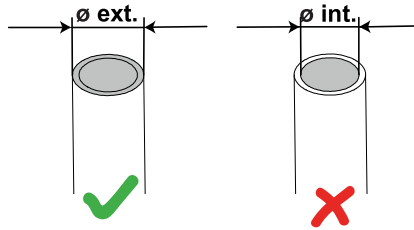


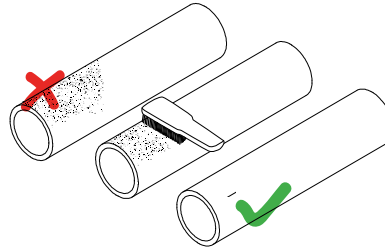
COUPLING CHOICE

TOLERANCES

Coupling mm	Coupling flanged	
	DN	mm
39 - 52	50	39 - 52
49 - 64	50	49 - 64
63 - 83	60/65	63 - 83
72 - 93	-	-
78 - 103	80	78 - 103
87 - 117	80/100	87 - 117
100 - 130	100	100 - 130
117 - 147	125	117 - 147
138 - 168	-	-
152 - 182	150	152 - 182
172 - 202	-	-
198 - 228	200	198 - 228
217 - 257	-	-
245 - 285	200 250	245 - 285
300 - 340	300	300 - 340
340 - 380	300 350	340 - 380
390 - 430	400	390 - 430

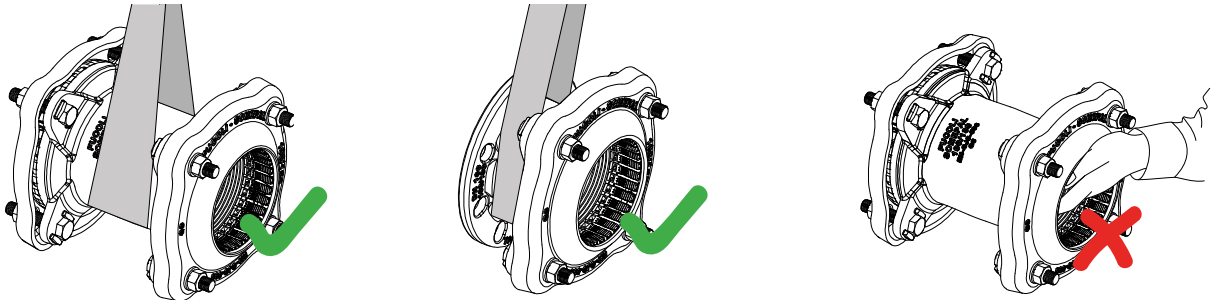


1. Choose the coupling according to the pipe external diameter.



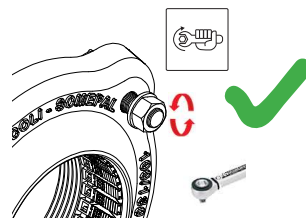
2. Clean the pipe.

TRANSPORT



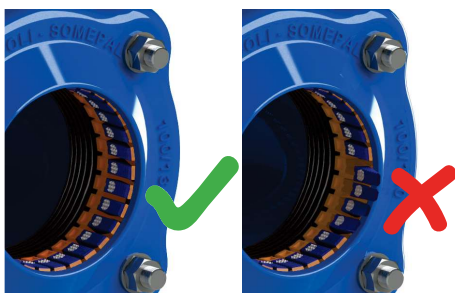
1. Coupling should be handled, transported and stored with care. When mechanical means are required for lifting and handling the coupling, they must be appropriate and applied as shown in the image.

UNSCREW



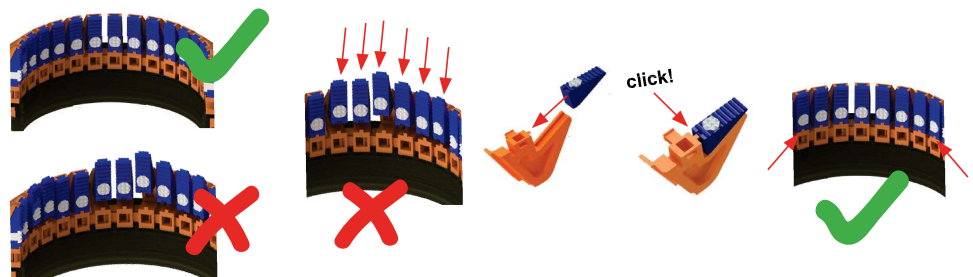
1. Unscrew the screws by hand, but do not remove them. See table 1 page 3 (for coupling) or table 2 page 4 (for flanged coupling).

CHECK THE PRODUCT - GRIPPERS GFIX[®] SYSTEM

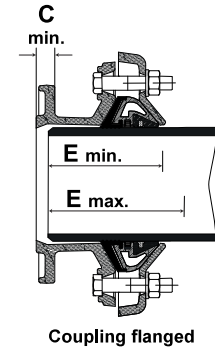
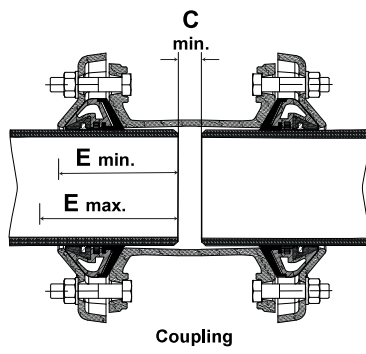
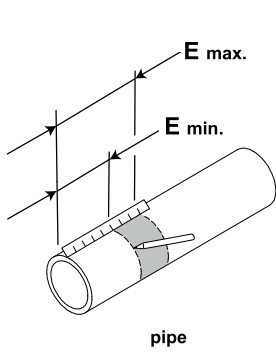


2.1. Check if the grippers are in the correct position.

PROCEDURE FOR CORRECTION OF THE GRIPPERS



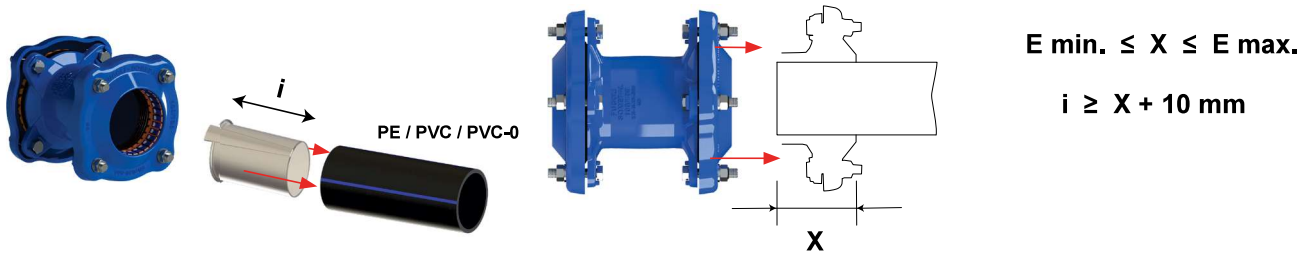
2.2. Fit the loose grippers into the grippers holder until you hear 'click'.



3. Mark the insertion depth (E) in the pipe. See table 1 page 3 (for coupling) or table 2 page 4 (for flanged coupling).
4. Pipe should be inserted into the coupling at a depth $E_{min.} \leq X \leq E_{max.}$

A. PIPES PE / PVC / PVC-O

PE / PVC / PVC-O pipes should be installed with insert.



5.1. Insert length must be $i \geq X + 10 \text{ mm}$.

INSERT INSTALLATION



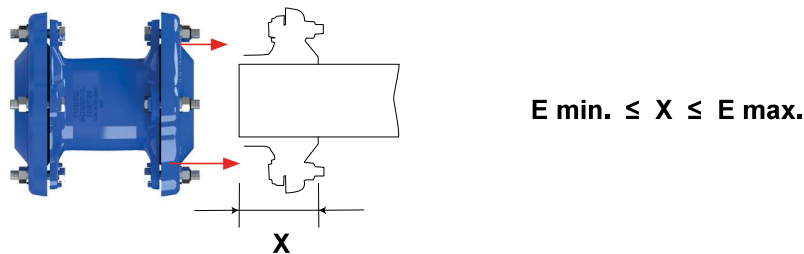
5.2. Check if the insert is suitable for the internal diameter of the pipe.

5.3. Fit the insert body until the edge butts against the pipe end.

5.4. Insert the wedge until the body touches fully pipe inside. Mark the wedge 5-10 mm and cut off the excess.

5.5. Tap the wedge in place, until flush with the pipe surface.

B. OTHER PIPES



SCREW



6. Tighten the screws by hand. See table 1 page 3 (for coupling) or table 2 page 4 (for flanged coupling).



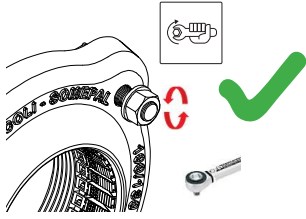
$$P_{max} \leq 1.5 \times PFA$$



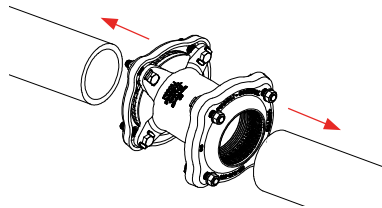
≤ 0°C PE pipe applied to temperatures ≤ 0°C
Apply torque, wait 30 min and reapply the torque.

See table 1 page 3 (for coupling) or table 2 page 4 (for flanged coupling)

DISMANTLING INSTRUCTIONS



1. Unscrew the screws by hand, but do not remove them.

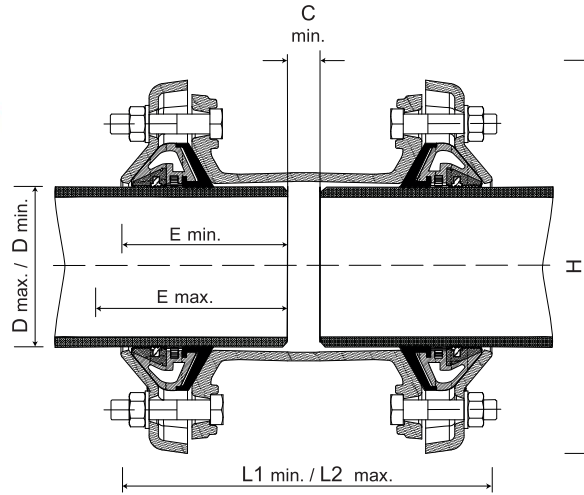


2. Disassemble the tubes

TABLE 1 - GFIX® MULTIMATERIAL COUPLING



Deflection angle of the pipe 8°



GFIX® multimaterial coupling



Drinking water
PFA = 16 bar

ref.08.400



Wastewater
PFA = 16 bar

ref.11.4000



with sealing for gas
PFA = 5 bar

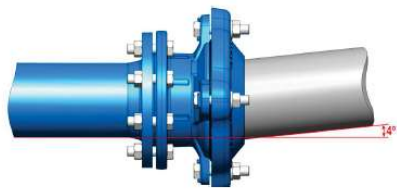
ref.16.400



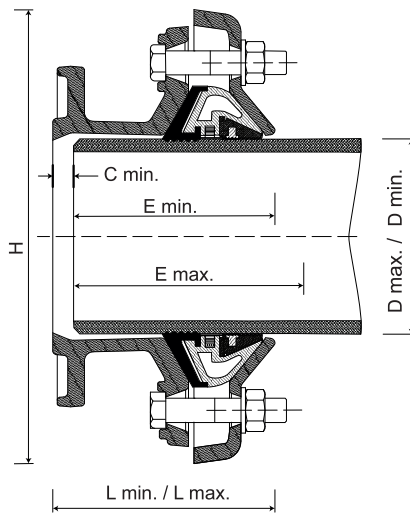
D min. / max.	code Drinking water	code Wastewater	code with sealing for gas	L1 min. mm	L2 max. mm	H mm	E min. mm	E max. mm	C min. mm	i mm
39/52	10900400	10908400	10900800	233	250	162	90	115	20	175
49/64	10900401	10908401	10900802	231	250	175	90	115	20	175
63/83	10900402	10908402	10900804	258	286	209	105	133	20	175
72/93	10900424	10908415	10900805	257	286	217	105	133	20	175
78/103	10900403	10908403	10900806	250	286	229	105	133	20	175
87/117	10900404	10908404	10900808	244	286	243	105	133	20	175
100/130	10900405	10908405	10900810	253	299	256	105	140	20	175
117/147	10900406	10908406	10900812	253	299	273	105	140	20	175
138/168	10900407	10908407	10900814	253	299	294	105	140	20	175
152/182	10900408	10908408	10900816	288	330	308	115	155	20	200
172/202	10900409	10908409	10900818	288	330	325	115	155	20	200
198/228	10900410	10908410	10900820	288	330	354	115	155	20	200
217/257	10900411	10908411	10900822	300	359	392	130	170	20	225
245/285	10900412	10908412	10900824	383	440	434	150	210	20	225
300/340	10900413	10908413	10900826	383	440	479	150	210	20	225
340/380	10900413	10908414	10900828	383	440	519	150	210	20	225
390/430	10900415	10908416	10900830	383	440	571	150	210	20	225

D min. / max.	Bolt		Torque
39/52	M12	19mm	50 - 70 Nm
49/64	M12	19mm	50 - 70 Nm
63/83	M12	19mm	50 - 70 Nm
72/93	M12	19mm	50 - 70 Nm
78/103	M12	19mm	50 - 70 Nm
87/117	M12	19mm	50 - 70 Nm
100/130	M16	24mm	90 - 120 Nm
117/147	M16	24mm	90 - 120 Nm
138/168	M16	24mm	90 - 120 Nm
152/182	M16	24mm	90 - 120 Nm
172/202	M16	24mm	90 - 120 Nm
198/228	M16	24mm	90 - 120 Nm
217/257	M16	24mm	90 - 120 Nm
245/285	M16	24mm	90 - 120 Nm
300/340	M16	24mm	90 - 120 Nm
340/380	M16	24mm	90 - 120 Nm
390/430	M16	24mm	90 - 120 Nm

TABLE 2 - GFIX® MULTIMATERIAL COUPLING FLANGE ADAPTOR



Deflection angle of the pipe 4°



ref.08.401

 Drinking water

PFA = 16 bar




ref.11.4001

 Wastewater

PFA = 16 bar







ref.16.401

 with sealing for gas

PFA = 5 bar

GFIX® multimaterial coupling flanged adaptor



DN Flange	D min. / max.	PN	 code Drinking water	 code Wastewater	 code with sealing for gas	L1 min. mm	L2 max. mm	H mm	E min. mm	E max. mm	C min. mm	i mm	Bolt		Torque
50	39/52	10/16	10900500	10908500	10900600	129	138	195	90	120	15	175	M12	19mm	50 - 70 Nm
50	49/64	10/16	10900501	10908501	10900602	128	138	197	90	120	15	175	M12	19mm	50 - 70 Nm
60/65	63/83	10/16	10900502	10908502	10900604	129	143	209	105	128	15	175	M12	19mm	50 - 70 Nm
80	78/103	10/16	10900503	10908503	10900606	125	143	229	105	128	15	175	M12	19mm	50 - 70 Nm
80/100	87/117	10/16	10900504	10908504	10900608	121	143	243	105	128	15	175	M12	19mm	50 - 70 Nm
100	100/130	10/16	10900505	10908505	10900610	127	150	256	105	130	20	175	M16	24mm	90 - 120 Nm
125	117/147	10/16	10900506	10908506	10900612	127	150	273	105	130	20	175	M16	24mm	90 - 120 Nm
150	152/182	10/16	10900507	10908507	10900614	147	168	308	115	145	20	175	M16	24mm	90 - 120 Nm
200	198/228	10/16	10900508	10908508	10900616	147	168	354	115	145	20	200	M16	24mm	90 - 120 Nm
200	245/285	10/16	10900523	10908524	10900617	251	280	424	150	180	95	200	M16	24mm	90 - 120 Nm
250	245/285	10/16	10900509	10908509	10900618	191	220	420	150	180	30	225	M16	24mm	90 - 120 Nm
300	300/340	10/16	10900510	10908510	10900620	191	220	479	150	180	30	225	M16	24mm	90 - 120 Nm
300	340/380	10/16	10900525	10908525	10900621	271	300	519	150	180	110	225	M16	24mm	90 - 120 Nm
350	340/380	10/16	10900511	10908511	10900622	191	220	520	150	180	40	225	M16	24mm	90 - 120 Nm
400	390/430	10	10900513	10908513	10900624	191	220	571	150	180	40	225	M16	24mm	90 - 120 Nm
400	390/430	16	10900514	10908514	10900626	191	220	571	150	180	40	225	M16	24mm	90 - 120 Nm

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