QSP PRODUCTS - Datasheet POM hose connectors

QSP hose connectors are engineered for superior performance in demanding environments. They are a proven solution across a wide range of industries due to their excellent mechanical and chemical resistance, low weight, and robust construction.

Key Features:

- Extremely strong and durable construction.
- Lightweight design for ease of installation and reduced system load.
- Fuel and chemical resistant.
- Shock and vibration resistant.
- Suitable for multiple industrial applications.
- Long service life and sustainability.

Availability:

- Available in various designs and sizes.

Applications:

- Mechanical engineering.
- Automotive sector.
- Agricultural machinery.
- Household appliances (white goods).
- Chemical and process industry.

Material Properties:

- Standard Material: POM (Polyacetal Copolymer).
- Operating Temperature Range: –40°C to +80°C.
- Short-Term Temperature Resistance (up to 1 hour): +110°C.
- Working Pressure: Up to 10 bar.

Thermal Expansion:

- Coefficient of thermal expansion: ~100 x 10^{-6} /K
- When using threaded connections, thermal expansion must be considered to maintain sealing integrity

Flammability Classification (UL94):

- POM: Classified as HB (Horizontal Burning)

Table POM chemical applications

On the next page you will see a table with POM Chemical Applications for the hose connectors. The values below indicate the resistance.

- 0 = no data available / Not possible to give an appropriate explanation
- 1 = very stable / fitting
- 2 = stable / fitting
- 3 = limited stability
- 4 = unstable / unsuitable

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POM Chemical Applications			
Chemical substance	**Concentration**	**Temperature**	**Resistant**
Acetic acid (glacial acetic acid)	96%	20°C/50°C	4/4
Acetone	100%	20°C/50°C	1/3
Ammonium hydroxide	Any	20°C/50°C	1/2
Benzene, benzene hydrocarbons	100%	20°C/50°C	3/3
Benzine, normal and super unleaded	Commercial	20°C/50°C	1/1
Bleaching lye (12.5% active chlorine)	Aqueous solution 12.5%	20°C/50°C	4/4
Brake fluid (DOT4)	Commercial	20°C/50°C	1/1
Butanol	Technically pure	20°C/50°C	1/2
Carbon dioxide	Technically pure, saturated	20°C/50°C	1/1
Chlorine, chlorine water	Commercial	20°C/50°C	4/4
Citric acid	10%	20°C/50°C	2/4
Coolants (based on glycol)	Commercial	20°C/50°C	1/1
Crude oil	Commercial	20°C/50°C	1/1
De-icing salt solution (brine)	Saturated	20°C/50°C	1/2
Dicalium	Aqueous solution ~10%	20°C/50°C	4/4
Diesel fuel, diesel oil	Commercial	20°C/50°C	1/1
Disinfectant phenols	Diluted solution	20°C/50°C	1/1
Engine oils (fit)	Commercial	20°C/50°C	1/1
Ethyl alcohol	96% (tech. pure)	20°C/50°C	1/2
Formic acid	98-100%	20°C/50°C	4/4
Fruit juices	Commercial	20°C/50°C	1/1
Glycerine	Technically pure	20°C/50°C	1/1
Glycol	Commercial	20°C/50°C	1/1
Heating oil	Commercial	20°C/50°C	1/1
Hydraulic fluid	Commercial	20°C/50°C	1/0
Hydrochloric acid	Aqueous, 10%	20°C/50°C	4/4
Lubricating oil/grease, soft soap	Commercial	20°C/50°C	1/1
Methane	Technically pure	20°C/50°C	1/1
Methanol	Technically pure	20°C/50°C	1/1
Methyl ethyl ketone	100%	20°C/50°C	3/3
Natural gas (town gas, coal gas)	Commercial	20°C/50°C	1/1
Ozone	Gaseous	20°C/50°C	4/4
Photographic developer (1:100)	Commercial	20°C/50°C	1/1
Photographic emulsion	Commercial	20°C/50°C	1/0
Propane (liquefied gas)	Liquid	20°C/50°C	1/1
Propanol	Technically pure	20°C/50°C	1/1
Propene	96%	20°C/50°C	1/0
Rape oil (rape oil methyl ester)	Commercial	20°C/50°C	1/1
Soap suds (dissolved detergent)	Diluted solution	20°C/50°C	1/1
Sodium hydroxide (lye; caustic soda)	40%	20°C/50°C	1/1
Sulphuric acid	Aqueous, 10%	20°C/50°C	4/4
Water (drinking, river, sea)	Technically pure	20°C/50°C	1/1

Important Note:
The above table is intended as a guideline only. The suitability of the product for the specific application must always be carefully verified. For critical installations, please contact us for technical advice.