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PE pipe connectors, compression type

HELA plastic pipe connectors are made for joining PE pipes that are manufactured according to EN ISO 12201-2 for cold water applications. Due to its simple construction it is easy to install and open if needed. The connection is absolutely tight and tensile resistant. HELA connectors are suitable for different pressure and suction pipe line systems.

HELA connectors are made out of dezincification resistant brass (CR, DZR) and due to the high resistance of different types of corrosion, HELA couplings can be installed in corrosive areas where products made out of ordinary brass like OT58 and similar alloys are not possible to use. HELA connectors are accepted for potable water

(drinking water) applications in Finland, Sweden, Norway and Denmark.

The sealing principle of HELA connector is simple: by tightening the nut compression ring penetrates into the pipe. No O-rings or washers are used.

Due to this unique sealing method HELA connectors are also suitable for installations of petrol and oil pipelines.

Application:	For PE pipes according to EN ISO 12201-2
Pressure rating:	PN10
Materials:	CC752S / CW602N / CW617N (GEN/TS 13388)
Dimensioning:	EN 1254-3
Threads:	ISO288 (EN 1254-4)
Dezincification resistance:	EN ISO 6509
Tightness in over pressure:	EN 715
Tightness in bending:	EN 713
Pull-out:	EN 712

100 Reinforcement



HELA ref.		Dimensions	Qty/box
11003229	1929561	32 x 2.9	150
11004024	1929566	40 x 2.4	100
11004037	1929562	40 x 3.7	100
11005046	1929563	50 x 4.6	100
11006338	1929544	63 x 3.8	40
11006358	1929564	63 x 5.8	36

110 Compression ring



HELA ref.		Dimensions	Qty/box
111020	1928101	20mm	1000
111025	1928102	25mm	500
111032	1928103	32mm	450
111040	1928104	40mm	350
111050	1928105	50mm	200
111063	1928106	63mm	150
111075	1928107	75mm	10
111090	1928109	90mm	10

130 Reducer



HELA ref.		Dimensions	Qty/box
11302520	1928120	25 - 20mm	150
11303225	1928132	32 - 25mm	80
11304025	1928142	40 - 25mm	60
11304032	1928143	40 - 32mm	60
11305032	1928153	50 - 32mm	40
11305040	1928154	50 - 40mm	30
11306340	1928164	63 - 40mm	25
11306350	1928165	63 - 50mm	24

210 Male connector



HELA ref.		Dimensions	Qty/box
12101520	1922120	½" x 20mm	180
12102025	1922125	¾" x 25mm	100
12102032	1922131	¾" x 32mm	80
12102525	1922127	1" x 25mm	100
12102532	1922132	1" x 32mm	60
12102540	1922139	1" x 40mm	50
12103225	1922133	1"¼ x 25mm	70
12103232	1922134	1"¼ x 32mm	50
12103240	1922140	1"¼ x 40mm	50
12104032	1922135	1"½ x 32mm	50
12104040	1922142	1"½ x 40mm	40
12104050	1922150	1"½ x 50mm	35
12104063	1922151	1"½ x 63mm	15
12105032	1922155	2" x 32mm	30
12105040	1922156	2" x 40mm	30
12105050	1922157	2" x 50mm	30
12105063	1922163	2" x 63mm	20
12105075	1922165	2" x 75mm	8
12106575	1922175	2"½ x 75mm	8
12108090	1922190	3" x 90mm	3

Assembly instructions: PE pipe connectors, compression type

HELA connectors are designed to perform in a dependable and reliable manner, especially in the challenging assembly and operation circumstances in the Nordic countries. Due to their simple structure, the connectors are very easy to assemble and disassemble. The connection is tensile proof.

The connectors are made of high-quality dezincification resistant special brass (CC752S) and they can be installed in underground pipe systems.

Purpose of use and applicability

HELA plastic pipe connectors are intended to join PE pipes (manufactured according to the SFS-EN ISO 12201-2 standard) in cold water systems. HELA connectors are suitable for potable water applications. They can be used in pressure and suction applications. The use of reinforcements is recommended but NOT mandatory.

Assembly instructions



Cut the pipe straight across, remove all burr and bevel the outer edge of the pipe (HELA chamfering tool #8059010).



Measure the length of the pipe to be inserted into the connector and mark the length on the pipe.



Do not unscrew the nut (B). Push the pipe to the bottom of the connector, all the way to the marking (A) on the pipe. When tightening the connector, make sure the pipe stays fully inserted.



Tighten the nut until the nut flange is touching the body (B). When a reinforcement is used, the nut may remain approximately 1mm away from the frame.

Technical specifications

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Threads:	ISO288 (EN 1254-4)
Dezincification resistance:	EN ISO 6509
Tightness in positive pressure:	EN 715
Tightness on bending:	EN 713
Tensile strength:	EN 712



The front part of a properly tightened ring will bend symmetrically onto the pipe. When a reinforcement is used, the ring will penetrate slightly deeper into the pipe because it won't back off. The connection can always be undone and retightened in the same spot provided that the ring is scratch-free. If the connection has to be undone often (for instance in case of water pumps), the seal can be proofed by wrapping a few layers of PTFE tape around the ring.