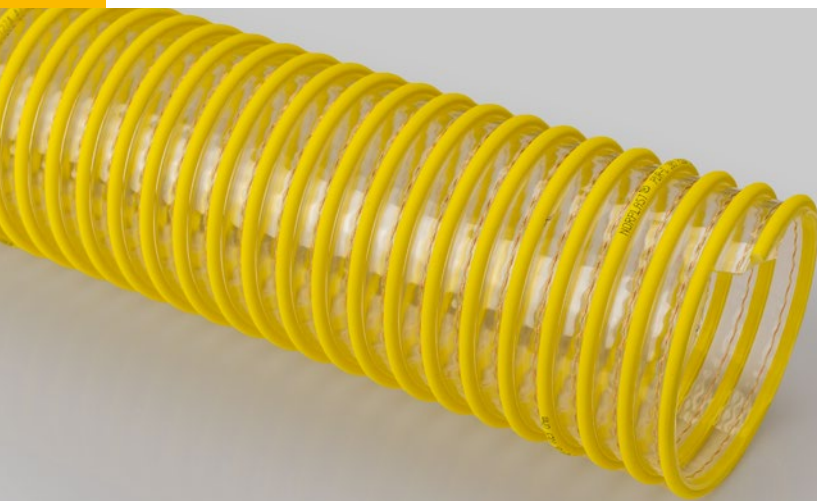


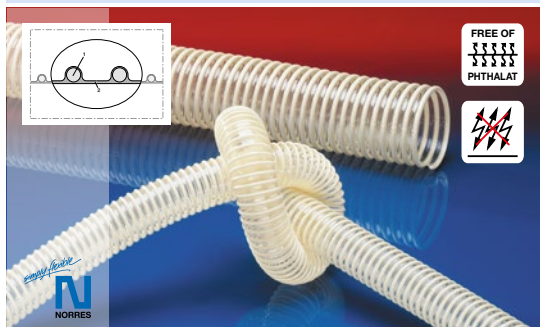


NORPLAST® suction hoses and pressure hoses

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NORPLAST® PUR 385 AS (LD)



- Full plastic suction hose made of PU
- light weight
- abrasion-resistant
- microbe resistant
- antistatic approx. $10^9 \Omega$
- -20°C to $+70^\circ\text{C}$ ($+80^\circ\text{C}$)

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

Wall thickness: Ø20-50: 0,5mm, Ø60-76: 0,6mm, Ø80-100: 0,7mm, Ø110-250: 0,8mm

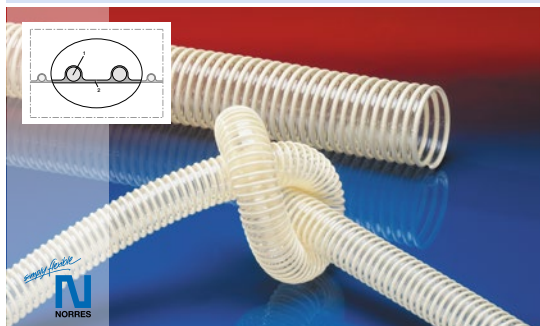
Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 208, 228, 233, 223, 270-271



ideal for: breathing hose, agricultural industry, X-ray machines, mowing machines, welding masks, ship yards

NORPLAST® PUR 385 FOOD (LD)



- Full plastic suction hose made of PU, food grade
- light weight
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, according to FDA 21 CFR 177.2600
- odourless and tasteless
- microbe and hydrolysis resistant
- -20°C to $+70^\circ\text{C}$ ($+80^\circ\text{C}$)

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: special premium ether-polyurethane (Pre-PUR®)

Wall thickness: Ø20-50: 0,5mm, Ø60-76: 0,6mm, Ø80-100: 0,7mm, Ø110-250: 0,8mm

Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 208, 228, 233, 223, 270-271



ideal for: foodstuff, pharmaceutical, X-ray machines

NORPLAST® PUR-C 385 AS (LD)



- Full plastic suction hose made of PU
- light weight
- abrasion-resistant
- microbe resistant
- antistatic $<10^9 \Omega$
- -20°C to $+70^\circ\text{C}$ ($+80^\circ\text{C}$)

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®); grounding wire

Wall thickness: Ø20-50: 0,5mm, Ø60-76: 0,6mm, Ø80-100: 0,7mm, Ø110-250: 0,8mm

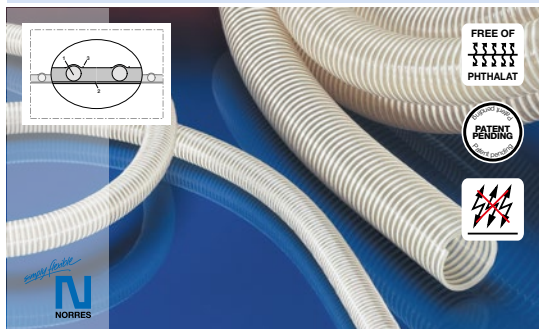
Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 208, 228, 233, 223, 270-271



ideal for: extraction hose

NORPLAST® PUR-C 386 AS (XHD)



- Full plastic transport and suction hose made of PVC / PU
- super-heavy duty
- highly abrasion resistant
- increased pressure and vacuum resistance
- antistatic $<10^9 \Omega$
- -20°C to $+70^\circ\text{C}$ ($+80^\circ\text{C}$)



Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; Wall: antistatic polyurethane inside layer 0,7mm - 1,0 mm approx., exterior soft PVC; grounding wire

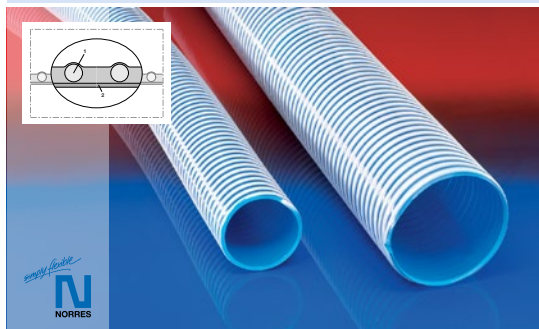
Wall thickness: Ø20-30: 2mm, Ø32-38: 2,2mm, Ø40-45: 2,4mm, Ø50-51: 2,5mm, Ø60: 2,6mm, Ø63-90: 3mm, Ø100-110: 3,4mm, Ø120-150: 3,7mm

Ø: 1.25"/32mm - 4"/100-102mm

Accessories: 211, 233, 270-271

ideal for: granulate conveying, wood pellet conveying, agricultural industry, seeder, silos, tankers

NORPLAST® PUR 387 (XXHD)



- Full plastic transport and suction hose made of PVC / PU
- external abrasion protection via external helix (protects floors and surfaces, prolongs service life, easy to use)
- super-heavy duty and reinforced
- extremely abrasion resistant
- very high pressure, vacuum and compression resistance
- -20°C to $+70^\circ\text{C}$ ($+80^\circ\text{C}$)



Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: premium polyurethane (Pre-PUR®), inside layer 2,0 mm approx. exterior soft PVC

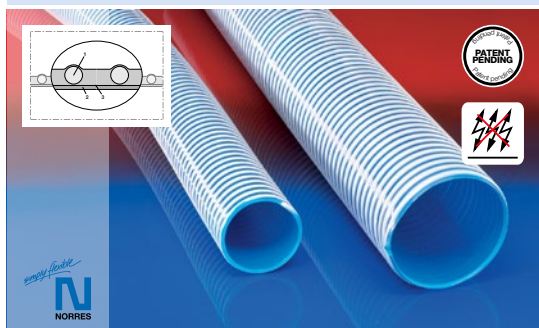
Wall thickness: Ø76: 5,2mm, Ø90-102: 6mm, Ø127: 7,3mm, Ø152: 7mm

Ø: 3"/75-76mm - 6"/150-152mm

Accessories: 211

ideal for: roof gravelling, suction trucks, silos, tankers, dry suction trucks

NORPLAST® PUR-C 387 AS (XXHD)



- Full plastic transport and suction hose made of PVC / PU
- external abrasion protection via external helix (protects floors and surfaces, prolongs service life, easy to use)
- super-heavy duty and reinforced
- extremely abrasion resistant
- very high pressure, vacuum and compression resistance
- antistatic $<10^9 \Omega$
- -20°C to $+70^\circ\text{C}$ ($+80^\circ\text{C}$)



Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; Wall: antistatic polyurethane inside layer 2,0 mm approx., exterior soft PVC; grounding wire

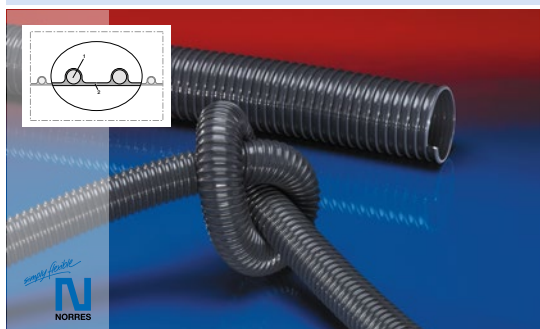
Wall thickness: Ø76: 5,2mm, Ø90-102: 6mm, Ø127: 7,3mm, Ø152: 7mm

Ø: 3"/75-76mm - 6"/150-152mm

Accessories: 211

ideal for: suction trucks, silos, tankers, dry suction trucks

NORPLAST® PVC 383 (LD)



- PVC suction hose
- light weight
- good resistance to alkalis and acids
- -5°C to +60°C

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: soft PVC

Wall thickness: Ø20-25: 0,6mm, Ø30-38: 0,7mm, Ø40-50: 0,8mm, Ø60-100: 0,9mm, Ø110-150: 1mm

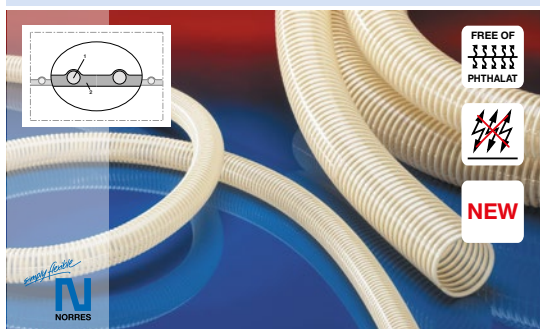
Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 208, 228, 233, 223, 270-271



ideal for: agricultural industry, X-ray machines, caravans / camper

NORPLAST® PVC 384 AS (HD)



- Full plastic transport and suction hose made of PVC
- heavy duty
- increased pressure and vacuum resistance
- good resistance to alkalis and acids
- antistatic approx. $10^9 \Omega$
- -5°C to +70°C (+80°C)

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: high grade soft PVC and antistatic

Wall thickness: Ø20-30: 2mm, Ø32-38: 2,2mm, Ø40-45: 2,4mm, Ø50-51: 2,5mm, Ø60: 2,6mm, Ø63-90: 3mm, Ø100-110: 3,4mm, Ø120-150: 3,7mm

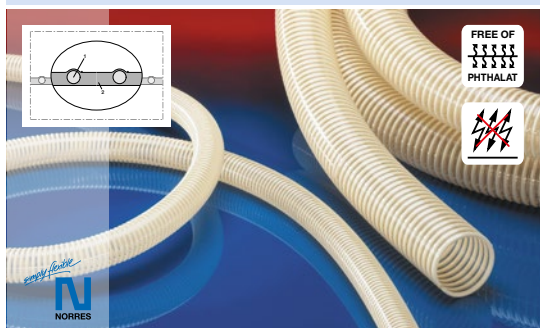
Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 211, 233, 270-271



ideal for: granulate conveying, wood pellet conveying, vacuum conveyor / vacuum conveying devices

NORPLAST® PVC-CU 384 AS (HD)



- Full plastic transport and suction hose made of PVC
- heavy duty
- increased pressure and vacuum resistance
- good resistance to alkalis and acids
- antistatic approx. $10^9 \Omega$
- -5°C to +70°C (+80°C)

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: high grade soft PVC and antistatic; grounding wire

Wall thickness: Ø20-30: 2mm, Ø32-38: 2,2mm, Ø40-45: 2,4mm, Ø50-51: 2,5mm, Ø60: 2,6mm, Ø63-90: 3mm, Ø100-110: 3,4mm, Ø120-150: 3,7mm

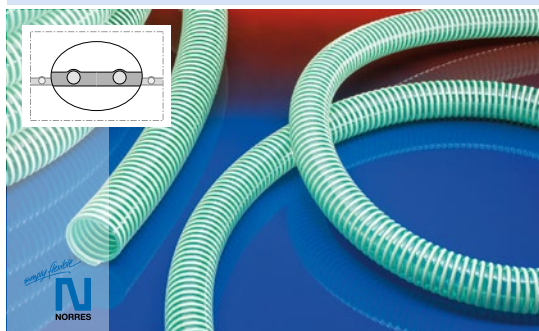
Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 211, 233, 270-271



ideal for: granulate conveying, wood pellet conveying, vacuum conveyor / vacuum conveying devices

NORPLAST® PVC 380 GREEN (HD)



- Full plastic transport and suction hose made of PVC
- heavy duty
- good resistance to alkalis and acids
- -5°C to +60°C

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: soft PVC

Wall thickness: Ø19-30: 2,1mm, Ø32-38: 2,3mm, Ø40-45: 2,6mm, Ø50-63: 3,9mm, Ø70-76: 4,2mm, Ø80-100: 4,7mm

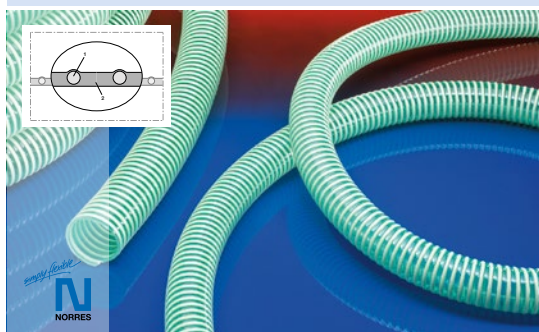
Ø: 3/4"/19mm - 4"/100-102mm

Accessories: 211, 233, 270-271



ideal for: irrigation, toilet discharging, caravans/ camper

NORPLAST® PVC 379 GREEN SUPERELASTIC (HD)



- Full plastic transport and suction hose made of PVC
- heavy duty
- good resistance to alkalis and acids
- very good low temperature flexibility
- -25°C to +60°C

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: low temperature flexible soft PVC

Wall thickness: Ø19-30: 2,1mm, Ø32-38: 2,3mm, Ø40-45: 2,6mm, Ø50-63: 3,9mm, Ø70-76: 4,2mm, Ø80-100: 4,7mm

Ø: 3/4"/19mm - 2"/50-51mm

Accessories: 211, 233, 270-271



ideal for: irrigation, manure spreader, manure spreader, agricultural industry, seeder, caravans/ camper

NORPLAST® PVC 388 SUPERELASTIC (MD)



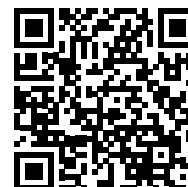
- Full plastic transport and suction hose made of PVC
- medium-heavy duty
- good resistance to alkalis and acids
- very good low temperature flexibility
- -25°C to +60°C

Design, Material: NORPLAST® full plastic hose; hard plastic spiral integrated in wall; spiral: rigid PVC; smooth interior; wall: high grade low temperature flexible soft PVC

Wall thickness: Ø20: 1,5mm, Ø25-30: 1,2mm, Ø32: 1,3mm, Ø35-38: 1,4mm, Ø40-90: 1,5mm, Ø102-127: 1,6mm, Ø152: 1,2mm

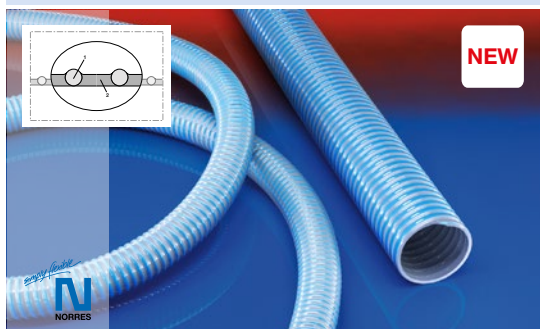
Ø: 0.80"/20mm - 6"/150-152mm

Accessories: 208, 228, 233, 223, 270-271



ideal for: vacuum lifters/vacuum lifting devices

NORPLAST® PVC 389 SUPERELASTIC WEAR STRIP (XHD)



- Full plastic transport and suction hose made of PVC
- external abrasion protection via external helix (protects floors and surfaces, prolongs service life, easy to use)
- super-heavy duty
- very high pressure, vacuum and compression resistance
- good resistance to alkalis and acids
- -25°C to +60°C



Design, Material: NORPLAST® full plastic hose; outer hard plastic spiral; spiral: rigid PVC; smooth interior; wall: high grade low temperature flexible soft PVC

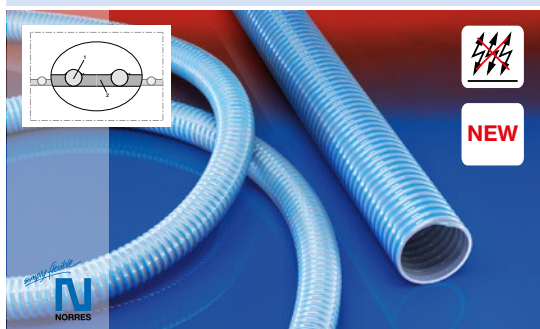
Wall thickness: Ø25-38: 2,9mm, Ø40-51: 3,6mm, Ø60-70: 3,8mm, Ø76-90: 4,3mm, Ø102-110: 5,3mm, Ø127-152: 5,6mm

Ø: 1.25"/32mm - 6"/150-152mm

Accessories: 211, 270-271

ideal for: manure spreader, manure spreader, sewer cleaning, agricultural industry, suction trucks, sewage cleaning, dry suction trucks

NORPLAST® PVC-C 389 AS-SUPERELASTIC WEAR STRIP (XHD)



- Full plastic transport and suction hose made of PVC
- external abrasion protection via external helix (protects floors and surfaces, prolongs service life, easy to use)
- super-heavy duty
- very high pressure, vacuum and compression resistance
- good resistance to alkalis and acids
- antistatic <10⁹ Ω
- -25°C to +60°C



Design, Material: NORPLAST® full plastic hose; outer hard plastic spiral; spiral: rigid PVC; smooth interior; wall: high grade antistatic and low temperature flexible soft PVC; grounding wire

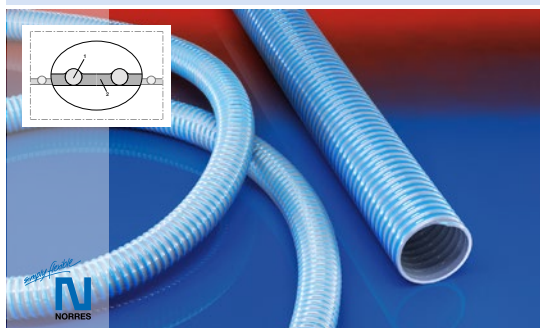
Wall thickness: Ø25-38: 2,9mm, Ø40-51: 3,6mm, Ø60-70: 3,8mm, Ø76-90: 4,3mm, Ø102-110: 5,3mm, Ø127-152: 5,6mm

Ø: 1"/25mm - 6"/150-152mm

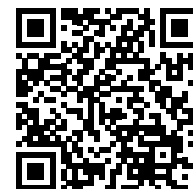
Accessories: 211, 270-271

ideal for: suction trucks, dry suction trucks

NORPLAST® PVC 389 SUPERELASTIC PLUS (XHD)



- Full plastic transport and suction hose made of PVC
- external abrasion protection via external helix (protects floors and surfaces, prolongs service life, easy to use)
- super-heavy duty
- very high pressure, vacuum and compression resistance
- good resistance to alkalis and acids
- -40°C to +60°C



Design, Material: NORPLAST® full plastic hose; outer hard plastic spiral; spiral: impact-resistant modified rigid PVC; smooth interior; wall: high grade low temperature flexible soft PVC

Wall thickness: Ø25-38: 2,9mm, Ø40-51: 3,6mm, Ø60-70: 3,8mm, Ø76-90: 4,3mm, Ø102-110: 5,3mm, Ø127-152: 5,6mm

Ø: 1"/25mm - 6"/150-152mm

Accessories: 211, 270-271

ideal for: sewer cleaning, agricultural industry, suction trucks, sewage cleaning, dry suction trucks



Metal hoses

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METAL HOSE 375 HT

Metal hose, suction hose to 400°C 55

METAL HOSE INOX 376

Metal hose, stainless steel (INOX), suction hose to 600°C 55

METAL HOSE 377 REINFORCED

Metal hose, transport hose..... to 120°C 55

METAL HOSE 375



- Metal hose
- abrasion-resistant
- electrically conductive wall: electrical and surface resistance $<10^3 \Omega$ (according to NFPA 652 $<10^6 \Omega$)
- $+120^\circ\text{C}$

Design, Material: Metal hose; profiled metal strip, galvanised steel; hooked profile; seal: special fibre

Ø: 0.80"/20mm - 11.80"/300mm

Accessories: 270-271, 202 - 206



ideal for: wood chips, high temperature extraction, edge trim exhaust systems

METAL HOSE 375 HT



- Metal hose
- very good heat resistance
- flame-retardant
- electrically conductive wall: electrical and surface resistance $<10^3 \Omega$ (according to NFPA 652 $<10^6 \Omega$)
- $+400^\circ\text{C}$

Design, Material: Metal hose; profiled metal strip, galvanised steel; hooked profile; seal: glass fibre

Ø: 0.80"/20mm - 11.80"/300mm

Accessories: 270-271, 202 - 206



ideal for: wood chips, high temperature extraction

METAL HOSE INOX 376

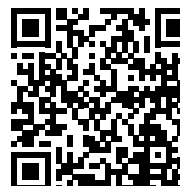


- Metal hose
- extremely heat resistant
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- flame-retardant
- electrically conductive wall: electrical and surface resistance $<10^3 \Omega$ (according to NFPA 652 $<10^6 \Omega$)
- $+600^\circ\text{C}$

Design, Material: Metal hose; profiled metal strip, stainless steel (INOX); hooked profile; seal: glass fibre

Ø: 0.80"/20mm - 11.80"/300mm

Accessories: 270-271, 202 - 206



ideal for: wood chips, high temperature extraction

METAL HOSE 377 REINFORCED

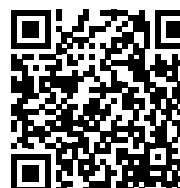


- Metal hose
- super-heavy duty and reinforced
- flame-retardant
- $+120^\circ\text{C}$

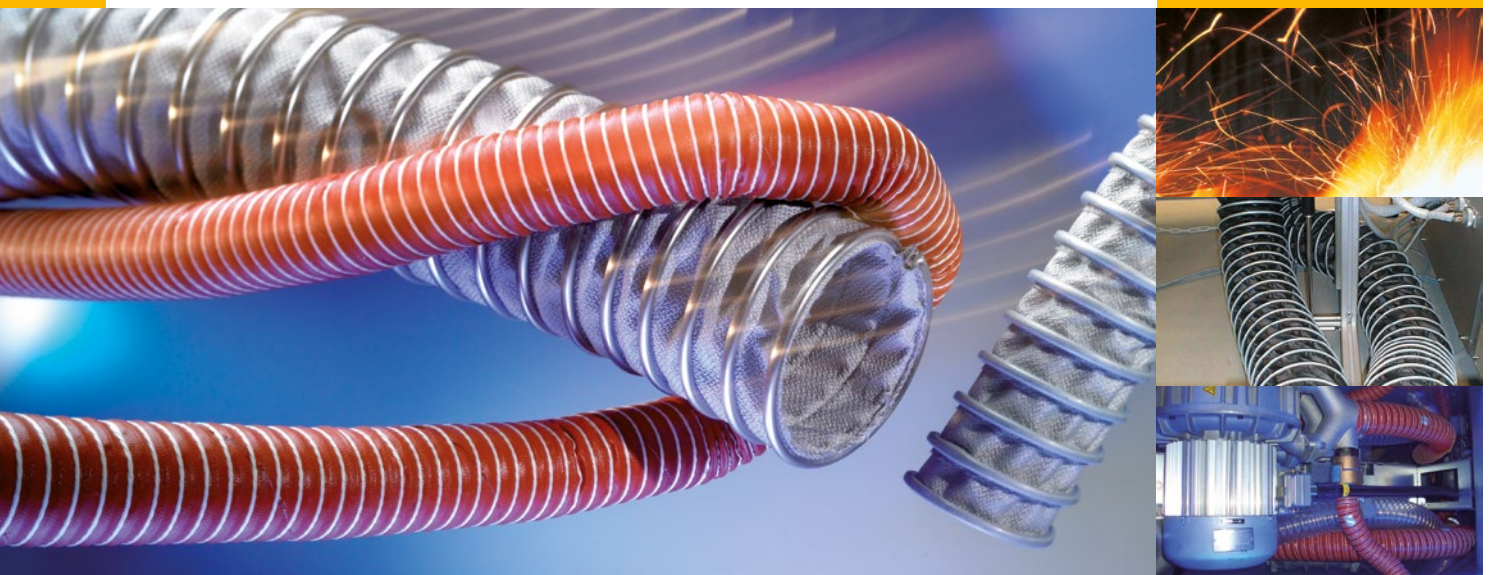
Design, Material: Metal hose; profiled metal strip, galvanised steel; hooked profile; seal: special fibre; reinforcement of the primary abrasion areas

Ø: 2"/50-51mm - 11.80"/300mm

Accessories: 270-271, 202 - 206



ideal for: transport hose, high temperature extraction



Hot air hoses, high-temperature hoses (-200 .. +1.100 °C)

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CP PTFE/GLASS-INOX 471 EC Electrically conductive clamp profile hose (clip hose), double-layer, highly chemical resistant (up to +270°C)	-150°C to 250°C	60
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CP HiTex 483 High-temperature hose, clamp profile hose (clip hose), multi-layer, insulating (up to 1.100°C)	-60°C to 900°C	63

NEO 390 ONE



- Neoprene hose
- single-layer
- fibre reinforced
- very good heat resistance
- -35°C to +135°C (+150°C)

Design, Material: Neoprene hose; spring steel wire; fabric-reinforced tape; wall: Neoprene coated glass fabric; chords made of interwoven yarns as reinforcement

Ø: 0.50"/13mm - 12"/305mm

Accessories: 208, 211, 228, 270-271



ideal for: granulate dryer, infrared dryer, UV dryer

NEO 390 TWO

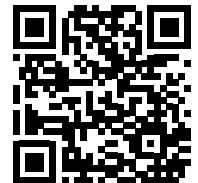


- Neoprene hose
- double-layer
- fibre reinforced
- very good heat resistance
- -35°C to +135°C (+150°C)

Design, Material: Neoprene hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: Neoprene coated glass fabric; chords made of interwoven yarns as reinforcement

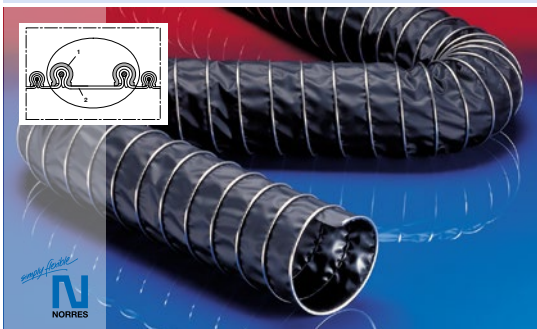
Ø: 0.50"/13mm - 12"/305mm

Accessories: 208, 211, 228, 270-271



ideal for: granulate dryer, infrared dryer, UV dryer

CP HYP 450

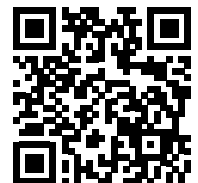


- Clip hose
- abrasion protection via external clamp profile
- vibration resistant
- very good heat resistance
- good resistance to oil, gasoline and chemicals
- good resistance to alkalis and acids
- double-layer
- -40°C to +170°C

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: CSM coated polyester fabric

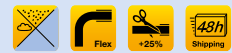
Ø: 1.5"/38mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: waste gas exhaust, extraction units, extraction of chemical vapours

CP PTFE/HYP-INOX 472



- Clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- TEFLON®
- -40°C to +170°C



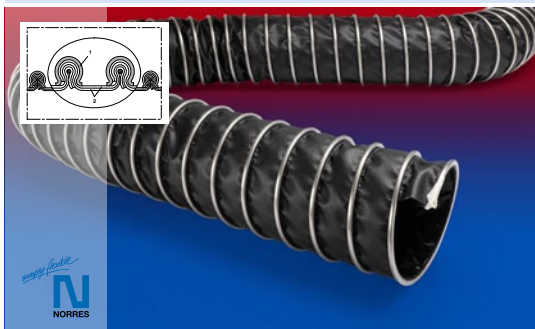
Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); double-layer wall; wall: PTFE film interior, CSM coated polyester fabric exterior

Ø: 2"/50-51mm - 40"/1016mm

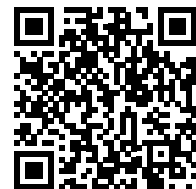
ideal for: extraction of chemical vapours, spray mist extraction

Accessories: 212, 217, 213, 228, 270-271

CP PTFE/HYP-INOX 472 EC



- Clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- surface resistance PTFE film <10⁶ Ω
- TEFLON® <10⁶ Ω
- -40°C to +170°C



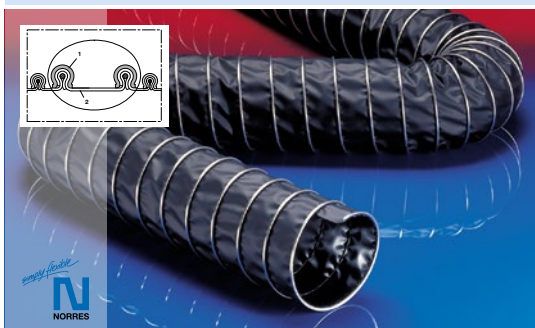
Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); wall: semi-conducting PTFE film interior, CSM coated polyester fabric exterior

Ø: 2"/50-51mm - 40"/1016mm

ideal for: extraction of chemical vapours, explosion hazard areas

Accessories: 212, 217, 213, 228, 270-271

CP VITON® 459 EC



- Electrically conductive clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to oil, gasoline and chemicals
- good resistance to alkalis and acids
- electrically conductive wall: electrical and surface resistance <10⁴ Ω (according to NFPA 652 <10⁶Ω)
- VITON® <10⁴ Ω
- -20°C to +210°C



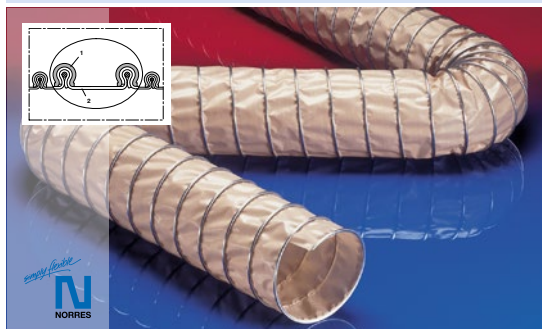
Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: VITON® coated polyester fabric

Ø: 1,5"/38mm - 40"/1016mm

ideal for: extraction of chemical vapours, explosion hazard areas

Accessories: 212, 217, 213, 228, 270-271

CP PTFE-INOX 475 FOOD



- Food hose and pharmaceutical hose
- very good heat resistance
- Inside layer food quality complies with: EU-Directive 10/2011 and EC 1935/2004
- food grade wall, complies with: FDA 21 CFR 177.1550, German guideline XV BfR
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- TEFLON®
- -150°C to +250°C (+270°C)



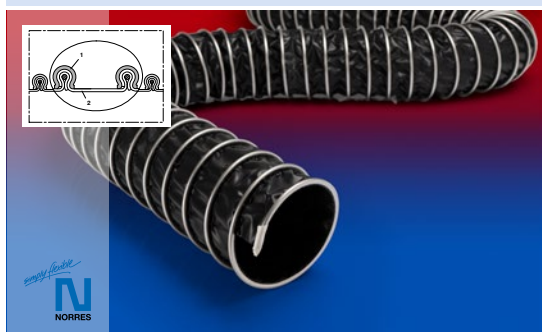
Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); wall: PTFE coated glass fabric

Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271

ideal for: extraction of chemical vapours, spray mist extraction, foodstuff, pharmaceutical

CP PTFE-INOX 475 EC



- Electrically conductive clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- surface resistance PTFE film <10⁶ Ω
- TEFLON® <10⁶ Ω
- -150°C to +250°C (+270°C)



Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); wall: PTFE coated glass fabric

Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271

ideal for: extraction of chemical vapours, explosion hazard areas, spray mist extraction

CP PTFE/GLASS-INOX 471



- Clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- TEFLON®
- -150°C to +250°C (+270°C)



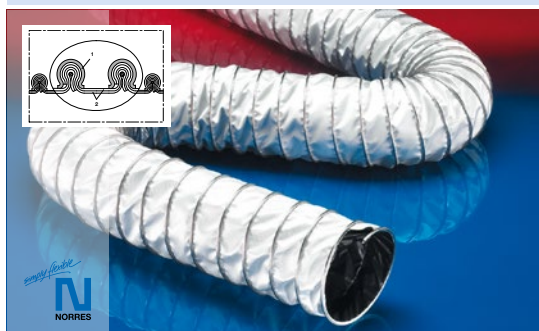
Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); double-layer wall; wall: interior PTFE foil, exterior special-coated glass fabric

Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271

ideal for: extraction of chemical vapours, spray mist extraction

CP PTFE/GLASS-INOX 471 EC



- Electrically conductive clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- surface resistance PTFE film $<10^6 \Omega$
- TEFLON® $<10^6 \Omega$
- -150°C to +250°C (+270°C)



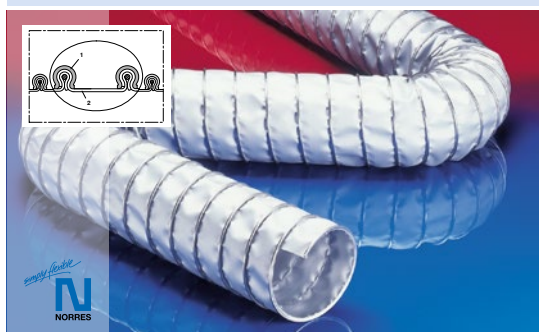
Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); wall: interior semi-conducting PTFE foil, exterior special-coated glass fabric

Ø: 2"/50-51mm - 40"/1016mm

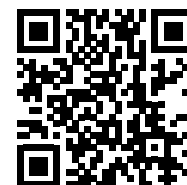
ideal for: extraction of chemical vapours, explosion hazard areas

Accessories: 212, 217, 213, 228, 270-271

CP SIL 460



- Clip hose
- abrasion protection via external clamp profile
- highly flexible + compressible 4:1
- very good heat resistance
- flame-retardant according to: DIN 4102-B1
- -70°C to +260°C (+280°C)



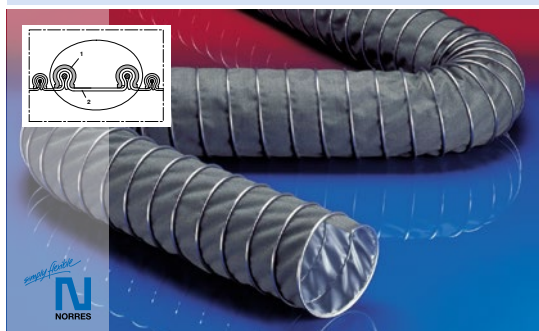
Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: Silicone coated glass fabric

Ø: 2"/50-51mm - 40"/1016mm

ideal for: high temperature extraction, blast furnace, ceramic industry

Accessories: 212, 217, 213, 228, 270-271

CP ARAMID 461



- Clip hose
- abrasion protection via external clamp profile
- vibration resistant
- very good heat resistance
- flame-retardant according to: DIN 4102-B1
- Aramid wall: Fire-class "M1" according to UNE 23.727-90
- -60°C to +260°C (+300°C)



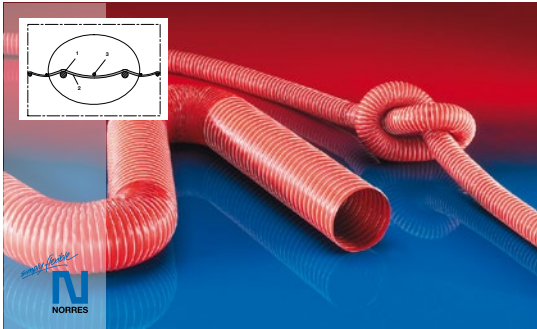
Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: special-coated high-temperature fabric

Ø: 1.5"/38mm - 40"/1016mm

ideal for: waste gas exhaust, extraction units

Accessories: 212, 217, 213, 228, 270-271

SIL 391 ONE



- Silicone hose/tubing
- single-layer
- fibre reinforced
- very good heat resistance
- -70°C to +260°C (+280°C)

Design, Material: Silicone hose; spring steel wire; fabric-reinforced tape; wall: Silicone coated glass fabric; chords made of interwoven yarns as reinforcement

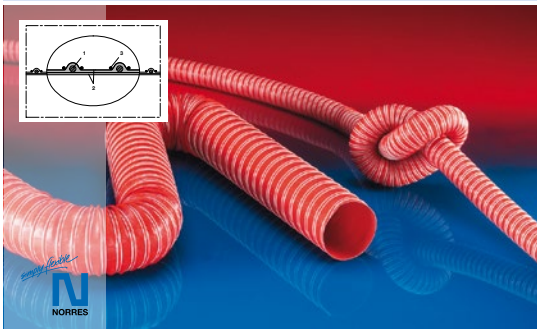
Ø: 0.50"/13mm - 12"/305mm

Accessories: 208, 211, 228, 270-271



ideal for: granulate dryer, infrared dryer, UV dryer

SIL 391 TWO



- Silicone hose/tubing
- double-layer
- fibre reinforced
- very good heat resistance
- -70°C to +260°C (+280°C)

Design, Material: Silicone hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: Silicone coated glass fabric; chords made of interwoven yarns as reinforcement

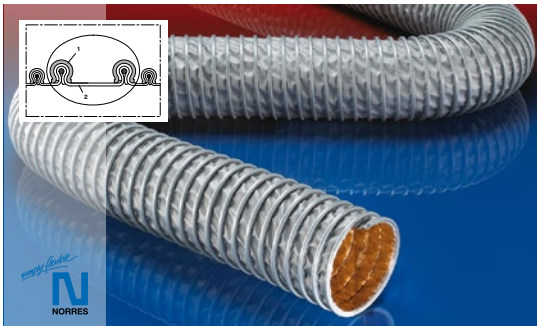
Ø: 0.50"/13mm - 12"/305mm

Accessories: 208, 211, 228, 270-271



ideal for: granulate dryer, infrared dryer, UV dryer

CP Kapton® 476

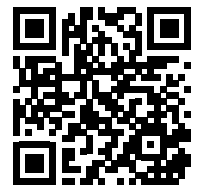


- High-temperature hose
- abrasion protection via external clamp profile
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- -60°C to +400°C

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; Wall: Kapton® laminated glass fabric

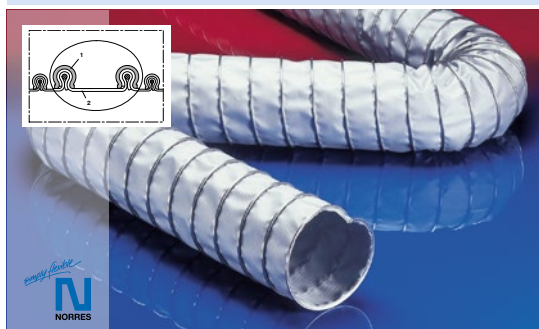
Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: waste gas exhaust, aluminium mills, extraction of chemical vapours

CP HiTex 480



- High-temperature hose
- very good resistance to flying sparks and welding sparks
- abrasion protection via external clamp profile
- very good heat resistance
- flame-retardant according to: DIN 4102-B1
- -60°C to +400°C (+450°C)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: stainless steel wire reinforced and special coated glass fabric

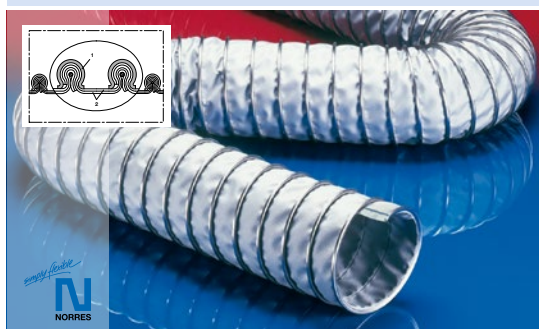
Ø: 1,5"/38mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: overhead heater, ceramic industry

CP HiTex 487

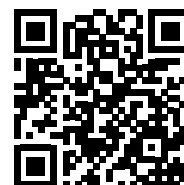


- High-temperature hose
- abrasion protection via external clamp profile
- very good heat resistance
- -60°C to +450°C (+500°C)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; double-layer wall; wall: interior and exterior special-coated high-temperature fabric

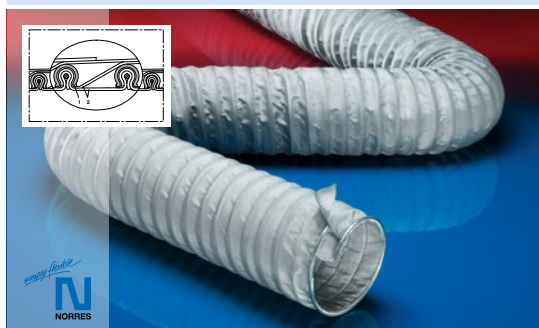
Ø: 3"/75-76mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: high temperature extraction, engine test rigs

CP HiTex 485



- High-temperature hose
- insulating
- suitable for light overpressure
- very good heat resistance
- -60°C to +500°C (+550°C)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; multi-layer hose wall; wall: interior and exterior special coated glass fabric

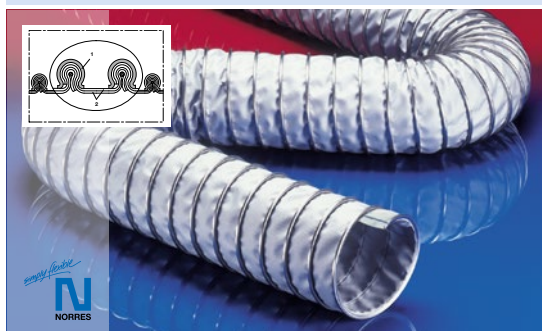
Ø: 4"/100-102mm - 20"/508mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: waste gas exhaust, aluminium mills, high temperature extraction, engine test rigs

CP HiTex 481



- High-temperature hose
- very good resistance to flying sparks and welding sparks
- abrasion protection via external clamp profile
- very good heat resistance
- -60°C to +600°C (+700°C)

Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); double-layer wall; wall: interior and exterior stainless steel wire reinforced and special coated glass fabric

Ø: 3"/75-76mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: waste gas exhaust, aluminium mills, high temperature extraction, ceramic industry, engine test rigs

CP HiTex 486

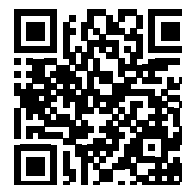


- High-temperature hose
- very good resistance to flying sparks and welding sparks
- insulating
- suitable for light overpressure
- very good heat resistance
- -60°C to +650°C (+700°C)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; multi-layer hose wall; wall: interior and exterior special coated glass fabric, thermo-insulation fabric; special thermal insulation layer

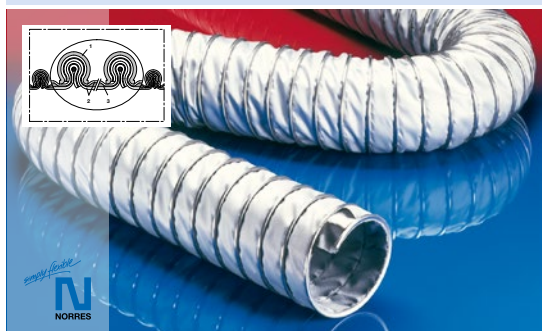
Ø: 4"/100-102mm - 20"/508mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: waste gas exhaust, aluminium mills, blast furnace, ceramic industry, engine test rigs

CP HiTex 483



- High-temperature hose
- very good resistance to flying sparks and welding sparks
- abrasion protection via external clamp profile
- insulating
- extremely heat resistant
- -60°C to +900°C (+1.100°C)

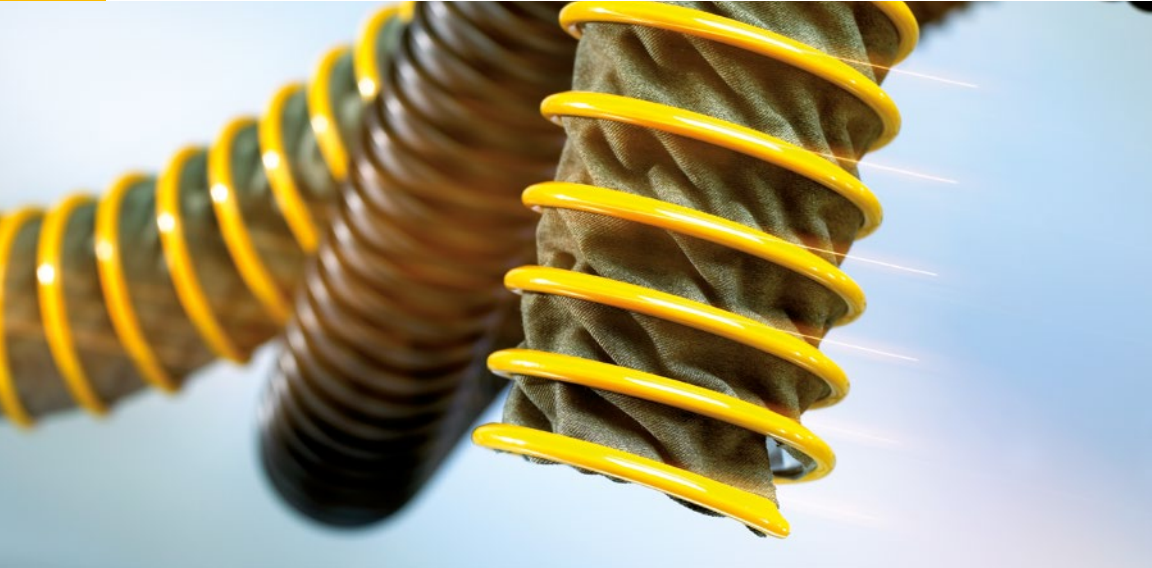
Design, Material: CP construction; clamp profile supporting spiral: all-stainless steel (INOX); multi-layer hose wall; wall: interior stainless steel wire reinforced and special coated glass fabric, thermo-insulation fabric, exterior special coated glass fabric; special thermal insulation layer

Ø: 4"/100-102mm - 20"/508mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: waste gas exhaust, aluminium mills, blast furnace, ceramic industry, engine test rigs

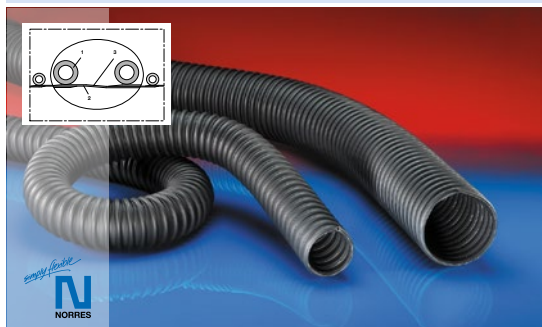


Exhaust gas hoses for combustion engines

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PROTAPE® TPE 326 MEMORY	
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CP HYP 450 PROTECT	
Exhaust gas hose, vibration resistant, outer protection profile	to 200°C 65
CP ARAMID 461 PROTECT	
Exhaust gas hose, vibration resistant, outer protection profile	to 300°C 65

PROTAPE® TPE 326 MEMORY



ideal for: waste gas exhaust, car gas extraction, hose reels

- Crush resistant exhaust gas hose
- fabric reinforced
- protected, flow-optimizing exterior folds
- vibration resistant
- crush resistant
- +200°C, when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.)

Design, Material: patented PROTAPE® tape hose; special plastic-profile supporting spiral; fabric-reinforced tape; wall: EPDM/PP coated fabric

Wall thickness: 0,4 mm

Ø: 2"/50-51mm - 8"/200-203mm

Accessories: 212, 217, 213, 228, 270-271



CP HYP 450 PROTECT



ideal for: waste gas exhaust, car gas extraction, hose reels

- Exhaust gas hose
- outer protection profile made of elasticised material
- abrasion protection via external clamp profile
- vibration resistant
- very good heat resistance
- +200°C, when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.)

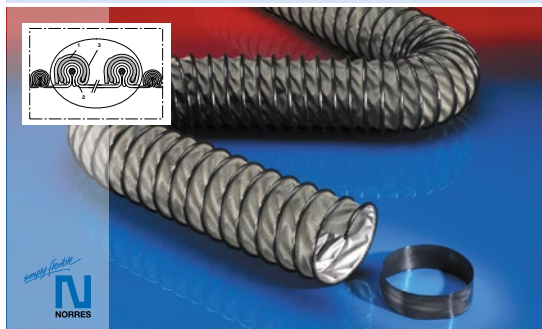
Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: CSM coated polyester fabric; firmly clamped, shock-absorbing, anti-abrasion profile made from elasticised, high-temperature plastic

Ø: 3"/75-76mm - 10"/254mm

Accessories: 212, 217, 213, 228, 270-271



CP ARAMID 461 PROTECT



ideal for: waste gas exhaust, car gas extraction, hose reels

- Exhaust gas hose
- outer protection profile made of elasticised material
- abrasion protection via external clamp profile
- vibration resistant
- very good heat resistance
- flame-retardant
- Aramid wall: Fire-class "M1" according to UNE 23.727-90
- +300°C, when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: special-coated high-temperature fabric; firmly clamped, shock-absorbing, anti-abrasion profile made from elasticised, high-temperature plastic

Ø: 3"/75-76mm - 10"/254mm

Accessories: 212, 217, 213, 228, 270-271





Flame resistant hoses for rail vehicles, buses

Content

PROTAPE® PUR 332 SE (LD)

Suction hose and pressure hose according to UL94-V2, DIN 4102-B1, light-40°C to 125°C.....[67](#)

AIRDUC® PUR 352 SE (MD)

Suct. & pressure hose acc. to UL94-V0, DIN 4102-B1& 5510-2 (S2, SR2, ST2), NF P 92-507 M3, med. heavy.....-40°C to 125°C.....[67](#)

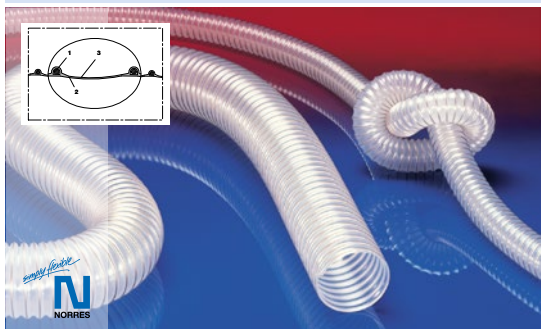
AIRDUC® PUR 352 SE RAILWAY (MD)

Suction hose and pressure hose according to DIN EN 45545-2, medium-heavy-40°C to 90°C.....[67](#)

AIRDUC® PUR 352 SE RAILWAY PLUS (MD)

Suction hose and pressure hose according to DIN EN 45545-2, medium-heavy-40°C to 90°C.....[67](#)

PROTAPE® PUR 332 SE (LD)



ideal for: sand conveying in braking systems, rail vehicles, trams

- Suction and pressure hose for rail vehicles and buses
- light weight
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: UL94-V0, DIN 4102-B1, FMVSS 302
- -40°C to +90°C (+125°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; extruded tape; wall: special premium polyurethane with flame retardant additive (Pre-PUR®)

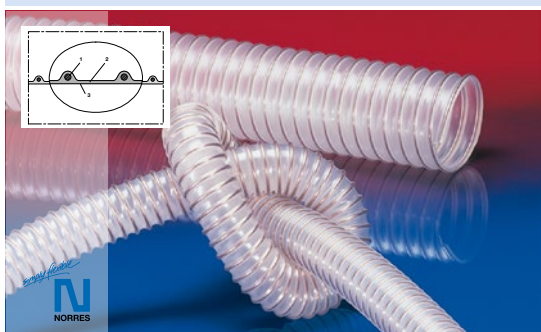
Wall thickness: 0,6mm

Ø: 1.57"/40mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 223



AIRDUC® PUR 352 SE (MD)



ideal for: sand conveying in braking systems, roof drainage, rail vehicles, trams

- Suction and pressure hose for rail vehicles and buses
- medium-heavy duty
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: UL94-V0, DIN4102-B1, DIN 5510-2 (S4, SR2, ST2), FMVSS 302, NF P 92-507 M3
- -40°C to +90°C (+125°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane with flame retardant additive (Pre-PUR®)

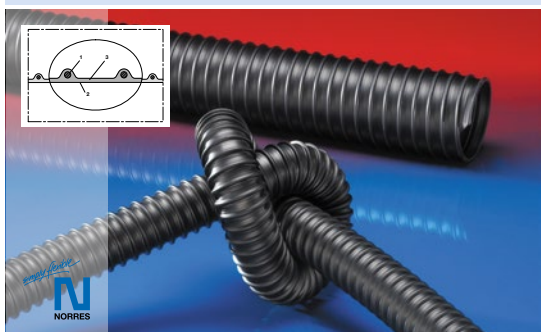
Wall thickness: 0,9mm

Ø: 1.57"/40mm - 19.7"/500mm

Accessories: 208, 212, 270-271



AIRDUC® PUR 352 SE RAILWAY (MD)



ideal for: sand conveying in braking systems, roof drainage, rail vehicles, trams

- Suction and pressure hose for rail vehicles and buses
- medium-heavy duty
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: DIN EN 45545-2: R23 HL1
- tested according to NFPA 130: ASTM E 162 + ASTM E 662 + BSS 7239 + BSS 7242
- tested according to EN45545-2: ISO 5658-2 + ISO 5659-2 662
- -40°C to +90°C

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane with flame retardant additive (Pre-PUR®)

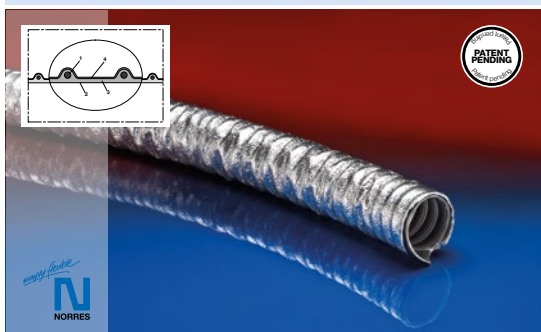
Wall thickness: 0,9mm

Ø: 0.80"/20mm - 7"/178-180mm

Accessories: 212, 210, 208, 270-271



AIRDUC® PUR 352 SE RAILWAY PLUS (MD)



ideal for: sand conveying in braking systems, roof drainage, rail vehicles, trams

- Suction and pressure hose for rail vehicles and buses
- medium-heavy duty
- insulating
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: DIN EN 45545-2: R1 HL1, HL2, HL3; R22 HL1, HL2, R23 HL1, HL2
- -40°C to +90°C

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane with flame retardant additive (Pre-PUR®); special thermal insulation layer

Wall thickness: 0,9mm

Ø: 0.80"/20mm - 7"/178-180mm

Accessories: 208, 270-271



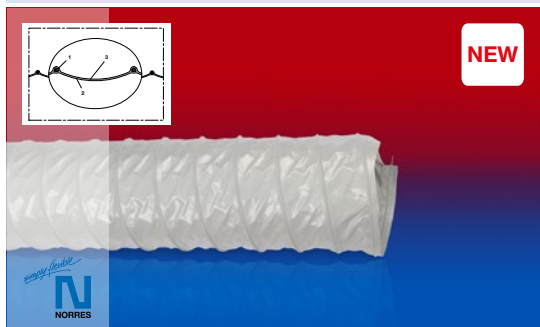


PVC, PE air conditioning and ventilation hoses, air conditioning hoses, insulating hoses

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PROTAPE® PVC 371 GREY (XLD)



- PVC climatic hose
- super-light weight
- approved to FMVSS 302 (flame-retardant)
- -10°C to +80°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: PVC coated fabric; Pressure max. 200 mm H₂O; Air speed max. 20 m/s; bending radius 0,6 x ID

Wall thickness: 0,25mm

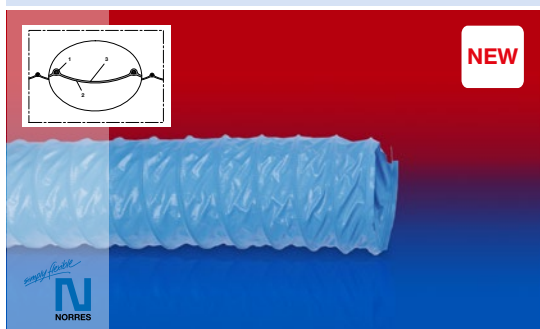
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, heating system

PROTAPE® PVC 371 ANTI-BACTERIAL (XLD)



- PVC climatic hose
- super-light weight
- anti-bacterial: PVC contains antimicrobial protection Sanitized® US EPA e US FDA approved
- flame-retardant according to: class 1 (Italy)
- -10°C to +80°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: PVC coated fabric; Pressure max. 200 mm H₂O; Air speed max. 20 m/s; bending radius 0,6 x ID

Wall thickness: 0,25mm

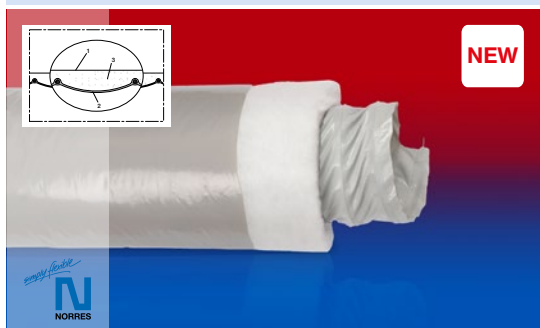
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, heating system

ISODUC PVC 368 GREY



- PVC climatic hose
- flame-retardant according to: class 1 (Italy)
- -10°C to +80°C

Design, Material: special thermal insulation layer; polyester insulation thickness 25 mm and weight 300 g/m²; Pressure max. 200 mm H₂O; Air speed max. 20 m/s; bending radius 0,6 x ID

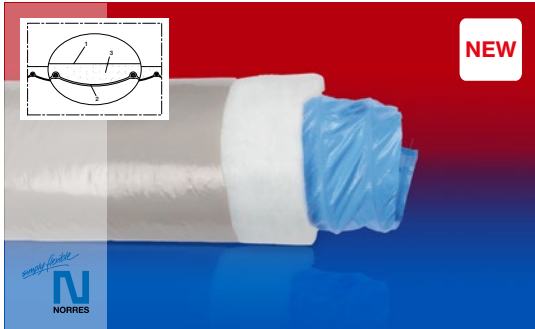
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, thermal and acoustic insulation

ISODUC PVC 368 ANTI-BACTERIAL

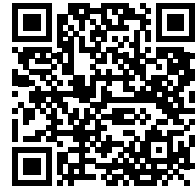


- PVC climatic hose
- anti-bacterial: PVC contains antimicrobial protection Sanitized® US EPA e US FDA approved
- -10°C to +80°C

Design, Material: special thermal insulation layer; polyester insulation thickness 25 mm and weight 250-300 g/m²; Pressure max. 200 mm H₂O; Air speed max. 20 m/s; bending radius 0,6 x ID

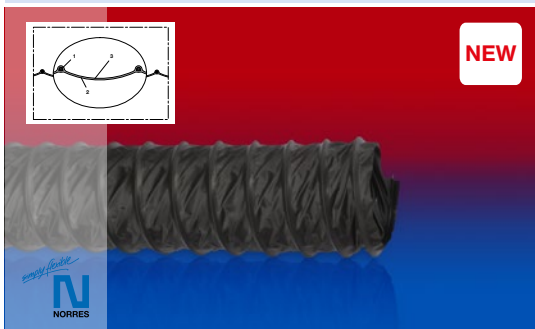
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning in hospitals, thermal and acoustic insulation

PROTAPE® PVC 371 BLACK (XLD)



- PVC climatic hose
- super-light weight
- flame-retardant according to: class 1 (Italy)
- 0°C to +75°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: PVC coated fabric; Pressure max. 200 mm H₂O; Air speed max. 20 m/s; bending radius 0,6 x ID

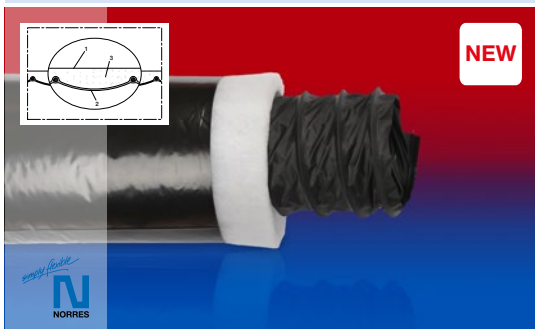
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, heating system

ISODUC PVC 368 BLACK



- PVC climatic hose
- flame-retardant according to: class 1 (Italy)
- 0°C to +75°C

Design, Material: special thermal insulation layer; polyester insulation thickness 25 mm and density 17 Kg/m³; Pressure max. 200 mm H₂O; Air speed max. 20 m/s; bending radius 0,6 x ID

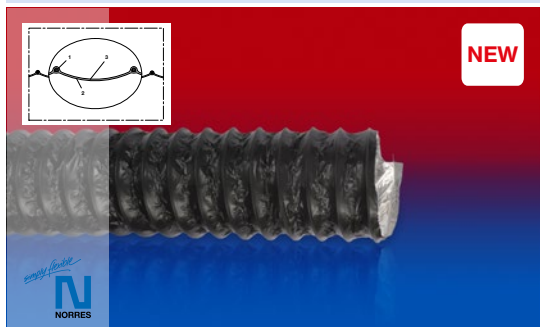
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, thermal and acoustic insulation

PROTAPE® ALU-PVC 369



- Alu/PVC Climatic hose
- super-light weight
- -10°C to +140°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: PVC coated aluminium; Pressure max. 250 mm H₂O; Air speed max. 25 m/s; bending radius 0,6 x ID

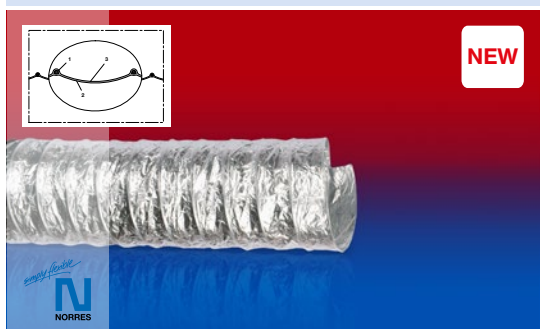
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, heating system

PROTAPE® ALU-PES 369



- Alu/Polyester Climatic hose
- super-light weight
- flame-retardant according to: C.S.T.B. class M1 (France)
- -30°C to +140°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: aluminium; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

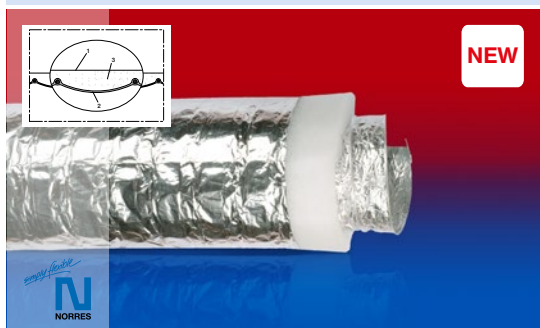
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, bathroom and kitchen extraction and ventilation, air conditioning, heating system

ISODUC ALU-PES 368 SOUND-INSULATION



- Alu/Polyester Climatic hose
- flame-retardant according to: C.S.T.B. class M1 (France)
- -30°C to +140°C

Design, Material: special thermal insulation layer; polyester insulation thickness 25 mm and density 17 Kg/m³; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

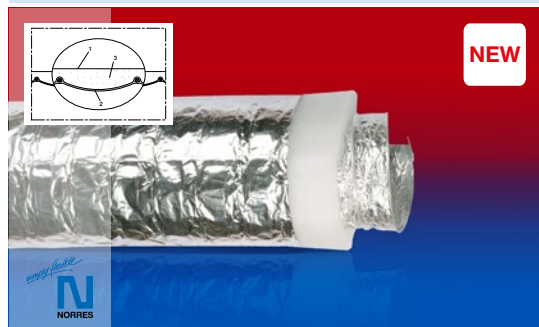
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, thermal and acoustic insulation

ISODUC ALU-PES 368



- Alu/ Polyester Climatic hose
- flame-retardant according to: NF P 92-512 M1
- -30°C to +140°C

Design, Material: special thermal insulation layer; polyester insulation thickness 25 mm and density 17 Kg/m³; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

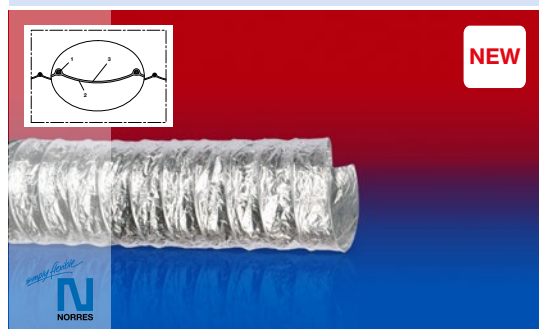
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning, thermal and acoustic insulation

PROTAPE® ALU-PES 369 SE



- Alu/ Polyester Climatic hose
- super-light weight
- flame-retardant according to: C.S.T.B. class M0 (France)
- flame-retardant according to: non-combustible according to BUREAU VERITAS standards (France)
- -30°C to +250°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: aluminium; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

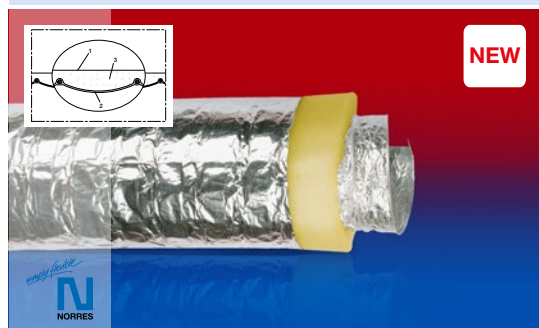
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning in marine applications

ISODUC ALU-PES 368 SE



- Alu/ Polyester Climatic hose
- flame-retardant according to: C.S.T.B. class M0 (France)
- -30°C bis +200°C

Design, Material: special thermal insulation layer; fibreglass insulation thickness 25 mm and density 16 Kg/m³; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

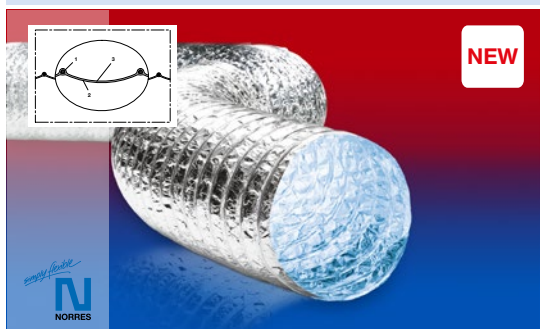
Ø: 3"/75-76mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning in marine applications, thermal and acoustic insulation

PROTAPE® ALU-PES 369 ANTI-BACTERIAL



- Alu / Polyester Climatic hose
- super-light weight
- odourless
- anti-fungal performance according to ASTM G21
- anti-bacterial performance according to ISO 22196
- flame-retardant according to: C.S.T.B. class M0 (France)
- -30°C bis +130°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: aluminium; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

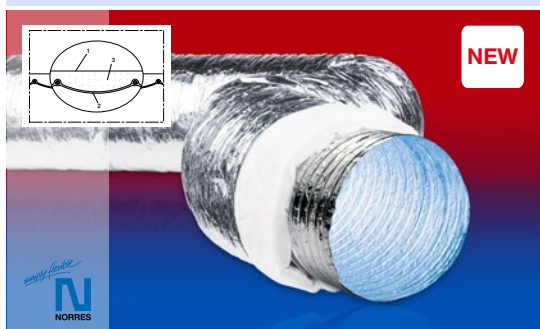
Ø: 3.23"/82mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, bathroom and kitchen extraction and ventilation, air conditioning, heating system

ISODUC ALU-PES 368 ANTI-BACTERIAL



- Alu / Polyester Climatic hose
- odourless
- anti-fungal performance according to ASTM G21
- anti-bacterial performance according to ISO 22196
- flame-retardant according to: C.S.T.B. class M1 (France)
- -30°C bis +130°C

Design, Material: special thermal insulation layer; polyester insulation thickness 25 mm and weight 250-300 g/m²; Pressure max. 300 mm H₂O; Air speed max. 30 m/s

Ø: 3.23"/82mm - 24"/610mm

Accessories: 210, 208, 228, 270-271



ideal for: ventilation, air conditioning in hospitals, thermal and acoustic insulation

METAL HOSE ALU 377 - ALUFLEX



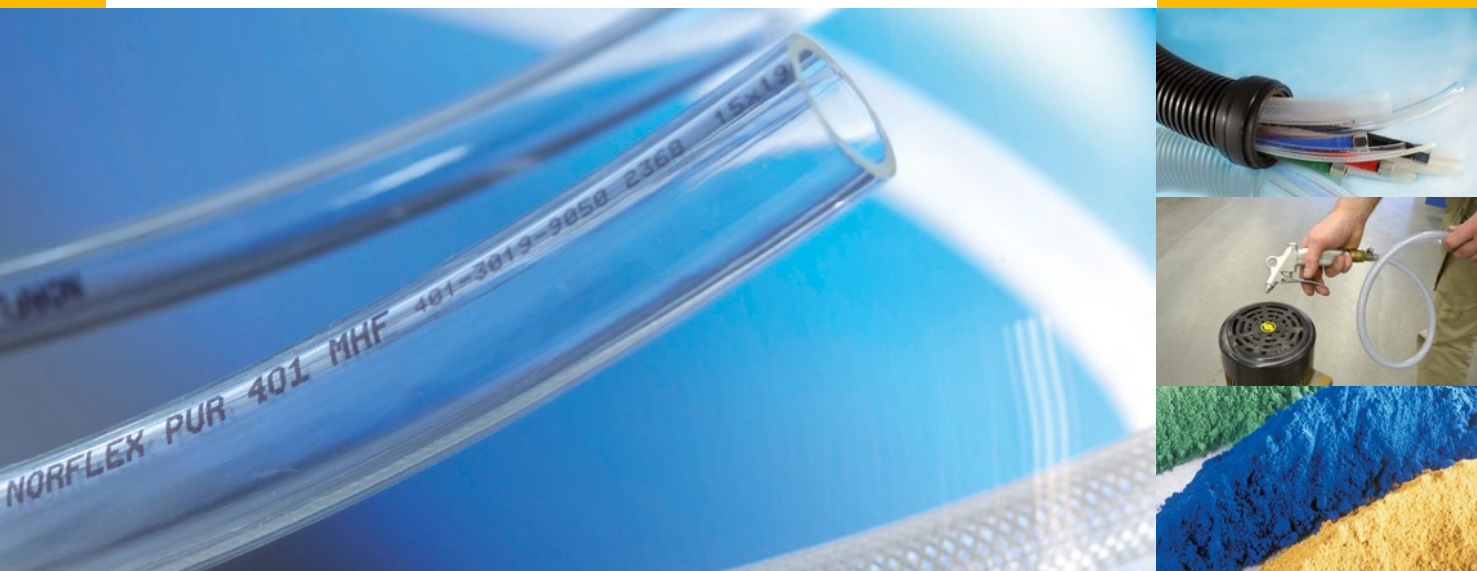
- Alu Climatic hose
- highly flexible + compressible 3:1
- retaining any adjusted position
- +300°C

Design, Material: Metal hose; Pressure max. 300 mm H₂O

Accessories: 208, 270-271



ideal for: ventilation, air conditioning in marine applications, ventilation, air conditioning, heating system

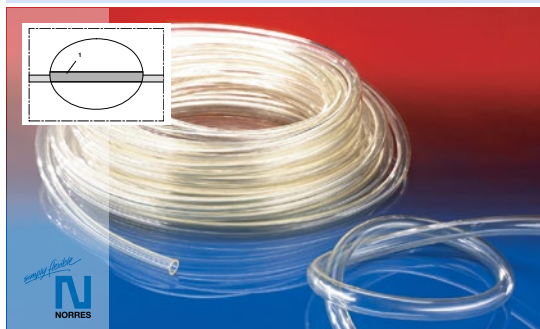


Compressed air hoses, pneumatic hoses, fluid hoses

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NORFLEX® PUR 401 FOOD



- Polyurethane hose
- crush resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)

Design, Material: NORFLEX® design; wall interior and exterior smooth; wall: special premium ether-polyurethane (Pre-PUR®)

Ø: 0.08"/2mm - 3/4"/19mm

Accessories: 208



ideal for: foodstuff, pharmaceutical, hose pumps

NORFLEX® PUR 441 FOOD



- Polyurethane hose
- fabric reinforced
- crush resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)

Design, Material: NORFLEX® design; fabric reinforced wall; smooth interior and exterior; wall: special premium ether-polyurethane (Pre-PUR®)

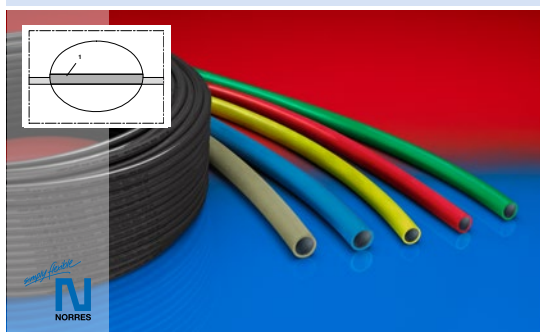
Ø: 1/8"/2,9mm - 3/4"/19mm

Accessories: 208



ideal for: compressed air hose, cooling water hose, foodstuff, pharmaceutical

NORFLEX® PUR 401 WELDING



- Polyurethane hose
- crush resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: UL94-V0/V2
- -20°C to +60°C

Design, Material: NORFLEX® design; wall interior and exterior smooth; wall: special premium polyurethane with flame retardant additive (Pre-PUR®)

Ø: 0.08"/2mm - 7/8"/22mm

Accessories: 208



ideal for: compressed air hose, pneumatic tube, robots, welding equipment, welding robots

NORFLEX® PUR 441 ROBOTIC



- Hose/ tubing for industrial robots
- fabric reinforced
- crush resistant
- good resistance to oil, gasoline and chemicals
- -35°C to +80°C

Design, Material: NORFLEX® design; fabric reinforced wall; smooth interior and exterior; wall: special premium polyurethane (Pre-PUR®)

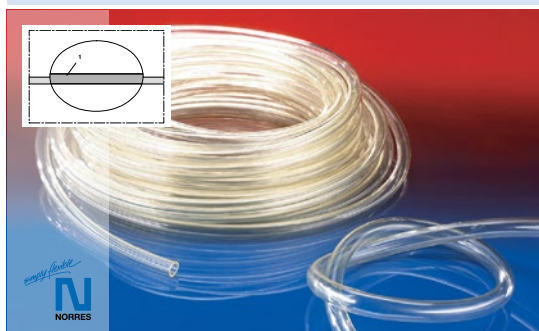
Ø: 1/4"/6,4mm - 3/4"/19,5mm

Accessories: 208



ideal for: compressed air hose, industrial robots, cooling water hose, welding robots, water hose

NORFLEX® PVC 400



- PVC hose/tubing
- crush resistant
- good resistance to alkalis and acids
- good resistance to chemicals
- -20°C to +60°C

Design, Material: NORFLEX® design; wall interior and exterior smooth; wall: soft PVC

Ø: 0.08"/2mm - 2 3/8"/60mm

Accessories: 208



ideal for: hose pumps, water hose

NORFLEX® PVC 440



- PVC hose/tubing
- fabric reinforced
- crush resistant
- good resistance to alkalis and acids
- good resistance to chemicals
- -20°C to +60°C

Design, Material: NORFLEX® design; fabric reinforced wall; smooth interior and exterior; wall: soft PVC

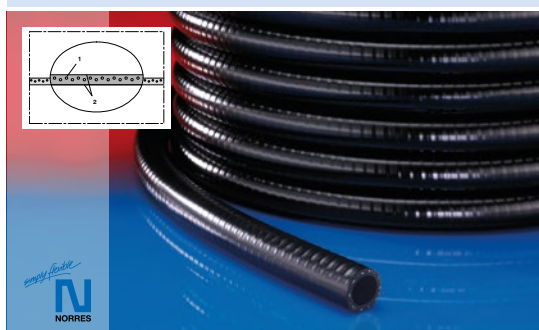
Ø: 0.16"/4mm - 1 1/4"/32mm

Accessories: 208



ideal for: compressed air hose, cooling water hose, water hose

NORFLEX® PVC 440 HIGH PRESSURE

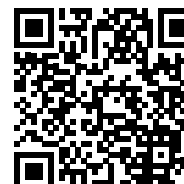


- PVC hose/tubing
- fabric reinforced
- crush resistant
- good resistance to alkalis and acids
- good resistance to chemicals
- -20°C to +60°C

Design, Material: NORFLEX® design; fabric reinforced wall; wall interior and exterior smooth; wall: soft PVC

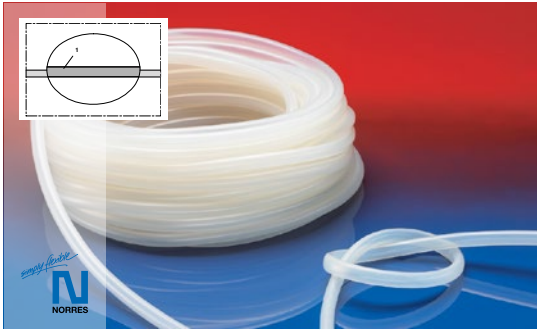
Ø: 5/16"/8mm - 1 1/4"/32mm

Accessories: 208



ideal for: compressed air hose, high pressure spraying hose, cooling water hose, agricultural industry, water hose

NORFLEX® SIL 408

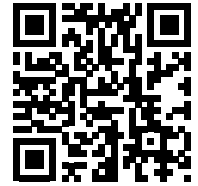


- Silicone hose/tubing
- crush resistant
- food grade wall, complies with: FDA 21 CFR 177.2600, German guideline XV BfR
- -60°C to +180°C

Design, Material: NORFLEX® design; wall interior and exterior smooth; wall: silicone 60 ± 5 Shore A

Ø: 0.08"/2mm - 1"/25mm

Accessories: 208



ideal for: foodstuff, pharmaceutical

NORFLEX® SIL 448

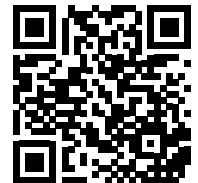


- Silicone hose/tubing
- fabric reinforced
- crush resistant
- food grade wall, complies with: FDA 21 CFR 177.2600, German guideline XV BfR
- -60°C to +180°C

Design, Material: NORFLEX® design; fabric reinforced wall; smooth interior and exterior; wall: silicone 70 ± 5 Shore A

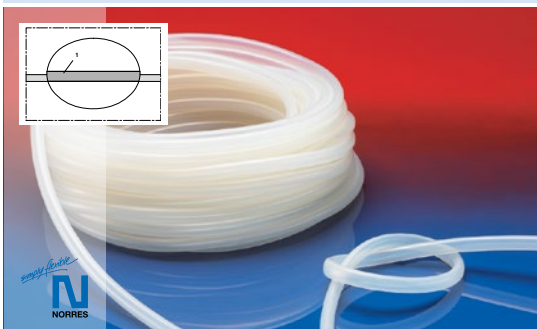
Ø: 1/8"/3mm - 3/4"/19mm

Accessories: 208



ideal for: cooling water hose, foodstuff, pharmaceutical

NORFLEX® PTFE 407



- PTFE hose/tubing
- food grade wall, complies with: FDA 21 CFR 177.1550, German guideline XV BfR
- microbe and hydrolysis resistant
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- -150°C to +200°C

Design, Material: NORFLEX® design; wall interior and exterior smooth; wall: PTFE

Ø: 0.08"/2mm - 0.56"/14mm

Accessories: 208



ideal for: chemical industry, foodstuff, pharmaceutical



Accessories, hose clamps, couplings, flanges, sleeves, integration systems (clamping shells, pressing sleeves, casting)

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CLAMP 212



- Bridge clamp for attaching externally corrugated spiral hoses
- practically leak-proof and secure clamping with special bridge geometry
- easily and quickly fitted
- re-usable

Design, Material: Quality: W2; clamp strip: stainless steel 1.4301 = AISI 304; screw: galvanised steel; Body: stainless steel 1.4016 = AISI 430; bridge: stainless steel 1.4301 = AISI 304 (INOX)

Accessories: 228; 270-271



CLAMP 216



- Hose Clamp for watertight attachment of heavy, externally corrugated spiral hoses
- watertight and tensile connection at very low overpressure due to special spiral geometry
- easily and quickly fitted
- re-usable

Design, Material: Quality: W2; clamp strip: stainless steel 1.4016 = AISI 430; clamp wire: stainless steel 1.4310 = AISI 301 (INOX); screw: chromated steel; Body: stainless steel 1.4016 = AISI 430

Accessories: 228; 270-271



CLAMP 208



- Hose clamp for attachment of light-duty hoses with smooth exterior
- easily and quickly fitted
- re-usable

Design, Material: Quality: W1; Clamp strip: galvanised steel; screw: galvanised steel; Body: galvanised steel;

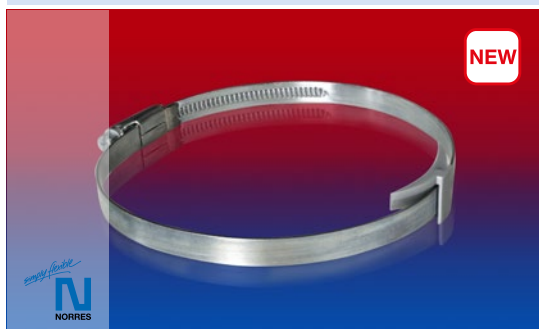
Quality: W2; Clamp strip: stainless steel 1.4016 = AISI 430; screw: galvanised steel; Body: stainless steel 1.4016 = AISI 430;

Quality: W4; Clamp strip: stainless steel 1.4301 = AISI 304; screw: stainless steel 1.4301 = AISI 304; Body: stainless steel 1.4301 = AISI 304

Accessories: 228; 223; 270-271



CLAMP 210 BRIDGE CLAMP

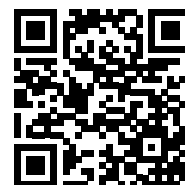


- Clamp with plastic bridge for attaching externally corrugated spiral hoses
- practically leak-proof and secure clamping with special bridge geometry
- easily and quickly fitted
- re-usable
- multi-piece

Design, Material: Bridge: PA6

Quality: W1; clamp strip: galvanised steel; screw: galvanised steel; body: galvanised steel

Comes as a 10 pack loosely sealed in a bag



CLAMP 211



- T-bolt clamp for attaching heavy-duty hoses with a smooth exterior surface
- easily and quickly fitted
- re-usable

Design, Material: Quality: W1; Clamp strip: galvanised steel; screw: galvanised steel;

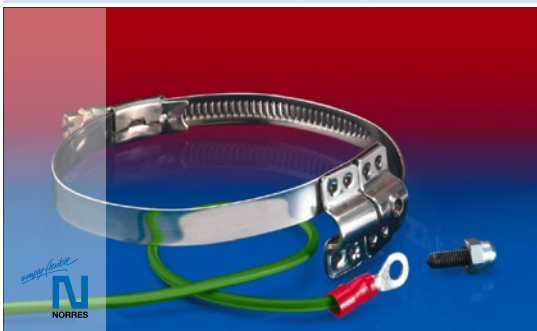
Quality: W2; Clamp strip: stainless steel 1.4016 = AISI 430; screw: galvanised steel;

Quality: W4; Clamp strip: stainless steel 1.4301 = AISI 304; screw: stainless steel 1.4301 = AISI 304

Accessories: 270-271



CLAMP 212 EC



- Bridge Clamp with integrated grounding (via earth strip) for attaching externally corrugated spiral hoses
- grounding without exposing spiral and without damaging hose
- practically leak-proof and secure clamping with special bridge geometry
- easily and quickly fitted
- re-usable

Design, Material: Quality: W2; Clamp strip: stainless steel 1.4016 = AISI 430; screw: galvanised steel; Body: stainless steel 1.4016 = AISI 430; bridge: stainless steel 1.4301 = AISI 304 (INOX); earthing screw: stainless steel (INOX)

Accessories: 270-271



CLAMP 217



- Bridge clamp with eyelet for attaching externally corrugated spiral hoses
- practically leak-proof and secure clamping with special bridge geometry
- easily and quickly fitted
- re-usable

Design, Material: Quality: W2; Clamp strip: stainless steel 1.4016 = AISI 430; screw: galvanised steel; Body: stainless steel 1.4016 = AISI 430; bridge: stainless steel 1.4301 = AISI 304 (INOX); fixing eyelet: galvanised steel

Accessories: 270-271



CLAMP 213



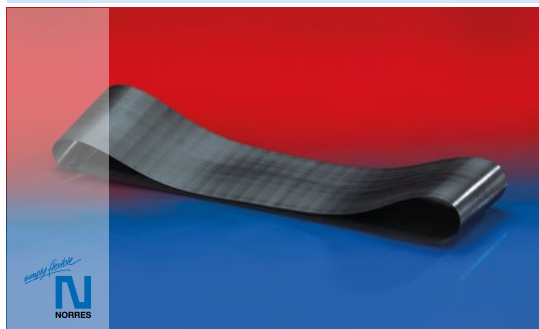
- Bridge Clamp with quick-release closure for attaching externally corrugated spiral hoses
- practically leak-proof and secure clamping with special bridge geometry
- easily and quickly fitted
- re-usable

Design, Material: Quality: W2; Clamp strip: stainless steel 1.4016 = AISI 430; closure: stainless steel (INOX); bridge: stainless steel 1.4301 = AISI 304

Accessories: 270-271



CONNECT 228



- Elastic clamp protection tape
- easily and quickly fitted
- re-usable
- highly abrasion resistant
- good resistance to oil, gasoline and chemicals

Design, Material: wall: polyurethane

Accessories: 212; 216; 208; 270-271



CONNECT 230

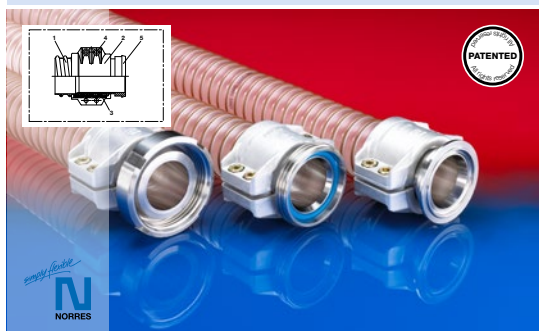


- Special safety clamp coupling system for silos and dry-bulk transporters with couplers: Storz, Threaded connection, etc.
- special threaded profile of the clamp shells matches the outer hose contour
- easily and quickly fitted
- re-usable
- vibration resistant
- thread reference DIN ISO 228

Design, Material: clamp shells: aluminium; screw and nut: galvanised steel gunmetal finish; Adapter: material acc. to norres.com



CONNECT SAFETY CLAMP ASSEMBLY 231



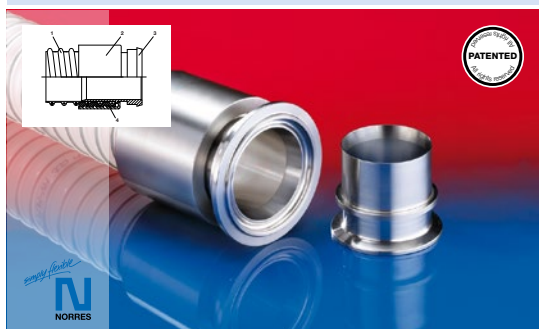
- Universal safety clamp coupling system incl. assembly if appropriate
- special threaded sealing insert matches the outer hose contour
- easily and quickly fitted
- re-usable
- vibration resistant
- Food grade sealing insert, complies with: FDA 21 CFR 177.2600 and 178.2010, EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

Design, Material: AIRDUC® profile hose; patented coupling system; clamp shells: aluminium; sealing insert: special premium ether-polyurethane (Pre-PUR®); screw and nut: galvanised steel gunmetal finish; Adapter: available as an option

Accessories: 234, 245, 247, 249



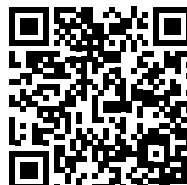
CONNECT PRESS ASSEMBLY 232



- Crimped coupling system incl. assembly
- special threaded sealing insert matches the outer hose contour
- vibration resistant
- Food grade sealing insert, complies with: FDA 21 CFR 177.2600 and 178.2010, EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

Design, Material: patented coupling system; AIRDUC® profile hose; pressing sleeve: stainless steel 1.4404 = AISI 316L; Adapter: available as an option; sealing insert: special premium ether-polyurethane (Pre-PUR®)

Accessories: 234, 245, 247, 249



CONNECT MOULD ASSEMBLY 233



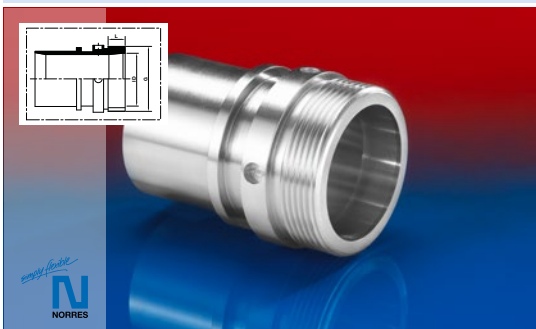
- Potted coupling system incl. assembly
- vibration resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

Design, Material: AIRDUC® profile hose; wall: special premium ether-polyurethane (Pre-PUR®); Adapter: available as an option

Accessories: 234, 245, 247, 249



CONNECT THREAD FITTING 234



- Threaded adapter
- thread reference DIN ISO 228
- gas and liquid tight as pre-fitted version

Accessories: 231, 232, 233



CONNECT TRI-CLAMP FITTING 245



- TRI clamp adapters based on DIN 32676 and ISO 2853
- gas and liquid tight as pre-fitted version

Design, Material: fitting: stainless steel 1.4404 (stamped) = AISI 316L; matching accessories: seal (silicone white, FDA), adapter (stainless steel 1.4404, stamped), clamp (stainless steel)

Accessories: 231, 232, 233



CONNECT DAIRY FITTING 247



- Dairy tube support based on DIN 2826/11888
- gas and liquid tight as pre-fitted version

Design, Material: fitting: stainless steel 1.4301 (stamped) = AISI 304 or 1.4571 (stamped) = AISI 316Ti; Threaded adapter with light blue Nitrile Perbunan (NBR) seal, safe for food

Accessories: 231, 232, 233



CONNECT ASEPTIC FITTING 249



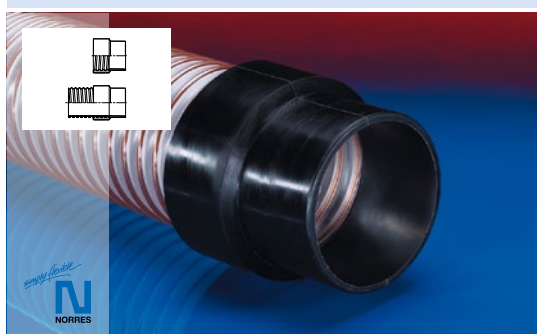
- Aseptic adapters based in DIN 11864-4
- gas and liquid tight as pre-fitted version

Design, Material: fitting: stainless steel 1.4404 (stamped) = AISI 316L

Accessories: 231, 232, 233



CONNECT 240 + 241 AS

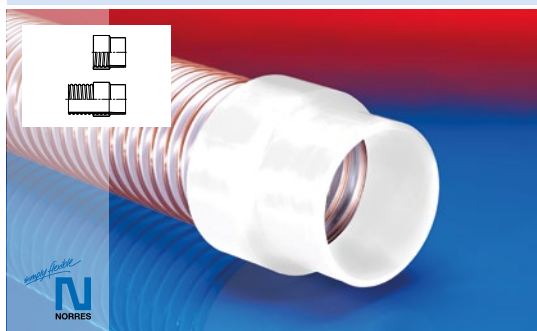


- Soft sleeve to slide onto connectors or push into pipes
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- version 241 - permanently antistatic wall: electrical and surface resistance approx. $10^9 \Omega$

Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)



CONNECT 240 + 241 FOOD

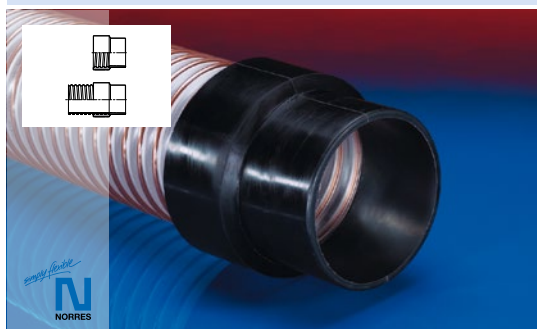


- Soft sleeve to slide onto connectors or push into pipes, foodgrade
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- version 241: material food grade according to EU 10/2011, FDA 21 CFR 177.1680 and CFR 177.2600
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)



CONNECT 240 EC

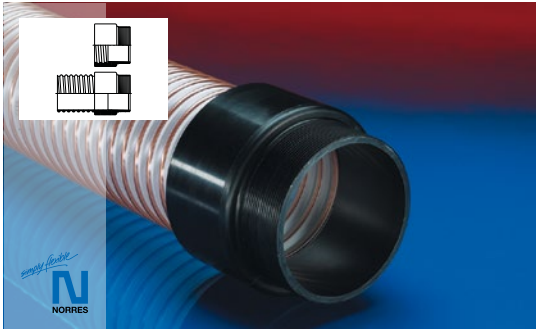


- Soft sleeve to slide onto connectors or push into pipes
- easily and quickly fitted
- re-usable (threaded version)
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- electrically conductive wall: electrical and surface resistance $<10^3 \Omega$

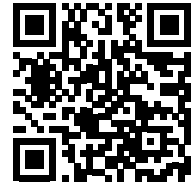
Design, Material: Wall of EC version electrically conductive $<10^3 \Omega$: electrically conductive Premium Ester-Polyurethane (Pre-PUR®),



CONNECT 242

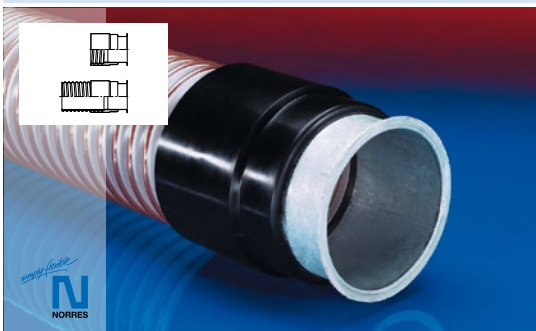


- Threaded adapter
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- thread reference DIN ISO 228

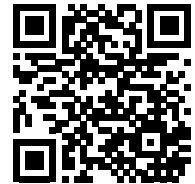


Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)

CONNECT 243

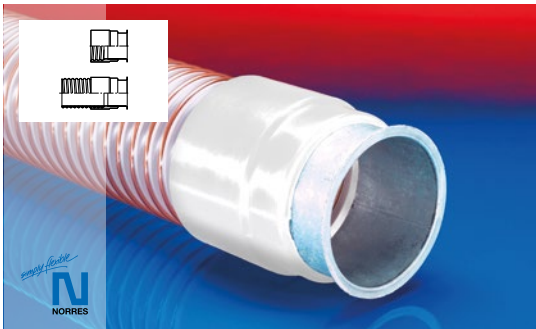


- Flanged pipe according to the popular pipe systems in the ventilation field (for example Jacob-Standard)
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals



Design, Material: flanged pipe: galvanised sheet metal; wall: special premium ether-polyurethane (Pre-PUR®)

CONNECT 243 FOOD

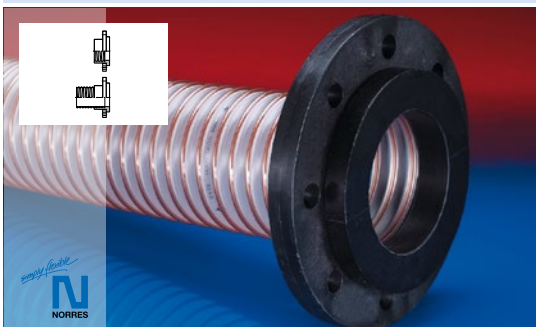


- Flanged pipe according to the popular pipe systems in the ventilation field (for example Jacob-Standard), food-grade
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- highly abrasion resistant
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

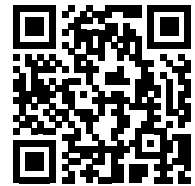


Design, Material: flanged pipe: Stainless Steel (INOX); wall: special premium ether-polyurethane (Pre-PUR®)

CONNECT 244

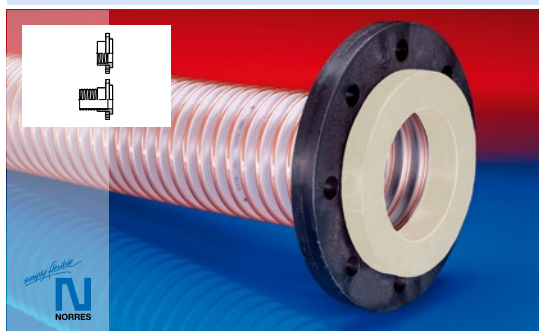


- Loose flange to fit mating flanges acc. to DIN 2632/2633, hole pattern DIN-EN 1092-1
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals



Design, Material: loose flange: polypropylene (PP) coated steel core; wall: special premium ether-polyurethane (Pre-PUR®)

CONNECT 244 FOOD



- Loose flange to fit mating flanges acc. to DIN 2632/2633, hole pattern DIN-EN 1092-1
- easily and quickly fitted
- re-usable (threaded version)
- gas and liquid tight as pre-fitted version
- highly abrasion resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals



Design, Material: loose flange: polypropylene (PP) coated steel core; wall: special premium ether-polyurethane (Pre-PUR®)

CONNECT 245 VAC-TRUCK

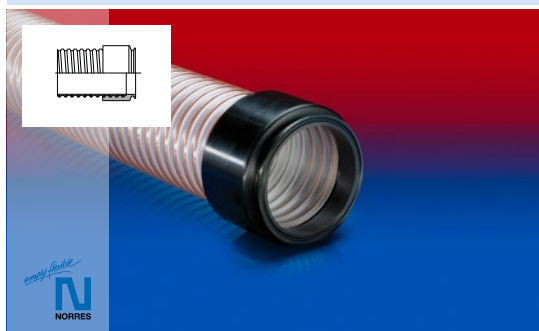


- Tapered flange coupling system to fit adapter acc. to DIN 3016-4
- easily and quickly fitted
- re-usable (threaded version)
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- When used vertically user must secure flange and hose with additional attachments
- gas and liquid tight as pre-fitted version



Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)

CONNECT 245



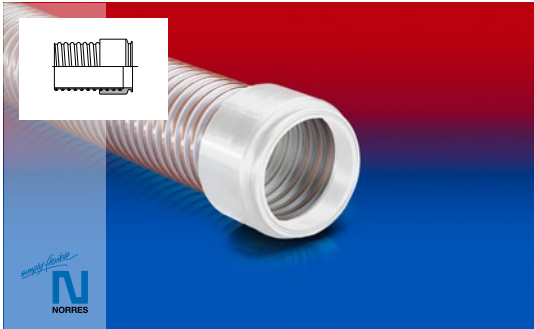
- TRI-Clamp coupling to fit adapter acc. to DIN 32677
- easily and quickly fitted
- re-usable (threaded version)
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals



Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)

Accessories: TRI-CLAMP 245

CONNECT 245 FOOD



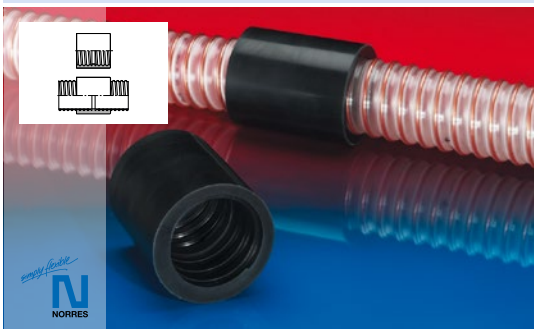
- TRI-Clamp coupling to fit adapter acc. to DIN 32677, foodgrade
- easily and quickly fitted
- re-usable (threaded version)
- highly abrasion resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)

Accessories: TRI-CLAMP 245



CONNECT 246 AS

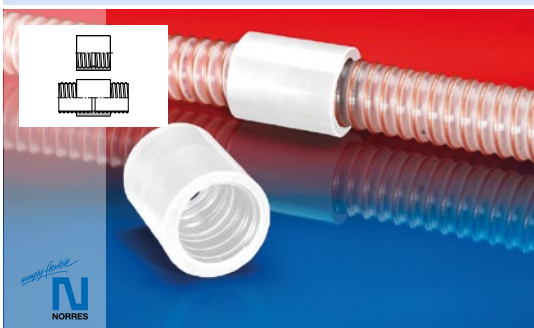


- Spiral hose connector for connecting, lengthening or repairing spiral hoses
- easily and quickly fitted
- re-usable (threaded version)
- highly abrasion resistant
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- permanently antistatic wall: electrical and surface resistance approx. $10^9 \Omega$

Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)



CONNECT 246 FOOD



- Spiral hose connector for connecting, lengthening or repairing spiral hoses, foodgrade
- easily and quickly fitted
- re-usable (threaded version)
- highly abrasion resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals

Design, Material: wall: special premium ether-polyurethane (Pre-PUR®)



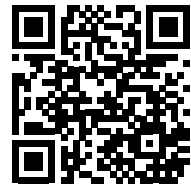
CONNECT 223



- Shrink hose for connecting one hose to another or to an adapter
- adapts itself to any surface
- easily and quickly fitted

Design, Material: polyolefine

Accessories: 208; 270-271

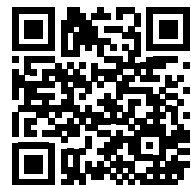


CONNECT 226



- Soft sleeve for SuperFlex hoses
- easily and quickly fitted
- re-usable (threaded version)
- good resistance to alkalis and acids
- good resistance to chemicals

Design, Material: wall: high grade soft PVC



CONNECT 227



- Soft sleeve for EVA hoses
- easily and quickly fitted
- re-usable
- good resistance to alkalis and acids
- good resistance to chemicals

Design, Material: Wall: high grade soft PVC, electrically conductive
<10⁶ Ω



CONNECT 270-271



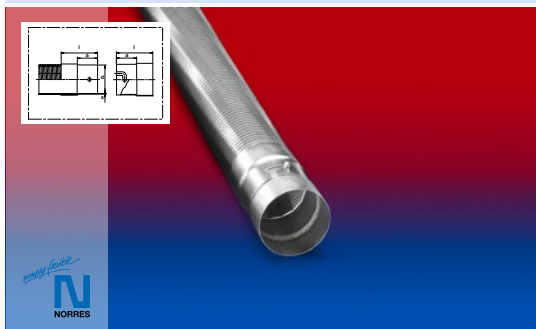
- Metal hose connector/reducer
- easily and quickly fitted
- re-usable (threaded version)

Design, Material: galvanised sheet metal

Accessories: 212; 216; 208; 211; 212 EC; 217; 213; 228; 223

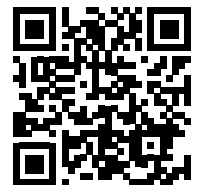


CONNECT 202

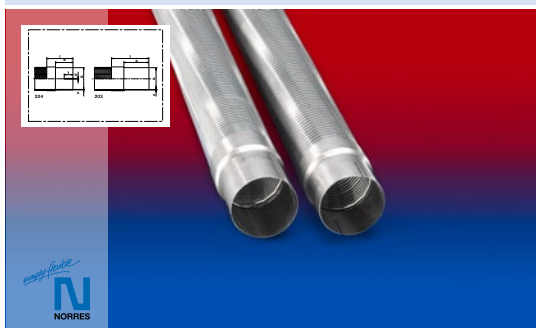


- Connectors for connecting or attaching metal hoses
- **Bayonet lock 202:** cylindrical bayonet lock, alternatively coupling with a pin or flange with an L-slot, extension at one end for attaching the metal hose

Design, Material: stainless steel (INOX)

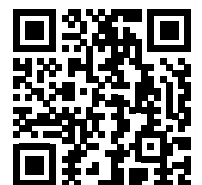


CONNECT 203-204

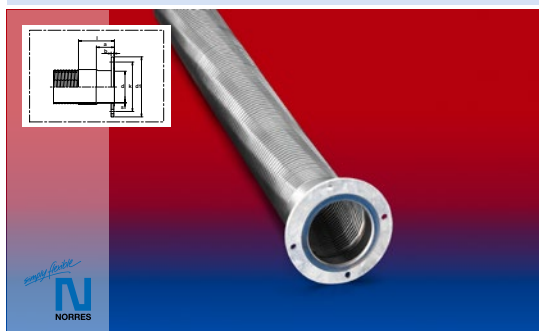


- Connectors for connecting or attaching metal hoses
- **Adapter 203:** cylindrical adapter, extension at one end for attaching the metal hose
- **Slotted adapter 204:** cylindrical adapter with two slots, extension at one end for attaching the metal hose

Design, Material: stainless steel (INOX)

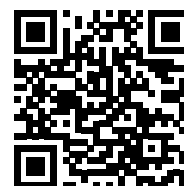


CONNECT 205

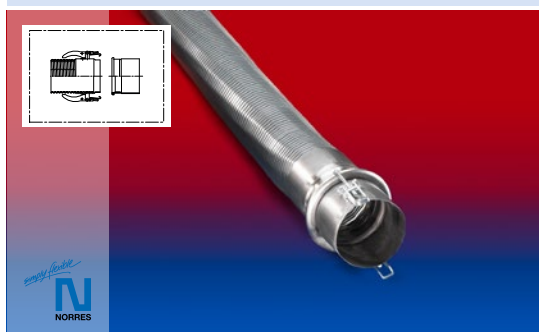


- Connectors for connecting or attaching metal hoses
- **Flange 205:** cylindrical adapter with rotatable flange, extension at one end for attaching the metal hose

Design, Material: stainless steel (INOX)



CONNECT 206



- Connectors for connecting or attaching metal hoses
- **Quick-release coupling 206:** quick-release coupling with several clamp clips, option of coupling with clamp clips or flange with flat face, extension at one end for attaching the metal hose

Design, Material: stainless steel (INOX)



CONNECT STORZ DIN ALU 251



- Storz suction coupling
- Not to be used for explosive fluids group 1 and not according to pressure equipment directive

Design, Material: DIN design - forged aluminium (52-C = DIN 14321 / 75-B = DIN 14322 / 110-A = DIN 14323)



CONNECT TANK TRUCK BRASS 252



- Brass tank truck coupling
- according to EN 14420-6
- Not to be used for explosive fluids group 1 and not according to pressure equipment directive

Design, Material: material: brass



CONNECT KAMLOK ALU 253



- Kamlok coupling
- fluted nozzle for band clamp fitting
- Not to be used for explosive fluids group 1 and not according to pressure equipment directive

Design, Material: material: aluminium



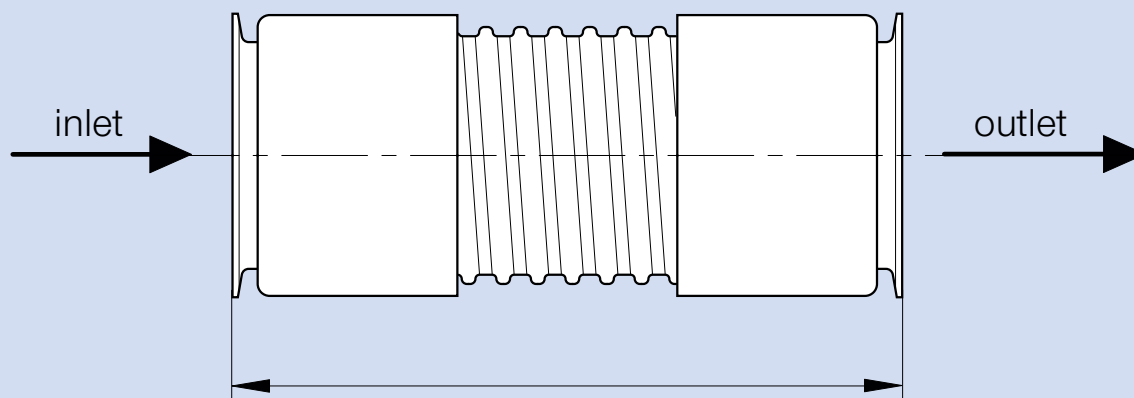
CONNECT KARDAN 254



- Kardan coupling
- Not to be used for explosive fluids group 1 and not according to pressure equipment directive

Design, Material: material: galvanized steel; incl. sealing ring made of NBR





ASSEMBLING CONFIGURATOR

Info

Inlet			
Step 1 Inlet fitting	Step 2 Hose	Step 3 Inlet assembly	Assembly needed parts
234 THREAD 245 TRI-CLAMP 247 DAIRY 249 ASEPTIC 251 STORZ 252 TANK TRUCK 253 KAMLOK 254 KARDAN	according datasheet of fitting	229 CLAMP (separate datasheet) 231 SAFETY CLAMP 232 PRESS 233 MOULD	→ CLAMP 208/211/212/212 EC/216 → 231 SAFETY CLAMP → 232 PRESS → -

Outlet		Additional services (separate datasheets)
Step 4 Outlet fitting	Step 5 Outlet assembly	Step 6
234 THREAD 245 TRI-CLAMP 247 DAIRY 249 ASEPTIC 251 STORZ 252 TANK TRUCK 253 KAMLOK 254 KARDAN	assembly needed parts 229 CLAMP → CLAMP 208/211/212/212 EC/216 231 SAFETY CLAMP → 231 SAFETY CLAMP 232 PRESS → 232 PRESS 233 MOULD → -	235 (cutting and grounding) 237 (packaging and labeling) 239 (testing)



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