**Quick Connectors**

**TWIST II**

**Variants**
Since all our TWIST II are made of thermoplastic materials, we can adopt the connector features and customize our connectors to suit your demands.

**Materials**
The components are combined in a way to match the specific requirements of each application and to provide the best possible physical and chemical properties. TWIST II is manufactured in recyclable materials with low permeation values. PA 66 with a glass fibre content of 30% is usually used for standard products. For coolant applications, we recommend the use of heat and hydrolysis stabilized glass fibre reinforced PA materials. Special applications, e.g. charge air systems with high temperatures require specific material grades. On request, we are ready to advise you on the best-suited material choice. O-rings are made of standard materials EPDM, NBR, FPM and FVMQ.

**Standard materials**
TWIST II quick connectors are made out of recyclable materials. As a standard solution Polyamide 6.6 with 30% to 50% glass fiber reinforcement is used. When an application requires, other engineering thermoplastic material can be used. Different reinforcement fillers and additional heat or hydrolysis resistance can also be added. Application-based design is possible when a minimum required quantity is ordered.

**TWIST III – QUICK CONNECTORS**

TWIST III is a quick connector series for charged air system applications. Developed to meet extremely tough requirements, especially in low-emission vehicles, it combines a low assembly effort with very good hydrolysis tolerance, temperature resistance and mechanical performance. TWIST III operates at approx. 3.5 bar excess pressure and engine compartment temperatures of –48°C up to +135°C. Standard design configurations, 90° and adaptors. Special designs are also available.

**The advantages at a glance**
- Compact design – space savings
- Always in “closed” position
- Easy open – no tool needed

**Applications**
Charge air applications – cold side
Quick Connectors

TWIST III

### Standard Sizes and Designs

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<tr>
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TWIST III connector size designations are determined by the sealing diameter (ØD1) of the TWIST III spigot. Current standard diameters are listed above. Larger diameters may be added. Five standard sizes are available. TWIST III SP (spin-weld) is for applications where the quick connector will be spin-welded to other injection or blow-molded plastic components. TWIST III is also available for hot plate welding (HP). Based on recommendations from a spin-welding equipment supplier, this design includes weld surfaces, flash traps and support surfaces. This connector is tested using the GMW 15803 specification as reference.

### Optional Designs

Materials and construction

Standard versions are made from recyclable polyamide 66 with 35% to 50% of GF. O-rings are currently available in silicone for diesel fuel resistance and AEM for gasoline resistance. Housing is made from PBT with 30% to 45% material. Both plastic and metal designs can be used.

TWIST III quick connectors have a 360° symmetrical design. As they can be opened from any angle, they are perfect for tight environments as well as spin-welding. Additional cut-outs or knobs are not necessary.

**Examples**

TWIST III quick connectors are ideal for assembly lines and can be used in textile, metal, and plastic applications. They are particularly suitable for injection and blow-molded plastic components.
## Quick Connectors

### TWIST III

**Examples**

TWIST III V0 SP, welded on a blow molded pipe

**Standard sizes and designs**

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**Materials and construction**

Standard versions are made from recyclable polyamide 66 with 35% to 50% GF. O-rings are currently available in Silicone (for diesel fuel resistance) and AEM (for gasoline resistance). For housing, we have also PBT with 30% to 45% material. Note that both plastic and metal spigots can be used. TWIST III quick connectors have a 360° symmetrical design. As they can be opened from any angle, they are perfect for tight environments as well as spin-weld applications. Additional cut-outs or knobs are not necessary.