

EROWATEC

Pre-cast splicing system



Dextra

www.dextragroup.com

Product features

Grouotec is a mechanical splicing system with one threaded end specially designed for the connection of pre-cast concrete elements. Designed and manufactured in compliance with Eurocode 2, BS 8110, ACI 318, IBC, AASHTO.

Typically, the bars connected on the threaded side and the cavity side are of the same diameter. However, Grouotec can also be used to make a transition from a larger rebar (cavity side) to a smaller rebar (threaded side).

Benefits

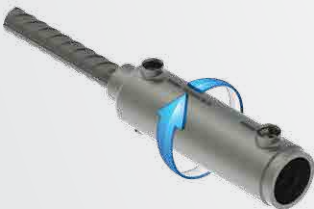
- Ability to easily connect two precast elements with no requirement for in situ wet concrete joint.
- Compact economical splicing solution with one threaded end compatible with either Bartec, Fortec, Rolltec or Griptec bars.
- Can be used with non-shrink grouting mortars easily available from major manufacturers. Grouotec has been successfully tested with Sika214 from SIKA Co, Lanko 701 from PAREX-DAVCO Co, Cemrok EasiFlow from POZAMENT or Conbextra GP from FOSROC Co*.
- Allows connection of continuation bars that are not perfectly aligned: Misalignments of up to 12mm for small bars (Ø12-Ø20), up to 20 mm for medium bars (Ø25) and up to 25 mm for large bars (Ø28-Ø40) can be accommodated.
- The same coupler model can also be used for the connection of different diameters (transition splices).

Note *: Dextra is not the owner of the brands mentioned here. These protected trademark rights remain the entire exclusivity of their respective owners and are only mentioned here as a reference in relation with Dextra products.

Installation sequence

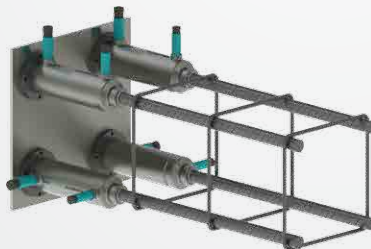
1

Screw the coupler on the threaded bar end.



2

Assemble the reinforcement and install it in the formwork



3

Precasting process



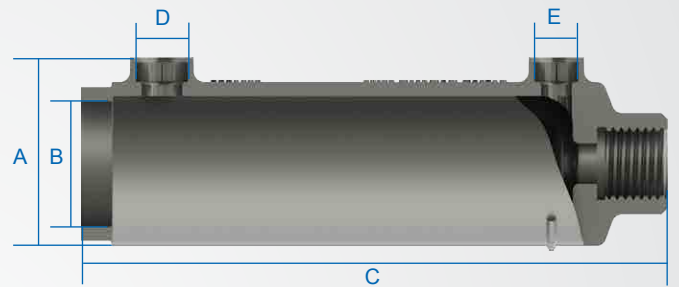
4

Assembly of precast panels, then proceed with grout injection.



Coupler dimensions

Bar size	A	B	C	D	E
mm	mm	mm	mm	mm	mm
12, 16	73	44	182		
20	77	48	195		
25	80	50	220	25	20
28, 32	93	62	290		
40	107	72	340		



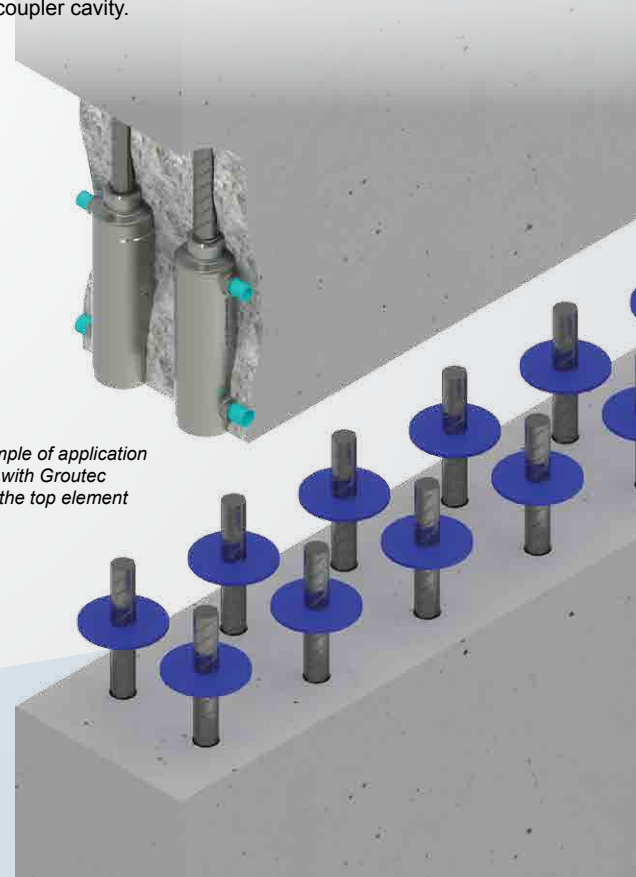
Applications

Grouotec is designed to connect wall or column precast elements either horizontally and vertically.

In horizontal applications, and in vertical applications with the Grouotec coupler installed in the top element, the connection is achieved by injecting the grout through the inlet pipe.

In vertical applications with the Grouotec coupler installed in the bottom element, the grout can simply be poured by gravity directly into the coupler cavity.

Example of application with Grouotec in the top element





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Groutec coupler order codes



Bar size (mm)	Compatible with Bartec and Fortec threaded bars	Compatible with Griptec threaded bars	Compatible with Rolltec threaded bars
12	FPPC1214201	FPPC1214201	FPPC1213153
16	FPPC1620251	FPPC1618255	FPPC1617173
20	FPPC2024301	FPPC2022255	FPPC2021203
25	FPPC2530351	FPPC2527305	FPPC2526253
28	FPPC2833351	FPPC2830355	FPPC2829303
32	FPPC3236401	FPPC2833351	FPPC3233303
40	FPPC4045451	FPPC4042455	FPPC4041303

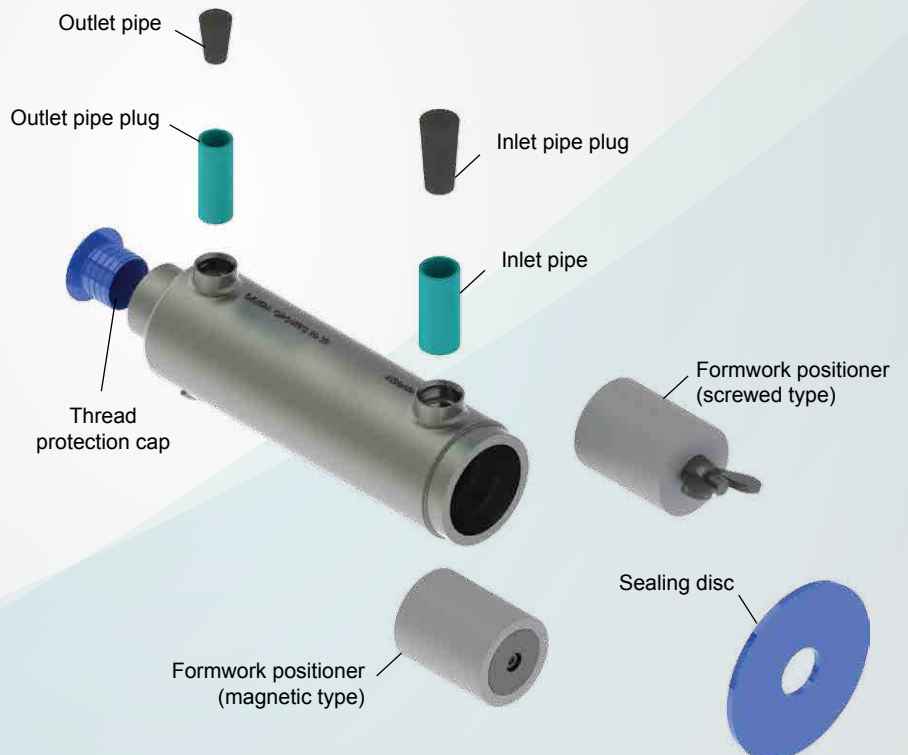
Optional accessories available upon request

Bar size (mm)	Pipes	
	Inlet (OD 25 mm)	Outlet (OD 20 mm)
12-40	GELC0390001	GELC0390002

Bar size (mm)	Pipe plugs	
	Inlet (OD 25 mm)	Outlet (OD 20 mm)
12-40	GACC2090002	GACC2090001

Bar size (mm)	Formwork Positioner	
	Screwed type	Magnetic type
12-16	GACC2090007	GACC2090012
20	GACC2090008	GACC2090013
25	GACC2090009	GACC2090014
28-32	GACC2090010	GACC2090015
40	GACC2090011	GACC2090016

Bar size (mm)	Sealing disc
12	GMEC0900143
16	GMEC0900147
20	GMEC0900153
25	GMEC0900145
28	GMEC0900142
32	GMEC0900154
40	GMEC0900141



Bar size (mm)	Thread Protection Cap		
	Bartec & Fortec threads	Griptec threads	Rolltec threads
12	GMEC0002808		GMEC0010919
16	GMEC0002818	GMEC0002817	
20	GMEC0002820	GMEC0002819	
25	GMEC0002822	GMEC0002821	
28	GMEC0002823	GMEC0002822	
32	GMEC0002824	GMEC0002823	
40	GMEC0002827	GMEC0002826	

Traceability

All Groutec couplers are marked with a code that includes the batch number, allowing Dextra to retrieve, among other data, the following information :

- the material certificate
- the QC inspection report
- the product test report
- the mould number



Packing

Groutec products are packed in wooden crates that can be lifted by a forklift. All products must be stored under a roof and protected from the elements.

Please ensure that order quantities are a multiple of the packaging quantities stated in the table.

Bar size (mm)	Qty (pcs)	Unit weight (kg)	Net weight (kg)	Gross weight (kg)
12, 16	500	1.5	750	800
20	400	1.8	720	770
25	300	2.4	720	770
28,32	200	4.3	860	925
40	125	6.7	838	903

Note: The weight of the crates may vary depending on ambient humidity.



Commercial presence in more than 55 countries.



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