

AGRUAIR PIPING SYSTEMS FOR **COMPRESSED AIR** ΕN



The AGRU success story already spans seven decades. Founded in 1948 by Alois Gruber sen., the company is now counted among the most important comprehensive suppliers for piping systems, semi-finished products, protective liners for concrete and geomembranes made of engineering plastics. The fact that we provide everything as a single source supplier distinguishes us from many competitors. We process exclusively high-quality thermoplastic materials. And when it comes to problem-solving expertise for material selection and installation, we are your best partner.

AGRUAIR is a compressed-air system for loads of up to 16 bar which is available in outer diameters from 20 mm to 110 mm. Made of PE 100 it is ideal for compressed-air applications. PE 100 remains permanently free of corrosion, is resistant to oils used in compressors, to stress cracks, and impacts, and can be used between - 40° and + 60° Celsius. As is usual in the case of PE lines, AGRUAIR can be installed both above ground and underground. The installation is very simple and typically handled by means of heating element socket welding or electrical socket welding. AGRUAIR has been approved for ON EN 12201. The system is approved by CAL/OSHA in the United States and approval by the CSA Group exists for Canada. All the important PE standards have also been met.









AGRUAIR The more economical pressure pipe system

Three things are particularly important when it comes to installing compressed-air and plumbing pipe systems: efficiency, operational reliability and ease of installation. The AGRUAIR system meets all these requirements. Regardless of whether you need to transport air or water under pressure, these flexible, temperature-resistant plastic piping systems are always your best choice.

High economic efficiency

Easy installation & universal use due to wide range of fittings

AGRUAIR can be installed extremely quickly

- comprehensive range of fittings in PE 100
- heating element socket welding, butt welding or electrical welding possible
- pipelines can be laid above ground or underground

Maintenance-free pipework

No corrosion and debris inside the pipe because of smooth surfaces

AGRUAIR offer the right solution for every requirement

- resistance to corrosion, abrasion and many chemicals
- completely smooth interior surfaces prevent deposits effectively
- wide operational temperature range of 40° to + 70° Celsius

Full pressure resistance

AGRUAIR made of PE 100 is ideal for transporting compressed air

PE 100 blue offers several advantages over PVC, ABS and copper

- it is significantly superior to PVC in terms of impact resistance and elasticity
- in contrast to ABS, it is permanently resistant to compressor oil
- 26% less pressure loss compared to copper thanks to smooth and corrosion-free interior surfaces







AGRUAIR - efficient compressed-air transport

The material advantages that PE 100 is known for, such as toughness, flexibility and elongation at break, are ideal for the AGRUAIR compressed-air pipelines and ensure optimal flow conditions. Compressing air also always creates condensation, which causes corrosion or patina inside metal pipes. PE 100 remains completely maintenance and corrosion-free, and even the machine oil from the compressor cannot damage the material. AGRUAIR pipes are insensitive to vibrations as well. Thanks to their flexibility, low weight and very good welding properties, installation is easy and safe.

Maintenance-free pipework

AGRUAIR are set apart by the fact that they are completely maintenance-free. Thanks to the robustness and flexibility of the plastics, the pipes' smooth interior walls and the complete lack of corrosion, a system typically remains sealed and deposit-free for decades once welded. The plastics PE 100 can fulfil virtually any requirement in the wide temperature range from - 40° to + 60° Celsius. To regulate the bleeding of compressed air, AGRUAIR is equipped with a controllable plastic ball valve.



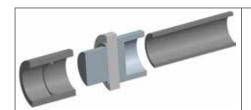
Comprehensive range of fittings

Efficiency is extremely important when it comes to AGRUAIR. And this includes making them fast and easy to install. The comprehensive range of fittings in PE 100, some of which have metal inserts, ensures that pipes can be joined quickly and safely. In addition to heating element socket welding, electrical socket welding is also possible.

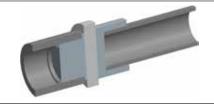


Installation using socket welding

In heating element socket welding, the pipe and fitting are welded overlapping. The pipe end and fitting are heated up to the required welding temperature using a sleeve- or socket-shaped heating element and then welded together. The pipes, heating element and fitting are dimensionally matched so that a joining pressure builds up during welding. Heating element socket welding can be performed manually with outside pipe diameters of up to 50 mm. In the case of larger pipes, a welding device is necessary due to the increasing joining forces.



Socket welding process preparation



Adjusting and heating



Joining and cooling









Clean installation

AGRUAIR pipes are supplied as rods. When it comes to the installation of pipelines in visible areas and below ceilings in particular, the big advantage of AGRUAIR pipes is their linearity.

AGRUAIR product range

Pipes

AGRUAIR PE 100 blue OD 20 mm - OD 110 mm



Elbow 90°, Transition elbows 45° and 90° AGRUAIR PE 100 blue OD 20 mm - OD 110 mm



Elbow 45°

AGRUAIR PE 100 blue OD 20 mm - OD 110 mm



Reducer concentric AGRUAIR PE 100 blue

OD 25/20 mm - OD 110/90 mm



Flange adaptors

AGRUAIR PE 100 blue OD 20 mm - OD 110 mm



Tees normal/reduced

AGRUAIR PE 100 blue OD 20 mm - OD 110 mm



Adaptor with metal thread





Ball valve

AGRUAIR PE 100 blue OD 20 mm – OD 63 mm



E-couplers

AGRUAIR PE 100 black OD 20 mm - OD 110 mm







Your distributor



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