



Plastics

Stainless steel

Brass

Aluminium

Steel

Valves, shut-off valves

Cleaning options

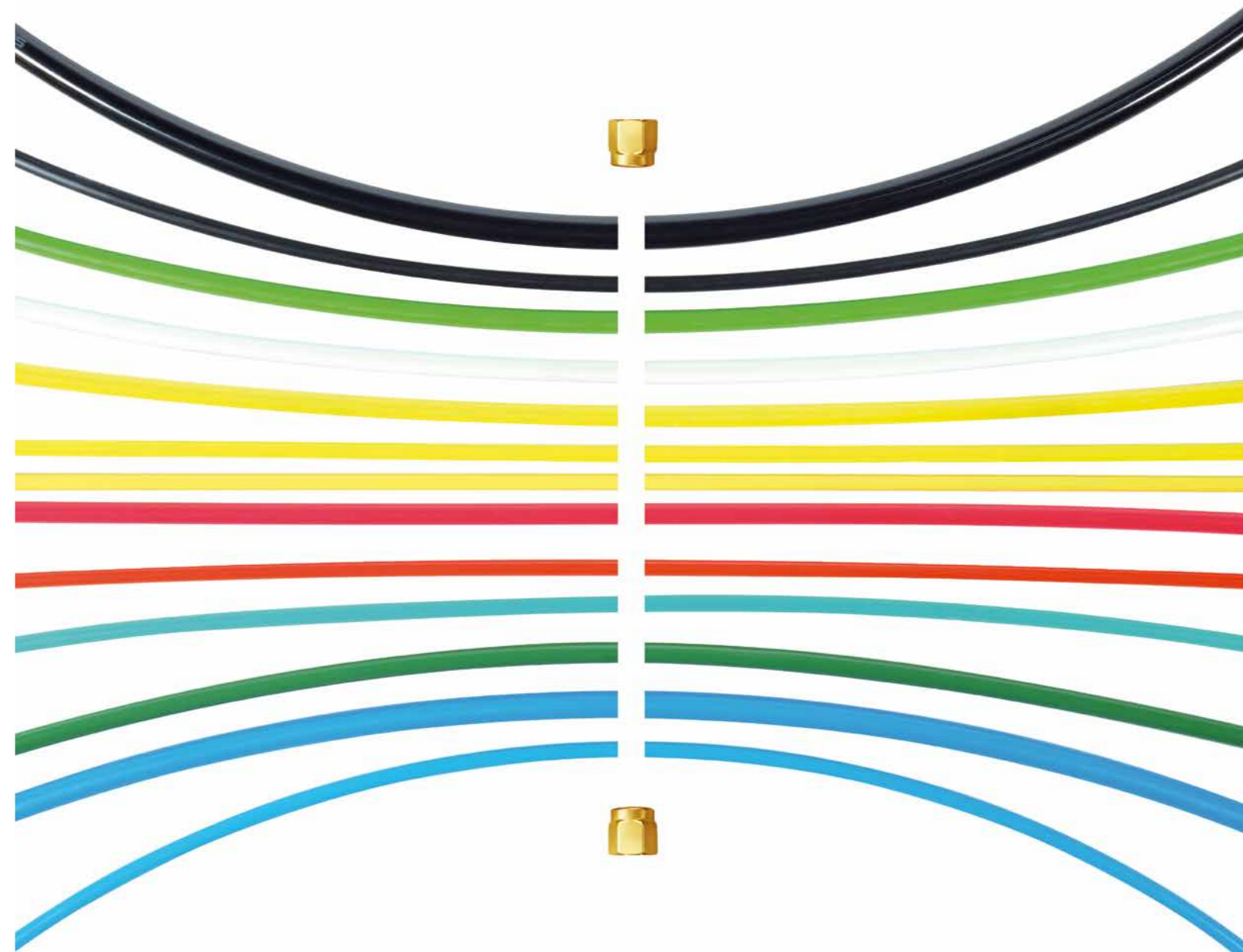
OXYGEN

Ready-to-fit tubes





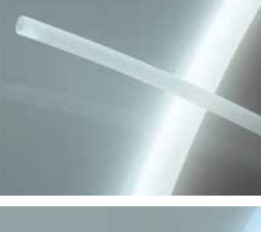



Pre-assembled kits

Consulting

**the best part between two connections
also comes from SERTO**



Thermoplastic hoses

| | Hose type | Material | Application examples | Resistance | Dimensions outer diameter | Pressure at +23 °C depending on diameter | Temperature range | Colors | Characteristics |
|--|------------------|---|--|---|---------------------------|--|---|--|---|
|  | PA | Polyamide PA 12 soft Polyamide PA 10.12 soft | <ul style="list-style-type: none"> - compressed air, hydraulics, negative pressure - cooling lines - fuel and lubricant systems | <ul style="list-style-type: none"> - oils, fats, fuels, hydraulic fluids, alkalis, saline solutions - in black, good UV resistance - flammability according to UL 94 HB | 4 to 15 mm | 12 to 44 bar | -40°C to +100°C short-term up to +125°C | white, black, blue, red, yellow, green; or other colors on request | <ul style="list-style-type: none"> - impact and notch impact resistant - low water absorption - narrow tolerances - smooth surface and impermeable - silicone and halogen free |
|  | LDPE | Polyethylene LD (low density) | <ul style="list-style-type: none"> - compressed air for control technology - sampling lines - flexible pneumatic lines in low pressure range - environments with high humidity | <ul style="list-style-type: none"> - good chemical resistance to aqueous solutions of acids, alkalis, salts and organic solvents - in black, good UV resistance - flammability according to UL 94 HB | 4 to 16 mm | 6 to 21 bar | -10°C to +60°C short-term up to +80°C | white, black, blue, red, yellow, green; or other colors on request | <ul style="list-style-type: none"> - impact resistant - good flexibility - non-toxic - silicone and halogen free |
|  | PU | Polyurethane | <ul style="list-style-type: none"> - measurement and control technology - pneumatics, hydraulics - machine and motor engineering - fuel and lubricant systems | <ul style="list-style-type: none"> - good chemical resistance to most oils, greases, aliphatic hydrocarbons, oxygen, ozone - in black, good UV resistance - flammability according to UL 94 HB | 6 to 10 mm | 7 to 13 bar | -40°C to +60°C short-term up to +80°C | black, blue | <ul style="list-style-type: none"> - excellent bending capability - low deformation even under long-term stress - high cold flexibility - abrasion resistant - silicone and halogen free |
|  | PTFE | Polytetrafluorethylene FDA approved | <ul style="list-style-type: none"> - laboratory, medicine, chemical industry - analysis technology - vacuum | <ul style="list-style-type: none"> - universal chemical resistance - good temperature resistance - UV and weather resistant - flammability according to UL 94 V0 | 2 to 16 mm | 9 to 46 bar | -200°C to +200°C short-term up to +260°C | natural | <ul style="list-style-type: none"> - non-toxic - high strength, rigidity, toughness, highly flexible - excellent non-stick properties - non-conductive - not suitable for pressure pulsation |
|  | PVDF | Polyvinylidene fluoride FDA approved | <ul style="list-style-type: none"> - medicine, chemical industry - analysis technology - food industry | <ul style="list-style-type: none"> - excellent stress crack and chemical resistance - UV and weather resistant - flammability according to UL 94 V0 | 6 to 16 mm | 15 to 36 bar | -20°C to +120°C short-term up to +150°C | natural | <ul style="list-style-type: none"> - molecular, partially crystalline thermoplastic - ideal combination of strength, toughness and abrasion resistance - sterilizable, weldable - silicone free - low water absorption |
|  | FEP | Fluorinated ethylene propylene FDA approved | <ul style="list-style-type: none"> - semiconductor technology - pharmaceutical, laboratory and medical technology - food industry | <ul style="list-style-type: none"> - universal chemical resistance, especially against oxygen and ozone - good temperature resistance - UV and weather resistant - flammability according to UL 94 V0 | 4 to 12 mm | 8 to 37 bar | -200° to +200°C | natural | <ul style="list-style-type: none"> - non-toxic - silicone free - sterilizable - low permeability - dielectric properties, non-conductive - media clearly visible |
|  | PFA | Perfluoroalkoxy FDA approved | <ul style="list-style-type: none"> - semiconductor technology - pharmaceutical, laboratory and medical technology - food industry | <ul style="list-style-type: none"> - universal chemical resistance, especially against oxygen and ozone - good temperature resistance - UV and weather resistant - flammability according to UL 94 V0 | 6 to 8 mm | 15 to 46 bar | -200°C to +200°C short-term up to +260°C | natural | <ul style="list-style-type: none"> - non-toxic - silicone free - sterilizable - low permeability - dielectric properties, non-conductive |
|  | SERTOflex | Multilayer tube of PE and aluminium core | <ul style="list-style-type: none"> - pneumatic control and process lines, especially in humid and wet environment - air and gas sampling | <ul style="list-style-type: none"> - good corrosion resistance - weather resistant | 6 to 15 mm | 20 to 30 bar | -40°C to +80°C | black | <ul style="list-style-type: none"> - can be bent manually - stable in form - low weight with high stability - silicone and halogen free |