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Fittings overview

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	Plastic				Metal			
Designation	NPKA	NPQP	QS(M)	QS-V0	NPQM	NPQH	NPCK	CRQS
Operating medium	Compressed air, vacuum, water*	Compressed air, vacuum	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*	Compressed air, vacuum, water*
Temperature [°C]	-10 ... +60	-20 ... +60	-10 ... +80	0 ... +60	-20 ... +70	0 ... +150	-20 ... +120	-15 ... +120
Temperature-dependent operating pressure [bar]	-0,95 ... +10	-0,95 ... +10	-0,95 ... +14	-0,95 ... +10	-0,95 ... +16	-0,95 ... +20	-0,95 ... +12	-0,95 ... +10
Housing material	POM and PA66	PP	PBT and nickel-plated brass	PBT	Nickel-plated brass	Nickel-plated brass	Stainless steel	Stainless steel
Thread	G thread	R thread	M, G and R thread	G and R thread	M and G thread	M and G thread	M and G thread	M and R thread
Resistant to chemicals	++	+++	+	+	+	++	+++	+++
Suitable for the food industry	+++ FDA	+++ FDA	–	–	–	+++ FDA	+++ FDA	+++
Corrosion resistance class CRC	4	4	1	1	1	3	4	4
Special features	Cleanroom compatible, 100% Polymer	FDA compliant internal and external parts	Wide choice of variants	Resistant to welding spatter	Robust	Resistant to high temperatures	Clean Design	Highly resistant to corrosion

* Other media upon request
** Perfluoralkoxyalkan

QS fittings



Range of applications

- Standard applications

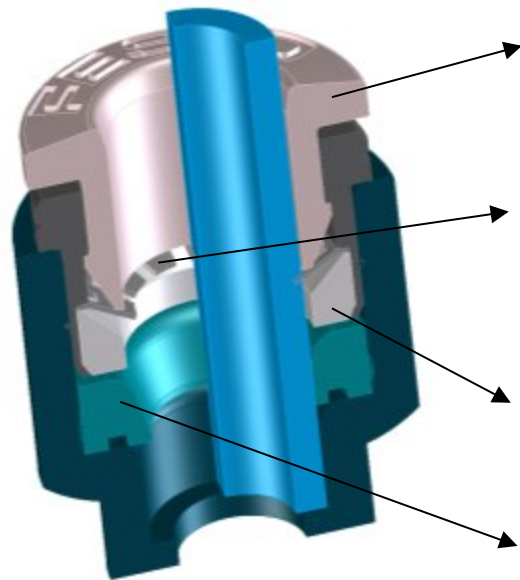
Features

- Sizes M3 ... 3/4"
- Tubing connector Ø3 ... Ø22
- Wide range of products

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 14 bar
- Ambient temperature:
-10°C ... +80°C

4 product details of the QS are making the difference



Product detail	Feature	Benefit
Release ring	- Optimized size that makes easy to push on it and release the tube - No axial movement while switching on and of the pressure	- Convenience - Safety - Reliability
Clamping disc	- Because of the special designed claw: Highest clamping forces (higher than burst pressure of most common tubes) - Lowest tube inserting force for an easy and quick installation	- Safety - Performance - Reliability - Convenience
Distance ring	Guarantees that the tube has no kink at the place of the sealing lip. It avoids leakage	- Profitability - Reliability - Performance
Sealing lip	- Lowest tube inserting and releasing force for an easy and quick de-/installation - Compensation of little grooves on the tubing surface to avoid leakage and thus reducing of energy costs - No leakage with vacuum applications because of the special sealing lip design	- Convenience - Reliability - Performance - Profitability

QS-V0 Fittings



Range of applications

- Resistant to welding spatter
- Body in White

Features

- Flame resistant material according to ULS4 - V5

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 10 bar
- Ambient temperature:
0°C ... +60°C

NPQP polypropylene fittings



Range of applications

- Food and beverage industry
- Process industry
- Cleanroom
- Biotechnology/pharmaceuticals

Features

- Polypropylene housing and thread
- FDA listed material
- Resistant to acids and cleaning agents
- Corrosion resistance class CRC 4

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 10 bar
- Ambient temperature:
-20°C ... +60°C

NPKA Polymer click fitting



Range of applications

- Food and beverage production
- Electronics and semiconductor industries
- Assembly of small workpieces and battery cells

Features

- Lightweight, corrosion-free polymer
- Free of non-ferrous metal, fluoride, silicon, grease
- FDA listed material
- Cleanroom compatible
- Corrosion resistance class CRC 4

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 10 bar
- Ambient temperature:
-10°C ... +60°C

NPQH Metal fittings



Range of applications

- Food and beverage industry
- Whenever a high level of chemical resistance and high temperatures are required

Features

- Brass, chemically nickel-plated (15 µm)
- Improved clamping technology
- FDA listed material
- Corrosion resistance class CRC 3

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 20 bar
- Ambient temperature:
-20°C ... +150°C

NPQM metal fitting



Range of applications

- Automotive
- Wood machining
- Electronics industries
- ESD protected areas

Features

- Housing and releasing ring made of nickel-plated brass
- Anti-static

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 16 bar
- Ambient temperature:
-20°C ... +70°C

NPCK Clean Design stainless steel fittings



Range of applications

- Food and splash zone in the food industry
- Process automation and the pharmaceutical industry

Features

- Stainless steel housing: The design of the union nut avoids edges where dirt could accumulate
- FDA listed material
- Chemical and temperature resistant
- Corrosion resistance class CRC 4

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 12 bar
- Ambient temperature:
-20°C ... +120°C

CRQS Stainless steel fittings



Range of applications

- Applications with extreme media influences
- Food and splash zone in the food industry
- In the outside, eg. process automation

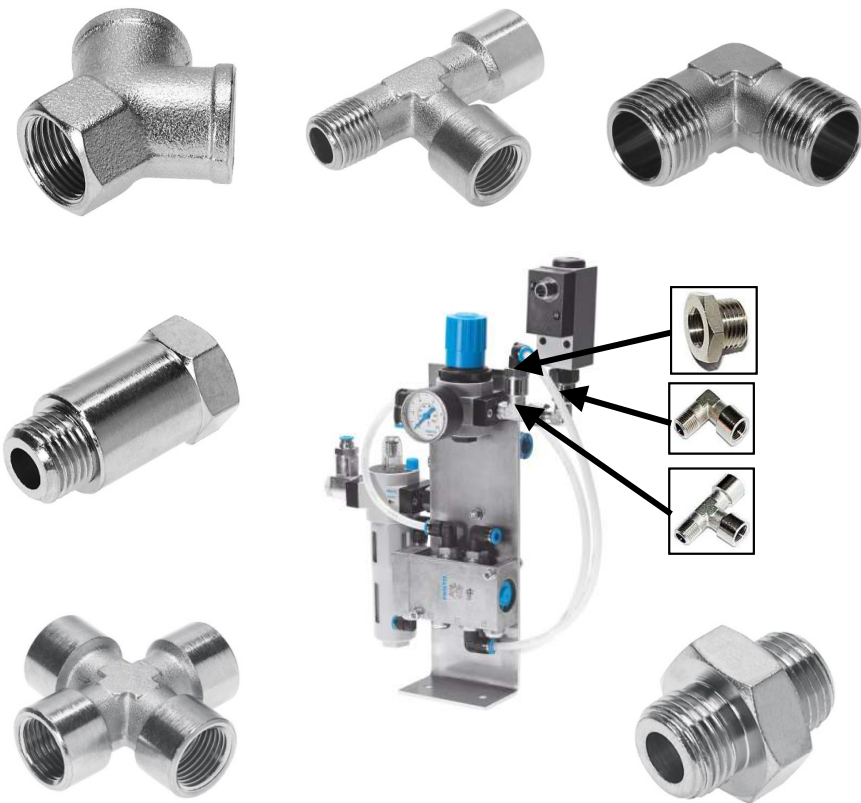
Features

- Stainless steel housing
- EG10/2011 listed material
- High chemical and temperature resistance
- Corrosion resistance class CRC 4

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 10 bar
- Ambient temperature:
-15°C ... +120°C

NPFC Threaded fittings



Range of applications

- Standard applications
- Applications with high temperature and pressure ranges

Features

- Nickel-plated brass

Pressure- and temperature range

- Temperature dependent operating pressure:
-0,95 ... 50 bar
- Ambient temperature:
-20°C ... +150°C