



# NORRES INDUSTRIAL HOSES INDUSTRIAL VACUUM CLEANERS



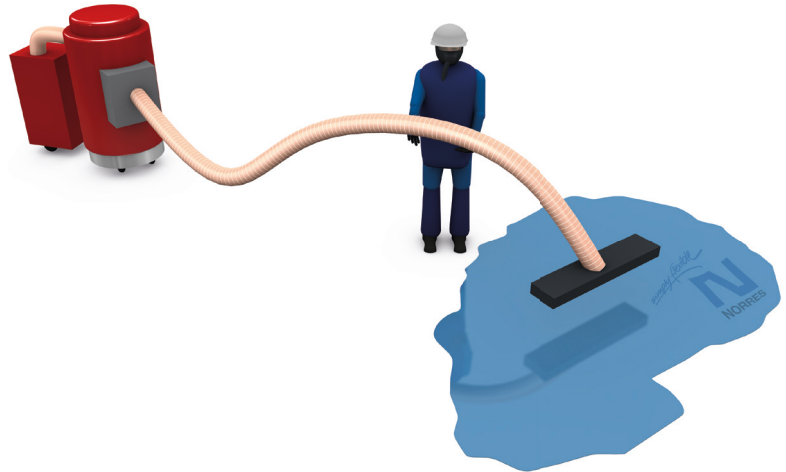
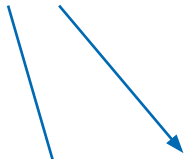
Industrial vacuum cleaners, vacuum cleaners

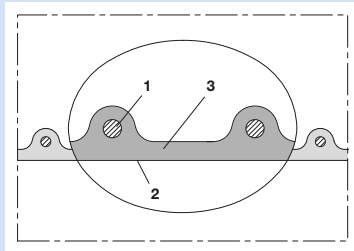
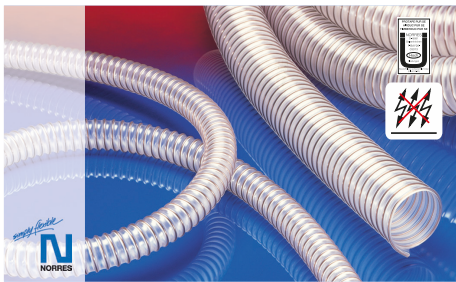
Recommended by NORRES customers:

AIRDUC® PUR 355 AS  
AIRDUC® PUR 355 EC

Proven Alternatives:

AIRDUC® PUR-INOX 351 FOOD-AS  
AIRDUC® PUR-INOX 355 FOOD-AS  
AIRDUC® PUR 356 AS  
SuperFlex 372  
EVA 373  
EVA 373 AS  
EVA 373 EC





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

**Applications**

- flexible hose/ ducting for high throughput of abrasive powder, bulk material, granulate and for gases
- 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
- printed circuit board drilling machine (PCB)
- powder spraying, powder coating: e.g. printing industry
- offset printing machine: air supply, air supply cabinet
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- agricultural industry, conveying of seed and fertilizers: seeding machine, seed drill, drilling machine
- agricultural industry: pneumatic grain conveyor
- construction industry, road milling 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
- municipal vehicle: sweeper, sweeping machine
- municipal vehicle: lawn mower, slope mower, leaf blower/ leaf collector
- vacuum lifting equipment, vacuum handling system

**Properties**

- heavy duty
- highly abrasion resistant
- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-V2
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$  and in accordance with TRGS 727  $<2,5 * 10^6 \Omega$
- 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)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 3
- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C
- short time to 125°C

**Design, Material**

- AIRDUC® profile hose
- spring steel wire firmly embedded in wall
  - wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
  - wall thickness 1,4 - 1,5 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) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Dimensions in Stock m	Order No.
in / mm	mm						
- / 13	20	5,000 (11,3)	1,000 (1,00)	14	0,140	5 10 15	355-0013-0000
5/8 / 16	23	4,900 (9,35)	1,000 (1,00)	15	0,160	5 10 15	355-0016-0000
- / 18	25	4,405 (8,38)	1,000 (1,00)	16	0,170	5 10 15	355-0018-0000
- / 20	27	4,720 (9,00)	1,000 (1,00)	17	0,230	5 10 15 20	355-0020-0000
- / 22	29	4,330 (8,24)	1,000 (1,00)	18	0,250	5 10 15	355-0022-0000
1 / 25	32	3,855 (7,31)	1,000 (1,00)	20	0,280	5 10 15 20	355-0025-0000
- / 30	40	4,000 (7,59)	1,000 (1,00)	25	0,420	5 10 15	355-0030-0000
1,25 / 32	42	3,770 (7,15)	1,000 (1,00)	26	0,440	5 10 15 20	355-0032-0000
1,36 / 35	45	3,470 (6,56)	1,000 (1,00)	28	0,480	5 10 15	355-0035-0000
1,5 / 38	48	3,215 (6,07)	1,000 (1,00)	29	0,520	5 10 15 20	355-0038-0000
- / 40	50	3,065 (5,78)	1,000 (1,00)	30	0,540	5 10 15 20	355-0040-0000
- / 42	52	2,905 (5,53)	0,910 (1,00)	31	0,560	5 10 15	355-0042-0000
1,75 / 44-45	55	2,745 (5,16)	0,915 (1,00)	33	0,600	5 10 15	355-0045-0000
2 / 50-51	60	2,485 (4,67)	0,825 (1,00)	35	0,660	5 10 15 20 25	355-0050-0000
- / 55	65	2,270 (4,26)	0,750 (1,00)	38	0,720	5 10 15	355-0055-0000
2,36 / 60	70	2,090 (3,91)	0,685 (1,00)	40	0,780	5 10 15 20	355-0060-0000
2,5 / 63-65	75	1,935 (3,62)	0,635 (1,00)	43	0,840	5 10 15 20	355-0065-0000

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	Weight	Dimensions in Stock	Order No.
in / mm	mm			mm	kg/m	m	
- / 70	81	1,800 (3,37)	0,540 (1,00)	62	0,980	5 10 15	355-0070-0000
3 / 75-76	86	1,685 (3,15)	0,505 (1,00)	66	1,050	5 10 15	355-0075-0000
- / 80	91	1,585 (2,96)	0,475 (1,00)	69	1,110	5 10 15	355-0080-0000
3,5 / 89-90	101	1,415 (2,63)	0,420 (0,88)	76	1,250	5 10 15	355-0090-0000
4 / 100-102	111	1,275 (2,38)	0,390 (0,93)	83	1,490	5 10 15	355-0100-0000
- / 110	121	1,160 (2,16)	0,355 (0,77)	90	1,630	5 10 15	355-0110-0000
4,5 / 114-115	126	1,115 (2,07)	0,340 (0,71)	94	1,680	5 10 15	355-0115-0000
4,72 / 120	131	1,070 (1,99)	0,325 (0,65)	97	1,770	5 10 15	355-0120-0000
5 / 125-127	136	1,025 (1,91)	0,315 (0,60)	101	1,840	5 10 15	355-0125-0000
- / 130	141	0,985 (1,84)	0,300 (0,56)	104	1,910	5 10 15	355-0130-0000
5,5 / 140	151	0,920 (1,71)	0,280 (0,48)	111	2,030	5 10 15	355-0140-0000
6 / 150-152	161	0,860 (1,59)	0,270 (0,53)	118	2,410	5 10 15	355-0150-0000
6,3 / 160	171	0,805 (1,50)	0,255 (0,47)	125	2,560	5 10 15	355-0160-0000
- / 170	181	0,760 (1,41)	0,240 (0,41)	132	2,720	5 10 15	355-0170-0000
- / 175	186	0,735 (1,37)	0,230 (0,39)	136	2,790	5 10 15	355-0175-0000
7 / 178-180	191	0,715 (1,33)	0,225 (0,37)	139	2,870	5 10 15	355-0180-0000
8 / 200-203	213	0,645 (1,20)	0,150 (0,36)	156	3,120	5 10 15	355-0200-0000
- / 225	238	0,575 (1,07)	0,130 (0,28)	174	3,500	5 10	355-0225-0000
- / 250	263	0,520 (0,96)	0,120 (0,22)	191	3,880	5 10 15	355-0250-0000
10 / 254	267	0,510 (0,95)	0,115 (0,21)	194	3,950	5 10 15	355-0254-0000
- / 275	288	0,470 (0,87)	0,110 (0,18)	209	4,255	5 10	355-0275-0000
11 / 280	293	0,465 (0,86)	0,105 (0,17)	212	4,330	5 10	355-0280-0000
- / 300	313	0,435 (0,80)	0,090 (0,20)	226	5,160	5 10	355-0300-0000
12 / 305	318	0,425 (0,79)	0,090 (0,19)	230	5,245	5 10	355-0305-0000
- / 315	328	0,410 (0,76)	0,085 (0,17)	237	5,410	5 10	355-0315-0000
- / 325	338	0,400 (0,74)	0,085 (0,16)	244	5,580	5 10	355-0325-0000
13 / 330	343	0,395 (0,73)	0,080 (0,15)	247	5,670	5 10	355-0330-0000
- / 350	363	0,370 (0,69)	0,075 (0,13)	261	6,000	5 10	355-0350-0000
- / 400	413	0,325 (0,60)	0,070 (0,12)	296	8,020	5 10	355-0400-0000
- / 450	463	0,290 (0,54)	0,065 (0,09)	331	9,000	5 10	355-0450-0000
- / 500	514	0,260 (0,48)	0,055 (0,07)	367	10,000	5 10	355-0500-0000

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 216

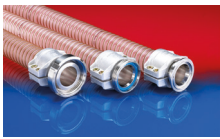
CLAMP 212 EC

CLAMP 217

CLAMP 213

CONNECT 228

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CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT PRESS ASSEMBLY 232



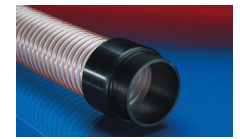
CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



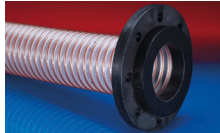
CONNECT 240 + 241



CONNECT 242



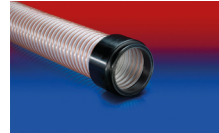
CONNECT 243



CONNECT 244



CONNECT 245 VAC-TRUCK



CONNECT 245



CONNECT 246

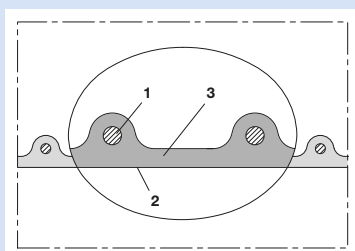
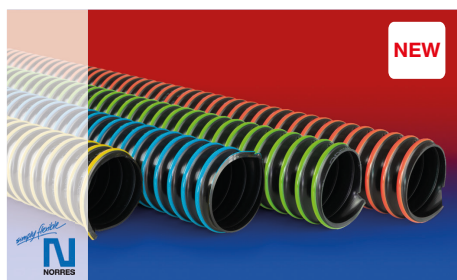


CONNECT 223



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, heavy, microbe resistant

## Applications

- flexible hose/ ducting for high throughput of abrasive powder, bulk material, granulate and for gases
- 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
- printed circuit board drilling machine (PCB)
- powder spraying, powder coating: e.g. printing industry
- offset printing machine: air supply, air supply cabinet
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- agricultural industry, conveying of seed and fertilizers: seeding machine, seed drill, drilling machine
- agricultural industry: pneumatic grain conveyer
- construction industry, road milling 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
- municipal vehicle: sweeper, sweeping machine
- municipal vehicle: lawn mower, slope mower, leaf blower/ leaf collector
- vacuum lifting equipment, vacuum handling system

## Properties

- heavy duty
- highly abrasion resistant
- increased pressure and vacuum 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  $<2,5 * 10^8 \Omega$
- 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 3
- conforms to RoHS guideline

## Temperature Range

- 40°C to 90°C
- short time to 125°C

## Design, Material

AIRDUC® profile hose

- spring steel wire firmly embedded in wall
- wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- wall thickness 1,4 - 1,5 mm approx.

## Delivery variants

- further diameters and lengths available on request
- customer-specific branding
- Available in 5m, 10m and 15m lengths
- Wall black and colored helix: blue, green, red, yellow (standard)
- further colors on request

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	Minimum Quantity m	Order No.
<b>black + green</b>							
1,25 / 32	42	3,770 (7,15)	1,000 (1,00)	26	0,440	150	355-0032-0997
1,5 / 38	48	3,215 (6,07)	1,000 (1,00)	29	0,520	150	355-0038-0997
- / 40	50	3,065 (5,78)	1,000 (1,00)	30	0,540	150	355-0040-0997
2 / 50-51	60	2,485 (4,67)	0,825 (1,00)	35	0,660	150	355-0050-0997
2,36 / 60	70	2,090 (3,91)	0,685 (1,00)	40	0,780	150	355-0060-0997
2,5 / 63-65	75	1,935 (3,62)	0,635 (1,00)	43	0,840	150	355-0065-0997
- / 70	81	1,800 (3,37)	0,540 (1,00)	62	0,980	150	355-0070-0997
3 / 75-76	86	1,685 (3,15)	0,505 (1,00)	66	1,050	100	355-0075-0997
- / 80	91	1,585 (2,96)	0,475 (1,00)	69	1,110	100	355-0080-0997
- / 85	96	1,545 (2,85)	0,465 (0,95)	73	1,205	100	355-0085-0997
4 / 100-102	111	1,275 (2,38)	0,390 (0,93)	83	1,490	100	355-0100-0997
5 / 125-127	136	1,025 (1,91)	0,315 (0,60)	101	1,840	100	355-0125-0997
5,5 / 140	151	0,920 (1,71)	0,280 (0,48)	111	2,030	80	355-0140-0997
6 / 150-152	161	0,860 (1,59)	0,270 (0,53)	118	2,410	80	355-0150-0997
6,3 / 160	171	0,805 (1,50)	0,255 (0,47)	125	2,560	80	355-0160-0997
8 / 200-203	213	0,645 (1,20)	0,150 (0,36)	156	3,120	60	355-0200-0997

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.



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in / mm	mm						
<b>black + yellow</b>							
1,25 / 32	42	3,770 (7,15)	1,000 (1,00)	26	0,440	150	355-0032-0998
1,5 / 38	48	3,215 (6,07)	1,000 (1,00)	29	0,520	150	355-0038-0998
- / 40	50	3,065 (5,78)	1,000 (1,00)	30	0,540	150	355-0040-0998
2 / 50-51	60	2,485 (4,67)	0,825 (1,00)	35	0,660	150	355-0050-0998
2,36 / 60	70	2,090 (3,91)	0,685 (1,00)	40	0,780	150	355-0060-0998
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5 / 125-127	136	1,025 (1,91)	0,315 (0,60)	101	1,840	100	355-0125-0998
5,5 / 140	151	0,920 (1,71)	0,280 (0,48)	111	2,030	80	355-0140-0998
6 / 150-152	161	0,860 (1,59)	0,270 (0,53)	118	2,410	80	355-0150-0998
6,3 / 160	171	0,805 (1,50)	0,255 (0,47)	125	2,560	80	355-0160-0998
8 / 200-203	213	0,645 (1,20)	0,150 (0,36)	156	3,120	60	355-0200-0998
<b>black + red</b>							
1,25 / 32	42	3,770 (7,15)	1,000 (1,00)	26	0,440	150	355-0032-0999
1,5 / 38	48	3,215 (6,07)	1,000 (1,00)	29	0,520	150	355-0038-0999
- / 40	50	3,065 (5,78)	1,000 (1,00)	30	0,540	150	355-0040-0999
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6 / 150-152	161	0,860 (1,59)	0,270 (0,53)	118	2,410	80	355-0150-0999
6,3 / 160	171	0,805 (1,50)	0,255 (0,47)	125	2,560	80	355-0160-0999
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<b>black + blue</b>							
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1,5 / 38	48	3,215 (6,07)	1,000 (1,00)	29	0,520	150	355-0038-0996
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in / mm	mm			mm	kg/m	m	
6,3 / 160	171	0,805 (1,50)	0,255 (0,47)	125	2,560	80	355-0160-0996
8 / 200-203	213	0,645 (1,20)	0,150 (0,36)	156	3,120	60	355-0200-0996

Accessories



CLAMP 212



CLAMP 216



CLAMP 212 EC



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT SAFETY  
CLAMP ASSEMBLY  
231



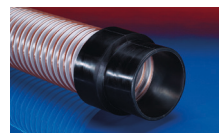
CONNECT PRESS  
ASSEMBLY 232



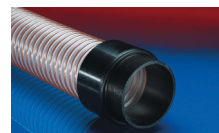
CONNECT MOULD  
ASSEMBLY 233



CONNECT THREAD  
FITTING 234



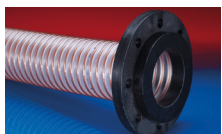
CONNECT 240 + 241



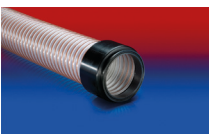
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 245 VAC-  
TRUCK



CONNECT 246



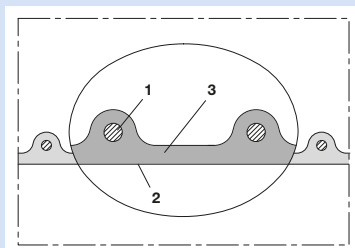
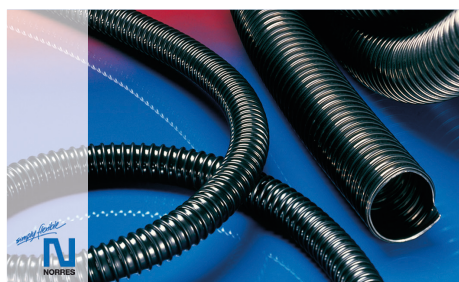
CONNECT 223



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, heavy

**Applications**

- flexible hose/ ducting for high throughput of abrasive powder, bulk material, granulate and for gases
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- Coal mine, mine, tunnelling: ventilation, methane extraction
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings

**Properties**

- heavy duty
- highly abrasion resistant
- increased pressure and vacuum 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 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 3
- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C

**Design, Material**

AIRDUC® profile hose

- spring steel wire firmly embedded in wall
- wall: electrically conductive premium ester-polyurethane (Pre-PUR®)
- wall thickness 1,4 - 1,5 mm approx.

**Delivery variants**

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

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 / 25	32	2,930 (4,74)	0,950 (1,00)	20	0,280	10 15	355-0025-1003
- / 30	40	2,470 (3,99)	0,650 (1,00)	25	0,470	10 15	355-0030-1003
1,25 / 32	42	2,325 (3,75)	0,610 (1,00)	26	0,470	10 15	355-0032-1003
1,5 / 38	48	1,975 (3,19)	0,515 (1,00)	29	0,550	10 15	355-0038-1003
- / 40	50	1,880 (3,03)	0,490 (1,00)	30	0,570	10 15	355-0040-1003
2 / 50-51	60	1,515 (2,45)	0,390 (1,00)	35	0,710	10 15 20	355-0050-1003
- / 55	65	1,385 (2,23)	0,355 (1,00)	38	0,770	10 15	355-0055-1003
2,36 / 60	70	1,270 (2,05)	0,325 (1,00)	40	0,830	10 15 20	355-0060-1003
2,5 / 63-65	75	1,175 (1,90)	0,300 (1,00)	43	0,890	10 15	355-0065-1003
- / 70	81	1,515 (2,45)	0,250 (1,00)	62	1,010	10 15	355-0070-1003
3 / 75-76	86	1,420 (2,29)	0,235 (1,00)	66	1,070	10 15	355-0075-1003
- / 80	91	1,335 (2,15)	0,220 (1,00)	69	1,140	10 15	355-0080-1003
3,5 / 89-90	101	1,190 (1,92)	0,195 (1,00)	76	1,270	10 15	355-0090-1003
4 / 100	111	1,075 (1,73)	0,175 (0,94)	83	1,410	10 15	355-0100-1003
- / 110	121	0,980 (1,58)	0,160 (0,77)	90	1,540	10 15	355-0110-1003
4,5 / 114-115	126	0,935 (1,51)	0,155 (0,70)	94	1,610	10 15	355-0115-1003
5 / 125-127	136	0,865 (1,39)	0,140 (0,59)	101	1,740	10 15	355-0125-1003
6 / 150-152	161	0,720 (1,16)	0,130 (0,55)	118	2,290	10 15	355-0150-1003
8 / 200	212	0,505 (0,81)	0,085 (0,38)	155	2,850	10	355-0200-1003
- / 300	313	0,340 (0,54)	0,075 (0,27)	226	4,320	10	355-0300-1003
- / 315	328	0,320 (0,52)	0,070 (0,25)	237	4,640	10	355-0315-1003

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/)

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 216



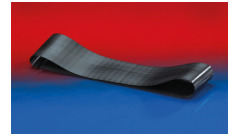
CLAMP 212 EC



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT SAFETY  
CLAMP ASSEMBLY  
231



CONNECT PRESS  
ASSEMBLY 232



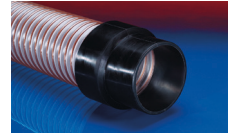
CONNECT MOULD  
ASSEMBLY 233



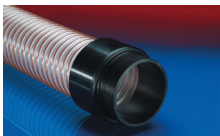
CONNECT THREAD  
FITTING 234



CONNECT 240 + 241



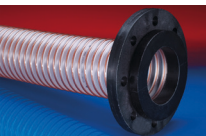
CONNECT 240 EC



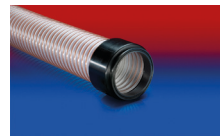
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246

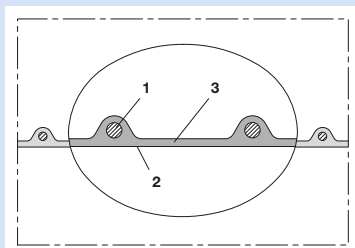
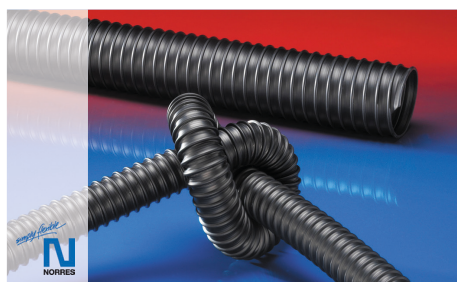


CONNECT 223



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, medium-heavy

**Applications**

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- Coal mine, mine, tunnelling: ventilation, methane extraction

**Properties**

- highly abrasion resistant
- 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 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 2
- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C

**Design, Material**

- AIRDUC® profile hose
- spring steel wire firmly embedded in wall
  - wall: electrically conductive premium ester-polyurethane (Pre-PUR®)
  - wall thickness 0,7 mm approx.

**Delivery variants**

- further diameters and lengths available on request
- black (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 / 25	32	2,445 (4,06)	0,460 (1,00)	23	0,200	10	351-0025-1003
- / 30	38	1,945 (3,22)	0,440 (1,00)	26	0,260	10	351-0030-1003
1,25 / 32	40	1,830 (3,03)	0,430 (1,00)	27	0,280	10	351-0032-1003
1,5 / 38	46	1,550 (2,56)	0,400 (1,00)	31	0,320	10	351-0038-1003
- / 40	48	1,475 (2,44)	0,390 (1,00)	32	0,340	10	351-0040-1003
1,75 / 44-45	53	1,315 (2,18)	0,360 (1,00)	35	0,380	10	351-0045-1003
2 / 50-51	58	1,190 (1,96)	0,340 (1,00)	38	0,410	10	351-0050-1003
2,36 / 60	68	0,995 (1,64)	0,265 (0,84)	44	0,490	10	351-0060-1003
2,5 / 63-65	73	0,920 (1,52)	0,235 (0,71)	47	0,530	10	351-0065-1003
- / 70	79	0,855 (1,41)	0,195 (0,84)	50	0,570	10	351-0070-1003
3 / 75-76	84	0,800 (1,32)	0,180 (0,73)	53	0,610	10	351-0075-1003
- / 80	89	0,750 (1,24)	0,165 (0,64)	56	0,650	10	351-0080-1003
3,5 / 89-90	99	0,670 (1,10)	0,145 (0,51)	62	0,730	10	351-0090-1003
4 / 100-102	109	0,605 (1,00)	0,115 (0,41)	68	0,790	10	351-0100-1003
- / 110	119	0,550 (0,91)	0,100 (0,34)	74	0,870	10	351-0110-1003
4,72 / 120	129	0,505 (0,83)	0,085 (0,28)	80	0,940	10	351-0120-1003
5 / 125-127	134	0,485 (0,80)	0,075 (0,26)	83	0,980	10	351-0125-1003
5,5 / 140	149	0,430 (0,71)	0,075 (0,21)	92	1,090	10	351-0140-1003
6 / 150-152	159	0,405 (0,67)	0,070 (0,37)	98	1,330	10	351-0150-1003
6,3 / 160	169	0,380 (0,63)	0,060 (0,32)	104	1,410	10	351-0160-1003
7 / 178-180	189	0,335 (0,56)	0,050 (0,24)	116	1,590	10	351-0180-1003
8 / 200-203	209	0,305 (0,50)	0,050 (0,19)	128	1,760	10	351-0200-1003
- / 250	259	0,245 (0,40)	0,020 (0,11)	158	2,430	10	351-0250-1003

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/)

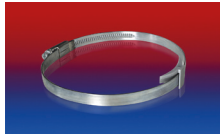
Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications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



Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



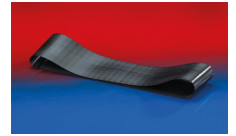
CLAMP 212 EC



CLAMP 217



CLAMP 213



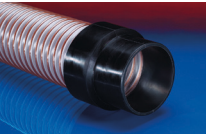
CONNECT 228



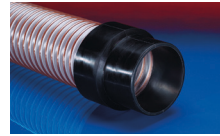
CONNECT MOULD ASSEMBLY 233



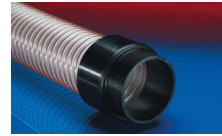
CONNECT THREAD FITTING 234



CONNECT 240 + 241



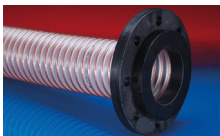
CONNECT 240 EC



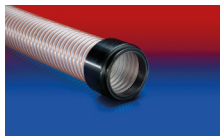
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246

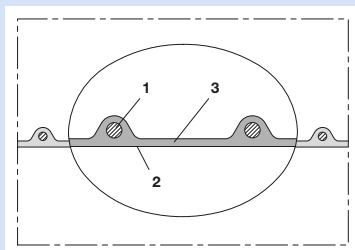
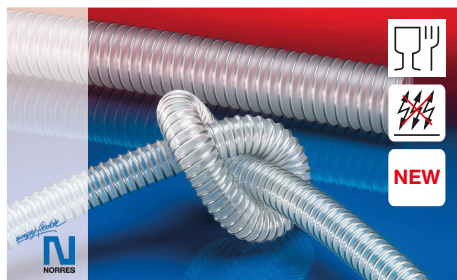


CONNECT 223



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, medium-heavy and reinforced, stainless steel (INOX)

## Applications

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- 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
- explosion hazard area

## Properties

- medium-heavy duty
- highly 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  $<10^9 \Omega$  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)
- manufacturing process acc. GMP EC 2023/2006

- conforms to RoHS guideline

## Temperature Range

- 40°C to 90°C

## Design, Material

AIRDUC® profile hose

- spring steel wire firmly embedded in wall; spiral: stainless steel wire (INOX)
- wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- wall thickness 1,0 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)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1 / 25	33	2,640 (4,49)	0,680 (1,00)	22	0,220	5 10	351-0025-1018
1,25 / 32	40	2,090 (3,56)	0,440 (1,00)	28	0,280	5 10	351-0032-1018
1,5 / 38	46	1,775 (3,02)	0,370 (1,00)	32	0,320	5 10	351-0038-1018
- / 40	48	1,690 (2,87)	0,355 (1,00)	33	0,340	5 10	351-0040-1018
2 / 50-51	58	1,365 (2,32)	0,285 (1,00)	39	0,410	5 10	351-0050-1018
2,36 / 60	68	1,145 (1,94)	0,235 (0,82)	45	0,490	5 10	351-0060-1018
2,5 / 63-65	73	1,055 (1,79)	0,220 (0,70)	48	0,590	5 10	351-0065-1018
- / 70	79	0,985 (1,67)	0,145 (0,83)	52	0,590	5 10	351-0070-1018
3 / 75-76	84	0,920 (1,56)	0,135 (0,72)	55	0,640	5 10	351-0075-1018
- / 80	89	0,865 (1,46)	0,125 (0,64)	58	0,680	5 10	351-0080-1018
3,5 / 89-90	99	0,770 (1,30)	0,110 (0,50)	64	0,750	5 10	351-0090-1018
4 / 100-102	109	0,695 (1,18)	0,105 (0,66)	70	0,970	5 10	351-0100-1018
- / 110	119	0,630 (1,07)	0,095 (0,54)	76	1,060	5 10	351-0110-1018
5 / 125-127	134	0,555 (0,94)	0,085 (0,42)	85	1,200	5 10	351-0125-1018
5,5 / 140	149	0,500 (0,84)	0,075 (0,33)	94	1,340	5 10	351-0140-1018
6 / 150-152	159	0,465 (0,79)	0,075 (0,37)	100	1,520	5 10	351-0150-1018
6,3 / 160	169	0,435 (0,74)	0,070 (0,32)	106	1,610	5 10	351-0160-1018
7 / 178-180	189	0,390 (0,66)	0,060 (0,25)	118	1,810	5 10	351-0180-1018
8 / 200-203	209	0,350 (0,59)	0,055 (0,2,0)	133	2,030	5 10	351-0200-1018
- / 225	234	0,310 (0,53)	0,040 (0,14)	145	2,160	5 10	351-0225-1018

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/)

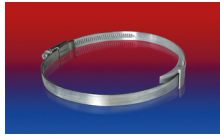
Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications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



Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



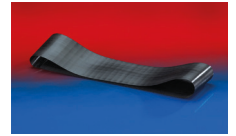
CLAMP 212 EC



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



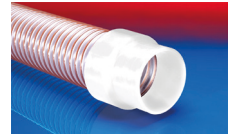
CONNECT TRI-CLAMP FITTING 245



CONNECT DAIRY FITTING 247



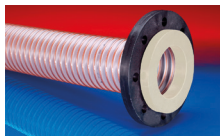
CONNECT ASEPTIC FITTING 249



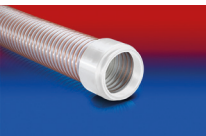
CONNECT 240 + 241 FOOD



CONNECT 243 FOOD



CONNECT 244 FOOD



CONNECT 245 FOOD



CONNECT 246 FOOD

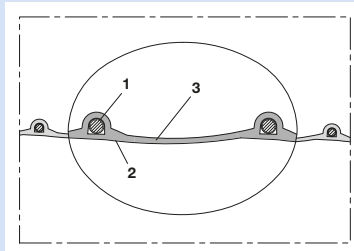
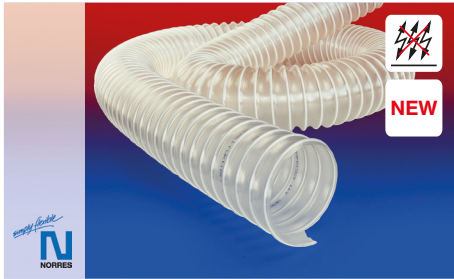


CONNECT 223



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, medium-heavy, microbe resistant + flame-retardant

**Applications**

- flexible hose/ ducting for high throughput of abrasive powder, bulk material, granulate and for gases
- extraction unit, dedusting system, filter system, oil mist extraction
- compressor, side channel blower, vacuum pump, pressure pump, pump
- municipal vehicle: sweeper, sweeping machine
- municipal vehicle: lawn mower, slope mower, leaf blower/ leaf collector

**Properties**

- medium-heavy duty
- highly abrasion resistant

- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math>
- conforms to RoHS guideline

**Temperature Range**

- 40°C to 90°C
- short time to 125°C

**Design, Material**

PROTAPE® tape hose

- spring steel wire integrated in wall; plastic coated spring steel wire
- wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- wall thickness 0,9 mm approx.

**Delivery variants**

- further lengths available on request
- transparent (standard)
- Imprint: <ID> antistatic + microbe resistant + flame retardant <neutral batch no.>

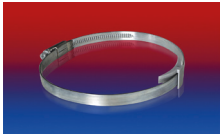
I.D. in / mm	O.D. mm	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Dimensions in Stock m	Order No.
- / 40	48	1,322 (3,92)	1,000 (1,00)	38	0,25	10	333-0040-0007
2 / 50-51	58	1,065 (3,16)	1,000 (1,00)	48	0,31	10	333-0050-0007
2,36 / 60	68	0,890 (2,64)	1,000 (1,00)	58	0,36	10	333-0060-0007
2,5 / 63-65	72	0,825 (2,44)	1,000 (1,00)	63	0,38	10	333-0065-0007
- / 70	78	0,768 (2,27)	1,000 (1,00)	68	0,42	10	333-0070-0007
3 / 75-76	83	0,718 (2,12)	1,000 (1,00)	73	0,44	10	333-0075-0007
- / 80	88	0,674 (1,99)	1,000 (1,00)	78	0,47	10	333-0080-0007
4 / 100-102	109	0,541 (1,60)	0,567 (0,71)	98	0,97	10	333-0100-0007
5 / 125-127	134	0,435 (1,28)	0,454 (0,57)	123	1,19	10	333-0125-0007
5,5 / 140	148	0,389 (1,14)	0,405 (0,50)	138	1,32	10	333-0140-0007
6 / 150-152	159	0,363 (1,07)	0,378 (0,47)	148	1,45	10	333-0150-0007
6,3 / 160	168	0,340 (1,00)	0,354 (0,45)	158	1,50	10	333-0160-0007
7 / 178-180	186	0,303 (0,89)	0,315 (0,40)	178	1,66	10	333-0180-0007
8 / 200-203	210	0,273 (0,80)	0,283 (0,36)	198	1,89	10	333-0200-0007
- / 250	258	0,219 (0,64)	0,236 (0,30)	248	2,32	10	333-0250-0007
- / 300	308	0,182 (0,54)	0,197 (0,25)	298	2,78	10	333-0300-0007

Accessories



CLAMP 212

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.



CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



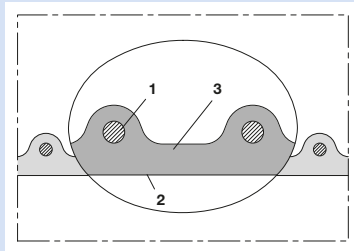
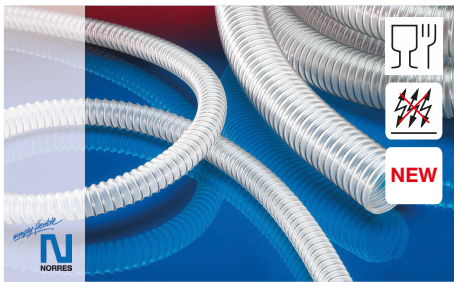
CONNECT 223



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, heavy, stainless steel (INOX)

### Applications

- flexible hose/ ducting for high throughput of abrasive powder, bulk material, granulate and for gases
- 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
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport

### Properties

- heavy duty
- highly abrasion resistant
- increased pressure and vacuum 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 conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 3

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

### Temperature Range

- 40°C to 90°C

### Design, Material

AIRDUC® profile hose

- spring steel wire firmly embedded in wall; spiral: stainless steel wire (INOX)
- wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- wall thickness 1,4 - 1,5 mm approx.

### 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	3,565	1,000	20	0,280	5 10	355-0025-1018
1,25 / 32	42	3,490	1,000	26	0,440	5 10	355-0032-1018
1,5 / 38	48	2,975	0,985	29	0,520	5 10	355-0038-1018
- / 40	50	2,835	0,935	30	0,540	5 10	355-0040-1018
2 / 50-51	60	2,300	0,750	35	0,660	5 10	355-0050-1018
- / 55	65	2,100	0,680	38	0,720	5 10	355-0055-1018
2,36 / 60	70	1,930	0,625	40	0,780	5 10	355-0060-1018
2,5 / 63-65	75	1,790	0,575	43	0,840	5 10	355-0065-1018
- / 70	81	1,665	0,505	62	0,980	5 10	355-0070-1018
3 / 75-76	86	1,560	0,475	66	1,050	5 10	355-0075-1018
- / 80	91	1,465	0,450	69	1,110	5 10	355-0080-1018
3,5 / 89-90	101	1,305	0,395	76	1,300	5 10	355-0090-1018
4 / 100-102	111	1,180	0,385	83	1,490	5 10	355-0100-1018
5 / 125-127	136	0,950	0,305	101	1,840	5 10	355-0125-1018
6 / 150-152	161	0,795	0,285	118	2,410	5 10	355-0150-1018
6,3 / 160	172	0,745	0,265	125	2,560	5 10	355-0160-1018
7 / 178-180	191	0,665	0,235	139	2,900	5 10	355-0180-1018
8 / 200-203	213	0,600	0,145	156	3,120	5 10	355-0200-1018

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 216



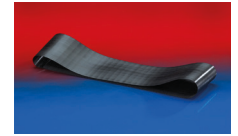
CLAMP 212 EC



CLAMP 217



CLAMP 213



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



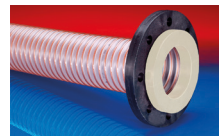
CONNECT ASEPTIC  
FITTING 249



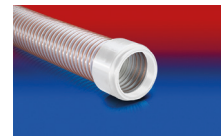
CONNECT 240 + 241  
FOOD



CONNECT 243 FOOD



CONNECT 244 FOOD



CONNECT 245 FOOD



CONNECT 246 FOOD

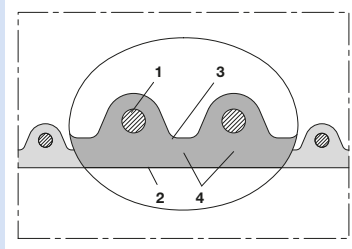
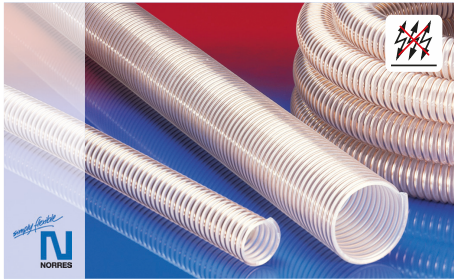


CONNECT 223



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, 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.



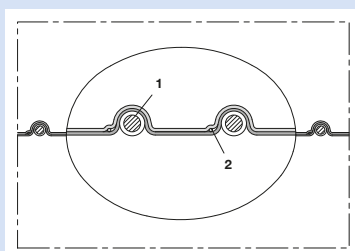
I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
4,72 / 120	133	1,660	0,930	330	2,690	10 15	356-0120-0000
- / 125	138	1,595	0,895	336	2,800	10 15 20	356-0125-0000
5 / 127	140	1,565	0,890	336	2,840	10 15	356-0127-0000
- / 130	143	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.



Highly flexible PVC hose, light

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibres
- industrial vacuum cleaners, vacuum cleaners
- construction drying
- medical equipment/ medical technology, health-care sector: cable protection conduit, air supply hose, extraction hose
- scrubber, floor cleaning machine

**Properties**

- light weight
- highly flexible
- good resistance to alkalis and acids
- good resistance to chemicals
- conforms to RoHS guideline

**Temperature Range**

- 0°C to 85°C

**Design, Material**

SuperFlex design  
 1. plastic coated spring steel wire  
 2. wall: high grade soft PVC

**Delivery variants**

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

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 version, reinforced, left-hand pitch</b>							
1 / 25	31	1,700	0,200	13	0,200	15	372-0025-0000
- / 28	34	1,600	0,200	14	0,230	15	372-0028-0000
1,25 / 32	38	1,500	0,200	16	0,280	15	372-0032-0000
1,36 / 35	41	1,400	0,200	18	0,310	15	372-0035-0000
1,5 / 38	44	1,400	0,200	19	0,340	15	372-0038-0000
- / 41	47	1,400	0,180	21	0,370	15	372-0041-0000
1,75 / 44-45	50	1,300	0,160	22	0,380	15	372-0044-0000
2 / 50-51	57	1,300	0,150	26	0,460	15	372-0051-0000
2,5 / 63-65	69	1,000	0,140	31	0,530	15	372-0063-0000
- / 70	76	0,900	0,120	35	0,580	15	372-0070-0000
3 / 75-76	82	0,800	0,100	38	0,680	15	372-0076-0000
- / 80	86	0,700	0,090	40	0,830	15	372-0080-0000
3,5 / 89-90	95	0,700	0,090	45	0,930	15	372-0089-0000
4 / 100-102	106	0,600	0,080	52	1,000	15	372-0100-0000
<b>flexible type, less bending force, flexible at low temp. (down to -25°C), without reinforcement, right-hand pitch</b>							
1 / 25	31	1,100	0,250	13	0,234	15	372-0025-0001
- / 28	34	0,950	0,240	14	0,257	15	372-0028-0001
1,25 / 32	38	0,875	0,230	16	0,290	15	372-0032-0001
1,36 / 35	41	0,800	0,225	18	0,315	15	372-0035-0001
1,5 / 38	44	0,740	0,215	19	0,339	15	372-0038-0001
- / 41	47	0,705	0,210	21	0,364	15	372-0041-0001
1,75 / 44-45	50	0,630	0,195	22	0,388	15	372-0044-0001
2 / 50-51	57	0,565	0,180	26	0,437	15	372-0051-0001
2,5 / 63-65	69	0,440	0,125	31	0,544	15	372-0063-0001
- / 70	76	0,410	0,105	35	0,607	15	372-0070-0001
3 / 75-76	82	0,380	0,095	38	0,653	15	372-0076-0001
- / 80	86	0,360	0,090	40	0,690	15	372-0080-0001
3,5 / 89-90	95	0,320	0,075	45	0,764	15	372-0089-0001
4 / 100-102	106	0,285	0,060	52	0,867	15	372-0100-0001

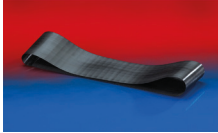
Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at [www.norres.com](http://www.norres.com). The right to make technical modifications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



CONNECT 228



CONNECT 223

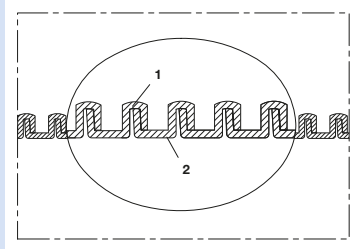


CONNECT 226



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.



Vacuum cleaner hose

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibres
- industrial vacuum cleaners, vacuum cleaners
- swimming pool cleaning
- scrubber, floor cleaning machine

**Properties**

- light weight
- highly flexible
- crush resistant

- floatable
- good resistance to alkalis and acids
- conforms to RoHS guideline

**Temperature Range**

- -45°C to 65°C

**Design, Material**

- EVA design
1. self-supporting profile design
  2. open profile geometry; wall: EVA

**Delivery variants**

- further diameters and lengths available on request
- grey (standard)

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	mm	kg/m	m	m	
- / 20	26,8	0,500	42	0,130	-	30	373-0020-0000
1 / 25	32,2	0,500	54	0,150	-	30	373-0025-0000
- / 30	38,0	0,500	62	0,200	-	30	373-0030-0000
1,25 / 32	40,4	0,500	66	0,240	<b>30</b>	-	373-0032-0000
1,36 / 35	43,8	0,500	71	0,260	-	30	373-0035-0000
1,5 / 38	47,2	0,500	74	0,310	<b>30</b>	-	373-0038-0000
- / 40	49,4	0,500	80	0,320	-	30	373-0040-0000
1,75 / 44-45	55,0	0,500	89	0,370	<b>30</b>	-	373-0045-0000
2 / 50-51	60,4	0,500	97	0,440	<b>30</b>	-	373-0050-0000
2,36 / 60	72,0	0,500	113	0,670	-	30	373-0060-0000

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



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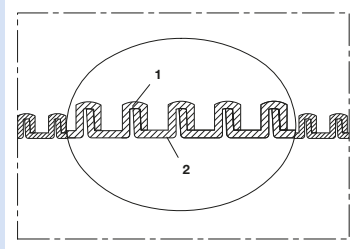


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Vacuum cleaner hose, antistatic <math><10^{11}</math> Ohm

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibres
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- swimming pool cleaning
- scrubber, floor cleaning machine

**Properties**

- light weight
- highly flexible
- crush resistant
- floatable

- good resistance to alkalis and acids
- surface resistance <math><10^{11}</math>  $\Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dusts (Zone 22 inside), 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**

- 25°C to 65°C

**Design, Material**

EVA design

- self-supporting profile design
- open profile geometry; wall: EVA

**Delivery variants**

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	mm	kg/m	m	m	
- / 20	26,8	0,500	42	0,130	-	30	373-0020-1002
1 / 25	32,2	0,500	54	0,150	30	-	373-0025-1002
- / 30	38,0	0,500	62	0,200	-	30	373-0030-1002
1,25 / 32	40,4	0,500	66	0,240	30	-	373-0032-1002
1,36 / 35	43,8	0,500	71	0,260	30	-	373-0035-1002
1,5 / 38	47,2	0,500	74	0,310	30	-	373-0038-1002
- / 40	49,4	0,500	80	0,320	30	-	373-0040-1002
1,75 / 44-45	55,0	0,500	89	0,370	30	-	373-0045-1002
2 / 50-51	60,4	0,500	97	0,440	30	-	373-0050-1002
2,36 / 60	72,0	0,500	113	0,670	30	-	373-0060-1002

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**



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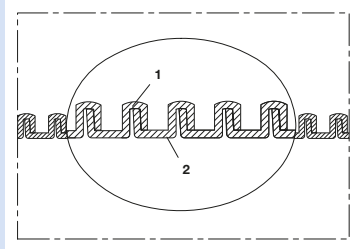
CONNECT 228



CONNECT 227

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Vacuum cleaner hose, electrically conductive  $<10^6 \text{ Ohm}$

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibres
- industrial vacuum cleaners, vacuum cleaners
- explosion hazard area
- swimming pool cleaning
- scrubber, floor cleaning machine

**Properties**

- light weight
- highly flexible
- crush resistant
- floatable

- good resistance to alkalis and acids
- surface resistance  $<10^6 \Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dusts (Zone 22 inside), 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**

- $-25^\circ\text{C}$  to  $65^\circ\text{C}$

**Design, Material**

EVA design

1. self-supporting profile design
2. open profile geometry; wall: EVA

**Delivery variants**

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	mm	kg/m	m	m	
- / 20	26,5	0,500	45	0,085	-	30	373-0020-1003
1 / 25	32,2	0,500	54	0,150	30	-	373-0025-1003
- / 30	38,1	0,500	63	0,215	-	30	373-0030-1003
1,25 / 32	40,4	0,500	66	0,240	30	-	373-0032-1003
1,5 / 38	47,2	0,500	74	0,310	30	-	373-0038-1003
- / 40	49,4	0,500	80	0,320	30	-	373-0040-1003
2 / 50-51	60,4	0,500	97	0,440	30	-	373-0050-1003

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● Manufacture, warehouse, distribution ● Warehouse, distribution



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