316Ti  
**Working temp.:** Up to +250°C  
**Rotation:** Up to 80 r.p.m.

T type swivel joint designed to connect pipelines, installations and hose assemblies, in which swivelling or oscillatory movements between parts occur. Used in chemical, petrochemical, papermaking industry, etc. T type swivel joints are available from 1/4" to 2". Three versions: straight (10 type), angle type (11 type), and double angle type (type 12). During selection process, consider: medium, working pressure, frequency of rotation and oscillatory speed. Please contact Sales or Technical Department of TUBES INTERNATIONAL® for proper selection.



- 1 - immovable part
- 2 - swivelling part
- 5 - stabilizing ring
- 6 - scraper ring
- 10 - main seal
- 11 - seal
- 12 - blank cap
- 13 - blank cap
- 15 - balls
- 16 - lubricator



10 type



11 type



12 type