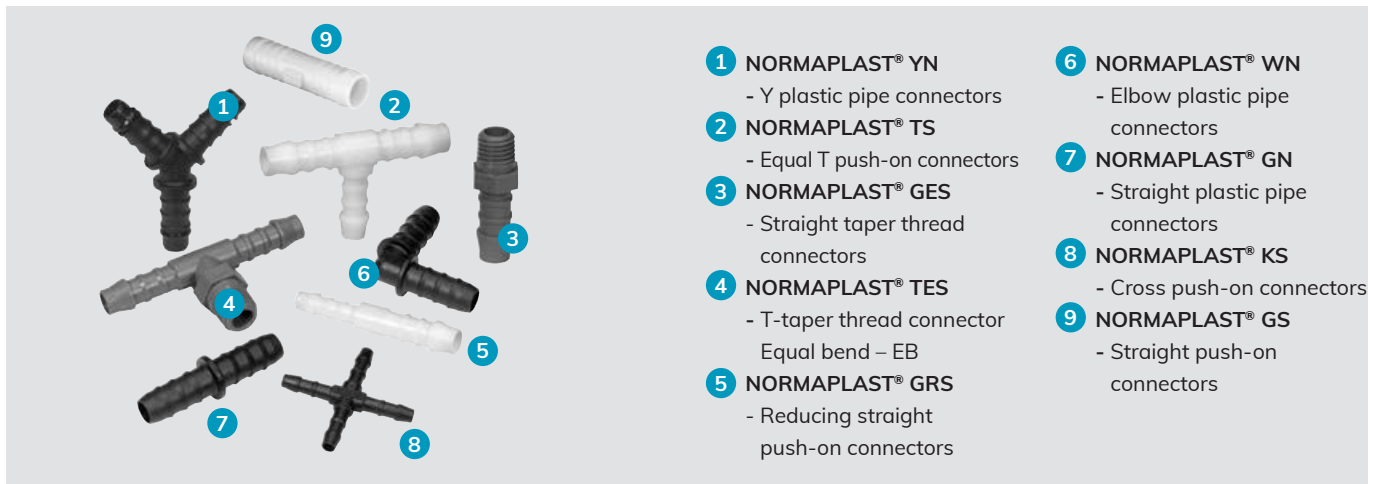


iQ parts
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**SPECS &
INFORMATION**



- 1** NORMAPLAST® YN
- Y plastic pipe connectors
- 2** NORMAPLAST® TS
- Equal T push-on connectors
- 3** NORMAPLAST® GES
- Straight taper thread connectors
- 4** NORMAPLAST® TES
- T-taper thread connector
Equal bend – EB
- 5** NORMAPLAST® GRS
- Reducing straight push-on connectors
- 6** NORMAPLAST® WN
- Elbow plastic pipe connectors
- 7** NORMAPLAST® GN
- Straight plastic pipe connectors
- 8** NORMAPLAST® KS
- Cross push-on connectors
- 9** NORMAPLAST® GS
- Straight push-on connectors

Hose connectors

NORMAPLAST® SV products are proven plastic hose and pipe connection components that create secure, reliable and affordable connections in lines used for transporting media. NORMAPLAST® SV hose and pipe connectors are used in the automotive construction industry as well as practically every other industrial sector. They are manufactured according to automotive standards and are NOT suitable for medical applications.

Advantages at a glance

- ✓ Extremely strong
- ✓ Durable
- ✓ Low weight
- ✓ Can be used for damping/absorption
- ✓ Resistant to abrasion
- ✓ Highly resistant to impact

Applications

- Machine building
- White goods
- Chemical industry
- Irrigation systems
- Food and beverage industry
- Railway industry
- Agricultural machines
- Building machines
- Engine manufacturing
- Pump and filter

Did you know?

We also offer products for medical applications with our brand CONNECTORS. You can find more information on the following website:

www.normagroup.com/connectors

Materials

| Materials | | | | |
|--------------------------|--|---|---|---|
| Mechanical Properties | PP Moplen HP501H | POM Polyacetal copolymer standard material hose connectors | PA6 Polyamide unreinforced standard material threaded connectors | PA with glass fiber Polyamide reinforced standard material pipe connectors |
| Operation temperature | 0°C to +80°C short term (up to 1h) max. +100°C | -40°C to 80°C, short-term (up to 1h) 110°C | -40°C to 90°C, short-term (up to 1h) 120°C | -40°C to 120°C, short-term (up to 1h) 150°C |
| Max. admissible pressure | 10bar | 10bar | 10bar | 10bar |

| Applications | Recommended material range |
|--|----------------------------|
| Food area / drinking water area / chemical area | >POM< |
| Chemical area | >PP< |
| Chemical area (with aggressive media) | >PVDF< |
| Fuel / UREA (AdBlue) crank case ventilation | >PA12-GF30< |
| Cooling water / Windshield washer fluid | >PA6.6-GF30< |
| Air (Vaccum brake, Secondary air) TOC (Oil cooler, transmission oil) | >PA6-GF30< |

Thermal properties

In the case of threaded spigots, the expansion coefficient 100×10^{-6} for thermoplastic material must be taken into consideration if temperature fluctuations occur. Our standard materials are classified in accordance with the UL (Underwriters Laboratories) system as follows:

- Flammability rating (UL94)
- POM, PP, PA6, PA6.6, and PA12: HB (Horizontal Burning)

Materials

| Chemical properties of the plastics used | | | | | | | | |
|--|---|-----------------------------|-------------|-----|---------|------|--------|-------|
| No. | Chemical substance | Concentration | Temperature | POM | PP | PA 6 | PA 6.6 | PA 12 |
| 1 | Acetone | 100% | 20 °C/50 °C | 1/3 | 1/1 | 1/0 | 1/0 | 1/0 |
| 2 | Formic acid | 98-100% | 20 °C/50 °C | 4/4 | 1/3 | 4/4 | 4/4 | 4/4 |
| 3 | Ammonium hydroxide (spirits of ammonia) | Any | 20 °C/50 °C | 1/2 | 1/1 | 1/0 | 1/0 | 1/0 |
| 4 | Benzine; normal and super unleaded | Commercial | 20 °C/50 °C | 1/1 | 3/4 | 1/1 | 1/1 | 1/1 |
| 5 | Benzene, benzene hydrocarbons | 100% | 20 °C/50 °C | 3/3 | 3/4 | 1/0 | 1/0 | 1/0 |
| 6 | Bleaching lye (12.5% active chlorine) | Aqueous solution 12.5% | 20 °C/50 °C | 4/4 | 3/3 | 4/4 | 4/4 | 3/3 |
| 7 | Brake fluid (DOT4) | Commercial | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 8 | Butanol | Technically pure | 20 °C/50 °C | 1/2 | 1/1 | 1/0 | 1/0 | 1/0 |
| 9 | Chlorine, chlorine water | Commercial | 20 °C/50 °C | 4/4 | 4/4 | 4/4 | 4/4 | 4/4 |
| 10 | Disinfectant phenols | Diluted solution | 20 °C/50 °C | 4/4 | 1/1 | 4/4 | 4/4 | 4/4 |
| 11 | Diesel fuel, diesel oil | Commercial | 20 °C/50 °C | 1/1 | 1/3 | 1/1 | 1/1 | 1/1 |
| 12 | Decalcifier | Aqueous solution~10% | 20 °C/50 °C | 4/4 | 1/1 | 2/3 | 2/3 | 2/3 |
| 13 | Photographic developer (1:100) | Commercial | 20 °C/50 °C | 1/1 | 1/1 | 4/4 | 4/4 | 4/4 |
| 14 | Natural gas (town gas, coal gas) | Commercial | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 15 | Crude oil | Commercial | 20 °C/50 °C | 1/1 | 3/3 | 1/1 | 1/1 | 1/1 |
| 16 | Acetic acid (glacial acetic acid) | 90% | 20 °C/50 °C | 4/4 | 1/2 | 4/4 | 4/4 | 4/4 |
| 17 | Ethyl alcohol | 96% ((tech. pure) | 20 °C/50 °C | 1/2 | 1/1 | 1/0 | 1/0 | 1/0 |
| 18 | Photographic emulsion | Commercial | 20 °C/50 °C | 1/0 | 1/1 | 1/0 | 1/0 | 1/0 |
| 19 | Fruit juices | Commercial | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 20 | Glycerine | Technically pure | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 21 | Glystantin | Commercial | 20 °C/50 °C | 1/1 | 1/1 | 3/3 | 3/3 | 3/3 |
| 22 | Heating oil | Commercial | 20 °C/50 °C | 1/1 | 1/3 | 1/1 | 1/1 | 1/1 |
| 23 | Hydraulic fluid | Commercial | 20 °C/50 °C | 1/0 | 1/3 | 1/1 | 1/1 | 1/1 |
| 24 | Carbon dioxide, carbonic acid | Technically pure, saturated | 20 °C/50 °C | 1/1 | 1/1 | 1/0 | 1/0 | 1/0 |
| 25 | Coolants (based on glycol) | Commercial | 20 °C/50 °C | 1/1 | 1/1 | 3/3 | 1/1 | 1/1 |
| 26 | Methane | Technically pure | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 27 | Methanol | Technically pure | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 3/3 |
| 28 | Methyl ethyl ketone | 100% | 20 °C/50 °C | 3/3 | 1/3 | 1/0 | 1/0 | 1/1 |
| 29 | Engine oils (HD) | Commercial | 20 °C/50 °C | 1/1 | 1/3 | 1/1 | 1/1 | 1/1 |
| 30 | Sodium hydroxide (lye; caustic soda) | 40% | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 31 | Ozone | Gaseous | 20 °C/50 °C | 4/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 32 | Propanol | Technically pure | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 2/2 |
| 33 | Propane (liquefied gas) | Liquid | 20 °C/50 °C | 1/1 | 1/1 | 1/0 | 1/0 | 1/0 |
| 34 | Propene | 96% | 20 °C/50 °C | 1/0 | 1/1 | 1/0 | 1/0 | 1/0 |
| 35 | Rape oil (rape oil methyl ester) | Commercial | 20 °C/50 °C | 1/1 | 2/2 (*) | 1/1 | 1/1 | 1/1 |
| 36 | Hydrochloric acid | Aqueous, 10% | 20 °C/50 °C | 4/4 | 1/1 | 4/4 | 4/4 | 3/3 |
| 37 | Lubricating oil/grease, soft soap | Commercial | 20 °C/50 °C | 1/1 | 1/2 | 1/1 | 1/1 | 1/1 |
| 38 | Sulphuric acid | Aqueous, 10% | 20 °C/50 °C | 4/4 | 1/2 | 3/3 | 3/3 | 2/2 |
| 39 | De-icing salt solution (brine) | Saturated | 20 °C/50 °C | 1/2 | 1/1 | 1/1 | 1/1 | 1/1 |
| 40 | Soap suds (dissolved detergent) | Diluted solution | 20 °C/50 °C | 1/1 | 2/2 (*) | 1/1 | 1/1 | 1/1 |
| 41 | Water (drinking, river, sea) | Technically pure | 20 °C/50 °C | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| 42 | Citric acid | 10% | 20 °C/50 °C | 2/4 | 1/1 | 1/0 | 1/0 | 1/0 |

Explanation of abbreviations:

POM = Acetal copolymer

PP = Polypropylene

PA = Polyamide

0 = No data available/Not possible to make an appropriate statement

1 = Highly stable/suitable (change in dimensions: none or negligible and reversible; no damage even after extended period)

2 = Very stable/suitable (change in dimensions after short period: none or negligible and reversible; little change in dimensions, possibly irreversible change to properties after extended period)

3 = Limited stability (considerable changes to dimensions, possibly irreversible change to properties after extended period)

4 = Unstable/unsuitable (soluble or serious effects after a short period)

(*) Moisture expansion

The specifications in this catalogue are based on tests carried out by the granular material manufacturer. They are intended to serve as guidelines for our customers, but cannot simply be applied to any case in which customers expose these products to demands which fall outside the scope of the tests performed. On no account should this be done without first consulting us.

Our customers must perform their own tests to determine whether our NORMAPLAST® plastic hose connecting components are suitable for the application they are intended to be used in. We will be happy to offer any advice or information required.

Our liability is subject exclusively to our terms of delivery and sale. Special versions can be produced if an appropriate quantity of the component in question is ordered.

Please contact the relevant manufacturer before using a product as a safety component.



Use as a hose connector



Use as a push-on connector

ET – T compression connectors



| ET – T COMPRESSION CONNECTORS | | | | | | |
|---------------------------------|------------------|----------------|----------------|------------------|------------------|--------------------------------|
| Nominal size ID PA tube (in mm) | Designation | D ₁ | D ₂ | L ₁ ~ | L ₂ ~ | Material PA6-GF30* Product No. |
| 6 | ET 6 x 1-R 1/8 | 6 x 1 | R 1/8 con. | 19 | 23 | 0780 8904 001 |
| | ET 6 x 1-R 1/4 | 6 x 1 | R 1/4 con. | 23 | 23 | 0780 8904 002 |
| | ET 6 x 1-M10 x 1 | 6 x 1 | M10 x 1 con. | 19 | 23 | 0780 8904 003 |
| 8 | ET 8 x 1-R 1/8 | 8 x 1 | R 1/8 con. | 19 | 23 | 0780 8904 021 |
| | ET 8 x 1-R 1/4 | 8 x 1 | R 1/4 con. | 23 | 23 | 0780 8904 022 |
| | ET 8 x 1-M10 x 1 | 8 x 1 | M10 x 1 con. | 19 | 23 | 0780 8904 023 |

* Glass fiber content

EW/WV – Elbow compression connectors



| EW/WV – ELBOW COMPRESSION CONNECTORS | | | | | | |
|--------------------------------------|--------------------|----------------|----------------|------------------|------------------|--------------------------------|
| Nominal size ID PA tube (in mm) | Designation | D ₁ | D ₂ | L ₁ ~ | L ₂ ~ | Material PA6-GF30* Product No. |
| 6 | EW 6 x 1 - R 1/8 | 6 x 1 | R 1/8 con. | 19 | 23 | 0780 8905 001 |
| | EW 6 x 1 - R 1/4 | 6 x 1 | R 1/4 con. | 23 | 23 | 0780 8905 002 |
| | EW 6 x 1 - M10 x 1 | 6 x 1 | M10 x 1 con. | 19 | 23 | 0780 8905 003 |
| 8 | EW 8 x 1 - R 1/8 | 8 x 1 | R 1/8 con. | 19 | 23 | 0780 8905 021 |
| | EW 8 x 1 - R 1/4 | 8 x 1 | R 1/4 con. | 23 | 23 | 0780 8905 022 |
| | EW 8 x 1 - M10 x 1 | 8 x 1 | M10 x 1 con. | 19 | 23 | 0780 8905 023 |
| | WV 8 x 1 | 8 x 1 | 8 x 1 | 23 | 23 | 0781 8900 011 |

* Glass fiber content

VT/VTR – Equal T and reducing T compression connectors



| VT/VTR – EQUAL T AND REDUCING T COMPRESSION CONNECTORS | | | | | | |
|--|-----------------------|----------------|----------------|------------------|------------------|--------------------------------|
| Nominal size ID PA tube (in mm) | Designation | D ₁ | D ₂ | L ₁ ~ | L ₂ ~ | Material PA6-GF30* Product No. |
| 6 and/or 8 | VT 6 x 1 | 6 x 1 | 6 x 1 | 23 | 23 | 0781 8900 001 |
| | VT 8 x 1 | 8 x 1 | 8 x 1 | 23 | 23 | 0781 8900 002 |
| | VTR 6 x 1-8 x 1-6 x 1 | 6 x 1 | 8 x 1 | 23 | 23 | 0781 8900 021 |
| | VTR 8 x 1-6 x 1-8 x 1 | 8 x 1 | 6 x 1 | 23 | 23 | 0781 8900 022 |

* Glass fiber content

VG/VGR – Straight/Reducing compression connectors



| VG/VGR – STRAIGHT/REDUCING COMPRESSION CONNECTORS | | | | | |
|---|-------------------|----------------|------------------|----|--------------------------------|
| Nominal size ID PA tube (in mm) | Designation | D ₁ | L ₁ ~ | SW | Material PA6-GF30* Product No. |
| 6 and/or 8 | VG 6 x 1 | 6 x 1 | 31 | 17 | 0781 8901 003 |
| | VG 8 x 1 | 8 x 1 | 31 | 17 | 0781 8901 002 |
| | VGR 8 x 1 - 6 x 1 | 6 x 1 | 31 | 17 | 0781 8901 004 |

* Glass fiber content



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