Tridon® pipe couplings

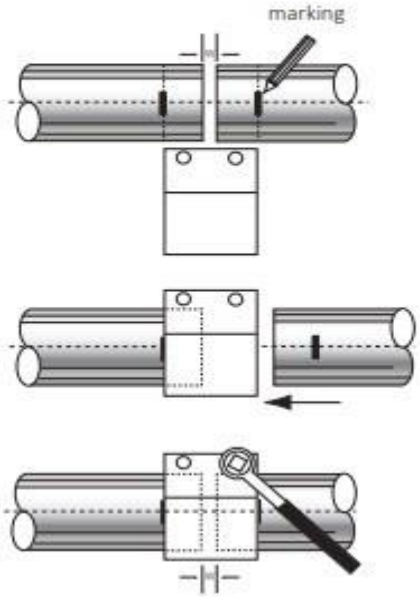
Our Tridon® pipe couplings provide secure fixing on all types of plastic and metal fixed pipes. These products are used in various industries, but most often on water pipes. Our pipe couplings are available in nearly any size you wish for.

CHARACTERISTICS OF PRODUCT

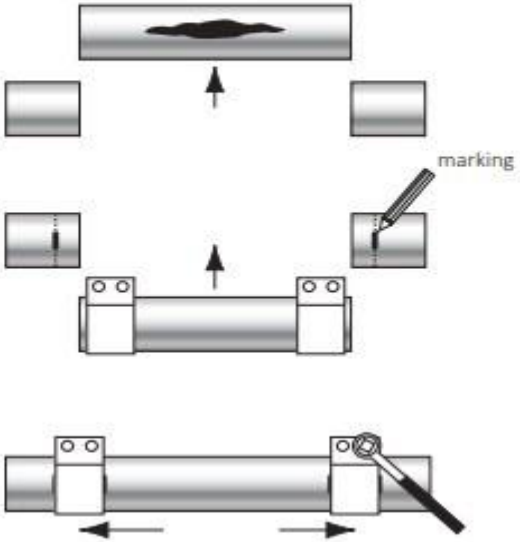
* Assembly type saves work time.
* Applicable to various pipe materials, even connects pipes of different materials (e.g., steel pipe + PVC pipe).
* Using a (torque) wrench to install eliminates worry about fire.
* No preprocessing is necessary at pipe ends (no groove, no thread, etc.).
* Rubber gaskets accommodate vibra□on, impact, noise, angular deflec□on, and gap between pipe ends. This makes couplings seismic design.
* Installatioon is done on one side. It enables products to be stored or work to be done in a narrow area.
* Stainless steel design is much lighter than cast iron products, reducing the load on pipelines.
* Grip type couplings resist axial movement.
* Slip (flexible) type couplings allow pipe expansion and contrac□on.
* Repair clamps provide semi-permanent repair with speed and no downtime.
* Couplings can be assembled and disassembled several times.

INSTALLATION METHOD

■ PIPE CONNECTION



■ PARTIAL REPLACEMENT

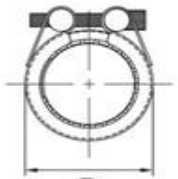


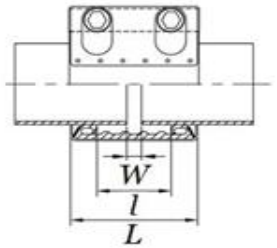
Material and Characteristics of Gasket

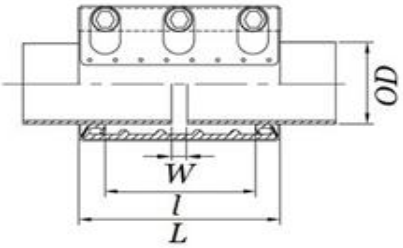
EPDM ethylene propylene diene monomer	• Characteristics: weather/ ozone/ alkali resistance • Temperature: -40~140℃ • Use: **potable water**, sewage, salt water(brine), seawater / air, oxygen(cold), hydrogen, ammonia gas, ozone, carbon dioxide, nitrogen / ethanol(ethyl alcohol), ethylene glycol, methanol(methyl alcohol), propylene glycol, propylene oxide / ammonium hydroxide, acetic acid(30%), glacial acetic acid, sodium acetate, boric acid, hydrochloric acid(cold), sulfuric acid(dilute), etc.
NBR nitrile butadiene rubber	• Characteristics: **oil**/ abrasion resistance • Temperature: -30~120℃ • Use: **oil & gas** (crude oil, gasoline, kerosene, light oil, heavy oil, bunker fuel, hydraulic oil, lubricating oil, turbine oil / natural gas, LNG, LPG, butane) / **potable water**, sewage, wastewater, salt water(brine), seawater / air, hydrogen, ammonia gas(cold), carbon dioxide, nitrogen / ethanol(ethyl alcohol), ethylene, ethylene glycol, hexane, methanol(methyl alcohol), octane / boric acid, fatty acid, etc.
Silicone	• Characteristic: **heat**/ cold/ weather resistance • Temperature: -40~**200**℃ • Use: **high-temperature line** / sewage, salt water(brine), seawater / air, oxygen, ammonia gas, ozone, nitrogen / ethylene glycol, methanol(methyl alcohol) / ammonium hydroxide, acetic acid(30%), glacial acetic acid, boric acid, etc.
FKM/FPM *(often referred to as Viton)* fluoro -elastomer	• Characteristic: aging/ ozone/ **heat/ oil/ chemical/ medicine**/ acid resistance • Temperature: -18~250℃ (Special FKM: steam ~200℃) • Use: sewage, wastewater, salt water(brine), seawater / air, oxygen, hydrogen, chlorine, ozone, carbon dioxide, nitrogen / crude oil, gasoline, kerosene, light oil, heavy oil, bunker fuel, hydraulic oil, lubricating oil, turbine oil / natural gas, LNG, LPG, butane, propylene / benzene, cresol, ethanol(ethyl alcohol), ethylene, ethylene dichloride, ethylene glycol, hexane, naphthalene, octane, styrene, toluene(methyl benzene) / aqua regia, chlorine dioxide, boric acid, fatty acid, hydrochloric acid, nitric acid, phthalic acid, sulfuric acid, etc.

※ Gaskets should be selected according to the fluid type, temperature, etc.
※ Users should test the suitability of gaskets under their specific operating conditions.
※ Gaskets are consumables in all piping, expecially in steam lines.

GRIP TYPE COUPLING - FOR MID PRESSURE







Grip Type Coupling is axially restrained - its double grip rings hold pipes tightly and prevent them from moving or separating from each other. This is an economical alternative to conventional piping methods such as welding, flanges, groove joints, unions, etc.

■ UCONG 15A~400A / UCONGL 15A~300A

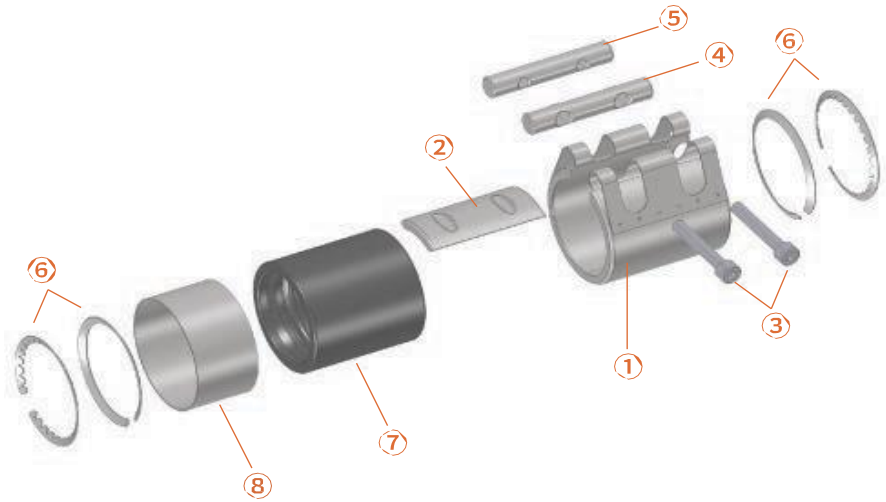
Pipe OD			D (㎜)	Coupling Range (㎜)	Thick. (㎜)	Working Pressure (bar)		UCONG				UCONGL			
								Length (㎜)		Torque	Bolt	Length (㎜)		Torque	Bolt
ND	inch	actual(㎜)				Ship	Ind.	*L*	l	(Nm)	(M)	*L*	l	(Nm)	(M)
15A	1/2	20	33.5	19.5 ~ 20.5	0.8	16	32	60	28	7	6	100	68	7	6
		21.7	35.2	21.2 ~ 22.0	0.8	16	32	60	28	7	6	100	68	7	6
		22.2	35.7	21.2 ~ 22.5	0.8	16	32	60	28	7	6	100	68	7	6
20A	3/4	25	38.5	24.5 ~ 25.5	0.8	16	32	60	28	8	8	100	68	8	6
		27.2	40.7	26.7 ~ 27.7	0.8	16	32	60	28	8	8	100	68	8	6
		28.2	41.6	27.5 ~ 29.0	0.8	16	32	60	28	8	8	100	68	8	6
25A	1	30	43.5	29.5 ~ 30.5	0.8	16	32	60	28	8	8	100	68	8	8
		32	45.5	31.5 ~ 32.5	0.8	16	32	60	28	8	8	100	68	8	8
		34	47.5	33.0 ~ 34.6	0.8	16	32	60	28	8	8	100	68	8	8
		35	48.5	34.5 ~ 35.5	0.8	16	32	60	28	8	8	100	68	8	8
32A	1 1/4	38	51.5	37.5 ~ 38.5	0.8	16	32	60	28	15	8	100	68	15	8
		40.9	54.2	39.5 ~ 41.5	0.8	16	32	60	28	15	8	100	68	15	8

Pipe OD			D (㎜)	Coupling Range (㎜)	Thick. (㎜)	Working Pressure (bar)		UCONG				UCONGL			
								Length (㎜)		Torque	Bolt	Length (㎜)		Torque	Bolt
ND	inch	actual(㎜)				Ship	Ind.	*L*	l	(Nm)	(M)	*L*	l	(Nm)	(M)
		42.7	56.0	41.9 ~ 43.0	0.8	16	32	60	28	15	8	100	68	15	8
		44.5	58.0	44.0 ~ 45.0	0.8	16	32	60	28	15	8	100	68	15	8
40A	1 1/2	48.6	62.0	47.8 ~ 49.0	0.8	16	32	60	28	15	8	100	68	15	8
		50.8	64.5	49.5 ~ 51.5	0.8	16	32	60	28	15	8	100	68	15	8
50A	2	54	69.6	53.4 ~ 54.6	1	16	32	80	44	18	8	150	110	18	8
		57	72.6	56.4 ~ 57.6	1	16	32	80	44	18	8	150	110	18	8
		60.5	76.0	59.0 ~ 61.5	1	16	32	80	44	18	8	150	110	18	8
		63	78.6	62.4 ~ 63.6	1	16	32	80	44	18	8	150	110	18	8
65A	2 1/2	66.7	82.3	65.2 ~ 67.3	1	14	28	80	44	18	8	150	110	18	8
		69	84.6	68.0 ~ 70.1	1	14	28	80	44	18	8	150	110	18	8
		73	88.6	71.5 ~ 74.1	1	14	28	80	44	18	8	150	110	18	8
		76.3	92.0	75.0 ~ 77.2	1	14	28	80	44	18	8	150	110	18	8
80A	3	79.9	101.0	78.8 ~ 80.8	1	14	28	110	59	35	12	200	150	35	12
		84	105.0	83.0 ~ 84.9	1	14	28	110	59	35	12	200	150	35	12
		89.1	110.0	87.8 ~ 91.0	1	14	28	110	59	35	12	200	150	35	12
90A	3 1/2	101.6	123.0	100.4 ~ 102.6	1	14	28	110	59	35	12	200	150	35	12
100A	4	104	125.0	103.0 ~ 104.8	1	14	28	110	59	35	12	200	150	35	12
		106.3	127.3	105.0 ~ 107.4	1	14	28	110	59	35	12	200	150	35	12
		108	129.0	106.5 ~ 108.5	1	14	28	110	59	35	12	200	150	35	12
		110	131.0	108.5 ~ 111.0	1	14	28	110	59	35	12	200	150	35	12
		114.3	135.3	113.2 ~ 115.4	1	14	28	110	59	35	12	200	150	35	12
125A	5	125	147.0	123.0 ~ 126.0	1.5	14	28	111	59	45	12	201	150	45	12

Pipe OD			D (㎜)	Coupling Range (㎜)	Thick. (㎜)	Working Pressure (bar)		UCONG				UCONGL			
								Length (㎜)		Torque	Bolt	Length (㎜)		Torque	Bolt
ND	inch	actual(㎜)				Ship	Ind.	*L*	l	(Nm)	(M)	*L*	l	(Nm)	(M)
		127	149.0	125.6 ~ 128.4	1.5	14	28	111	59	45	12	201	150	45	12
		129	151.0	127.5 ~ 130.0	1.5	14	28	111	59	45	12	201	150	45	12
		130.2	152.2	128.8 ~ 131.6	1.5	14	28	111	59	45	12	201	150	45	12
		133	155.0	131.6 ~ 134.4	1.5	14	28	111	59	45	12	201	150	45	12
		139.8	162.0	137.7 ~ 140.9	1.5	14	28	111	59	45	12	201	150	45	12
		141.3	163.3	139.7 ~ 142.5	1.5	14	28	111	59	45	12	201	150	45	12
150A	6	150	172.0	147.5 ~ 151.0	1.5	12	24	111	59	45	12	201	150	45	12
		154	176.0	151.5 ~ 155.0	1.5	12	24	111	59	45	12	201	150	45	12
		159	181.0	156.5 ~ 160.0	1.5	12	24	111	59	45	12	201	150	45	12
		165.2	187.0	163.3 ~ 166.7	1.5	12	24	111	59	45	12	201	150	45	12
		168.3	190.3	166.6 ~ 170.0	1.5	12	24	111	59	45	12	201	150	45	12
175A	7	180	202.0	178.0 ~ 182.0	1.5	10	20	111	59	45	12	-	-	-	-
200A	8	200	226.6	198.2 ~ 201.5	2	8	16	150	89	70	14	-	-	-	-
		204	230.6	202.7 ~ 206.7	2	8	16	150	89	70	14	-	-	-	-
		216.3	243.0	214.5 ~ 218.3	2	8	16	150	89	70	14	250	185	70	16
		219.1	245.7	217.0 ~ 221.0	2	8	16	150	89	70	14	250	185	70	16
250A	10	254	280.6	251.4 ~ 256.6	2	8	16	150	89	70	14	-	-	-	-
		267.4	294.0	264.8 ~ 270.0	2	8	16	150	89	70	14	250	185	70	16
		273.1	299.7	270.4 ~ 275.6	2	8	16	150	89	70	14	250	185	70	16
300A	12	304	330.6	301.5 ~ 306.6	2	7	14	150	89	70	14	-	-	-	-
		318.5	345.0	316.0 ~ 322.0	2	7	14	150	89	70	14	250	185	70	16
		323.9	350.5	321.0 ~ 327.4	2	7	14	150	89	70	14	250	185	70	16

Pipe OD			D (㎜)	Coupling Range (㎜)	Thick. (㎜)	Working Pressure (bar)		UCONG				UCONGL			
								Length (㎜)		Torque	Bolt	Length (㎜)		Torque	Bolt
ND	inch	actual(㎜)				Ship	Ind.	*L*	l	(Nm)	(M)	*L*	l	(Nm)	(M)
350A	14	355.6	382.2	352.0 ~ 360.0	2	7	14	150	89	70	14	-	-	-	-
400A	16	406.4	433.0	402.0 ~ 410.0	2	6	12	150	89	70	14	-	-	-	-

NAME AND MATERIAL OF EACH PART



① Casing SUS304, SUS316

② Slide SUS304, SUS316

③ Bolt SUS304, SUS316, SCM435 galv.

④ Bar Washer SUS303F, SUS304, SUS316, S45C galv.

⑤ Bar Nut SUS303F, SUS304, SUS316, S45C galv.

⑥ Grip Ring SUS301H, SUS304H (grip types only)

⑦ Gasket EPDM, NBR, Silicone, FKM(Viton)

⑧ Strip Insert SUS304, SUS316 (option for straight pipe coupling & clamp)

* SUS = STS = stainless steel