CPS UNI-GIB COUPLINGS

UNRESTRAINED UNIVERSAL COUPLING

Compatible with PVC S1 & S2, GRP, DI, CI, AC & Steel Pipelines

APPLICATIONS

CIVILPIPES UNI-GIB Couplings are suitable for use in potable water; non-potable water and wastewater pipelines.

The couplings can join most pipe materials and each size is designed to fit a range of outside diameters. This makes the CPS Uni-Gib ideal for joining PVC-O, PVC-M, PVC-U, GRP, DI, AC, and Steel pipelines.

FEATURES

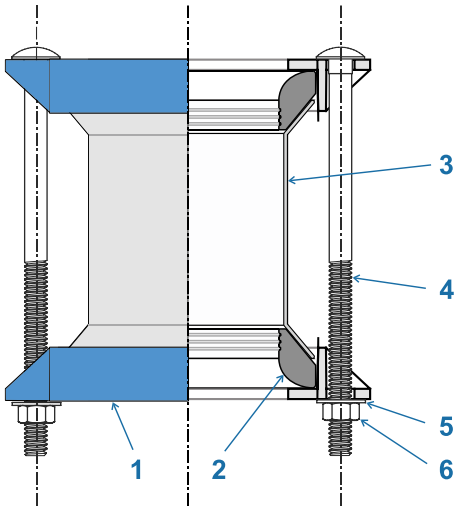
Wedge shape seal design capable of joining a wide range of pipe materials and diameters; ideal for reducing stock levels.

Corrosion resistant materials suitable for drinking water and wastewater applications.

Lightweight barrel for ease of installation.

Can be installed without disassembling which makes installation faster and easier.

Captive bolt head for one spanner operation to simplify the assembly in the field.



TECHNICAL DATA

Standard:	AS/NZS 4998
Size Range:	DN 80 to DN 600
Working Pressure:	PN16 (Water)
Materials:	Ductile Iron (fusion coated AS 4158), 316 Stainless Steel, EPDM seals
Working Temperature:	Max 60 deg C (Water)
Jointing:	Un-restrained mechanical joint

Suitable for unrestrained joint applications only.

Uni-Gib couplings do not provide for axial joint restraint

Not recommended for jointing polyethylene pipes

APPROVALS

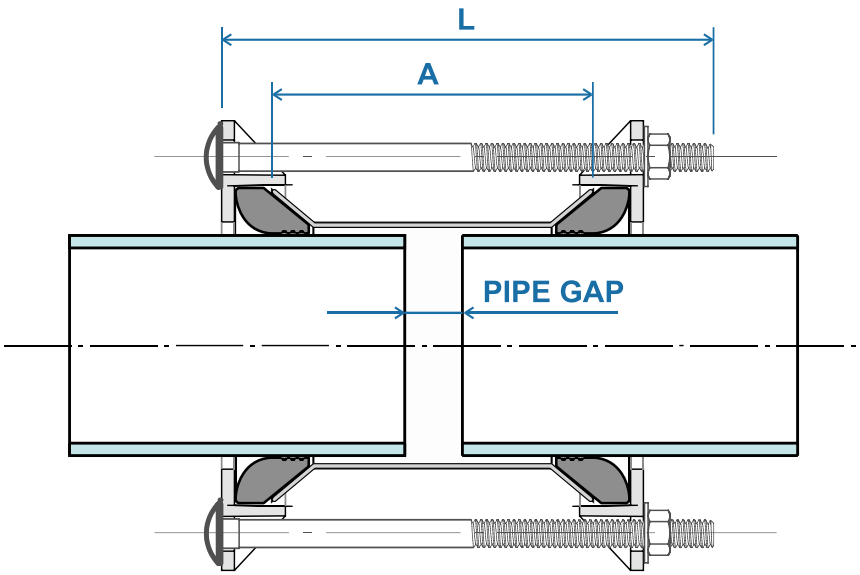
WSAA Appraisal:	Product Appraisal Report PA 2112 AS/NZS 4998: 2009
Product Certification:	Lic: OMK30081 - AS/NZS 4998:2009 DN 80 – DN 300

COMPONENTS

ITEM	PART	MATERIAL	STANDARD
1	End Rings	Ductile Iron, FBE Coated	Gr 400-15, AS/NZS 4158
2	Elastomeric Seals	EPDM Rubber	EN 681, AS/NZS 4020
3	Barrel	316 Stainless Steel	ASTM A240M
4	Bolts	316 Stainless Steel	ASTM F593
5	Washers	316 Stainless Steel	ASTM F844
6	Nuts	316 Stainless Steel **	ASTM F594

** Anti-galling applied to threads

COUPLING DIMENSIONS

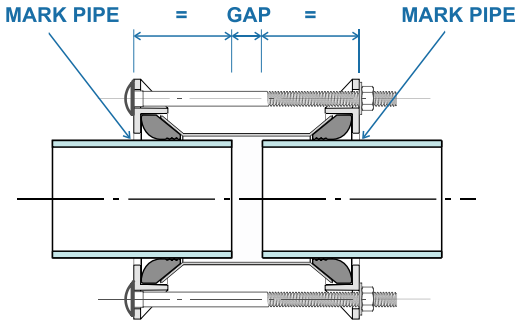


LONG BARREL UNI-GIB										
Prod Code	Nom Dia	Size Range Min - Max	Barrel Length A	Bolt Length L	Bolts	Gap Min - Max	Max Angular Deflection (per end)		Working Pressure PN	Weight kg
							Min OD	Max OD		
DGU08L	DN 80	88 - 103	176	270	3 - M16	10 - 50	6 Deg	0 Deg	16	4.2
DGU10L	DN 100	108 - 132	176	270	3 - M16	10 - 50	6 Deg	0 Deg	16	5.6
DGU15L	DN 150	158 - 182	176	270	3 - M16	10 - 50	6 Deg	0 Deg	16	7.7
DGU20L	DN 200	214 - 238	176	270	5 - M16	10 - 50	6 Deg	0 Deg	16	12
DGU22L	DN 225	242 - 269	176	270	6 - M16	10 - 50	6 Deg	0 Deg	16	13
DGU25L	DN 250	270 - 295	176	270	6 - M16	10 - 50	6 Deg	0 Deg	16	14
DGU30L	DN 300	330 - 356	216	330	6 - M16	20 - 80	6 Deg	0 Deg	16	23
DGU37L	DN 375	400 - 429	216	330	8 - M16	20 - 80	4 Deg	0 Deg	16	35
DGU45L	DN 450	488 - 512	216	330	10 - M16	20 - 80	4 Deg	0 Deg	16	42
DGU50L	DN 500	540 - 565	216	350	12 - M16	20 - 80	4 Deg	0 Deg	16	49
DGU60L	DN 600	656 - 680	216	350	14 - M16	20 - 80	4 Deg	0 Deg	16	58

SHORT BARREL UNI-GIB										
Prod Code	Nom Dia	Size Range Min - Max	Barrel Length A	Bolt Length L	Bolts	Gap Min - Max	Max Angular Deflection (per end)		Working Pressure PN	Weight kg
							Min OD	Max OD		
DGU08	DN 80	88 - 103	120	210	3 - M16	10 - 25	6 Deg	0 Deg	16	3.9
DGU10	DN 100	108 - 132	120	210	3 - M16	10 - 25	6 Deg	0 Deg	16	5.2
DGU15	DN 150	158 - 182	120	210	3 - M16	10 - 25	6 Deg	0 Deg	16	7

Note: All dimensions are in mm unless noted otherwise

ASSEMBLY INSTRUCTIONS



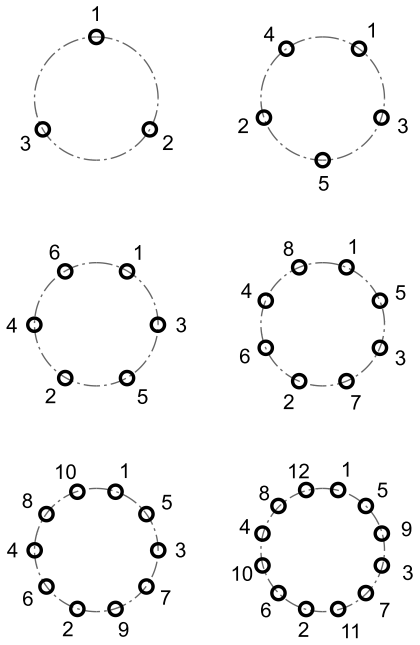
RECOMMENDED GAPS

Coupling Size	Sleeve Length	Pipe Gap Min - Max
DN 80 – 150 (Short barrel)	120 mm	**10 – 25 mm**
DN 80 – 250 (Long barrel)	176 mm	**10 – 50 mm**
DN 300 - 600 (Long barrel)	216 mm	**20 – 80 mm**

TORQUE SETTINGS

Coupling Size	PVC-O	All Other Pipe
DN 80 - 600	60 Nm	70 Nm

TIGHTENING SEQUENCE



IMPORTANT NOTES

- UNI-GIB unrestrained couplings DO NOT provide axial pipe restraint; and ARE NOT recommended for use on Polyethylene pipe.
- When connecting pipes of different diameters, ensure the coupling end with the nuts is placed onto the smallest pipe diameter. This will ensure the coupling tightens properly on both pipe ends.

EQUIPMENT REQUIRED

- Tension Wrench & 24mm long thread socket.
- Cleaning equipment.
- Pipe lubricant approved for use with potable water.

ASSEMBLY INSTRUCTIONS

- Examine coupling and ensure all components are clean and in good working condition.
- Check the rubber seal is lubricated and slides freely on the surface of the SS barrel. Apply pipe lubricant as required.
- Ensure pipe ends are round, cut square, and clean with a smooth undamaged surface free of bulges and scores.
- Align pipe ends ensuring the recommended gap is applied. Refer to adjacent table.
- Hold coupling centrally over pipe gap and mark the extent of the coupling on each pipe end.
- Loosen bolts enough to allow the fitting to slide freely onto the fixed pipe end. There is generally no need to disassemble the coupling.
- Note: When fitting onto different pipe OD's, place the coupling end that has the nuts on the smallest pipe OD.
- Place the other pipe end into position ensuring recommended gap is maintained.
- Slide coupling into final position and check to ensure witness marks line up with the ends of the coupling.
- Determine the required torque setting from the adjacent table, also listed on the installation label attached to the coupling.
- Tighten nuts, using the adjacent tightening sequence, in small increments until final torque is achieved. Ensure coupling remains centred during the tightening process.
- Note: It is essential that the seal is evenly loaded during the tightening process and that the nuts are tightened to the required torque setting.
- Final pass: Re-tension nuts after 20-30 mins to take up any loss of tension due to relaxation of the rubber seals.

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