

The Axially Restraining Coupling Technical Revolution of Pipe Coupling!!



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STATUS OF ISO & CLASS TYPE APPROVAL

“ISO 9001” APPROVED BY LLOYD(LRQA)

- YOUNGNAM(YN) IS THE FIRST COMPANY WHO ACQUIRED ISO 9001 BY LRQA IN PIPE COUPLING MANUFACTURERS
- TYPE APPROVAL ACQUIRED BY CLASS SOCIETIES

TYPE APPROVAL CERTIFICATES FOR YN COUPLINGS



(LR)



(ABS)



(KR)



(GL)



(BV)



(RINA)



(CCS)



(NKK)



(DNV)

REVOLUTION OF PIPING CONNECTIONS BY PIPE COUPLINGS!!

TECHNOLOGICAL REVOLUTION IN PIPE COUPLINGS FOR NEW INSTALLATION & REPAIR OF PIPE LINES.

1. SHORTENING OF WORK TIME
2. ULTIMATE ECONOMIC EFFECT BY SAVING OF RAW MATERIAL
3. EASY APPLICATION FOR NEW INSTALLATION & REPAIR
4. DURABLE LIFE SPAN

*“Brings you a revolution in piping technology
for various industries hereafter”*

COUPLING FOR NEW INSTALLATION & REPAIR OF PIPELINES



MODEL 1 : GR-S
Page : 5



MODEL 2 : GR-L
Page : 5

MODEL 3 : MF-RS
Page : 6



MODEL 4 : MF-RL
Page : 6



MODEL 5 : RCH-S
Page : 7



MODEL 6 : RCH-L
Page : 7



MODEL 7 : RCD-S
Page : 8



MODEL 8 : RCD-L
Page : 8



NAME OF PARTS



No	Name of Component	Name of Component	
1	CASING	SUS : 304 / 316 / 316L	
2	RUBBER SLEEVE	EPDM	Water, Air, Powders and General Water Steam(-30℃~+100℃)
		NBR	For Natural Gas, Oil, Gasoline and Other Hydro-Carbon(-20℃~+80℃)
		SILICONE	Weather-Proof, Heat Resistance, High Insulation(-75℃~+200℃)
		VITON	Heat Resistance, Chemical Resistance(-95℃~+300℃)
3	SLIDE PLATE	SUS : 304, 316L	
4	BAR WASHER	SUS : 304, 316L	
5	BAR NUT	SUS : 304, 316L	
6	BOLT	SUS : 304, 316L	
7	GRIP RING	SUS : 304-H, SUS : 301-H	
8	INSERT PLATE	SUS : 304, PE	

※Technical Data Will be Supplied upon request and some specification will be modified to improve the quality

GRIP RING COUPLING

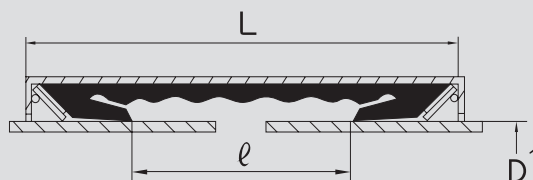
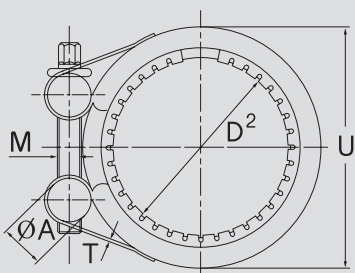
Technical Data for New Installation



MODEL 1 : GR-S
(GRIP RING STANDARD)



MODEL 2 : GR-L
(GRIP RING LONG)



GR-S

※PIPE OD SPECIFICATION BY KS/JIS

MODEL/N.D	D ₁ (O.D)	D ₂ (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf/cm)
20A	27.2	26-28	M6 X 40L X 2BOLTS	12	57	20	0.8	47	30	0.2	5~8 (50~80)
25A	34.0	33-35	M6 X 40L X 2BOLTS	12	57	20	0.8	52	30	0.25	5~8 (50~80)
32A	42.7	42-44	M8 X 45L X 2BOLTS	12	57	20	1.0	64	30	0.3	10~15 (100~150)
40A	48.6	47-49	M8 X 45L X 2BOLTS	12	57	22	1.0	68	30	0.40	10~15 (100~150)
50A	60.5	59-62	M10 X 60L X 2BOLTS	16	80	32	1.2	84	24	0.85	15~20 (150~200)
65A	76.3	75-78	M10 X 60L X 2BOLTS	16	80	30	1.2	101	24	0.90	15~20 (150~200)
80A	89.1	88-92	M12 X 70L X 2BOLTS	18	108	50	1.5	117	20	1.5	40~50 (400~500)
100A	114.3	113-117	M12 X 70L X 2BOLTS	18	108	50	1.5	142	20	1.75	40~50 (400~500)
125A	139.8	138-142	M14 X 90L X 2BOLTS	22	117	55	2.0	176	18	2.9	90~100 (900~1000)
150A	165.2	163-167	M14 X 90L X 2BOLTS	22	117	55	2.0	201	18	3.1	90~100 (900~1000)
200A	216.3	214-219	M16 X 130L X 2BOLTS	30	155	72	2.5	256	14	6.5	170~190 (1700~1900)
250A	267.4	265-270	M16 X 130L X 2BOLTS	30	155	63	2.5	300	14	7.6	170~190 (1700~1900)
300A	318.5	316-321	M18 X 140L X 2BOLTS	32	155	70	3.0	350	12	9.7	120~150 (1200~1500)
350A	355.6	353-358	M18 X 140L X 2BOLTS	32	155	68	3.0	400	12	11.4	120~150 (1200~1500)

GR-L

MODEL/N.D	D ₁ (O.D)	D ₂ (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf/cm)
25A	34.0	33-35	M8 X 45L X 3BOLTS	12	100	60	0.8	51	30	0.45	5~8 (50~80)
32A	42.7	42-44	M8 X 45L X 3BOLTS	12	100	51	1.0	62	30	0.55	10~15 (100~150)
40A	48.6	47-49	M8 X 45L X 3BOLTS	12	100	62	1.0	66	30	0.6	10~15 (100~150)
50A	60.5	59-62	M10 X 60L X 3BOLTS	16	139	85	1.2	81	24	1.3	15~20 (150~200)
65A	76.3	75-78	M10 X 60L X 3BOLTS	16	139	83	1.2	100	24	1.4	15~20 (150~200)
80A	89.1	88-92	M12 X 70L X 3BOLTS	18	203	122	1.5	115	20	2.9	40~50 (400~500)
100A	114.3	113-117	M12 X 70L X 3BOLTS	18	203	122	1.5	144	20	3.2	40~50 (400~500)
125A	139.8	138-142	M14 X 90L X 3BOLTS	22	204	128	2.0	175	18	4.8	90~100 (900~1000)
150A	165.2	163-167	M14 X 90L X 3BOLTS	22	204	128	2.0	196	18	5.2	90~100 (900~1000)
200A	216.3	214-219	M16 X 120L X 3BOLTS	30	255	161	2.5	260	14	11.0	170~190 (1700~1900)
250A	267.4	265-270	M16 X 120L X 3BOLTS	30	255	157	2.5	300	14	12.3	170~190 (1700~1900)
300A	318.5	316-321	M18 X 140L X 3BOLTS	32	255	160	3.0	350	12	14.9	120~150 (1200~1500)
350A	355.6	353-358	M18 X 140L X 3BOLTS	32	255		3.0	400	12	16.5	120~150 (1200~1500)

N.D : Nominal Diameter(A)

D₁ : Pipe outside Diameter by KS/JIS(m/m)

D₂ : Pipe Min-Max Range(m/m)

M : Tightening bolt SUS 304 or SUS 316 L

ØA : Diameter of SUS 304 or SUS 316 L

L : Length of Coupling(m/m)

l : Sealing sleeve lip's distance(m/m)

T : Thickness of SUS 304 Coupling case(m/m)

U : Coupling outside diameter(m/m)

W.P : Maximum working pressure(kg/cm²)

W : Weight per each set

P : Standard torque(Kgf · cm)

- USpecification might be changed for quality improvement
- USpecification by ASTM, DIN & ISO RULE is available.

MULTI-FLEX COUPLING

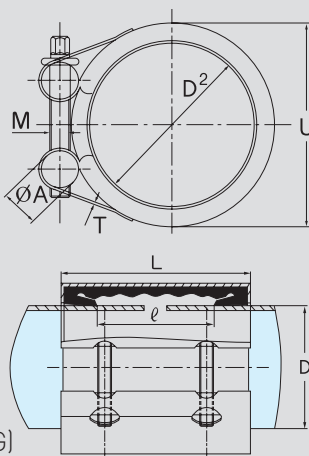
Technical Data for New Installation



MODEL 3 : MF-RS
(MULTI-FLEX ROUND STANDARD)



MODEL 4 : MF-RL
(MULTI-FLEX ROUND LONG)



MF-RS (15A~3,000A) Available

※PIPE OD SPECIFICATION BY KS/JIS

MODEL/N.D	D ¹ (O.D)	D ² (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf/cm)
15A	21.7	21~23	M6 X 40L X 2BOLTS	10	57	34	0.8	37	20	0.16	5~8 (50~80)
20A	27.2	26~28	M6 X 40L X 2BOLTS	10	57	32	0.8	46	20	0.2	5~8 (50~80)
25A	34.0	33~35	M6 X 40L X 2BOLTS	10	57	32	0.8	51	20	0.2	5~8 (50~80)
32A	42.7	42~44	M8 X 45L X 2BOLTS	12	57	32	1.0	62	20	0.3	5~10 (50~100)
40A	48.6	47~49	M8 X 45L X 2BOLTS	12	57	32	1.0	66	20	0.4	5~10 (50~101)
50A	60.5	59~62	M10 X 60L X 2BOLTS	16	80	46	1.2	81	18	0.7	10~15 (100~150)
65A	76.3	75~78	M10 X 60L X 2BOLTS	16	80	46	1.2	100	18	0.8	10~15 (100~150)
80A	89.1	88~92	M12 X 70L X 2BOLTS	18	107	65	1.5	115	16	1.5	15~20 (150~200)
100A	114.3	113~117	M12 X 70L X 2BOLTS	18	107	65	1.5	144	16	1.65	15~20 (150~200)
125A	139.8	138~142	M14 X 90L X 2BOLTS	22	107	71	2.0	175	14	2.6	25~30 (250~300)
150A	165.2	163~167	M14 X 90L X 2BOLTS	22	107	71	2.0	196	14	2.9	25~30 (250~300)
200A	216.3	214~219	M16 X 120L X 2BOLTS	30	155	80	2.5	260	12	6.4	40~80 (400~800)
250A	267.4	265~270	M16 X 120L X 2BOLTS	30	155	79	2.5	300	12	6.9	40~80 (400~800)
300A	318.5	316~321	M18 X 140L X 2BOLTS	32	155	80	3.0	350	10	8.7	80~120 (800~1200)
350A	355.6	353~358	M18 X 140L X 2BOLTS	32	155	79	3.0	400	10	9.5	80~120 (800~1200)
400A	406.4	403~408	M18 X 150L X 2BOLTS	32	155	94	3.0	450	8	10.8	80~120 (800~1200)
450A	457.2	455~461	M18 X 150L X 2BOLTS	32	155	94	3.0	500	8	11.8	80~120 (800~1200)
500A	508.0	505~512	M18 X 165L X 2BOLTS	32	155	94	3.0	550	7	12.6	120~150 (1200~1500)

MF-RL

MODEL/N.D	D ¹ (O.D)	D ² (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf/cm)
25A	34.0	33~35	M8 X 45L X 3BOLTS	12	100	70	0.8	51	20	0.45	5~8 (50~80)
32A	42.7	42~44	M8 X 45L X 3BOLTS	12	100	64	1.0	62	20	0.5	5~10 (50~100)
40A	48.6	47~49	M8 X 45L X 3BOLTS	12	100	64	1.0	66	20	0.55	5~10 (50~101)
50A	60.5	59~62	M10 X 60L X 3BOLTS	16	139	99	1.2	81	18	1.2	10~15 (100~150)
65A	76.3	75~78	M10 X 60L X 3BOLTS	16	139	99	1.2	100	18	1.3	10~15 (100~150)
80A	89.1	88~92	M12 X 70L X 3BOLTS	18	203	152	1.5	115	16	2.6	15~20 (150~200)
100A	114.3	113~117	M12 X 70L X 3BOLTS	18	203	147	1.5	144	16	3.0	15~20 (150~200)
125A	139.8	138~142	M14 X 90L X 3BOLTS	22	204	138	2.0	175	14	4.8	25~30 (250~300)
150A	165.2	163~167	M14 X 90L X 3BOLTS	22	204	138	2.0	196	14	5.4	25~30 (250~300)
200A	216.3	214~219	M16 X 120L X 3BOLTS	30	255	177	2.5	260	12	7.0	40~80 (400~800)
250A	267.4	265~270	M16 X 120L X 3BOLTS	30	255	177	2.5	300	12	11.7	40~80 (400~800)
300A	318.5	316~321	M18 X 140L X 3BOLTS	32	255	180	3.0	350	10	15	80~120 (800~1200)
350A	355.6	353~358	M18 X 140L X 3BOLTS	32	255	170	3.0	400	10	16.4	80~120 (800~1200)
400A	406.4	403~408	M18 X 150L X 3BOLTS	32	255	170	3.0	450	8	18.6	80~120 (800~1200)
450A	457.2	455~461	M18 X 150L X 3BOLTS	32	255	170	3.0	500	8	20.4	80~120 (800~1200)
500A	508.0	505~512	M18 X 165L X 3BOLTS	32	255	170	3.0	550	7	21.6	120~150 (1200~1500)

N.D : Nominal Diameter(A)

D¹ : Pipe outside Diameter by KS/JIS(m/m)

D² : Pipe Min~Max Range(m/m)

M : Tightening bolt SUS 304 or SUS 316 L

ØA : Diameter of SUS 304 or SUS 316 L

L : Length of Coupling(m/m)

l : Sealing sleeve lip's distance(m/m)

T : Thickness of SUS 304 Coupling case(m/m)

U : Coupling outside diameter(m/m)

W.P : Maximum working pressure(kg/cm²)

W : Weight per each set

P : Standard torque(Kgf · cm)

- USpecification might be changed for quality improvement
- USpecification by ASTM, DIN & ISO RULE is available.

※ 550A~3,000A available by order

REPAIR CLAMP HINGE COUPLING

Technical Data of Hinge Type Clamp

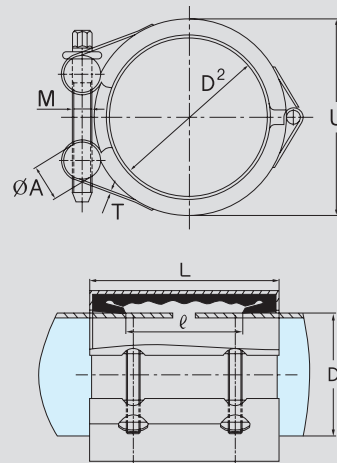
(For New Installation & Repair)



MODEL 5 : RCH-S
(REPAIR CLAMP HINGE STANDARD)



MODEL 6 : RCH-L
(REPAIR CLAMP HINGE LONG)



RCH-S (20A~3,000A) Available

※PIPE OD SPECIFICATION BY KS/JIS

MODEL/N.D	D ¹ (O.D)	D ² (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf/cm)
20A	27.2	26~28	M6 X 50L X 2BOLTS	10	57	32	0.8	46	18	0.2	3~5 (30~50)
25A	34.0	33~35	M6 X 50L X 2BOLTS	10	57	32	0.8	51	18	0.25	3~5 (30~50)
32A	42.7	42~44	M8 X 55L X 2BOLTS	12	57	32	1.0	62	18	0.35	4~6 (40~60)
40A	48.6	47~49	M8 X 55L X 2BOLTS	12	57	32	1.0	66	18	0.35	4~6 (40~60)
50A	60.5	59~62	M10 X 70L X 2BOLTS	16	80	46	1.2	81	16	0.8	8~10 (80~100)
65A	76.3	75~78	M10 X 70L X 2BOLTS	16	80	46	1.2	100	16	0.86	8~10 (80~100)
80A	89.1	88~92	M12 X 85L X 2BOLTS	18	107	65	1.5	115	14	1.6	12~15 (120~150)
100A	114.3	113~117	M12 X 85L X 2BOLTS	18	107	65	1.5	144	14	1.7	12~15 (120~150)
125A	139.8	138~142	M14 X 115L X 2BOLTS	22	117	71	2.0	175	12	2.9	20~25 (200~250)
150A	165.2	163~167	M14 X 115L X 2BOLTS	22	117	71	2.0	196	12	3.3	20~25 (200~250)
200A	216.3	214~219	M16 X 150L X 2BOLTS	30	155	80	2.5	260	10	6.7	25~30 (250~300)
250A	267.4	265~270	M16 X 150L X 2BOLTS	30	155	79	2.5	300	10	7.5	25~30 (250~300)
300A	318.5	316~321	M18 X 150L X 2BOLTS	32	155	80	3.0	350	8	9.0	40~80 (400~800)
350A	355.6	353~358	M18 X 150L X 2BOLTS	32	155	79	3.0	400	8	10.4	40~80 (400~800)
400A	406.4	403~408	M18 X 165L X 2BOLTS	32	155	94	3.0	450	7	11.0	80~100 (800~1000)
450A	457.2	455~461	M18 X 165L X 2BOLTS	32	155	94	3.0	500	7	12.8	80~100 (800~1000)
500A	508.0	505~512	M18 X 165L X 2BOLTS	32	155	94	3.0	550	6	13.6	100~120 (1000~1200)

RCH-L

MODEL/N.D	D ¹ (O.D)	D ² (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf/cm)
25A	34.0	33~35	M8 X 55L X 3BOLTS	12	100	70	0.8	51	18	0.5	3~5 (30~50)
32A	42.7	42~44	M8 X 55L X 3BOLTS	12	100	64	1.0	62	18	0.6	4~6 (40~60)
40A	48.6	47~49	M8 X 55L X 3BOLTS	12	100	64	1.0	66	18	0.65	4~6 (40~60)
50A	60.5	59~62	M10 X 70L X 3BOLTS	16	139	99	1.2	81	16	1.4	8~10 (80~100)
65A	76.3	75~78	M10 X 70L X 3BOLTS	16	139	99	1.2	100	16	1.5	8~10 (80~100)
80A	89.1	88~92	M12 X 85L X 3BOLTS	18	203	152	1.5	115	14	3.0	12~15 (120~150)
100A	114.3	113~117	M12 X 85L X 3BOLTS	18	203	147	1.5	144	14	3.3	12~15 (120~150)
125A	139.8	138~142	M14 X 115L X 3BOLTS	22	204	138	2.0	175	12	5.1	20~25 (200~250)
150A	165.2	163~167	M14 X 115L X 3BOLTS	22	204	138	2.0	196	12	5.7	20~25 (200~250)
200A	216.3	214~219	M16 X 150L X 3BOLTS	30	255	177	2.5	260	10	11.8	25~30 (250~300)
250A	267.4	265~270	M16 X 150L X 3BOLTS	30	255	177	2.5	300	10	13.1	25~30 (250~300)
300A	318.5	316~321	M18 X 150L X 3BOLTS	32	255	180	3.0	350	8	13.5	40~80 (400~800)
350A	355.6	353~358	M18 X 150L X 3BOLTS	32	255	170	3.0	400	8	18.2	40~80 (400~800)
400A	406.4	403~408	M18 X 165L X 3BOLTS	32	255	170	3.0	450	7	19.6	80~100 (800~1000)
450A	457.2	455~461	M18 X 165L X 3BOLTS	32	255	170	3.0	500	7	21.0	80~100 (800~1000)
500A	508.0	505~512	M18 X 165L X 3BOLTS	32	255	170	3.0	550	6	23.0	100~120 (1000~1200)

N.D : Nominal Diameter(A)

D¹ : Pipe outside Diameter by KS/JIS(m/m)

D² : Pipe Min~Max Range(m/m)

M : Tightening bolt SUS 304 or SUS 316 L

ØA : Diameter of SUS 304 or SUS 316 L

L : Length of Coupling(m/m)

l : Sealing sleeve lip's distance(m/m)

T : Thickness of SUS 304 Coupling case(m/m)

U : Coupling outside diameter(m/m)

W.P : Maximum working pressure(kg/cm²)

W : Weight per each set

P : Standard torque(Kgf · cm)

- USpecification might be changed for quality improvement
- USpecification by ASTM, DIN & ISO RULE is available.

※ 550A~3,000A available by order

REPAIR CLAMP DOUBLE LOCK COUPLING

Technical Data of Double Lock Type Coupling

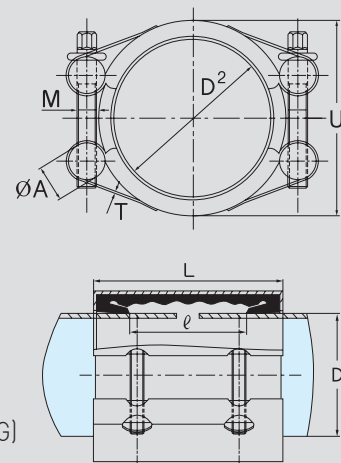
(Upper & Lower Part Type)



MODEL 7 : RCD-S
(REPAIR CLAMP DOUBLE LOCK STANDARD)



MODEL 8 : RCD-L
(REPAIR CLAMP DOUBLE LOCK LONG)



RCD-S (20A~3,000A) Available

※PIPE OD SPECIFICATION BY KS/JIS

MODEL/N.D	D ¹ (O.D)	D ² (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf·cm)
20A	27.2	26~28	M6 X 35L X 4BOLTS	10	57	32	0.8	46	20	0.3	5~8 (50~80)
25A	34.0	33~35	M6 X 35L X 4BOLTS	10	57	32	0.8	51	20	0.3	5~8 (50~80)
32A	42.7	42~44	M8 X 45L X 4BOLTS	12	57	32	1.0	62	20	0.5	8~12 (80~120)
40A	48.6	47~49	M8 X 45L X 4BOLTS	12	57	32	1.0	66	20	0.6	8~12 (80~120)
50A	60.5	59~62	M10 X 55L X 4BOLTS	16	80	46	1.2	81	18	1.1	10~15 (100~150)
65A	76.3	75~78	M10 X 55L X 4BOLTS	16	80	46	1.2	100	18	1.2	10~15 (100~150)
80A	89.1	88~92	M12 X 60L X 4BOLTS	18	107	65	1.5	115	16	2.1	15~20 (150~200)
100A	114.3	113~117	M12 X 60L X 4BOLTS	18	107	65	1.5	144	16	2.3	15~20 (150~200)
125A	139.8	138~142	M14 X 70L X 4BOLTS	22	117	71	2.0	175	14	3.6	25~30 (250~300)
150A	165.2	163~167	M14 X 70L X 4BOLTS	22	117	71	2.0	196	14	3.9	25~30 (250~300)
200A	216.3	214~219	M16 X 110L X 4BOLTS	30	155	80	2.5	260	12	8.7	40~80 (400~800)
250A	267.4	265~270	M16 X 110L X 4BOLTS	30	155	79	2.5	300	12	9.4	40~80 (400~800)
300A	318.5	316~321	M18 X 130L X 4BOLTS	32	155	80	3.0	350	10	11.9	80~120 (800~1200)
350A	355.6	353~358	M18 X 130L X 4BOLTS	32	155	79	3.0	400	10	12.4	80~120 (800~1200)
400A	406.4	403~408	M18 X 140L X 4BOLTS	32	155	94	3.0	450	8	14.3	80~120 (800~1200)
450A	457.2	455~461	M18 X 140L X 4BOLTS	32	155	94	3.0	500	8	14.8	80~120 (800~1200)
500A	508.0	505~512	M18 X 150L X 4BOLTS	32	155	94	3.0	550	7	15.9	120~150 (1200~1500)

RCD-L

MODEL/N.D	D ¹ (O.D)	D ² (RANGE)	M	ØA	L	l	T	U	W.P	W	P N.m(Kgf·cm)
25A	34.0	33~35	M8 X 45L X 6BOLTS	12	100	70	0.8	51	20	0.7	5~8 (50~80)
32A	42.7	42~44	M8 X 45L X 6BOLTS	12	100	64	1.0	62	20	0.8	8~12 (80~120)
40A	48.6	47~49	M8 X 45L X 6BOLTS	12	100	64	1.0	66	20	0.85	8~12 (80~120)
50A	60.5	59~62	M10 X 55L X 6BOLTS	16	139	99	1.2	81	18	1.8	10~15 (100~150)
65A	76.3	75~78	M10 X 55L X 6BOLTS	16	139	99	1.2	100	18	1.9	10~15 (100~150)
80A	89.1	88~92	M12 X 60L X 6BOLTS	18	203	152	1.5	115	16	3.9	15~20 (150~200)
100A	114.3	113~117	M12 X 60L X 6BOLTS	18	203	147	1.5	144	16	4.3	15~20 (150~200)
125A	139.8	138~142	M14 X 70L X 6BOLTS	22	204	138	2.0	175	14	6.5	25~30 (250~300)
150A	165.2	163~167	M14 X 70L X 6BOLTS	22	204	138	2.0	196	14	7.1	25~30 (250~300)
200A	216.3	214~219	M16 X 110L X 6BOLTS	30	255	177	2.5	260	12	15.3	40~80 (400~800)
250A	267.4	265~270	M16 X 110L X 6BOLTS	30	255	177	2.5	300	12	16.3	40~80 (400~800)
300A	318.5	316~321	M18 X 130L X 6BOLTS	32	255	180	3.0	350	10	20.1	80~120 (800~1200)
350A	355.6	353~358	M18 X 130L X 6BOLTS	32	255	170	3.0	400	10	22.9	80~120 (800~1200)
400A	406.4	403~408	M18 X 140L X 6BOLTS	32	255	170	3.0	450	8	24.0	80~120 (800~1200)
450A	457.2	455~461	M18 X 140L X 6BOLTS	32	255	170	3.0	500	8	25.8	80~120 (800~1200)
500A	508.0	505~512	M18 X 150L X 6BOLTS	32	255	170	3.0	550	7	26.5	120~150 (1200~1500)

N.D : Nominal Diameter(A)

D¹ : Pipe outside Diameter by KS/JIS(m/m)

D² : Pipe Min-Max Range(m/m)

M : Tightening bolt SUS 304 or SUS 316 L

ØA : Diameter of SUS 304 or SUS 316 L

L : Length of Coupling(m/m)

l : Sealing sleeve lip's distance(m/m)

T : Thickness of SUS 304 Coupling case(m/m)

U : Coupling outside diameter(m/m)

W.P : Maximum working pressure(kg/cm²)

W : Weight per each set

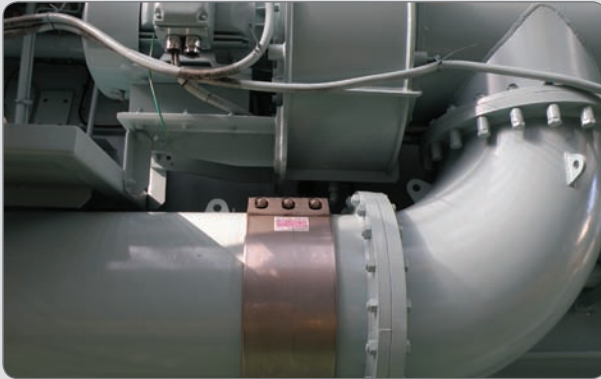
P : Standard torque(Kgf·cm)

- USpecification might be changed for quality improvement
- USpecification by ASTM, DIN & ISO RULE is available.

※550A~3,000A available by order

Y.N PIPE COUPLING NEW MODEL

WIDE LENGTH MODELS



**Y.N COUPLING
RCD-L3
(LENGTH : 300mm)
300A~3,000A**



**Y.N COUPLING
RCD-L5
(LENGTH : 500mm)
500A~4,000A**



**Y.N COUPLING
RCD-L7
(LENGTH : 700mm)
800A~5,000A**

REMARK

Y.N COUPLING LENGTH

L : 300mm L : 500mm L : 700mm

Available By Order

Y.N. PIPE COUPLING FROM MANUFACTURING TO SITE



▲ LARGE WATER SUPPLYING PIPELINES(2,800mm)



▲ HYDRO PRESSURE TEST($\phi 2,860$)



▲ WASTEWATER TREATMENT



▲ REPAIR OF A LEAKING WATER SUPPLY LINE IN AN APARTMENT BUILDING



▲ WATER WORKS



▲ UNDERGROUND REPAIR PIPELINES

Y.N. PIPE COUPLING FROM MANUFACTURING TO SITE



48" (1200) YN MF-RL
Expansion Coupling on
Air supply header from bolwer building.
Some couplings were used in
Lieu of field welding



TEST DATA FOR PIPE COUPLING

VARIOUS TEST METHOD

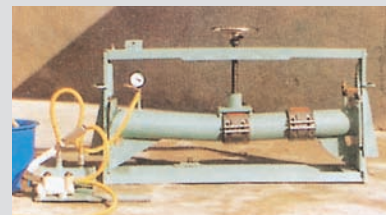
1. HYDRO PRESSURE TEST

MODEL	TESTED PRESSURE	TEST RESULT	FINAL HYDRO TEST RESULT
MF-RL 100	32kg/cm ²	5 MIN KEPT RESULT:GOOD	50kg/cm ² TESTED RESULT:GOOD



2. BENDING TEST

MODEL	TESTED PRESSURE	FINAL BENDING ANGLE	TEST RESULT
MF-RS 100	32kg/cm ²	BOTH SIDE 10°	RESULT:GOOD



3. FIRE ENDURANCE TEST

MODEL	TESTED PRESSURE	TESTED TIME	TESTED TEMPERATURE	TEST RESULT
MF-RS 100	5.0kg/cm ²	30 MIN	800°C	GOOD



TEST LABORATORY:KOREA INSTITUTE OF MACHINERY & MATERIALS
RULE APPLIED:G.L.

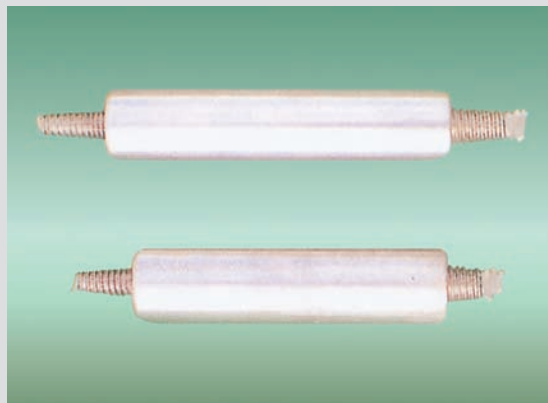
CONTENT:NO LEAKAGE & DEFORMATION OF THE PRODUCT WHEN
TESTED 30 MIN AT 800°C WITH 5.0kg/cm² CIRCULATION

TEST REPORT

· TENSILE STRENGTH FOR STAINLESS STEEL BOLTS

TEST ITEM	TEST RESULT	
	BOLT M14	BOLT M18
STRENGTH OF BOLTS(kgf/mm ²)	99	120

↓ KS B 0223('91)



· TENSILE STRENGTH FOR WELDED PARTS

TEST ITEM	TEST RESULT
LOAD FOR WELDED PATRS	5,676(kgf)

↓ KS B 0802('91)(REMARK:SPOT WELDING 6 POINT X 1.0t)



· TEST LABORATORY:INDUSTILAL TECHNOLOGY INSTITUTE OF PUSAN

TEST DATA FOR Y.N. GRIP RING PIPE COUPLING

TEST REPORT

► PULL-OUT TEST



GR-S		GR-L	
SIZE	LOAD(TON)	SIZE	LOAD(TON)
25A	0.3	100A	2.0
50A	0.6	150A	3.6
100A	2.0	300A	10.1
300A	9.5		

· TEST: VIBRATION TEST, TIGHTNESS TEST & VACUUM TEST

1. VACUUM TEST

VIBRATION TIME	NO OF CYCLES	AMPLITUDE (mm)	FREQUENCY (S ⁻¹)	RESULT
REPEAT SEQUENCE	3×10^6	+0.5	20	GOOD

2. HYDROSTATIC TIGHTNESS TEST

TIGHTNESS TEST DURING VIBRATION TEST	32kg/cm ² (2 TIMES HIGHER THAN NORMAL WORKING PRESSURE)	RESULT : GOOD
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3. PNEUMATIC VACUUM TEST

VACUUM TEST DURING VIBRATION TEST	TEST PRESSURE FOR VACUUM : 100mbar	RESULT : GOOD
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· TEST LABORATORY: KOREA INSTITUTE OF MACHINERY & MATERIALS

SCENE OF PRESSURE, VIBRATION & VACUUM TEST



TEST CONTENT: (ABOVE 1, 2, 3 PERFORMED TOGETHER)

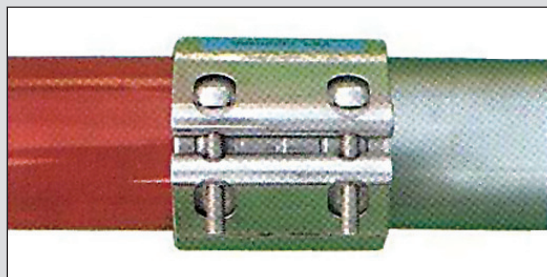
SCENE OF FIRE TEST (FLAME TEST)



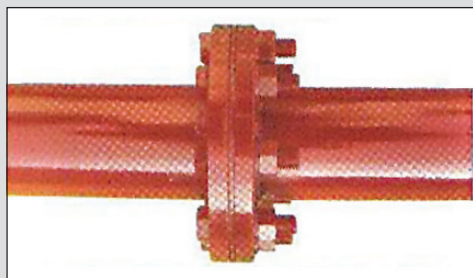
TEST CONTENT: PERFORMED 30MIN BY G.L RULE AT 800°C 5.0kg/cm² CIRCULATION

Y.N. PIPE COUPLING CONNECTION GUIDE

PIPE CONNECTION



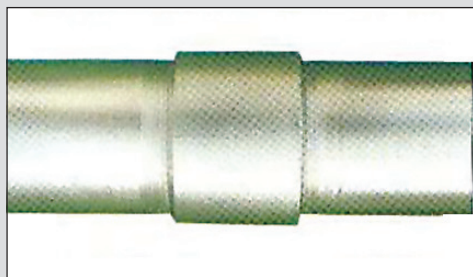
▲ MULTI FLEX COUPLING



▲ FLANGE



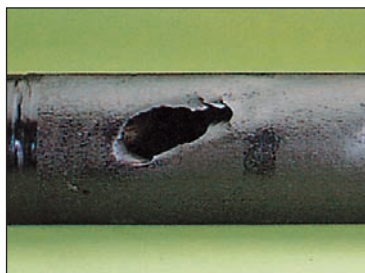
▲ UNION



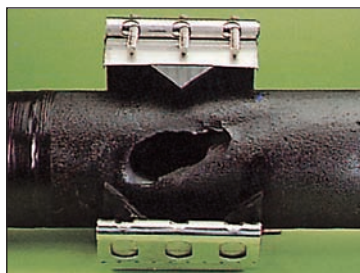
▲ SOCKET



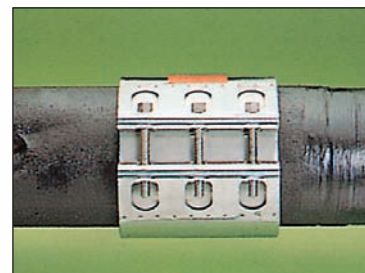
▲ WELDING



▲ HOLES ON EXISTING PIPELINE →



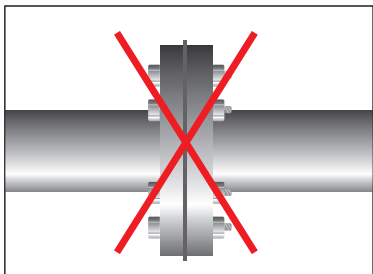
▲ COMMENCEMENT OF INSTALLATION →



▲ COMPLETION OF INSTALLATION →

OPERATING PRINCIPLE AND INSTALLATION

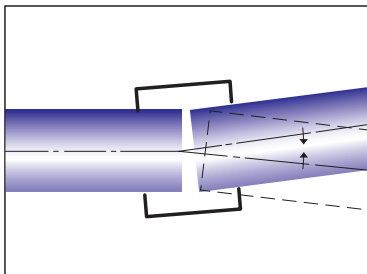
Advantage 1



YOUNGNAM GRIP RING COUPLING is simple to install.

Just cut pipe to length, position ends together and tighten bolts instead of welding, flanging, threading or grooving. One man is enough. Anyone can do it.

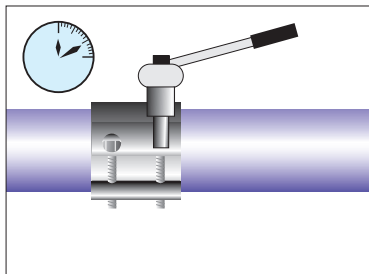
Advantage 2



YOUNGNAM GRIP RING COUPLING takes up inaccuracies.

Metal pipes are joined securely and resistant to pressure in spite of a gap between pipe ends, misaligned pipes or rough sur-faces.

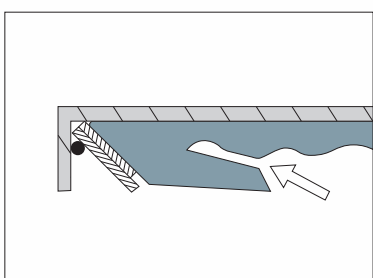
Advantage 3



YOUNGNAM GRIP RING COUPLING is ready to install immediately.

A ready-to-use pipe coupling. Fitted in a matter of minutes without heavy equipment and long setting up times.

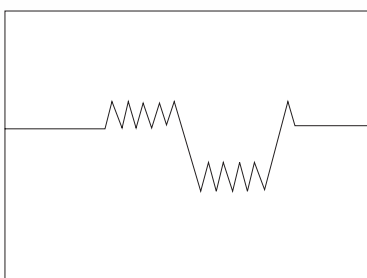
Advantage 4



YOUNGNAM GRIP RING COUPLING is long lasting.

The low-stressed sealing gasket is highly chemical resistant and provides a longterm reliable seal-ing. Corrosion-resistant metal parts.

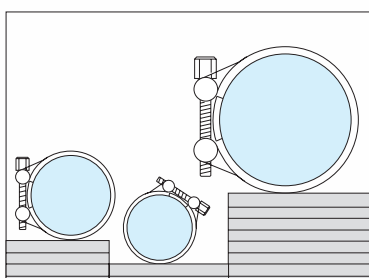
Advantage 5



YOUNGNAM GRIP RING COUPLING reliable in operation.

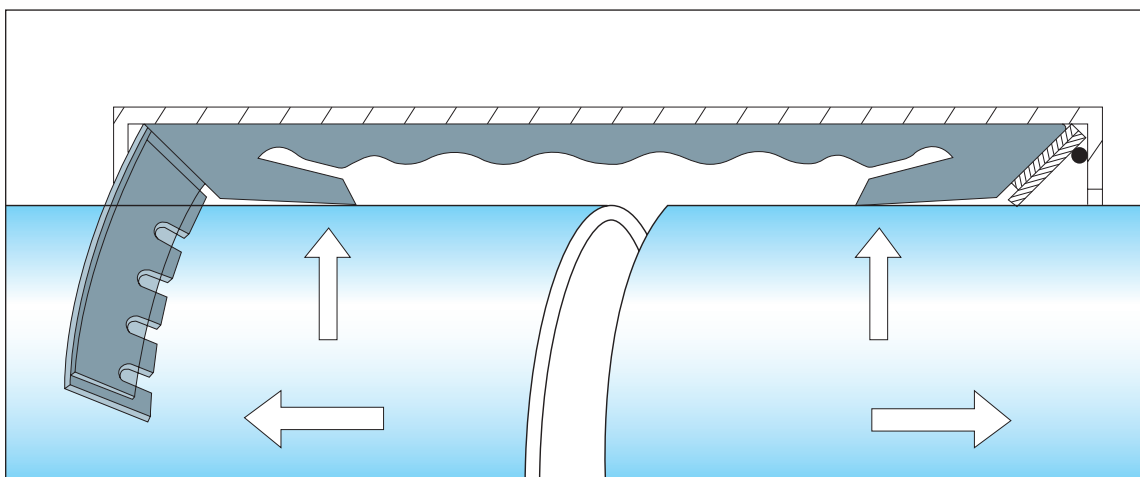
Progressive sealing effect and powerful gripping force. Dam-pens water hammer, vibration and structureborne noise. Protects pipes and other equipment.

Advantage 6



YOUNGNAM GRIP RING COUPLING saves costly space.

The compact design with only two locking points permits close pipe spacing, small diameter in-sulation and smaller openings for pipes.



APPLICATION OF PIPE COUPLING

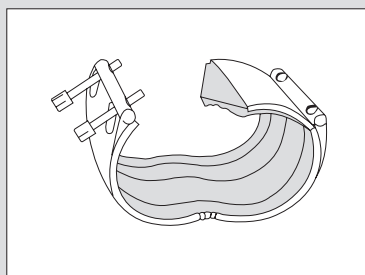
Versatile, economical

YN-Multiflex pipe couplings are used everywhere there are pipes. They can quickly join even piping of different materials. The flexible joints, requiring no special tools, are completely tight and durable. They also allow a diameter difference and a substantial inclined deviation between pipe diameters.

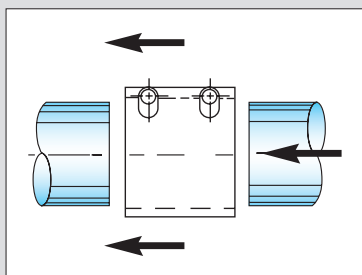
The most common applications are

- Uas flexible elements in industrial piping
- Ufor quick piping modifications used together with the YN-modules system
- Ufor connecting together pre-manufactured piping
- Uin restricted spaces and spaces with a fire risk:as a piping extension
- Uin locations where speed of construction is important
- Ufor piping susceptible to blockage
- Uin shipbuilding:to save weight and space and also to eliminate noise resonance and vibration
- Ufor connecting piping of different materials together
- Uin the stress-free construction of under ground metal piping containing pressure
- Ufor fast and reliable repair of all types of piping

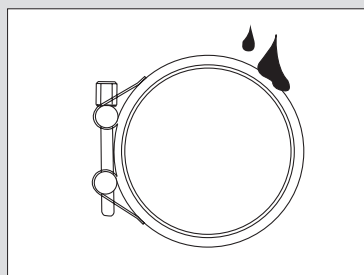
YN-Multiflex couplings have many advantages



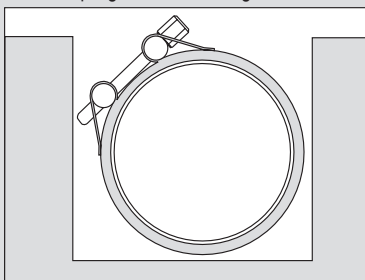
1) Suitable for new building and repair work. The piping can be quickly disassembled and the couplings can be used again.



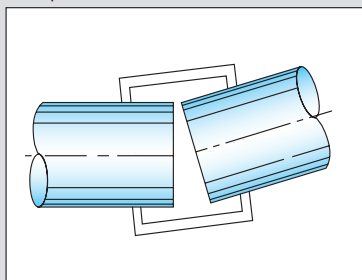
2) Installation is fast and troublefree. Neither special tools nor expertise are required.



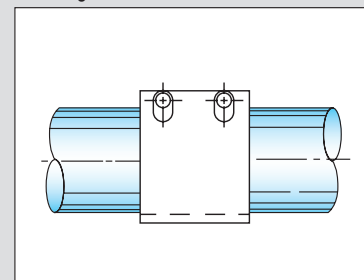
3) Completely corrosion-free construction. Only the rubber sealing is in contact with the flowing media.



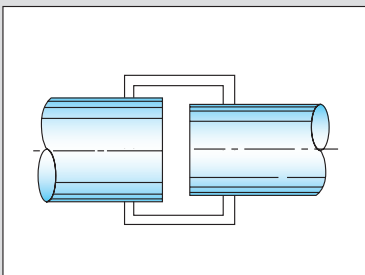
4) Light weight space-saving construction. Easy to install even in restricted spaces.



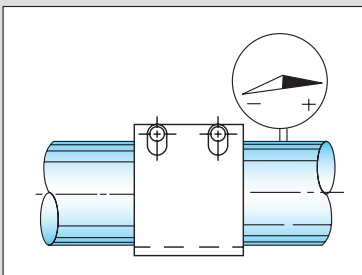
5) YN-Multiflex pipe couplings allow a maximum inclined deviation of 10°



6) The coupling acts as a flexible compensator for movements caused by heat and also effectively dampens vibration.



7) The difference in diameters between the pipes to be joined maybe 4mm and the coupling is suitable for all piping materials.



8) By virtue of its construction, the coupling is just as reliable in piping containing pressure above or below atmospheric pressure.

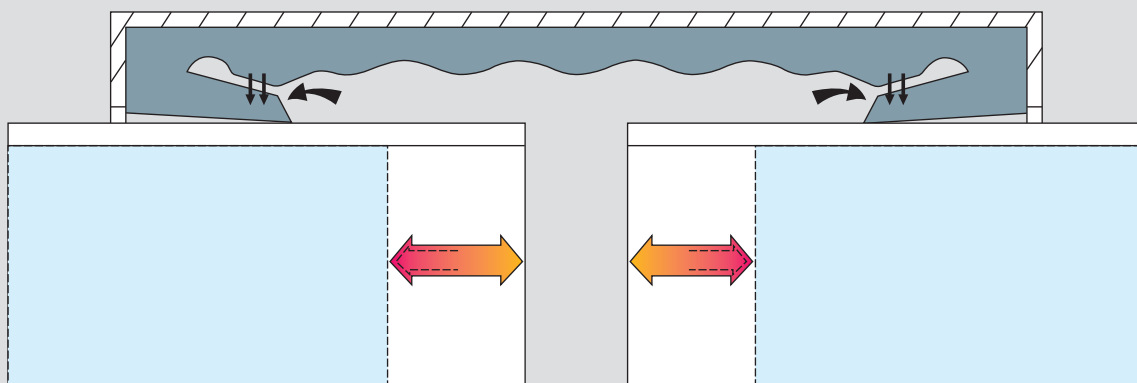
YN-Multiflex couplings produce a fast and flexible joint which lengthens the lifetime of the piping and lowers maintenance costs.

OPERATING PRINCIPLE AND INSTALLATION

Sealing

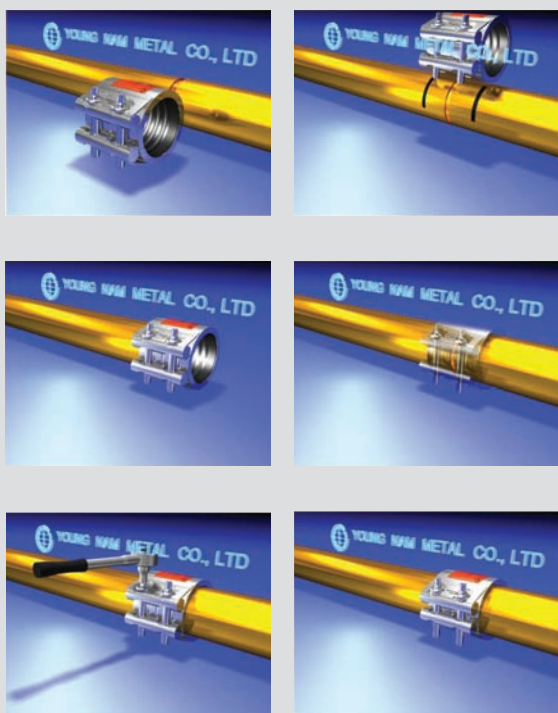
The elastic lip of the seal is tightly pressed against the outer surface of even an irregularly-shaped pipe by means of pilot holes. The internal pressure of the pipe bears upon the rear side of the lip so that pressure increases improve the sealing properties. In the centre of the seal is a raised rubber stopper. This acts as a stiff-

ener for the seal when pipe contents are below atmospheric pressure and separates the pipe ends from each other. The waved form of the internal surface of the seal prevents it from being sucked into the pipe when pipe contents are below atmospheric pressure.

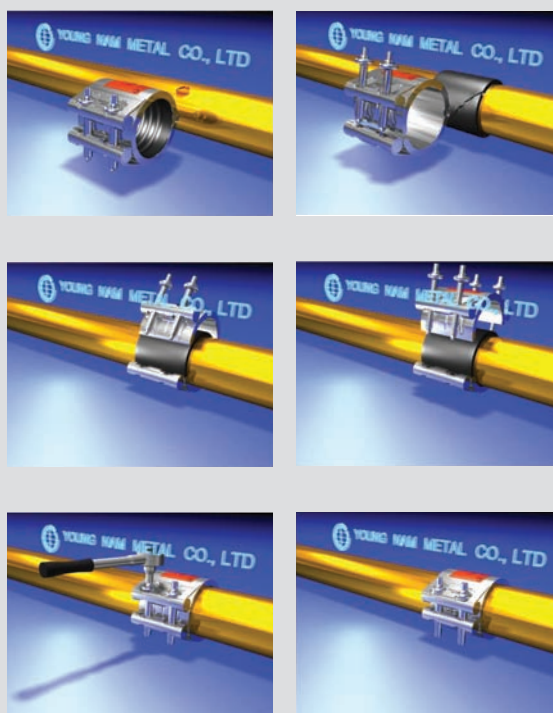


Installation Guide

>> NEW LINE <<



>> REPAIR LINE <<



PIPE COUPLINGS SITE APPLICATION

Shipbuilding, Offshore

Pipes for firefighting, plumbing, ballast, compressed air supply and removal, transport, cooling water, sea water and fresh water.

Not a rigid pipe joint, but 2° pipe misalignment tolerated in any direction. Trouble-free and free from maintenance even under dynamic loads.

Sound absorbant and vibration dampening. Good accessibility for fitting. Excellent space saving when laying pipes and low weight.



Water and Gas Supplies

Pump and hydrant pipes, shaft pipes, distribution lines, house connections.

A handy pipe coupling designed for all construction site conditions.

Effortless fitting without loose parts. A good professional job even in narrow trenches, in dirty and cold conditions. Even earth movement doesn't affect this pipe joint.



Building Construction and Civil Engineering

Cold and warm water lines, pump lines, gas and compressed air lines, temporary pipelines.

Direct installation of pipe sections Without preassembly, no costly alignment and adjustment. Galvanized pipes can be cut to length on site. No additional pipe end machining. Tolerates changes in direction without fixed points, supports or holders.



Power Plants

Cooling return pipes, compressed air and firefighting lines, lubrication pipes.

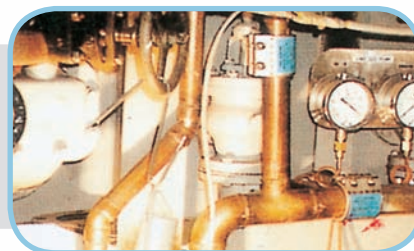
The pipe joint withstands continuous temperatures from -30°C to +100°C and operating pressures up to 16 bar. Functional reliability even under water hammer and shock loading. Pipe damage can be repaired rapidly.



Machinery, Design Work

Cooling and compressed air lines, suction and lubrication pipes, fuel pipes.

Versatility in use thanks to compact size. Available in many sizes. Tolerates dimensional variances and is unaffected by vibration. Simple fitting and removal. Reusable several times. Easy servicing.



Industrial Plants. Plant Maintenance

Ring and riser pipes, power and process pipes, firefighting, transport and conveying lines.

The special design of the pipe coupling ensures a longlasting seal, accommodates dimensional variances and keeps pipeline construction stress free. Subsequent installations can be carried out rapidly with your own personnel, without fire or explosion hazards.



EPDM -30°C~+100°C

Sealing for water, waste water, air and many chemical products.

NBR -20°C~+80°C

Sealing for oil, gases, fuels, lubricants and other hydrocarbons.

CARBON STEEL PIPE OUTSIDE DIAMETER COMPARISON

NORMINAL SIZE		ACTUAL O.D. (mm)				CU-NI PIPE		
INCH	METRIC (mm)	KS /JIS (Standard)	ASTM	ISO RULE	DIN	METRIC (mm)	INCH	OTHER EUROPE SIZE
1/8	3.2	10.5	10.3	10.2	10.2			
1/4	6.4	13.8	13.7	13.5	13.5			
3/8	9.5	17.3	17.1	17.2	17.2			
1/2	15	21.7	21.3	21.3	21.3			
3/4	20	27.2	26.7	26.9	26.9			26.9
1	25	34.0	33.4	33.7	33.7	30.0	28.24	33.7
1-1/4	32	42.7	42.2	42.4	42.4	38.0	34.59	38.0
1-1/2	40	48.6	48.3	48.3	48.3	44.5	40.94	44.5
	50							54.0
	50							57.0
2	50	60.5	60.3	60.3	60.3	57.0	54.05	60.3
	65							69.0
2-1/2	65	76.3	73.0	76.1	76.1	76.1	66.75	76.1
								84.0
3	80	89.1	88.9	88.9	88.9	88.9	79.85	88.9
3-1/2	90	101.6	101.6	101.6				
4	100							104.0
								108.0
4	100	114.3	114.3	114.3	114.3	108.0	106.27	114.3
								129.0
5	125	139.8	141.3	139.7	139.7	133.0	131.67	139.7
								154.0
6	150	165.2	168.3	168.3	168.3	159.0	157.68	168.3
								204.0
8	200	216.3	219.1	219.1	219.1	219.0	208.48	219.0
								254.0
								267.0
10	250	267.4	273.1	273.0	273.0	267.0	260.50	273.0
								304.0
12	300	318.5	323.9	323.9	323.9	323.9	312.11	323.9
14	350	355.6	355.6	355.6	355.6	368.0	363.72	
16	400	406.4	406.4	406.4	406.4	419.0	414.52	
18	450	457.2	457.2	457.2	457.2	457.2	465.32	
20	500	508.0	508.0	508.0	508.0	508.0	516.94	

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