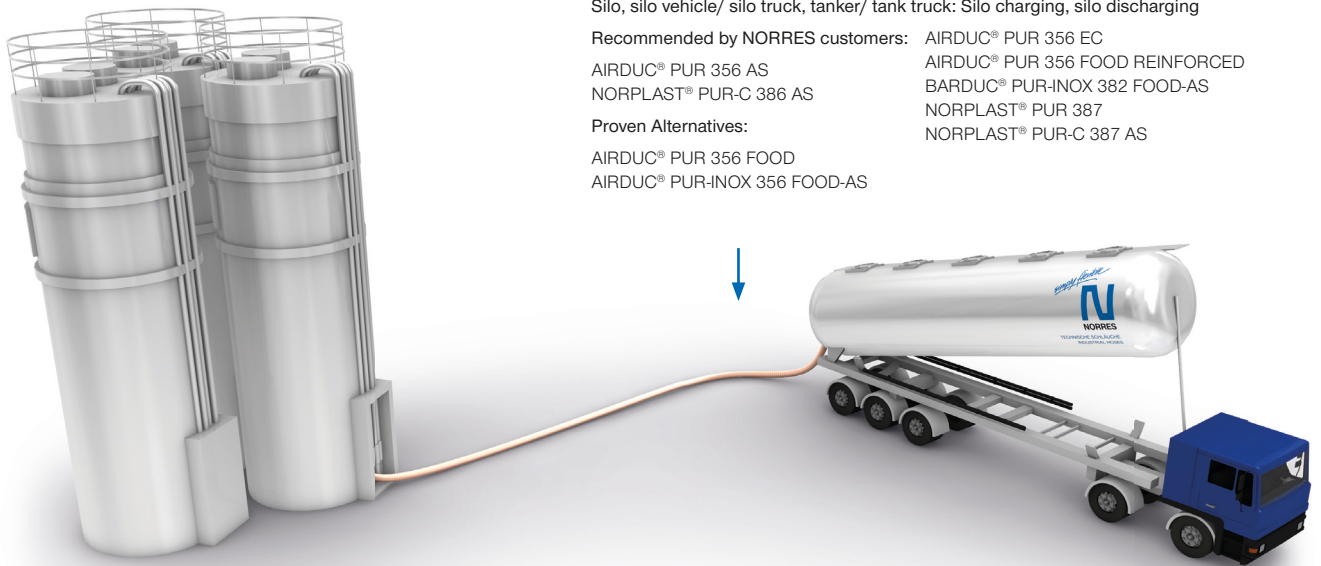




# NORRES INDUSTRIAL HOSES

RAW MATERIAL PROCESSING





Silo, silo vehicle/ silo truck, tanker/ tank truck: Silo charging, silo discharging

Recommended by NORRES customers: AIRDUC® PUR 356 EC  
AIRDUC® PUR 356 AS AIRDUC® PUR 356 FOOD REINFORCED  
NORPLAST® PUR-C 386 AS BARDUC® PUR-INOX 382 FOOD-AS  
NORPLAST® PUR 387  
Proven Alternatives: NORPLAST® PUR-C 387 AS

AIRDUC® PUR 356 FOOD  
AIRDUC® PUR-INOX 356 FOOD-AS

Screening machine/ sifting machine,  
vibration screening machine, tumbler  
screening machine, plansifter, windsifter



Recommended by NORRES customers:

PROTAPE® PUR-C 335 FOOD-AS FLAT

Proven Alternatives:

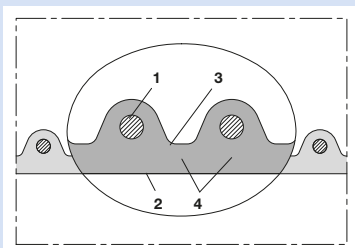
PROTAPE® PUR 301 AS

PROTAPE® PUR 330 AS

PROTAPE® PUR 330 FOOD

PROTAPE® PUR-INOX 330 FOOD-AS





Antistatic polyurethane hose, super-heavy, microbe resistant

**Applications**

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- plastic industry, conveying of granulates and powders: granulate conveying equipment, vacuum hopper/ conveyor, suction conveyor, dosing system, bulk-bag (big bag)-charging and discharging, shredder, mill, extruder, injection moulding machine
- suction vehicles: roof gravelling, roof gravel conveying
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- suction excavator
- explosion hazard area
- agricultural industry: pneumatic grain conveyer
- concrete pump: outlet hose, discharge hose
- construction industry: rock drill, rock drilling machine
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- compressor, side channel blower, vacuum pump, pressure pump, pump
- paper mill, paper and pulp industry, packaging machine: edge strip suctioning system/ edge trim exhaust systems

- surface preparation: shot blasting/ sand blasting recovery e.g. at blasting chamber, ship yard, stripping machine, flooring preparation machine, grinding machine
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of wood pellets, plastic granulate, plastic powder

**Properties**

- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$  and in accordance with TRGS 727  $<2,5 \cdot 10^8 \Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying

- for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 4
- conforms to RoHS guideline

**Temperature Range**

- -40°C to 90°C
- short time to 125°C

**Design, Material**

- AIRDUC® profile hose
1. spring steel wire firmly embedded in wall
  2. wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
  3. wall thickness 2,0 to 2,5 mm approx.
  4. reinforcement of the primary abrasion areas

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- special colours: full coloured
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,25 / 32	43	5,235	1,000	90	0,680	10 15	356-0032-0000
1,5 / 38	49	4,475	1,000	104	0,790	10 15	356-0038-0000
- / 40	51	4,270	1,000	109	0,820	10 15	356-0040-0000
1,75 / 45	56	3,825	1,000	129	0,910	10 15 20	356-0045-0000
- / 50	61	3,470	1,000	134	1,000	10 15	356-0050-0000
2 / 51	62	3,200	1,000	134	1,020	10 15	356-0051-0000
- / 55	66	3,170	1,000	151	1,090	10 15	356-0055-0000
2,36 / 60	71	2,920	1,000	156	1,180	10 15	356-0060-0000
2,5 / 63-65	74	2,810	1,000	163	1,230	10 15	356-0063-0000
- / 65	76	2,705	1,000	169	1,270	10 15	356-0065-0000
- / 70	82	2,520	1,000	186	1,370	10 15	356-0070-0000
- / 75	87	2,360	1,000	195	1,460	10 15	356-0075-0000
3 / 76	88	2,355	1,000	195	1,470	10 15	356-0076-0000
- / 80	92	2,220	1,000	205	1,550	10 15	356-0080-0000
- / 90	103	2,195	1,000	250	2,060	10 15	356-0090-0000
- / 100	113	1,980	1,000	272	2,270	10 15	356-0100-0000
4 / 102	115	1,890	1,000	272	2,310	10 15	356-0102-0000
- / 110	123	1,805	1,000	300	2,480	10 15	356-0110-0000
4,5 / 115	128	1,730	0,975	317	2,580	10 15	356-0115-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



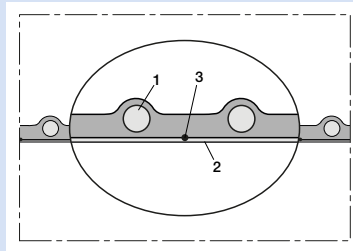
I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
4,72 / 120	133	1,660	0,930	330	2,690	10 15	356-0120-0000
- / 125	138	1,595	0,895	336	2,800	10 15 20	356-0125-0000
5 / 127	140	1,565	0,890	336	2,840	10 15	356-0127-0000
- / 130	143	1,535	0,860	355	2,900	10 15	356-0130-0000
5,5 / 140	153	1,430	0,800	400	3,110	10 15	356-0140-0000
- / 150	163	1,335	0,745	435	3,680	10 15	356-0150-0000
6 / 152	165	1,305	0,835	435	3,720	10 15	356-0152-0000
6,3 / 160	173	1,255	0,700	470	3,910	10 15	356-0160-0000
- / 170	183	1,180	0,660	600	4,150	10 15	356-0170-0000
- / 175	188	1,150	0,640	700	4,260	10 15	356-0175-0000
- / 180	193	1,120	0,620	830	4,380	10 15	356-0180-0000
- / 200	214	1,010	0,560	950	5,940	10 15	356-0200-0000
8 / 203	216	0,955	0,550	950	6,020	10 15	356-0203-0000
- / 225	239	0,900	0,495	1175	6,650	10	356-0225-0000
- / 250	264	0,810	0,445	1300	7,350	2,5 5 10	356-0250-0000
- / 275	289	0,735	0,405	1453	8,070	2,5 5 10	356-0275-0000
- / 300	314	0,675	0,375	1575	8,780	2,5 5 10	356-0300-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Accessories



Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Antistatic polyurethane hose, heavy, grounding wire

**Applications**

- flexible hose/ ducting for high throughput of abrasive powder, bulk material, granulate and for gases
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- plastic industry, conveying of granulates and powders: granulate conveying equipment, vacuum hopper/ conveyor, suction conveyor, dosing system, bulk-bag (big bag)-charging and discharging, shredder, mill, extruder, injection moulding machine
- explosion hazard area
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- silos, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silos, silo vehicle/ silo truck, tanker/ tank truck: conveying of wood pellets, plastic granulate, plastic powder

- wood pellet heating system: conveying of wood pellets

**Properties**

- heavy duty
- highly abrasion resistant
- increased pressure and vacuum resistance
- good resistance to chemicals
- phthalate-free
- grounding wire for discharging of electrostatic charging
- electrical and surface resistance of the inliner <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to RoHS guideline

**Temperature Range**

- 20°C to 70°C
- short time to 80°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

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- special colours: coloured spiral, full coloured
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	
1,25 / 32	39,0	5,000	0,700	165,4	0,450	-	15 30	386-0032-0000
1,5 / 38	46,0	5,000	0,700	195,7	0,590	15 30	-	386-0038-0000
- / 40	48,8	5,000	0,700	205,0	0,620	15 20 30	-	386-0040-0000
1,75 / 44-45	53,0	5,000	0,700	228,3	0,750	15 30	-	386-0045-0000
2 / 50-51	59,0	5,000	0,700	254,0	0,880	15 20 30	-	386-0050-0000
2,36 / 60	69,0	5,000	0,700	300,6	1,060	15 20 30	-	386-0060-0000
2,5 / 63-65	72,0	5,000	0,700	314,6	1,130	15 30	-	386-0063-0000
- / 70	79,0	5,000	0,700	347,2	1,280	15 30	-	386-0070-0000
3 / 75-76	85,0	5,000	0,700	375,1	1,460	15 30	-	386-0076-0000
- / 80	90,0	4,000	0,700	396,1	1,630	15 30	-	386-0080-0000
3,5 / 89-90	100,0	4,000	0,700	442,7	1,940	15 30	-	386-0090-0000
4 / 100-102	112,0	4,000	0,700	498,6	2,310	15 30	-	386-0102-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Accessories

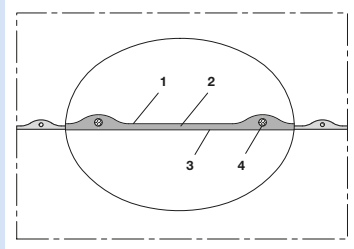
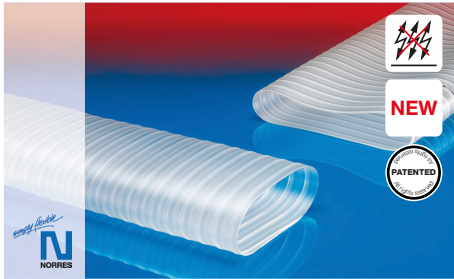


CLAMP 211



CONNECT 270-271

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Screening machine hose and compensator, vibration resistant

**Applications**

- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- explosion hazard area
- screening machine/ sifting machine, vibration screening machine, tumbler screening machine, plansifter, windsifter
- bellows, compensators

**Properties**

- highly flexible
- abrasion-resistant
- vibration resistant

- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004, incl. the latest EU-Directive 2015/174, FDA 21 CFR 177.2600
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

- short time to 125°C

**Design, Material**

- patented PROTAPE® tape hose
1. wall interior and exterior smooth
  2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
  3. wall thickness 1,0 mm approx.; wall interior smooth
  4. grounding wire

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

**Temperature Range**

- -40°C to 90°C

I.D.	O.D.	Over-pressure	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	kg/m	m	
2 / 50-51	55	0,580	0,310	2	335-0050-0000
2,36 / 60	65	0,560	0,370	2	335-0060-0000
- / 80	85	0,510	0,470	2,5 5	335-0080-0000
- / 85	90	0,480	0,500	2,5 5	335-0085-0000
4 / 100-102	105	0,410	0,590	2,5 5	335-0100-0000
- / 110	115	0,375	0,650	2,5 5	335-0110-0000
4,5 / 114-115	120	0,355	0,670	2,5 5	335-0115-0000
4,72 / 120	125	0,340	0,700	2,5 5	335-0120-0000
5 / 125-127	130	0,330	0,730	2,5 5	335-0125-0000
6 / 150-152	155	0,275	0,880	2,5 5	335-0150-0000
- / 155	160	0,265	0,900	2,5 5	335-0155-0000
6,3 / 160	165	0,255	0,930	2,5 5	335-0160-0000
6,5 / 165	170	0,250	0,960	2,5 5	335-0165-0000
7 / 178-180	185	0,230	1,050	2,5 5	335-0180-0000
8 / 200-203	205	0,205	1,140	2,5 5	335-0200-0000
- / 205	210	0,200	1,190	2,5 5	335-0205-0000
- / 220	225	0,185	1,280	2,5 5	335-0220-0000
- / 250	255	0,165	1,450	2,5 5	335-0250-0000
- / 275	280	0,150	1,590	2,5 5	335-0275-0000
12 / 305	310	0,135	1,770	2,5 5	335-0305-0000
- / 350	355	0,115	2,030	2,5 5	335-0350-0000
16 / 405-406	410	0,105	2,340	2,5 5	335-0405-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

## Accessories



CLAMP 208



CLAMP 211



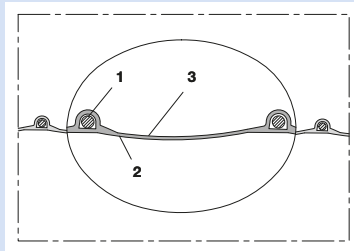
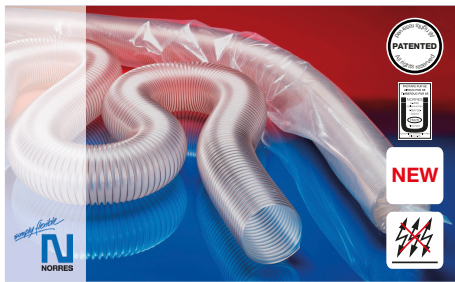
CONNECT 228



CONNECT 270-271

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.





Antistatic polyurethane hose, super-light, microbe resistant + flame-retardant

**Applications**

- flexible hose/ ducting for gases and for abrasive dust, powder, fibres
- extraction unit, dedusting system, filter system, oil mist extraction
- extraction arm
- chemical industry: chemical vapours, vapour return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- animal stall, animal shed: barn ventilation
- bus, utility vehicle, caravan/ trailer, mobile home/ camper/ RV, boat, ship/ vessel/ marine, yacht: ventilation, heating
- clean room ventilation, semiconductor production machine
- bellows, compensators

**Properties**

- super-light weight
- highly flexible + compressible 3:1
- abrasion-resistant

- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 1
- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C
- short time to 125°C

**Design, Material**

- patented PROTAPE® tape hose
- spring steel wire integrated in wall
  - wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
  - wall thickness 0,4 mm approx.

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- special colours: partially coloured, completely coloured
- customer-specific branding
- ID 1"/25mm – 12"/305mm compressed packed in poly bag (low transportation cost / risk, minimum storage size), ID315 – 500mm not compressed

I.D. in / mm	O.D. mm	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Dimensions in Stock m	Order No.
1,5 / 38	46	0,630 (1,86)	0,245 (0,73)	27	0,220	5 10 15	301-0038-0000
- / 40	48	0,600 (1,77)	0,235 (0,66)	28	0,230	5 10 15	301-0040-0000
1,75 / 44-45	53	0,535 (1,58)	0,210 (0,52)	31	0,255	5 10 15	301-0045-0000
2 / 50-51	58	0,480 (1,42)	0,170 (0,85)	33	0,280	5 10 15	301-0050-0000
2,36 / 60	68	0,405 (1,19)	0,145 (0,59)	38	0,340	5 10 15	301-0060-0000
2,5 / 63-65	73	0,370 (1,09)	0,130 (0,51)	40	0,360	5 10 15	301-0065-0000
- / 70	78	0,345 (1,02)	0,125 (0,44)	43	0,380	5 10 15	301-0070-0000
3 / 75-76	83	0,325 (0,95)	0,115 (0,39)	45	0,410	5 10 15	301-0075-0000
- / 80	88	0,305 (0,89)	0,110 (0,34)	48	0,440	5 10 15	301-0080-0000
3,5 / 89-90	98	0,270 (0,79)	0,095 (0,27)	53	0,490	5 10 15	301-0090-0000
4 / 100-102	108	0,245 (0,71)	0,055 (0,30)	58	0,510	5 10 15	301-0100-0000
- / 110	118	0,220 (0,65)	0,050 (0,25)	63	0,560	5 10 15	301-0110-0000
4,5 / 114-115	123	0,210 (0,62)	0,050 (0,23)	66	0,580	5 10 15	301-0115-0000
4,72 / 120	128	0,205 (0,59)	0,045 (0,21)	68	0,610	5 10 15	301-0120-0000
5 / 125-127	133	0,195 (0,57)	0,045 (0,19)	71	0,630	5 10 15	301-0125-0000
- / 130	138	0,185 (0,55)	0,040 (0,18)	73	0,660	5 10 15	301-0130-0000
5,5 / 140	148	0,175 (0,51)	0,040 (0,15)	78	0,710	5 10 15	301-0140-0000
6 / 150-152	158	0,160 (0,48)	0,035 (0,13)	83	0,760	5 10 15	301-0150-0000
6,3 / 160	168	0,150 (0,45)	0,035 (0,12)	88	0,810	5 10 15	301-0160-0000
6,5 / 165	173	0,150 (0,43)	0,035 (0,11)	91	0,830	5 10 15	301-0165-0000
7 / 178-180	188	0,135 (0,40)	0,030 (0,09)	98	0,900	5 10 15	301-0180-0000
8 / 200-203	208	0,120 (0,36)	0,025 (0,11)	108	1,030	5 10 15	301-0200-0000
- / 225	234	0,110 (0,32)	0,020 (0,08)	122	1,160	5 10	301-0225-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Dimensions in Stock m	Order No.
in / mm	mm						
- / 250	259	0,100 (0,29)	0,020 (0,06)	136	1,280	5 10	301-0250-0000
10 / 254	263	0,095 (0,28)	0,020 (0,06)	144	1,300	5 10	301-0254-0000
11 / 280	289	0,085 (0,26)	0,020 (0,05)	149	1,430	5 10	301-0280-0000
- / 300	309	0,080 (0,24)	0,015 (0,04)	159	1,700	5 10	301-0300-0000
12 / 305	315	0,080 (0,23)	0,015 (0,04)	163	1,730	5 10	301-0305-0000
- / 315	325	0,075 (0,23)	0,015 (0,04)	168	1,790	5 10	301-0315-0000
- / 350	360	0,070 (0,20)	0,015 (0,03)	185	2,000	5 10	301-0350-0000
14 / 356	366	0,070 (0,20)	0,015 (0,03)	190	2,100	5 10	301-0356-0000
- / 400	410	0,060 (0,18)	0,015 (0,02)	210	2,260	5 10	301-0400-0000
- / 450	460	0,055 (0,16)	0,010 (0,02)	235	2,520	5 10	301-0450-0000
- / 500	510	0,050 (0,14)	0,010 (0,01)	260	2,780	5 10	301-0500-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

### Accessories



CLAMP 212



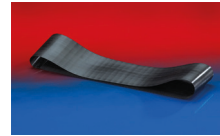
CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

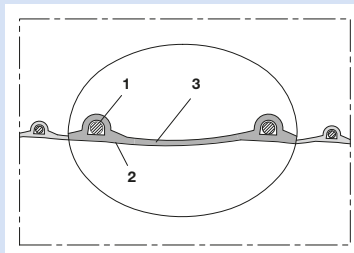
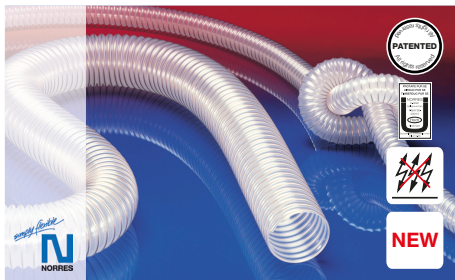


CONNECT 223



CONNECT 270-271

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Antistatic polyurethane hose, light, microbe resistant + flame-retardant

**Applications**

- flexible hose/ ducting for gases and for abrasive dust, powder, fibres
- printed circuit board drilling machine (PCB)
- extraction unit, dedusting system, filter system, oil mist extraction
- extraction arm
- chemical industry: chemical vapours, vapour return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- textile industry, fiber extraction: spinning machine, knitting machine, weaving loom machine
- animal stall, animal shed: barn ventilation
- clean room ventilation, semiconductor production machine
- surface preparation: shot blasting/ sand blasting recovery e.g. at blasting chamber, ship yard, stripping machine, flooring preparation machine, grinding machine
- heating hose: exterior hose as protection hose

**Properties**

- lightweight and reinforced
- highly flexible + compressible 3:1
- abrasion-resistant
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C
- short time to 125°C

**Design, Material**

- patented PROTAPE® tape hose
- spring steel wire integrated in wall
  - wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
  - wall thickness 0,6 mm approx.

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- special colours: partially coloured, completely coloured
- customer-specific branding

I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1 / 25	32	1,605 (4,18)	0,540 (1,00)	20	0,15	5 10 15	330-0025-1002
- / 30	37	1,350 (3,50)	0,450 (1,00)	22	0,18	5 10 15	330-0030-1002
1,25 / 32	39	1,265 (3,29)	0,420 (1,00)	23	0,19	5 10 15	330-0032-1002
1,5 / 38	45	1,075 (2,78)	0,355 (0,77)	26	0,22	5 10 15	330-0038-1002
- / 40	47	1,020 (2,64)	0,335 (0,69)	27	0,23	5 10 15	330-0040-1002
2 / 50-51	58	0,820 (2,12)	0,220 (0,87)	33	0,37	5 10 15	330-0050-1002
2,36 / 60	68	0,685 (1,77)	0,180 (0,61)	38	0,43	5 10 15	330-0060-1002
2,5 / 63-65	73	0,635 (1,64)	0,165 (0,52)	41	0,46	5 10 15	330-0065-1002
- / 70	78	0,590 (1,52)	0,155 (0,45)	43	0,5	5 10 15	330-0070-1002
3 / 75-76	83	0,550 (1,42)	0,145 (0,40)	46	0,53	5 10 15	330-0075-1002
- / 80	88	0,515 (1,33)	0,135 (0,35)	48	0,57	5 10 15	330-0080-1002
3,5 / 89-90	98	0,460 (1,19)	0,120 (0,28)	53	0,63	5 10 15	330-0090-1002
4 / 100-102	108	0,415 (1,07)	0,080 (0,31)	58	0,67	5 10 15	330-0100-1002
- / 110	118	0,375 (0,97)	0,070 (0,26)	63	0,73	5 10 15	330-0110-1002
4,5 / 114-115	123	0,360 (0,93)	0,070 (0,24)	66	0,76	5 10 15	330-0115-1002
4,72 / 120	128	0,345 (0,89)	0,065 (0,22)	68	0,79	5 10 15	330-0120-1002
5 / 125-127	133	0,335 (0,86)	0,065 (0,20)	71	0,83	5 10 15	330-0125-1002
- / 130	138	0,320 (0,82)	0,060 (0,19)	73	0,86	5 10 15	330-0130-1002
5,5 / 140	148	0,295 (0,76)	0,055 (0,16)	78	0,92	5 10 15	330-0140-1002
6 / 150-152	158	0,275 (0,71)	0,055 (0,14)	83	0,99	5 10 15	330-0150-1002
6,3 / 160	168	0,260 (0,67)	0,050 (0,12)	88	1,05	5 10 15	330-0160-1002
- / 170	178	0,245 (0,63)	0,045 (0,11)	93	1,11	5 10 15	330-0170-1002
- / 175	183	0,240 (0,61)	0,045 (0,10)	96	1,14	5 10 15	330-0175-1002

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



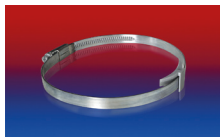
I.D.	O.D.	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm			mm	kg/m	m	
7 / 178-180	188	0,230 (0,59)	0,045 (0,10)	98	1,17	5 10 15	330-0180-1002
8 / 200-203	208	0,210 (0,54)	0,030 (0,11)	108	1,33	5 10 15	330-0200-1002
- / 225	233	0,185 (0,48)	0,025 (0,09)	121	1,48	5 10	330-0225-1002
- / 250	258	0,165 (0,43)	0,025 (0,07)	133	1,64	5 10	330-0250-1002
10 / 254	262	0,165 (0,42)	0,025 (0,06)	135	1,66	5 10	330-0254-1002
11 / 280	288	0,150 (0,38)	0,020 (0,05)	148	1,83	5 10	330-0280-1002
- / 300	309	0,140 (0,36)	0,020 (0,05)	159	2,14	5 10	330-0300-1002
12 / 305	314	0,135 (0,35)	0,020 (0,05)	162	2,17	5 10	330-0305-1002
- / 315	324	0,135 (0,34)	0,020 (0,05)	167	2,24	5 10	330-0315-1002
- / 350	359	0,120 (0,31)	0,020 (0,04)	184	2,49	5 10	330-0350-1002
14 / 356	365	0,115 (0,30)	0,015 (0,03)	187	2,53	5 10	330-0356-1002
- / 400	409	0,105 (0,27)	0,015 (0,02)	209	2,84	5 10	330-0400-1002
- / 450	459	0,095 (0,24)	0,015 (0,02)	234	3,19	5 10	330-0450-1002
- / 500	510	0,085 (0,21)	0,015 (0,02)	260	4,39	5 10	330-0500-1002

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

## Accessories



CLAMP 212



CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

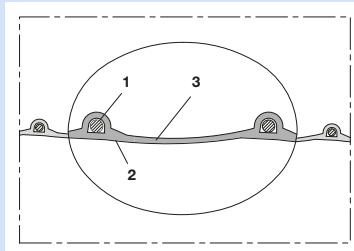
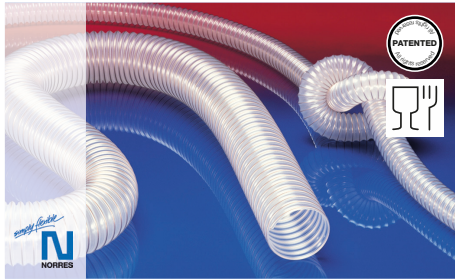


CONNECT 223



CONNECT 270-271

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Food hose and pharmaceutical hose, light

**Applications**

- flexible hose/ ducting for gases and for abrasive dust, powder, fibres
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- extraction arm
- clean room ventilation, semiconductor production machine
- medical equipment/ medical technology, health-care sector: cable protection conduit, air supply hose, extraction hose

- highly flexible + compressible 3:1
- abrasion-resistant
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

- short time to 125°C

**Design, Material**

- patented PROTAPE® tape hose
- spring steel wire integrated in wall
  - wall: special premium ether-polyurethane (Pre-PUR®)
  - wall thickness 0,6 mm approx.

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

**Properties**

- lightweight and reinforced

**Temperature Range**

- 40°C to 90°C

I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1 / 25	32	1,605 (4,18)	0,540 (1,00)	20	0,15	5 10 15	330-0025-0000
- / 30	37	1,350 (3,50)	0,450 (1,00)	22	0,18	5 10 15	330-0030-0000
1,25 / 32	39	1,265 (3,29)	0,420 (1,00)	23	0,19	5 10 15	330-0032-0000
1,5 / 38	45	1,075 (2,78)	0,355 (0,77)	26	0,22	5 10 15	330-0038-0000
- / 40	47	1,020 (2,64)	0,335 (0,69)	27	0,23	5 10 15	330-0040-0000
1,75 / 44-45	52	0,910 (2,35)	0,300 (0,55)	30	0,26	10 15	330-0045-0000
2 / 50-51	58	0,820 (2,12)	0,220 (0,87)	33	0,37	5 10 15	330-0050-0000
2,36 / 60	68	0,685 (1,77)	0,180 (0,61)	38	0,43	5 10 15	330-0060-0000
2,5 / 63-65	73	0,635 (1,64)	0,165 (0,52)	41	0,46	5 10 15	330-0065-0000
- / 70	78	0,590 (1,52)	0,155 (0,45)	43	0,5	5 10 15	330-0070-0000
3 / 75-76	83	0,550 (1,42)	0,145 (0,40)	46	0,53	5 10 15	330-0075-0000
- / 80	88	0,515 (1,33)	0,135 (0,35)	48	0,57	5 10 15	330-0080-0000
3,5 / 89-90	98	0,460 (1,19)	0,120 (0,28)	53	0,63	5 10 15	330-0090-0000
4 / 100-102	108	0,415 (1,07)	0,080 (0,31)	58	0,67	5 10 15	330-0100-0000
- / 110	118	0,375 (0,97)	0,070 (0,26)	63	0,73	5 10 15	330-0110-0000
4,5 / 114-115	123	0,360 (0,93)	0,070 (0,24)	66	0,76	5 10 15	330-0115-0000
4,72 / 120	128	0,345 (0,89)	0,065 (0,22)	68	0,79	5 10 15	330-0120-0000
5 / 125-127	133	0,335 (0,86)	0,065 (0,20)	71	0,83	5 10 15	330-0125-0000
- / 130	138	0,320 (0,82)	0,060 (0,19)	73	0,85	5 10 15	330-0130-0000
5,5 / 140	148	0,295 (0,76)	0,055 (0,16)	78	0,92	5 10 15	330-0140-0000
6 / 150-152	158	0,275 (0,71)	0,055 (0,14)	83	0,99	5 10 15	330-0150-0000
6,3 / 160	168	0,260 (0,67)	0,050 (0,12)	88	1,04	5 10 15	330-0160-0000
- / 170	178	0,245 (0,63)	0,045 (0,11)	93	1,11	5 10 15	330-0170-0000
- / 175	183	0,240 (0,61)	0,045 (0,10)	96	1,14	5 10 15	330-0175-0000
7 / 178-180	188	0,230 (0,59)	0,045 (0,10)	98	1,17	5 10 15	330-0180-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Dimensions in Stock m	Order No.
in / mm	mm						
8 / 200-203	208	0,210 (0,54)	0,030 (0,11)	108	1,33	5 10	330-0200-0000
- / 225	233	0,185 (0,48)	0,025 (0,09)	121	1,47	5 10 15	330-0225-0000
- / 250	258	0,165 (0,43)	0,025 (0,07)	133	1,63	5 10	330-0250-0000
10 / 254	262	0,165 (0,42)	0,025 (0,06)	135	1,66	5 10	330-0254-0000
11 / 280	288	0,150 (0,38)	0,020 (0,05)	148	1,82	5 10	330-0280-0000
- / 300	309	0,140 (0,36)	0,020 (0,05)	159	2,13	5 10	330-0300-0000
- / 315	324	0,135 (0,34)	0,020 (0,05)	167	2,23	5 10	330-0315-0000
- / 325	334	0,130 (0,33)	0,020 (0,04)	172	2,3	5 10	330-0325-0000
- / 350	359	0,120 (0,31)	0,020 (0,04)	184	2,48	5 10	330-0350-0000
- / 400	409	0,105 (0,27)	0,015 (0,02)	209	2,83	5 10	330-0400-0000
- / 450	459	0,095 (0,24)	0,015 (0,02)	234	3,18	5 10	330-0450-0000
- / 500	510	0,085 (0,21)	0,015 (0,02)	260	4,38	5 10	330-0500-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

### Accessories



CLAMP 212



CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

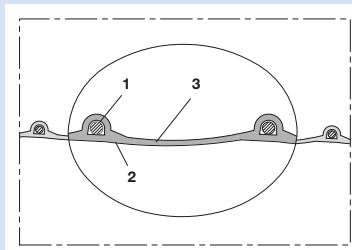
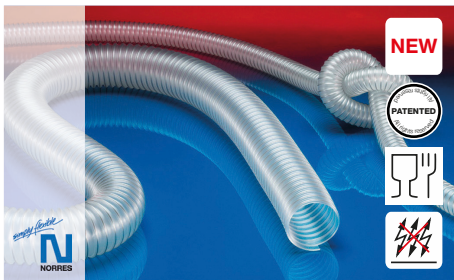


CONNECT 223



CONNECT 270-271

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Antistatic food hose and pharmaceutical hose, light, stainless steel (INOX)

**Applications**

- flexible hose/ ducting for gases and for abrasive dust, powder, fibres
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- extraction arm
- explosion hazard area

**Properties**

- lightweight and reinforced
- highly flexible + compressible 3:1
- abrasion-resistant
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest

EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600

- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math> and in accordance with TRGS 727 <math><2,5 \* 10^8 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- manufacturing process acc. GMP EC 2023/2006

- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C

**Design, Material**

patented PROTAPE® tape hose

- spring steel wire integrated in wall; spiral: stainless steel wire (INOX)
- wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- wall thickness 0,6 mm approx.

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

I.D.	O.D.	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Dimensions in Stock m	Order No.
in / mm	mm						
1,5 / 38	45	1,075 (4,36)	0,355 (0,77)	26	0,22	5 10	330-0038-1018
- / 40	47	1,020 (4,15)	0,335 (0,69)	27	0,24	5 10	330-0040-1018
2 / 50-51	58	0,820 (3,34)	0,220 (0,87)	33	0,38	5 10	330-0050-1018
2,36 / 60	68	0,685 (2,80)	0,180 (0,61)	38	0,44	5 10	330-0060-1018
2,5 / 63-65	73	0,635 (2,59)	0,165 (0,52)	41	0,47	5 10	330-0065-1018
- / 70	78	0,590 (2,41)	0,155 (0,45)	43	0,51	5 10	330-0070-1018
3 / 75-76	83	0,550 (2,25)	0,145 (0,40)	46	0,55	5 10	330-0075-1018
- / 80	88	0,515 (2,11)	0,135 (0,35)	48	0,58	5 10	330-0080-1018
4 / 100-102	108	0,415 (1,70)	0,080 (0,31)	58	0,69	5 10	330-0100-1018
5 / 125-127	133	0,335 (1,36)	0,065 (0,20)	71	0,85	5 10	330-0125-1018
6 / 150-152	158	0,275 (1,14)	0,055 (0,14)	83	1,01	5 10	330-0150-1018
6,3 / 160	168	0,260 (1,07)	0,050 (0,12)	88	1,07	5 10	330-0160-1018
7 / 178-180	188	0,230 (0,95)	0,045 (0,10)	98	1,2	5 10	330-0180-1018
8 / 200-203	208	0,210 (0,85)	0,030 (0,11)	108	1,35	5 10	330-0200-1018
- / 250	258	0,165 (0,68)	0,025 (0,07)	133	1,67	5 10	330-0250-1018
- / 300	308	0,140 (0,57)	0,020 (0,05)	158	2,17	5 10	330-0300-1018

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

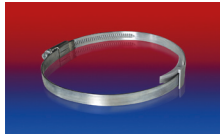
Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Accessories



CLAMP 212



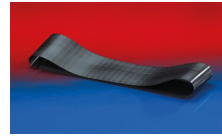
CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



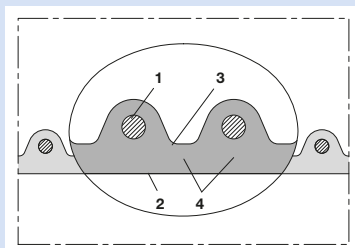
CONNECT 223



CONNECT 270-271

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.





Electrically conductive polyurethane hose, super-heavy

**Applications**

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- explosion hazard area
- Coal mine, mine, tunnelling: ventilation, methane extraction
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging

**Properties**

- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch

- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- electrically conductive wall: electrical and surface resistance <math><10^3 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 0 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 4
- conforms to RoHS guideline

**Temperature Range**

- -40°C to 90°C

**Design, Material**

AIRDUC® profile hose

1. spring steel wire firmly embedded in wall
2. wall: electrically conductive premium ester-polyurethane (Pre-PUR®)
3. wall thickness 2,0 to 2,5 mm approx.
4. reinforcement of the primary abrasion areas

**Delivery variants**

- further diameters and lengths available on request
- black (standard)
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,5 / 38	49	3,810	1,000	104	0,790	10 15	356-0038-1003
- / 40	51	3,635	1,000	109	0,820	10 15	356-0040-1003
- / 50	61	2,950	1,000	134	1,000	10 15	356-0050-1003
2 / 50-51	62	2,800	1,000	134	1,010	10 15	356-0051-1003
2,36 / 60	71	2,485	1,000	156	1,180	10 15	356-0060-1003
2,5 / 63-65	74	2,395	1,000	163	1,240	10 15	356-0063-1003
- / 65	76	2,305	1,000	169	1,270	10 15	356-0065-1003
- / 70	82	2,145	1,000	186	1,370	10 15	356-0070-1003
- / 75	87	2,010	1,000	195	1,460	10 15	356-0075-1003
3 / 76	88	1,995	1,000	195	1,480	10 15	356-0076-1003
- / 80	92	1,890	1,000	205	1,550	10 15	356-0080-1003
- / 100	113	1,685	1,000	272	2,270	10 15	356-0100-1003
4 / 102	115	1,655	1,000	272	2,310	10 15	356-0102-1003

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Accessories



CLAMP 216

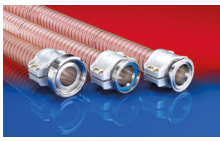


CLAMP 211



CONNECT 228

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



CONNECT SAFETY  
CLAMP ASSEMBLY  
231



CONNECT PRESS  
ASSEMBLY 232



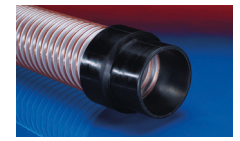
CONNECT MOULD  
ASSEMBLY 233



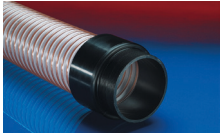
CONNECT THREAD  
FITTING 234



CONNECT 240 + 241



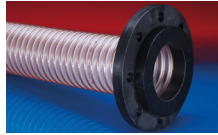
CONNECT 240 EC



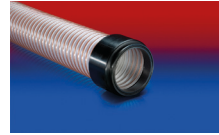
CONNECT 242



CONNECT 243



CONNECT 244

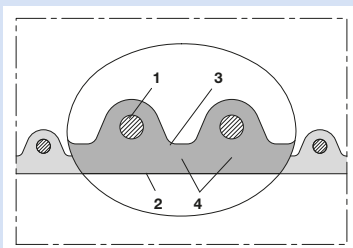


CONNECT 245



CONNECT 246

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Food hose and pharmaceutical hose, super-heavy

**Applications**

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- pelleting machines/ tablet presses
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- agricultural industry: pneumatic grain conveyer
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- paper mill, paper and pulp industry: waste water, air extraction
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of e.g. rice, dry food, cereals, sugar,

milk powder, powders, coffee, tea, grains, flour, frozen foods

**Properties**

- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- according to DIN 26057 Type 4

- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

**Temperature Range**

- -40°C to 90°C
- short time to 125°C

**Design, Material**

- AIRDUC® profile hose
1. spring steel wire firmly embedded in wall
  2. wall: special premium ether-polyurethane (Pre-PUR®)
  3. wall thickness 2,0 to 2,5 mm approx.
  4. reinforcement of the primary abrasion areas

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,25 / 32	43	4,900	1,000	90	0,680	5 10 15	356-0032-1001
1,5 / 38	49	4,190	1,000	104	0,790	5 10 15	356-0038-1001
- / 40	51	3,995	1,000	109	0,820	5 10 15	356-0040-1001
- / 50	61	3,245	1,000	134	1,000	5 10 15	356-0050-1001
2 / 51	62	3,155	1,000	134	1,020	5 10 15	356-0051-1001
2,36 / 60	71	2,735	1,000	156	1,180	5 10 15	356-0060-1001
2,5 / 63	74	2,635	1,000	163	1,230	5 10 15	356-0063-1001
- / 65	76	2,535	1,000	169	1,270	5 10 15	356-0065-1001
- / 70	82	2,360	1,000	186	1,370	5 10 15	356-0070-1001
- / 75	87	2,210	1,000	195	1,460	5 10 15	356-0075-1001
3 / 76	88	2,205	1,000	195	1,480	5 10 15	356-0076-1001
- / 80	92	2,075	1,000	205	1,550	5 10 15	356-0080-1001
- / 100	113	1,855	1,000	272	2,270	5 10 15	356-0100-1001
4 / 102	115	1,70	1,000	272	2,310	5 10 15	356-0102-1001
- / 125	138	1,495	0,835	336	2,800	5 10 15	356-0125-1001
5 / 127	140	1,370	0,825	336	2,840	5 10 15	356-0127-1001
- / 150	163	1,250	0,695	435	3,680	5 10 15	356-0150-1001
6 / 152	165	1,210	0,685	435	3,720	5 10 15	356-0152-1001

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Accessories



CLAMP 216



CLAMP 211



CONNECT 228



CONNECT SAFETY  
CLAMP ASSEMBLY  
231



CONNECT PRESS  
ASSEMBLY 232



CONNECT MOULD  
ASSEMBLY 233



CONNECT THREAD  
FITTING 234



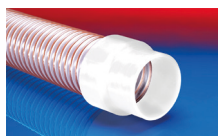
CONNECT TRI-CLAMP  
FITTING 245



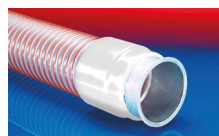
CONNECT DAIRY  
FITTING 247



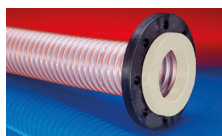
CONNECT ASEPTIC  
FITTING 249



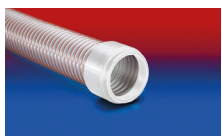
CONNECT 240 + 241  
FOOD



CONNECT 243 FOOD



CONNECT 244 FOOD

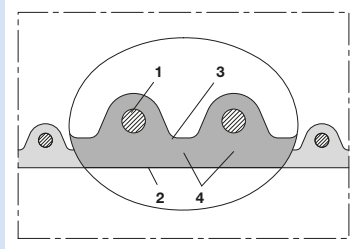


CONNECT 245 FOOD



CONNECT 246 FOOD

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



## Antistatic food hose and pharmaceutical hose, super-heavy, stainless steel (INOX)

### Applications

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- pelleting machines/ tablet presses
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- agricultural industry: pneumatic grain conveyor
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- paper mill, paper and pulp industry: waste water, air extraction
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging

### Properties

- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch

- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$  and in accordance with TRGS 727  $<2,5 * 10^8 \Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)

- according to DIN 26057 Type 4
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

### Temperature Range

- -40°C to 90°C

### Design, Material

AIRDUC® profile hose

1. spring steel wire firmly embedded in wall; spiral: stainless steel wire (INOX)
2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
3. wall thickness 2,0 to 2,5 mm approx.
4. reinforcement of the primary abrasion areas

### Delivery variants

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,25 / 32	43	5,180	1,000	90	0,680	5 10	356-0032-1018
1,5 / 38	49	4,425	1,000	104	0,790	5 10	356-0038-1018
- / 40	51	4,225	1,000	109	0,820	5 10	356-0040-1018
- / 50	61	3,430	1,000	134	1,000	5 10	356-0050-1018
2 / 51	62	3,155	1,000	134	1,020	5 10	356-0051-1018
2,36 / 60	71	2,890	1,000	156	1,180	5 10	356-0060-1018
2,5 / 63-65	74	2,780	1,000	163	1,230	5 10	356-0063-1018
- / 65	76	2,675	1,000	169	1,270	5 10	356-0065-1018
- / 70	82	2,495	1,000	186	1,370	5 10	356-0070-1018
- / 75	87	2,335	1,000	195	1,460	5 10	356-0075-1018
3 / 76	88	2,330	1,000	195	1,480	5 10	356-0076-1018
- / 80	92	2,195	1,000	205	1,550	5 10	356-0080-1018
3,5 / 89-90	101	2,170	1,000	250	1,700	5 10	356-0089-1018
- / 90	103	2,170	1,000	250	2,060	5 10	356-0090-1018
- / 100	113	1,960	1,000	272	2,270	5 10	356-0100-1018
4 / 102	115	1,890	1,000	272	2,310	5 10	356-0102-1018
- / 125	138	1,580	0,880	336	2,800	5 10	356-0125-1018
5 / 127	140	1,450	0,870	336	2,850	5 10	356-0127-1018
- / 150	163	1,320	0,735	435	3,680	5 10	356-0150-1018
6 / 152	165	1,375	0,725	435	3,730	5 10	356-0152-1018

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Accessories



CLAMP 216



CLAMP 211



CONNECT 228



CONNECT SAFETY  
CLAMP ASSEMBLY  
231



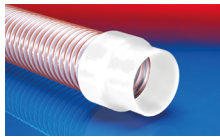
CONNECT PRESS  
ASSEMBLY 232



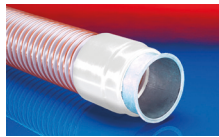
CONNECT MOULD  
ASSEMBLY 233



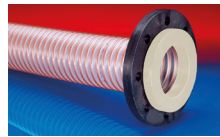
CONNECT THREAD  
FITTING 234



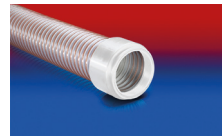
CONNECT 240 + 241  
FOOD



CONNECT 243 FOOD



CONNECT 244 FOOD

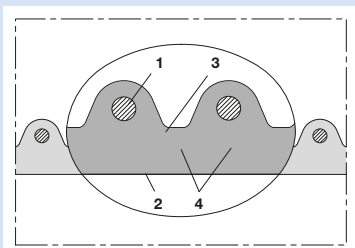
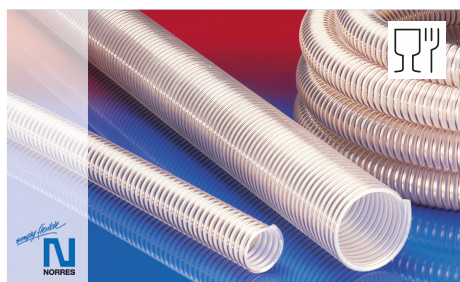


CONNECT 245 FOOD



CONNECT 246 FOOD

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



Food hose and pharmaceutical hose, super-heavy and reinforced

## Applications

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of wood pellets, plastic granulate, plastic powder
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of e.g. rice, dry food, cereals, sugar,

milk powder, powders, coffee, tea, grains, flour, frozen foods

## Properties

- super-heavy duty and reinforced
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- manufacturing process acc. GMP EC 2023/2006

- conforms to RoHS guideline

## Temperature Range

- -40°C to 90°C
- short time to 125°C

## Design, Material

AIRDUC® profile hose

1. spring steel wire firmly embedded in wall
2. wall: special premium ether-polyurethane (Pre-PUR®)
3. wall thickness 3,0 to 3,5 mm approx.
4. reinforcement of the primary abrasion areas

## Delivery variants

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
- / 50	67	4,065	1,000	189	1,490	10	356-0050-5100
2 / 51	68	3,850	1,000	192	1,500	10	356-0051-5100
2,36 / 60	77	3,455	1,000	216	1,760	10	356-0060-5100
2,5 / 63-65	80	3,330	1,000	224	1,810	10	356-0063-5100
- / 65	82	3,210	1,000	230	1,890	10	356-0065-5100
- / 75	92	2,815	1,000	257	2,040	10	356-0075-5100
3 / 76	87	2,800	1,000	259	2,080	10	356-0076-5100
- / 80	97	2,655	1,000	270	2,300	10	356-0080-5100
3,5 / 89-90	106	2,380	1,000	295	2,840	10	356-0089-5100
- / 90	107	2,380	1,000	297	2,900	10	356-0090-5100
- / 100	117	2,155	1,000	324	3,200	10	356-0100-5100
4 / 102	119	2,005	1,000	330	3,260	10	356-0102-5100
4,5 / 114-115	132	1,890	0,920	365	3,640	10	356-0115-5100
- / 125	142	1,745	0,845	392	3,950	10	356-0125-5100
5 / 127	144	1,715	0,840	398	4,010	10	356-0127-5100
- / 150	167	1,465	0,760	460	5,050	10	356-0150-5100
6 / 152	169	1,355	0,750	465	5,110	10	356-0152-5100

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



## Accessories



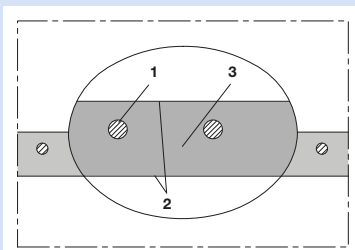
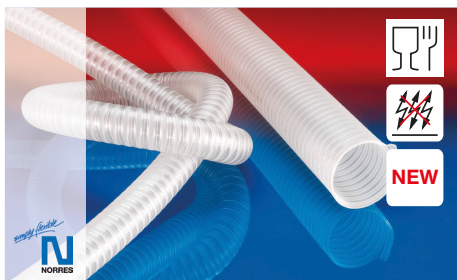
CLAMP 211



CONNECT 230

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.





Antistatic food hose and pharmaceutical hose, super-heavy and reinforced, smooth interior and exterior, stainless steel (INOX)

**Applications**

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- pelleting machines/ tablet presses
- explosion hazard area
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of e.g. rice, dry food, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods

**Properties**

- super-heavy duty

- highly abrasion resistant
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odourless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$  and in accordance with TRGS 727  $<2,5 * 10^8 \Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for con-

- veying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

**Temperature Range**

- -40°C to 90°C

**Design, Material**

BARDUC® design

1. spring steel wire spiral embedded in wall; spiral: stainless steel wire (INOX)
2. smooth interior and exterior; wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
3. wall thickness 4 to 6 mm approx., depending on diameter

**Delivery variants**

- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,25 / 32	40	5,500	1,000	144	0,450	10	382-0032-1014
1,5 / 38	46	5,500	1,000	171	0,590	10	382-0038-1014
- / 40	48	5,500	1,000	180	0,650	10 15	382-0040-1014
2 / 50-51	58	5,000	1,000	225	0,960	10 15	382-0050-1014
2,36 / 60	68	5,000	1,000	270	1,120	10 15	382-0060-1014
2,5 / 63-65	73	5,000	1,000	293	1,210	10 15	382-0065-1014
- / 70	78	5,000	1,000	315	1,290	10 15	382-0070-1014
3 / 75-76	83	5,000	1,000	338	1,380	10 15	382-0075-1014
- / 80	88	4,000	0,900	360	1,460	10	382-0080-1014
4 / 100-102	110	4,000	0,800	500	1,800	10	382-0100-1014

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

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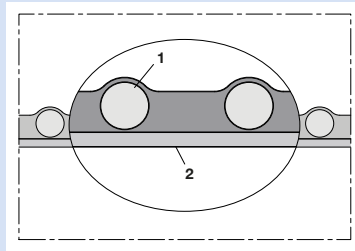
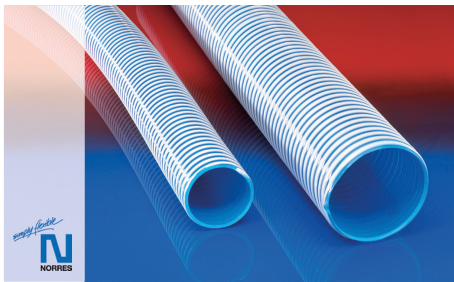


Accessories



CLAMP 211

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Polyurethane hose, super-heavy

**Applications**

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- suction vehicles: roof gravelling, roof gravel conveying
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of wood pellets, plastic granulate, plastic powder

**Properties**

- external abrasion protection via external helix (saves floor space, prolong service life, easy to use)
- super-heavy duty
- extremely abrasion resistant
- very high pressure, vacuum and compression resistance
- good resistance to chemicals
- very good low temperature flexibility
- conforms to RoHS guideline

**Temperature Range**

- -20°C to 70°C
- short time to 80°C

**Design, Material**

NORPLAST® full plastic hose

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

**Delivery variants**

- further diameters and lengths available on request
- blue inner tube + transparent exterior wall (standard)
- special colours: coloured spiral, full coloured
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
<b>standard type, inliner blue</b>							
3 / 75-76	90	6,000	0,900	512,0	2,200	13,5 30	387-0076-0000
3,5 / 89-90	105	5,500	0,900	595,0	2,600	13,5 30	387-0090-0000
4 / 100-102	118	4,000	0,900	799,0	3,300	13,5 30	387-0102-0000
5 / 125-127	145	3,000	0,900	1036,5	4,200	13,5 30	387-0127-0000
6 / 150-152	173	3,000	0,900	1324,0	6,400	13,5 20	387-0152-0000
<b>flexible type, inliner yellow</b>							
5 / 125-127	145	3,000	0,900	1036,5	4,200	13,5 30	387-0127-6007
<b>smooth exterior type, inliner red</b>							
5 / 125-127	145	3,000	0,900	1036,5	4,200	13,5 30	387-0127-6008

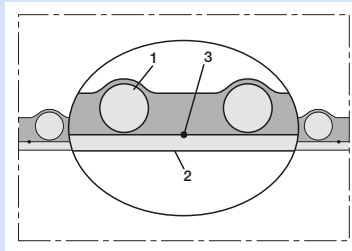
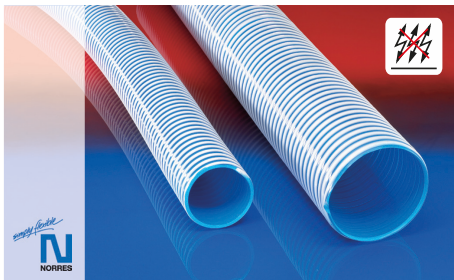
Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data. Additional technical data at [www.norres.com/en/technology/](http://www.norres.com/en/technology/)

Accessories



CLAMP 211

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Antistatic polyurethane hose, super-heavy, grounding wire

**Applications**

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- explosion hazard area
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of wood pellets, plastic granulate, plastic powder

**Properties**

- external abrasion protection via external helix (saves floor space, prolong service life, easy to use)
- extremely abrasion resistant

- very high pressure, vacuum and compression resistance
- good resistance to chemicals
- very good low temperature flexibility
- grounding wire for discharging of electrostatic charging
- electrical and surface resistance of the inliner <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- conforms to RoHS guideline

**Temperature Range**

- -20°C to 70°C

- short time to 80°C

**Design, Material**

NORPLAST® full plastic hose

1. hard plastic spiral integrated in wall; spiral: rigid PVC
2. smooth interior; Wall: antistatic polyurethane inside layer 2,0 mm approx., exterior soft PVC
3. grounding wire

**Delivery variants**

- further diameters and lengths available on request
- blue inner tube + transparent exterior wall (standard)
- special colours: coloured spiral, full coloured
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
3 / 75-76	92	6,0	0,9	512,0	2,200	13,5 30	387-0076-2878
3,5 / 89-90	107	5,5	0,9	595,0	2,600	13,5 30	387-0090-2878
4 / 100-102	120	4,0	0,9	799,0	3,300	13,5 30	387-0102-2878
5 / 125-127	147	3,0	0,9	1036,5	4,200	13,5 30	387-0127-2878
6 / 150-152	175	3,0	0,9	1324,0	6,400	13,5 20	387-0152-2878

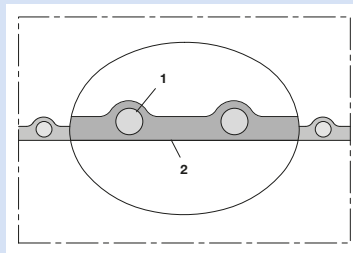
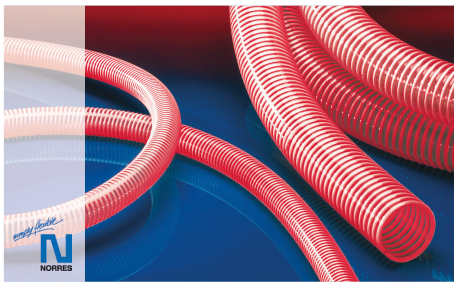
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Accessories



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PVC hose, food hose and pharmaceutical hose, heavy

**Applications**

- hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- food industry, pharmaceutical industry: foodstuff, pharmaceutical
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of e.g. rice, dry food, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods

**Properties**

- heavy duty
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004
- good resistance to alkalis and acids
- good resistance to chemicals
- phthalate-free
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

**Temperature Range**

- -5°C to 70°C
- short time to 80°C

**Design, Material**

NORPLAST® full plastic hose

1. hard plastic spiral integrated in wall; spiral: rigid PVC
2. smooth interior and exterior; wall: high grade soft PVC

**Delivery variants**

- further diameters and lengths available on request
- transparent + partially red coloured (standard)
- special colours: coloured spiral, full coloured
- customer-specific branding

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Further Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
- / 20	26	5,000	0,700	105,8	0,250	25 50	384-0020-1001
1 / 25	31	5,000	0,700	128,8	0,300	25 50	384-0025-1001
- / 30	36	5,000	0,700	151,8	0,360	25 50	384-0030-1001
1,25 / 32	39	5,000	0,700	163,3	0,390	25 50	384-0032-1001
1,36 / 35	42	5,000	0,700	177,1	0,440	25 50	384-0035-1001
1,5 / 38	45	5,000	0,700	190,9	0,520	25 50	384-0038-1001
- / 40	48	5,000	0,700	202,4	0,550	25 50	384-0040-1001
1,75 / 44-45	53	5,000	0,700	225,4	0,670	25 50	384-0045-1001
2 / 50-51	60	5,000	0,700	253,0	0,800	25 50	384-0051-1001
2,36 / 60	69	5,000	0,700	296,7	0,970	25 50	384-0060-1001
2,5 / 63-65	72	5,000	0,700	310,5	1,040	25 50	384-0063-1001
- / 70	80	5,000	0,700	345,0	1,200	25 50	384-0070-1001
3 / 75-76	86	5,000	0,700	349,6	1,380	25 50	384-0076-1001
- / 80	91	4,000	0,700	393,3	1,550	25 50	384-0080-1001
3,5 / 89-90	102	4,000	0,700	441,6	1,850	25 50	384-0090-1001
4 / 100-102	114	4,000	0,700	496,8	2,200	25 50	384-0102-1001
- / 110	123	4,000	0,700	535,9	2,550	30	384-0110-1001
4,72 / 120	133	3,000	0,550	581,9	2,800	30	384-0120-1001
5 / 125-127	138	3,000	0,550	604,9	3,000	30	384-0125-1001
6 / 150-152	165	3,000	0,500	719,9	4,300	20	384-0150-1001

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Accessories



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CONNECT 270-271

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