

GRIP-RING COUPLING (Dimensions)

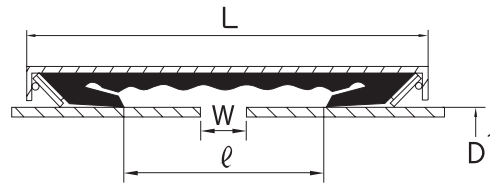
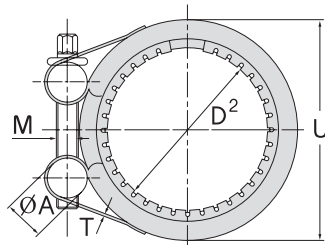
New Pipes Connector with Axial-Restraint



Model 1 : GR-S
(GRIP RING - STANDARD)



Model 2 : GR-L
(GRIP RING - LONG)



GR-S

※ PIPE O.D. specs are available for all sizes.

Size ND	O/D(mm)				Range D2	M	L	ℓ	U	W.P		W.T		P N.m(kgf/cm)
	D1									Industrial	Ship	Industrial	Ship	
15A 1.2"	21.3	21.7	22.0		O/D±0.3	M6 × 40L	57	20	38	40	—	0.2	—	3~5 (30~50)
20A 3/4"	26.9	26.7	27.2		O/D±0.5	M6 × 40L	57	20	47	40	20	0.2	0.2	4~6 (40~60)
25A 1"	33.4	33.7	34.0		O/D±0.6	M6 × 40L	57	20	52	40	20	0.25	0.25	4~6 (40~60)
32A 1-1/4"	42.2	42.4	42.7		O/D±0.6	M8 × 45L	57	20	64	40	20	0.3	0.3	10~12 (100~120)
40A 1-1/2"	40.9	44.5	48.3	48.6	O/D±1.0	M8 × 45L	57	22	68	40	20	0.40	0.40	10~12 (100~120)
50A 2"	54.0	57.0	60.3	60.5	O/D±1.0	M10 × 65L	80	30	84	36	18	0.85	0.85	15~18 (150~180)
65A 2-1/2"	66.7	69.0	73.0	76.3	O/D±1.0	M10 × 65L	80	30	101	36	18	0.90	0.90	15~18 (150~180)
80A 3"	79.8	84.0	88.9	89.1	O/D±1.5	M12 × 75L	108	50	117	32	16	1.5	1.5	40~50 (400~500)
90A 3-1/2"	98.0	101.6			O/D±1.5	M12 × 75L	108	50	142	32	16	1.75	1.7	40~50 (400~500)
100A 4"	106.3	108.0	114.3	118.0	O/D±1.5	M12 × 75L	108	50	142	32	16	1.75	1.7	40~50 (400~500)
125A 5"	129.0	133.0	139.8	141.3	O/D±1.5	M14 × 90L	117	55	176	28	14	2.9	2.9	60~80 (600~800)
150A 6"	154.0	159.0	165.2	168.3	O/D±1.5	M14 × 90L	117	55	201	28	14	3.1	3.1	60~80 (600~800)
200A 8"	204.0	216.3	219.1		O/D±2.0	M16 × 120L	155	72	256	24	12	6.5	10.0	120~150 (1200~1500)
250A 10"	254.0	267.4	273.1		O/D±2.0	M16 × 120L	155	65	300	20	10	7.6	11.0	120~150 (1200~1500)
300A 12"	304.0	318.5	323.9	325.0	O/D±2.0	M18 × 130L	155	65	350	14	7	9.7	13.6	170~190 (1700~1900)
350A 14"	340.0	355.6	377.0	368.0	O/D±2.0	M18 × 130L	155	65	400	14	7	11.4	14.4	170~190 (1700~1900)

GR-L

Size ND	O/D(mm) D1				Range D2	M	L	ℓ	U	W.P		W.T		P N.m(kgf/cm)
										Industrial	Ship	Industrial	Ship	
15A 1.2"	21.3	21.7	22.0		O/D±0.3	M6 × 40L	72	40	39	40	—	0.35	—	3~5 (30~50)
20A 3/4"	26.9	26.7	27.2		O/D±0.5	M6 × 40L	72	40	47	40	—	0.4	—	4~6 (40~60)
25A 1"	33.4	33.7	34.0		O/D±0.6	M8 × 45L	100	55	51	40	20	0.45	0.45	5~8 (50~80)
32A 1-1/4"	42.2	42.4	42.7		O/D±0.6	M8 × 45L	100	55	62	40	20	0.55	0.55	10~12 (100~120)
40A 1-1/2"	40.9	44.5	48.3	48.6	O/D±1.0	M8 × 45L	100	55	66	40	20	0.6	0.6	10~12 (100~120)
50A 2"	54.0	57.0	60.3	60.5	O/D±1.0	M10 × 65L	139	84	81	36	18	1.3	1.3	15~18 (150~180)
65A 2-1/2"	66.7	69.0	73.0	76.3	O/D±1.0	M10 × 65L	139	84	100	36	18	1.4	1.4	15~18 (150~180)
80A 3"	79.8	84.0	88.9	89.1	O/D±1.5	M12 × 75L	203	122	115	32	16	2.9	2.9	40~50 (400~500)
90A 3-1/2"	98.0	101.6			O/D±1.5	M12 × 75L	203	122	144	32	16	3.2	3.2	40~50 (400~500)
100A 4"	106.3	108.0	114.3	118.0	O/D±1.5	M12 × 75L	203	122	144	32	16	3.2	3.2	40~50 (400~500)
125A 5"	129.0	133.0	139.8	141.3	O/D±1.5	M14 × 90L	204	128	175	28	14	4.8	4.8	60~80 (600~800)
150A 6"	154.0	159.0	165.2	168.3	O/D±1.5	M14 × 90L	204	128	196	28	14	5.2	5.2	60~80 (600~800)
200A 8"	204.0	216.3	219.1		O/D±2.0	M16 × 120L	255	157	260	24	12	11.0	16.2	120~150 (1200~1500)
250A 10"	254.0	267.4	273.1		O/D±2.0	M16 × 120L	255	157	300	20	10	12.3	18.4	120~150 (1200~1500)
300A 12"	304.0	318.5	323.9	325.0	O/D±2.0	M18 × 140L	255	157	350	14	7	14.9	21.3	170~190 (1700~1900)

ND: Nominal Diameter (A)
U: Outer Diameter of Coupling (m/m)
L: Coupling Width (m/m)

ℓ: Allowable Shrinkage/Expansion Clearance (m/m)
M: Fastener Bolt Size/Length (m/m)
P: Optimum Locking Torque Value Nm (kgf · cm)

D1: Actual Outer Diameter of Pipe (m/m)
W.P: Working Pressure (kgf · cm²)

D2: Min./Max. Allowable Limit for Pipe (m/m)
W/T: Weight Per Unit (kg)

※ The specifications are subject to change for quality improvement.