

Texts for bids and tenders for industrial piping systems

PE 100 Pressure Pipes

Piping system for industrial pipelines made of PE-HD

Material and Manufacture

Only pipes and fittings with a quality assurance certificate granted by TÜV Süddeutschland Bau und Betrieb GmbH may be used. Furthermore, DiBt approval for the pipes and the fittings is to be verified at the "Deutsches Institut für Bautechnik" [German Institute for Construction Technology].

For raw materials, quality-verified mouldings are to be used exclusively. The dimensions and tolerances for the pipes must correspond to DIN 8074. The general quality requirements and their testing is to be satisfied according to DIN 8075. For the fittings, the corresponding parts of DIN 16963 apply relative to the dimensions and tolerances, and DIN 16963-5 applies relative to the quality requirements. The production of segment-welded pipeline fittings is to be done according to the welding parameters of the corresponding DVS guidelines. On request, the documentation of the pipe and fitting quality is to be submitted by the bidder through working certifications according to DIN EN 10204-3.1.

The manufacturer of the pipes is to further verify a quality management system according to DIN ISO 9001.

Colour of the Pipes and Fittings: black

Make: SIMONA or equivalent

Storage, Laying, Assembly and Pressure Testing

During storage of the pipes, it must be guaranteed that there is no permanent deformation or damage. Stacks of pipes should not be higher than 1.5 m. Sudden external forces are to be prevented. Pipes or fittings damaged by transport or storage are to be eliminated. This also applies to pipes that have marks with a depth of greater than 10% of the wall thickness due to transport.

For the laying and assembly work, only pipeline construction firms may be hired that use personnel with expert training according to WHG Section 19 I and that are certified by plastic welder testing according to DVS 2212 Part 1. The joining of the pipes and pipeline fittings by means of welding is to be performed by plastic welders that possess welder certification according to DVS 2212 Part 1.

Welding of the pipes and fittings is to be done by means of butt welding electro fusion welding or socket welding according to DVS 2207 Part 1 "Welding of thermoplastic materials; heated-tool welding of pipes, pipeline fittings, and sheets made of PE-HD." The processing data for the welding is to be recorded and delivered to the customer after completion of the welding work.

For underground pipelines, the laying is to be done according to DIN EN 1610. For above-ground laying of the piping systems, DVS 2210-1 also applies to the configuration. The compression trial on the installed pipeline system is to be performed and documented according to DIN EN 805.

Texts for bids and tenders for industrial piping systems

PP Pressure Pipes

Piping system for industrial pipelines made of PP

Material and Manufacture

Only pipes and fittings with a quality assurance certificate granted by TÜV Süddeutschland Bau und Betrieb GmbH may be used. Furthermore, DiBt approval for the pipes and the fittings is to be verified at the Deutsches Institut für Bautechnik [German Institute for Construction Technology]. As raw materials, quality-verified mouldings are to be used exclusively.

The dimensions and tolerances for the pipes must correspond to DIN 8077. The general quality requirements and their testing are to be satisfied according to DIN 8078. For the fittings, the corresponding parts of DIN 16962 apply relative to the dimensions and tolerances, and DIN 16962-5 applies relative to the quality requirements. The production of the pipes includes in-line tempering in order to build up extrusion stresses during the extrusion process and thus to increase the chemical resistance. The production of segment-welded pipeline fittings is to be done according to the welding parameters of the corresponding DVS guidelines. On request, the documentation of the pipe or fitting quality is to be submitted by the bidder through working certifications according to DIN EN 10204-3.1.

The manufacturer of the pipes is to further verify a quality management system according to DIN ISO 9001.

Colour of Pipes and Fittings: grey

Make: SIMONA or equivalentrig

Storage, Laying, Assembly and Pressure Testing

During storage of the pipes, it must be guaranteed that there is no permanent deformation or damage. Stacks of pipes should not be higher than 1.5 m. Sudden external forces are to be prevented. Pipes and fittings damaged by transport or storage are to be eliminated. This also applies to pipes that have marks with a depth of greater than 10% of the wall thickness due to transport.

For the laying and assembly work, only pipeline construction firms may be hired that use personnel with expert training according to WHG Section 19 I and that are certified by plastic welder testing according to DVS 2212 Part 1. The joining of pipes and pipeline fittings by means of welding is performed by plastic welders that possess welder certification according to DVS 2212 Part 1.

Welding of the pipes and fittings by means of butt welding electrofusion welding or socket welding is to be done according to DVS 2207 Part 11 "Welding of thermoplastic materials; pipelines made of polypropylene (PP)." The processing data for the welding is to be recorded and delivered to the customer after completion of the welding work.

For above-ground laying of the piping systems, DVS 2210-1 also applies to the configuration. The compression trial on the installed pipeline system is to be performed and documented according to DIN EN 805.

Texts for bids and tenders for industrial piping systems

PVDF Pressure Pipes

Piping system for industrial pipelines made of PVDF

Material and Manufacture

Only pipes and fittings may be used whose quality can be verified by outside monitoring by SKZ or TÜV Süddeutschland. Furthermore, DiBt approval for the pipes and the fittings is to be verified at the "Deutsches Institut für Bautechnik" [German Institute for Construction Technology].

The dimensions, tolerances and the general quality requirements for the pipes and for the fittings must correspond to ISO 10931. On request, the documentation of the pipe or fitting quality is to be submitted by the bidder through working certifications according to DIN EN 10204-3.1.

The manufacturer of the pipes is to further verify a quality management system according to DIN ISO 9001.

Colour of the Pipes and Fittings: natural

Make: SIMONA or equivalent

Storage, Laying, Assembly and Pressure Testing

During storage of the pipes, it must be guaranteed that there is no permanent deformation or damage. Stacks of pipes should not be higher than 1.5 m. Sudden external forces are to be prevented. Pipes or fittings damaged by transport or storage are to be eliminated. This also applies to pipes that have marks with a depth of greater than 10% of the wall thickness due to transport.

For the laying and assembly work, only pipeline construction firms may be hired that use personnel with expert training according to WHG Section 19 I and that are certified by the plastic welding testing according to DVS 2212 Part 1. The joining of the pipes and pipeline fittings by means of welding is to be performed by plastic welders that possess welder certification according to DVS 2212 Part 1.

The welding of pipes and fittings by means of butt welding electrofusion welding or socket welding is to be done according to DVS 2207 Part 15 "Welding of thermoplastic materials; welding of pipes, pipeline fittings, and sheets made of PVDF." The processing data for the welding is to be recorded and delivered to the customer after completion of the welding work.

For above-ground laying of the piping systems, DVS 2210-1 also applies to the configuration.

The compression trial on the installed pipeline system is to be performed and documented according to DIN EN 805.