

PE RESTRAINT COUPLINGS

APPLICATIONS

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

The couplings are designed to provide a full restraint connection for polyethylene pressure pipes.



FEATURES

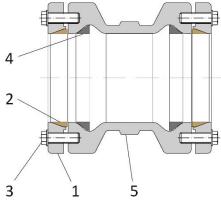
Full restraint system for PE pressure pipes.

Corrosion resistant materials suitable for drinking water and wastewater applications.

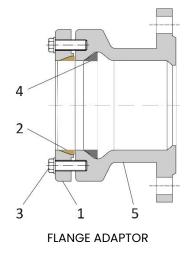
Push-fit connection for ease of installation.

Can be installed without disassembling making installation faster and easier.

Easy to dismantle.







Standard:

TECHNICAL DATA

Standard:	EN 12842
Size Range:	DN 63 to DN 315
Working Pressure:	PN16 (Water) Max Allowable Operating Pressure
Working Temperature:	Max 60 deg C (Water)
Jointing:	Mechanical Restraint
Angular Deflection:	1.5 deg max
Flanges:	EN 1092-2 dimensions AS 4087 PN16 drill pattern

APPROVALS

WSAA Appraisal:	Product Appraisal Report 1518
Product Certification:	Lic: OMK30067 – EN 12842

COMPONENTS

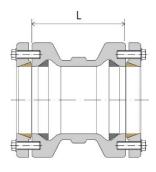
ITEM	PART	MATERIAL	STANDARD		
1	End Ring	Ductile Iron, FBE Coated	Gr 500-7, AS/NZS 4158		
2	Grip Ring	Copper Alloy	C83600		
3	Bolts	316 SSS – Delta Seal coating	ASTM F594		
4	Elastomeric Seals	EPDM	EN 681, AS/NZS 4020		
5	Barrel	Ductile Iron, FBE Coated	Gr 500-7, AS/NZS 4158		

PE RESTRAINT COUPLINGS



COUPLING

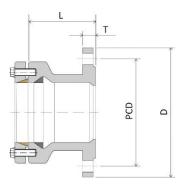




DN	PE OD	L	End Ring Bolts	Deflection	Working Pressure	Weight kg	Code
63	63	125	2-M12	1.5 deg	PN16		DGG06
75	75	126	4-M12	1.5 deg	g PN16		DGG07
90	90	128	4-M12	1.5 deg	PN16		DGG09
110	110	130	4-M12	1.5 deg	PN16		DGG11
125	125	134	4-M12	1.5 deg	PN16		DGG12
140	140	145	4-M12	1.5 deg	PN16		DGG14
160	160	170	4-M12	1.5 deg	PN16		DGG16
180	180	185	4-M12	1.5 deg	PN16		DGG18
200	200	210	4-M12	1.5 deg	PN16		DGG20
225	225	215	4-M12	1.5 deg	PN16		DGG22
250	250	240	6-M12	1.5 deg	PN16		DGG25
280	280	250	6-M12	1.5 deg	PN16		DGG28
315	315	300	6-M12	1.5 deg	g PN16		DGG31

FLANGE ADAPTOR





DN	PE OD	L	End Ring Bolts	Flange DN	D	PCD	т	Holes # - dia	Weight kg	Code
63	63	73	2-M12	50	150	125	19	4-18		DGGF06305
75	75	74	4-M12	65	165	135	19	4-18		DGGF07506
90	90	75	4-M12	80	185	146	19	4-18		DGGF09008
110	110	76	4-M12	100	215	178	19	4-18		DGGF11010
125	125	76	4-M12	100	215	178	19	4-18		DGGF12510
160	160	96	4-M12	150	280	235	19	8-18		DGGF16015
180	180	96	4-M12	150	335	292	19	8-18		DGGF18015
200	200	112	4-M12	200	335	292	20	8-18		DGGF20020
225	225	113	4-M12	200	335	292	20	8-18		DGGF22520



PE RESTRAINT COUPLINGS

ASSEMBY INSTRUCTIONS

FLANGE ADAPTOR ASSEMBLY

 Bolt the Flange Adaptor to the mating flange prior to restraint joint assembly

PIPE PREPARATION

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 Examine pipe ends to ensure they are round, cut square, and clean with a smooth undamaged surface free of bulges and scores.

Examine fitting and ensure all components are

Loosen the end ring bolts but do not dismantle.

Insert pipe into the fitting, past the grip ring and

If connecting to a Coupling, ensure a 10mm gap

Place a witness mark on the pipe to suit the depth

Chamfer the PE pipe end to 15 degrees

ASSEMBLY - RESTRAINT JOINT

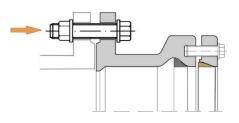
of insertion.

between pipes.

Use approved pipe lubricant as required.

clean and in good working condition.

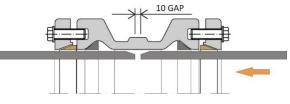
seal to the depth of the socket.



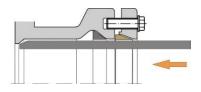
FLANGE ADAPTOR ASSEMBLY



PIPE PREPARATION



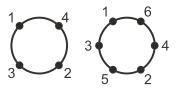
ASSEMBLY - COUPLINGS



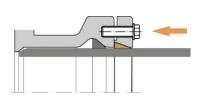
ASSEMBLY - FL ADAPTORS, VALVES & FITTINGS

TIGHTENING RESTRAINT JOINT

- Torque: 50 Nm maximum.
- Tightening sequence:



- Tighten bolts in sequence and in small increments until final torque is achieved or end ring stop is tightened firmly against the body.
- SPECIAL NOTE: Failure to tighten bolts in increments or sequence, will increase the stress on the end ring and may result in product damage.



TIGHTEN RESTRAINT JOINT



ABN 30 168 566 667 2 Potassium St. Narangba Qld 4504 PO Box 304, North Lakes Qld 4509





E-mail: sales@civilpipes.com.au

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