



## NORRES INDUSTRIAL HOSES SWEEPING AND CLEANING MACHINES



Municipal vehicle: Sweeper, sweeping machine

Recommended by NORRES customers:

- AIRDUC® PUR 350 AS
- AIRDUC® PUR 351 FOOD
- AIRDUC® PUR 355 AS
- AIRDUC® PUR 355 SWEEPER
- AIRDUC® PUR 355 SWEEPER REINFORCED

Proven Alternatives:

- PROTAPE® PUR 327 MEMORY
- PROTAPE® PUR 327 PP
- AIRDUC® PUR 355 VAC-TRUCK ORANGE
- NORPLAST® PUR 385 AS



Municipal vehicle: Lawn mower, slope mower, leaf blower / leaf collector

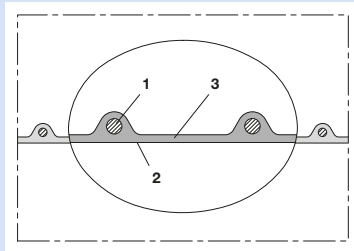
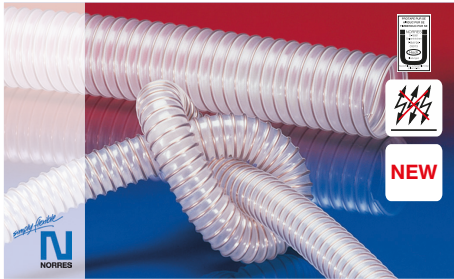
Recommended by NORRES customers:

- AIRDUC® PUR 350 AS
- AIRDUC® PUR 351 FOOD

Proven Alternatives:

- PROTAPE® PUR 327 MEMORY
- PROTAPE® PUR 327 PP
- AIRDUC® PUR 355 AS
- NORPLAST® PUR 385 AS





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

**Applications**

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- printed circuit board drilling machines (PCB)
- offset printing machine: air supply, air supply cabinet
- air supply: UV dryer, IR dryer
- extraction unit, dust collection systems, filter system, oil mist extraction
- chemical industry: chemical vapors, vapor 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
- compressor, side channel blower, vacuum pump, pressure pump, pump
- surface preparation: shot blasting/ sand blasting recovery (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
- scrubber, floor cleaning machine
- heating hose: exterior hose as protection hose

**Properties**

- medium-heavy duty
- highly abrasion resistant
- 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 <math><10^9 \Omega</math> and in accordance with TRGS 727 <math><2,5 \* 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 the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 2
- conforms to RoHS guideline

**Temperature range**

- 40°F to 195°F
- short time to 255°F

**Design, material**

- AIRDUC® profile hose
- spring steel wire firmly embedded in the wall
  - wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
  - wall thickness 0.03 inch approximate

**Delivery variants**

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

I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1 / 25	1.25	35.45 (78.95)	22.30 (29.53)	0.89	0.130	25 50	-	350-0025-1002
- / 30	1.46	29.80 (66.30)	18.60 (29.53)	1.02	0.170	-	25 50	350-0030-1002
1.25 / 32	1.54	28.00 (62.30)	17.42 (29.53)	1.06	0.180	-	25 50	350-0032-1002
1.5 / 38	1.75	23.70 (52.70)	14.62 (29.53)	1.22	0.210	25 50	-	350-0038-1002
- / 40	1.85	22.55 (50.20)	13.88 (29.53)	1.25	0.220	-	25 50	350-0040-1002
1.75 / 44-45	2.05	20.15 (44.75)	12.40 (29.53)	1.36	0.250	-	25 50	350-0045-1002
2 / 50-51	2.24	18.15 (40.30)	11.22 (29.53)	1.50	0.270	25 50	-	350-0050-1002
- / 55	2.44	16.55 (36.75)	10.19 (29.38)	1.59	0.295	-	25 50	350-0055-1002
2.36 / 60	2.64	15.25 (33.70)	9.30 (24.66)	1.73	0.325	-	25 50	350-0060-1002
2.5 / 63-65	2.76	14.05 (31.20)	8.56 (21.11)	1.83	0.350	25 50	-	350-0065-1002
- / 70	3.03	13.05 (29.00)	5.46 (24.51)	1.97	0.375	-	25 50	350-0070-1002
3 / 75-76	3.20	12.20 (27.10)	5.17 (21.41)	2.07	0.395	25 50	-	350-0075-1002
- / 80	3.43	11.45 (25.45)	4.72 (18.90)	2.20	0.430	-	25 50	350-0080-1002
3.5 / 89-90	3.82	10.25 (22.65)	4.28 (15.06)	2.44	0.485	25 50	-	350-0090-1002
4 / 100-102	4.21	9.20 (20.40)	3.99 (19.49)	2.68	0.540	25 50	-	350-0100-1002
- / 110	4.61	8.35 (18.55)	3.69 (16.09)	2.91	0.585	-	25 50	350-0110-1002
4.5 / 114-115	4.80	8.00 (17.75)	3.54 (14.76)	3.01	0.605	25 50	-	350-0115-1002
4.72 / 120	5.00	7.70 (17.05)	3.40 (13.44)	3.15	0.640	-	25 50	350-0120-1002
5 / 125-127	5.20	7.40 (16.30)	3.25 (12.40)	3.25	0.660	25 50	-	350-0125-1002
- / 130	5.39	7.10 (15.75)	3.10 (11.52)	3.39	0.680	-	25 50	350-0130-1002

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in			in	lbs./ft	ft	ft	
5.5 / 140	5.79	6.60 (14.60)	2.81 (9.89)	3.62	0.730	25 50	-	350-0140-1002
6 / 150-152	6.18	6.15 (13.65)	2.21 (10.63)	3.86	0.940	25 50	-	350-0150-1002
6.3 / 160	6.57	5.80 (12.75)	2.07 (9.30)	4.09	1.010	-	25 50	350-0160-1002
- / 170	6.97	5.45 (12.05)	1.92 (8.12)	4.25	1.060	-	25 50	350-0170-1002
- / 175	7.17	5.30 (11.70)	1.92 (7.68)	4.43	1.095	-	25 50	350-0175-1002
7 / 178-180	7.36	5.15 (11.40)	1.77 (7.23)	4.57	1.120	25 50	-	350-0180-1002
8 / 200-203	8.15	4.65 (10.25)	1.62 (5.76)	5.04	1.250	25	-	350-0200-1002
- / 225	9.13	4.15 (9.15)	1.48 (4.43)	5.61	1.400	-	25	350-0225-1002
- / 250	10.12	3.70 (8.20)	1.33 (3.40)	6.22	1.550	-	25	350-0250-1002
10 / 254	10.28	3.65 (8.05)	1.33 (3.25)	6.30	1.580	25	-	350-0254-1002
- / 275	11.10	3.35 (7.45)	1.18 (2.81)	6.79	1.705	-	25	350-0275-1002
11 / 280	11.30	3.35 (7.30)	1.18 (2.66)	6.93	1.740	25	-	350-0280-1002
- / 300	12.09	3.10 (6.80)	1.03 (2.21)	7.40	1.860	-	25	350-0300-1002
12 / 305	12.28	3.05 (6.75)	1.03 (2.21)	7.50	1.890	25	-	350-0305-1002
- / 315	12.68	2.95 (6.55)	1.03 (2.07)	7.74	1.950	-	25	350-0315-1002
- / 350	14.06	2.70 (5.85)	0.89 (1.62)	8.58	2.165	-	25	350-0350-1002
14 / 356	14.29	2.60 (5.80)	0.89 (1.77)	8.74	2.245	25	-	350-0356-1002
- / 400	16.02	2.30 (5.15)	0.89 (1.33)	9.76	2.800	-	25	350-0400-1002
- / 450	18.00	2.05 (4.55)	0.74 (1.03)	11.06	3.150	-	25	350-0450-1002
- / 500	19.96	1.90 (4.15)	0.74 (0.89)	12.32	3.495	-	25	350-0500-1002

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

### Accessories



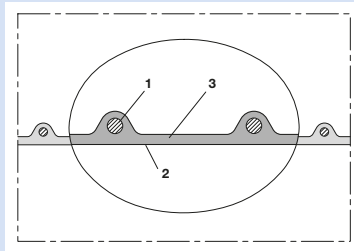
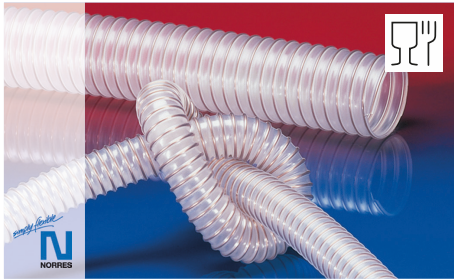
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CONNECT 270-271

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Food hose and pharmaceutical hose, medium-heavy duty and reinforced

**Applications**

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- food industry, pharmaceutical industry: food, 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
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- industrial vacuum cleaners, vacuum cleaners

**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 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- odorless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

**Temperature range**

- 40°F to 195°F

- short time to 255°F

**Design, material**

- AIRDUC® profile hose
- spring steel wire firmly embedded in the wall
  - wall: special premium ether-polyurethane (Pre-PUR®)
  - wall thickness 0.04 inch approximate

**Delivery variants**

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

I.D. in / mm	O.D. in	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Stock length ft	Further production lengths ft	Order No.
1 / 25	1.25	39.40 (84.85)	20.08 (29.53)	0.89	0.135	25 50	-	351-0025-0000
- / 30	1.50	33.20 (71.35)	13.88 (29.53)	1.06	0.175	-	25 50	351-0030-0000
1.25 / 32	1.57	31.25 (67.15)	12.99 (29.53)	1.10	0.190	-	25 50	351-0032-0000
1.36 / 35	1.69	28.65 (61.65)	11.96 (29.53)	1.16	0.200	-	25 50	351-0035-0000
1.5 / 38	1.81	26.55 (56.95)	10.93 (29.53)	1.25	0.215	25 50	-	351-0038-0000
- / 40	1.89	25.25 (54.15)	10.48 (29.53)	1.30	0.230	-	25 50	351-0040-0000
1.75 / 44-45	2.09	22.55 (48.35)	9.30 (29.53)	1.40	0.255	-	25 50	351-0045-0000
2 / 50-51	2.28	20.40 (43.65)	8.42 (29.53)	1.54	0.275	25 50	-	351-0050-0000
- / 55	2.50	18.55 (39.80)	7.53 (29.09)	1.63	0.300	-	25 50	351-0055-0000
2.36 / 60	2.68	17.05 (36.55)	6.94 (24.36)	1.75	0.330	-	25 50	351-0060-0000
2.5 / 63-65	2.87	15.80 (33.80)	6.50 (20.67)	1.87	0.355	25 50	-	351-0065-0000
- / 70	3.11	14.65 (31.45)	4.43 (24.66)	2.05	0.395	-	25 50	351-0070-0000
3 / 75-76	3.31	13.70 (29.35)	4.13 (21.56)	2.15	0.430	25 50	-	351-0075-0000
- / 80	3.50	12.90 (27.65)	3.84 (18.90)	2.28	0.455	-	25 50	351-0080-0000
3.5 / 89-90	3.90	11.45 (24.6)	3.40 (14.91)	2.52	0.505	25 50	-	351-0090-0000
4 / 100-102	4.29	10.35 (22.2)	3.25 (19.49)	2.76	0.650	25 50	-	351-0100-0000
- / 110	4.69	9.45 (20.15)	2.95 (16.09)	3.00	0.710	-	25 50	351-0110-0000
4.5 / 114-115	4.88	9.00 (19.30)	2.81 (14.62)	3.09	0.745	25 50	-	351-0115-0000
4.72 / 120	5.08	8.65 (18.50)	2.66 (13.44)	3.20	0.780	-	25 50	351-0120-0000
5 / 125-127	5.28	8.35 (17.75)	2.66 (12.40)	3.33	0.805	25 50	-	351-0125-0000
- / 130	5.47	8.00 (17.10)	2.51 (11.37)	3.46	0.840	-	25 50	351-0130-0000
5.5 / 140	5.87	7.40 (15.90)	2.36 (9.74)	3.70	0.900	25 50	-	351-0140-0000
6 / 150-152	6.26	6.95 (14.85)	1.92 (10.78)	3.94	1.020	25 50	-	351-0150-0000
6.3 / 160	6.65	6.55 (13.90)	1.92 (9.30)	4.17	1.080	-	25 50	351-0160-0000
- / 170	7.05	6.15 (13.15)	1.77 (8.12)	4.33	1.150	-	25 50	351-0170-0000
- / 175	7.24	5.95 (12.75)	1.77 (7.68)	4.51	1.185	-	25 50	351-0175-0000

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in			in	lbs./ft	ft	ft	
7 / 178-180	7.44	5.80 (12.40)	1.62 (7.23)	4.65	1.215	25 50	-	351-0180-0000
8 / 200-203	8.23	5.20 (11.15)	1.48 (5.61)	5.12	1.345	25 50	-	351-0200-0000
- / 225	9.21	4.65 (9.95)	1.18 (4.28)	5.69	1.450	-	25	351-0225-0000
- / 250	10.20	4.20 (8.90)	1.03 (3.25)	6.30	1.605	-	25 50	351-0250-0000
- / 275	11.18	3.75 (8.10)	1.03 (2.66)	6.87	1.765	-	25	351-0275-0000
11 / 280	11.38	3.75 (8.00)	0.89 (2.51)	7.00	1.795	25	-	351-0280-0000
- / 300	12.17	3.50 (7.45)	0.89 (2.07)	7.48	1.920	-	25	351-0300-0000
- / 315	12.76	3.35 (7.10)	0.89 (1.92)	7.81	2.015	-	25	351-0315-0000
- / 325	13.15	3.20 (6.90)	0.89 (1.77)	8.05	2.085	-	25	351-0325-0000
- / 350	14.13	2.95 (6.40)	0.74 (1.48)	8.66	2.240	-	25	351-0350-0000
- / 375	15.12	2.85 (6.00)	0.74 (1.33)	9.31	2.620	-	25	351-0375-0000
- / 400	16.10	2.60 (5.60)	0.74 (1.18)	9.84	2.870	-	25	351-0400-0000
- / 450	18.07	2.30 (5.00)	0.59 (0.89)	11.14	3.225	-	25	351-0450-0000
- / 500	20.04	2.10 (4.50)	0.59 (0.74)	12.40	3.580	-	25	351-0500-0000

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Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 212 EC



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



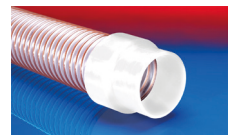
CONNECT TRI-CLAMP FITTING 245



CONNECT DAIRY FITTING 247



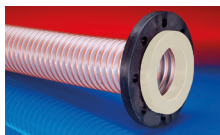
CONNECT ASEPTIC FITTING 249



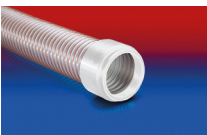
CONNECT 240 + 241 FOOD



CONNECT 243 FOOD



CONNECT 244 FOOD



CONNECT 245 FOOD



CONNECT 246 FOOD



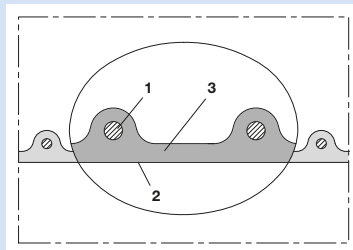
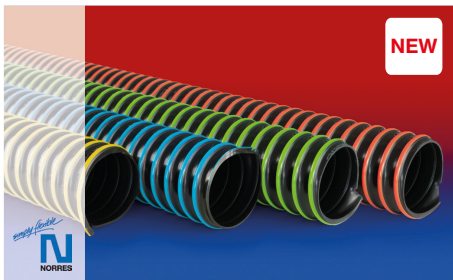
CONNECT 223



CONNECT 270-271

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Antistatic polyurethane hose, heavy, microbe resistant

## Applications

- flexible hose/ ducting for high volume 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 machines (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 (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  $<2,5 * 10^6 \Omega$
- 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)

- according to DIN 26057 Type 3
- conforms to RoHS guideline

## Temperature range

- 40°F to 195°F
- short time to 255°F

## Design, material

AIRDUC® profile hose

- spring steel wire firmly embedded in the wall
- wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- wall thickness 0.055 - 0.060 inch approximate

## Delivery variants

- further diameters and lengths available on request
- customer-specific branding
- Available in 25ft and 50ft lengths
- Wall black and colored helix: blue, green, red, yellow (standard)
- further colors on request

I.D. in / mm	O.D. in	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Minimum quantity ft	Order No.
<b>black + green</b>							
1.25 / 32	1.65	54.70 (103.65)	29.53 (29.53)	1.02	0.295	450	355-0032-0997
1.5 / 38	1.89	46.65 (88.05)	29.53 (29.53)	1.14	0.350	450	355-0038-0997
- / 40	1.97	44.45 (83.85)	29.53 (29.53)	1 1/8	0.365	450	355-0040-0997
2 / 50-51	2.36	36.05 (67.65)	24.36 (29.53)	1.36	0.445	450	355-0050-0997
2.36 / 60	2.76	30.30 (56.80)	20.23 (29.53)	1.57	0.525	450	355-0060-0997
2.5 / 63-65	2.95	28.05 (52.50)	18.75 (29.53)	1.67	0.565	450	355-0065-0997
- / 70	3.19	26.10 (48.90)	15.95 (29.53)	2.44	0.660	450	355-0070-0997
3 / 75-76	3.39	24.45 (45.70)	14.91 (29.53)	2.58	0.705	300	355-0075-0997
- / 80	3.58	23.00 (42.85)	14.03 (29.53)	2.72	0.745	300	355-0080-0997
- / 85	3.80	22.30 (41.65)	13.75 (28.50)	2.85	0.80	300	355-0085-0997
4 / 100-102	4.37	18.50 (34.45)	11.52 (27.46)	3.27	1.000	300	355-0100-0997
5 / 125-127	5.35	14.85 (27.70)	9.30 (17.72)	3.96	1.235	300	355-0125-0997
5.5 / 140	5.94	13.35 (24.75)	8.27 (14.32)	4.37	1.365	240	355-0140-0997
6 / 150-152	6.34	12.45 (23.15)	7.97 (15.65)	4.65	1.620	240	355-0150-0997
6.3 / 160	6.73	11.70 (21.70)	7.53 (13.73)	4.92	1.720	240	355-0160-0997
8 / 200-203	8.39	9.35 (17.40)	4.43 (10.63)	6.14	2.095	180	355-0200-0997

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Minimum quantity ft	Order No.
in / mm	in						
<b>black + yellow</b>							
1.25 / 32	1.65	54.70 (103.65)	29.53 (29.53)	1.02	0.295	450	355-0032-0998
1.5 / 38	1.89	46.65 (88.05)	29.53 (29.53)	1.14	0.350	450	355-0038-0998
- / 40	1.97	44.45 (83.85)	29.53 (29.53)	1 1/8	0.365	450	355-0040-0998
2 / 50-51	2.36	36.05 (67.65)	24.36 (29.53)	1.36	0.445	450	355-0050-0998
2.36 / 60	2.76	30.30 (56.80)	20.23 (29.53)	1.57	0.525	450	355-0060-0998
2.5 / 63-65	2.95	28.05 (52.50)	18.75 (29.53)	1.67	0.565	450	355-0065-0998
- / 70	3.19	26.10 (48.90)	15.95 (29.53)	2.44	0.660	450	355-0070-0998
3 / 75-76	3.39	24.45 (45.70)	14.91 (29.53)	2.58	0.705	300	355-0075-0998
- / 80	3.58	23.00 (42.85)	14.03 (29.53)	2.72	0.745	300	355-0080-0998
- / 85	3.80	22.30 (41.65)	13.75 (28.50)	2.85	0.80	300	355-0085-0998
4 / 100-102	4.37	18.50 (34.45)	11.52 (27.46)	3.27	1.000	300	355-0100-0998
5 / 125-127	5.35	14.85 (27.70)	9.30 (17.72)	3.96	1.235	300	355-0125-0998
5.5 / 140	5.94	13.35 (24.75)	8.27 (14.32)	4.37	1.365	240	355-0140-0998
6 / 150-152	6.34	12.45 (23.15)	7.97 (15.65)	4.65	1.620	240	355-0150-0998
6.3 / 160	6.73	11.70 (21.70)	7.53 (13.73)	4.92	1.720	240	355-0160-0998
8 / 200-203	8.39	9.35 (17.40)	4.43 (10.63)	6.14	2.095	180	355-0200-0998
<b>black + red</b>							
1.25 / 32	1.65	54.70 (103.65)	29.53 (29.53)	1.02	0.295	450	355-0032-0999
1.5 / 38	1.89	46.65 (88.05)	29.53 (29.53)	1.14	0.350	450	355-0038-0999
- / 40	1.97	44.45 (83.85)	29.53 (29.53)	1 1/8	0.365	450	355-0040-0999
2 / 50-51	2.36	36.05 (67.65)	24.36 (29.53)	1.36	0.445	450	355-0050-0999
2.36 / 60	2.76	30.30 (56.80)	20.23 (29.53)	1.57	0.525	450	355-0060-0999
2.5 / 63-65	2.95	28.05 (52.50)	18.75 (29.53)	1.67	0.565	450	355-0065-0999
- / 70	3.19	26.10 (48.90)	15.95 (29.53)	2.44	0.660	450	355-0070-0999
3 / 75-76	3.39	24.45 (45.70)	14.91 (29.53)	2.58	0.705	300	355-0075-0999
- / 80	3.58	23.00 (42.85)	14.03 (29.53)	2.72	0.745	300	355-0080-0999
- / 85	3.80	22.30 (41.65)	13.75 (28.50)	2.85	0.80	300	355-0085-0999
4 / 100-102	4.37	18.50 (34.45)	11.52 (27.46)	3.27	1.000	300	355-0100-0999
5 / 125-127	5.35	14.85 (27.70)	9.30 (17.72)	3.96	1.235	300	355-0125-0999
5.5 / 140	5.94	13.35 (24.75)	8.27 (14.32)	4.37	1.365	240	355-0140-0999
6 / 150-152	6.34	12.45 (23.15)	7.97 (15.65)	4.65	1.620	240	355-0150-0999
6.3 / 160	6.73	11.70 (21.70)	7.53 (13.73)	4.92	1.720	240	355-0160-0999
8 / 200-203	8.39	9.35 (17.40)	4.43 (10.63)	6.14	2.095	180	355-0200-0999
<b>black + blue</b>							
1.25 / 32	1.65	54.70 (103.65)	29.53 (29.53)	1.02	0.295	450	355-0032-0996
1.5 / 38	1.89	46.65 (88.05)	29.53 (29.53)	1.14	0.350	450	355-0038-0996
- / 40	1.97	44.45 (83.85)	29.53 (29.53)	1 1/8	0.365	450	355-0040-0996
2 / 50-51	2.36	36.05 (67.65)	24.36 (29.53)	1.36	0.445	450	355-0050-0996
2.36 / 60	2.76	30.30 (56.80)	20.23 (29.53)	1.57	0.525	450	355-0060-0996
2.5 / 63-65	2.95	28.05 (52.50)	18.75 (29.53)	1.67	0.565	450	355-0065-0996
- / 70	3.19	26.10 (48.90)	15.95 (29.53)	2.44	0.660	450	355-0070-0996
3 / 75-76	3.39	24.45 (45.70)	14.91 (29.53)	2.58	0.705	300	355-0075-0996
- / 80	3.58	23.00 (42.85)	14.03 (29.53)	2.72	0.745	300	355-0080-0996
- / 85	3.80	22.30 (41.65)	13.75 (28.50)	2.85	0.80	300	355-0085-0996
4 / 100-102	4.37	18.50 (34.45)	11.52 (27.46)	3.27	1.000	300	355-0100-0996
5 / 125-127	5.35	14.85 (27.70)	9.30 (17.72)	3.96	1.235	300	355-0125-0996
5.5 / 140	5.94	13.35 (24.75)	8.27 (14.32)	4.37	1.365	240	355-0140-0996
6 / 150-152	6.34	12.45 (23.15)	7.97 (15.65)	4.65	1.620	240	355-0150-0996

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D. in / mm	O.D. in	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Minimum quantity ft	Order No.
6.3 / 160	6.73	11.70 (21.70)	7.53 (13.73)	4.92	1.720	240	355-0160-0996
8 / 200-203	8.39	9.35 (17.40)	4.43 (10.63)	6.14	2.095	180	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



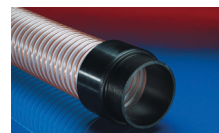
CONNECT MOULD  
ASSEMBLY 233



CONNECT THREAD  
FITTING 234



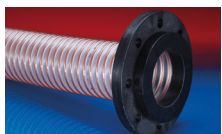
CONNECT 240 + 241



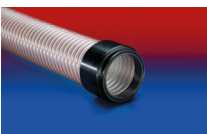
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 245 VAC-  
TRUCK



CONNECT 246



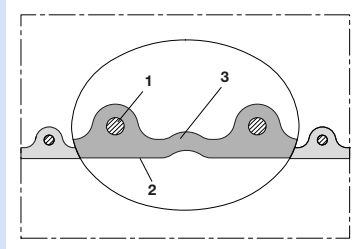
CONNECT 223



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





Sweeper hose, heavy duty, exterior folds, very flexible

### Applications

- municipal vehicle: sweeper, sweeping machine

### Properties

- heavy duty
- highly flexible + compressible
- highly abrasion resistant
- protected, flow-optimizing exterior folds
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility

- according to DIN 26057 Type 3
- conforms to RoHS guideline

### Temperature range

- -40°F to 195°F

### Design, material

AIRDUC® profile hose

1. spring steel wire firmly embedded in the wall
2. wall: special premium polyurethane (Pre-PUR®)
3. wall thickness 0.055 - 0.060 inch approximate

### Delivery variants

- further diameters and lengths available on request
- transparent + partially black colored (standard)
- special colors: transparent, partially colored, completely colored
- customer-specific branding

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
<b>partially black colored</b>								
5.5 / 140	6.05	5.95	6.80	7.90	1.30	-	12 25	355-0140-5200
6.3 / 160	6.80	5.73	5.76	7.90	1.60	-	12 25	355-0160-5200
- / 170	7.20	5.65	5.30	9.05	1.70	-	12 25	355-0170-5200
7 / 178-180	7.60	5.58	4.87	10.25	1.80	-	12 25	355-0180-5200
- / 195	8.20	5.45	4.15	16.40	1.95	-	12 25	355-0195-5200
- / 200	8.45	5.36	3.84	16.40	2.00	-	12 25	355-0200-5200
8 / 203	8.50	5.30	3.70	13.00	2.125	<b>12 25</b>	-	355-0203-5200
- / 206	8.62	5.30	3.55	13.19	2.155	-	12 25	355-0206-5200
- / 208	8.70	5.20	3.40	13.31	2.185	-	12 25	355-0208-5200
- / 225	9.37	4.85	2.95	14.31	2.350	-	12 25	355-0225-5200
9 / 228-229	9.49	4.65	2.95	14.49	2.385	-	12 25	355-0228-5200
- / 250	10.35	4.05	2.80	15.79	2.600	-	12 25	355-0250-5200
10 / 254	10.51	4.15	2.35	16.02	2.640	<b>12 25</b>	-	355-0254-5200
- / 257	10.63	4.20	2.20	16.20	2.675	-	12 25	355-0257-5200
- / 275	11.34	3.90	2.05	17.28	2.855	-	12 25	355-0275-5200
11 / 280	11.54	3.85	2.05	17.56	2.910	-	12 25	355-0280-5200
- / 300	12.32	3.65	1.90	18.68	3.190	-	12 25	355-0300-5200
12 / 305	12.52	3.55	1.75	18.96	3.260	<b>12 25</b>	-	355-0305-5200
- / 400	16.26	2.60	1.20	24.25	4.605	-	12 25	355-0400-5200
16 / 405-406	16.50	2.55	1.35	24.63	4.690	-	12 25	355-0406-5200
<b>transparent</b>								
5.5 / 140	6.05	5.95	6.80	7.90	1.30	-	12 25	355-0140-5205
6.3 / 160	6.80	5.73	5.76	7.90	1.60	-	12 25	355-0160-5205
- / 170	7.20	5.65	5.30	9.05	1.70	-	12 25	355-0170-5205
7 / 178-180	7.60	5.58	4.87	10.25	1.80	-	12 25	355-0180-5205

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
- / 195	8.20	5.45	4.15	16.40	1.95	-	12 25	355-0195-5205
- / 200	8.45	5.36	3.84	16.40	2.00	-	12 25	355-0200-5205
8 / 203	8.50	5.30	3.70	13.00	2.125	-	12 25	355-0203-5205
- / 206	8.62	5.30	3.55	13.19	2.155	-	12 25	355-0206-5205
- / 208	8.70	5.20	3.40	13.31	2.185	-	12 25	355-0208-5205
- / 225	9.37	4.85	2.95	14.31	2.350	-	12 25	355-0225-5205
9 / 228-229	9.49	4.65	2.95	14.49	2.385	-	12 25	355-0228-5205
- / 250	10.35	4.05	2.80	15.79	2.600	-	12 25	355-0250-5205
10 / 254	10.51	4.15	2.35	16.02	2.640	-	12 25	355-0254-5205
- / 257	10.63	4.20	2.20	16.20	2.675	-	12 25	355-0257-5205
- / 275	11.34	3.90	2.05	17.28	2.855	-	12 25	355-0275-5205
11 / 280	11.54	3.85	2.05	17.56	2.910	-	12 25	355-0280-5205
- / 300	12.32	3.65	1.90	18.68	3.190	-	12 25	355-0300-5205
12 / 305	12.52	3.55	1.75	19.96	3.260	-	12 25	355-0305-5205
- / 400	16.26	2.60	1.35	24.25	4.605	-	12 25	355-0400-5205
16 / 405-406	16.50	2.55	1.20	24.63	4.690	-	12 25	355-0406-5205

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

## Accessories



CLAMP 211

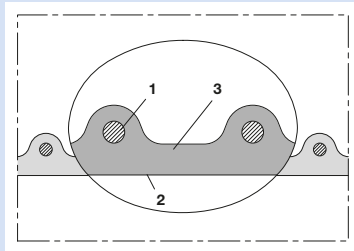
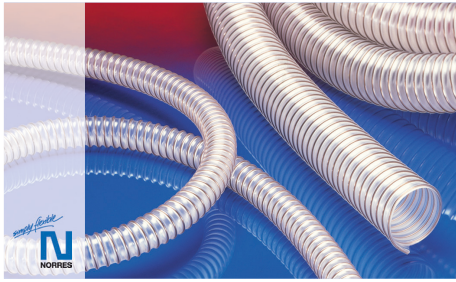


CONNECT 240 + 241



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Sweeper hose, heavy duty and reinforced, interior folds

### Applications

- municipal vehicle: sweeper, sweeping machine

### Properties

- heavy duty and reinforced
- highly abrasion resistant
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- conforms to RoHS guideline

### Temperature range

- -40°F to 195°F

### Design, material

AIRDUC® profile hose

1. spring steel wire firmly embedded in the wall
2. wall: special premium polyurethane (Pre-PUR®)
3. wall thickness 0.06 - 0.07 inch approximate
4. reinforcement of the primary abrasion areas

### Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
8 / 200-203	8.46	5.30	3.70	7.00	1.780	12 25	-	355-0203-5015
- / 208	8.66	5.20	3.55	7.17	1.840	-	12 25	355-0208-5015
10 / 254	10.47	4.30	2.20	8.60	2.390	12 25	-	355-0254-5016
12 / 305	12.60	3.70	1.75	10.31	3.425	12 25	-	355-0305-5015

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

## Accessories



CLAMP 211



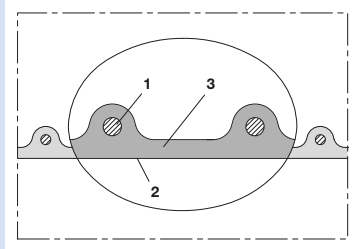
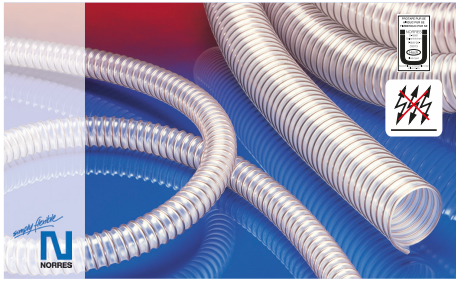
CONNECT 240 + 241



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





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

**Applications**

- flexible hose/ ducting for high volume 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 machines (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 (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  $<2,5 * 10^8 \Omega$
- 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)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 3
- conforms to RoHS guideline

**Temperature range**

- 40°F to 195°F
- short time to 255°F

**Design, material**

- AIRDUC® profile hose
- spring steel wire firmly embedded in the wall
  - wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
  - wall thickness 0.055 - 0.060 inch approximate

**Delivery variants**

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

I.D. in / mm	O.D. in	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Stock length ft	Further production lengths ft	Order No.
- / 13	0.79	72.50 (145.05)	29.53 (29.53)	0.53	0.095	-	25 50	355-0013-0000
5/8 / 16	0.91	71.05 (130.55)	29.53 (29.53)	0.59	0.110	-	25 50	355-0016-0000
- / 18	1.00	63.90 (120.40)	29.53 (29.53)	5/8	0.115	-	25 50	355-0018-0000
- / 20	1.06	68.45 (120.40)	29.53 (29.53)	0.67	0.155	-	25 50	355-0020-0000
- / 22	1.14	62.80 (119.50)	29.53 (29.53)	0.71	0.170	-	25 50	355-0022-0000
1 / 25	1.25	55.90 (105.95)	29.53 (29.53)	3/4	0.190	25 50	-	355-0025-0000
- / 30	1.57	58.00 (110.15)	29.53 (29.53)	1.00	0.280	-	25 50	355-0030-0000
1.25 / 32	1.65	54.70 (103.65)	29.53 (29.53)	1.02	0.295	25 50	-	355-0032-0000
1.36 / 35	1.75	50.35 (95.20)	29.53 (29.53)	1.08	0.325	-	25 50	355-0035-0000
1.5 / 38	1.89	46.65 (88.05)	29.53 (29.53)	1.14	0.350	25 50	-	355-0038-0000
- / 40	1.97	44.45 (83.85)	29.53 (29.53)	1 1/8	0.365	25 50	-	355-0040-0000
- / 42	2.05	42.15 (80.25)	26.87 (29.53)	1.22	0.375	-	25 50	355-0042-0000
1.75 / 44-45	2.17	39.80 (74.90)	27.02 (29.53)	1.28	0.405	-	25 50	355-0045-0000
2 / 50-51	2.36	36.05 (67.65)	24.36 (29.53)	1.36	0.445	25 50	-	355-0050-0000
- / 55	2.56	32.90 (61.70)	22.15 (29.53)	1.48	0.485	-	25 50	355-0055-0000
2.36 / 60	2.76	30.30 (56.80)	20.23 (29.53)	1.57	0.525	25 50	-	355-0060-0000
2.5 / 63-65	2.95	28.05 (52.50)	18.75 (29.53)	1.67	0.565	25 50	-	355-0065-0000
- / 70	3.19	26.10 (48.90)	15.95 (29.53)	2.44	0.660	25 50	-	355-0070-0000

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Stock length ft	Further production lengths ft	Order No.
in / mm	in							
3 / 75-76	3.39	24.45 (45.70)	14.91 (29.53)	2.58	0.705	25 50	-	355-0075-0000
- / 80	3.58	23.00 (42.85)	14.03 (29.53)	2.72	0.745	-	25 50	355-0080-0000
3.5 / 89-90	3.98	20.50 (38.20)	12.40 (28.06)	3.00	0.840	25 50	-	355-0090-0000
4 / 100-102	4.37	18.50 (34.45)	11.52 (27.46)	3.27	1.000	25 50	-	355-0100-0000
- / 110	4.76	16.80 (31.40)	10.48 (22.74)	3.54	1.095	-	25 50	355-0110-0000
4.5 / 114-115	4.96	16.15 (30.00)	10.04 (20.97)	3.68	1.130	25 50	-	355-0115-0000
4.72 / 120	5.16	15.50 (28.80)	9.60 (19.19)	3.82	1.190	-	25 50	355-0120-0000
5 / 125-127	5.35	14.85 (27.70)	9.30 (17.72)	3.96	1.235	25 50	-	355-0125-0000
- / 130	5.55	14.30 (26.60)	8.86 (16.54)	4.09	1.285	-	25 50	355-0130-0000
5.5 / 140	5.94	13.35 (24.75)	8.27 (14.32)	4.37	1.365	25 50	-	355-0140-0000
6 / 150-152	6.34	12.45 (23.15)	7.97 (15.65)	4.65	1.620	25 50	-	355-0150-0000
6.3 / 160	6.73	11.70 (21.70)	7.53 (13.73)	4.92	1.720	-	25 50	355-0160-0000
- / 170	7.13	11.00 (20.45)	7.09 (12.25)	5.20	1.830	-	25 50	355-0170-0000
- / 175	7.32	10.65 (19.85)	6.79 (11.52)	5.33	1.875	-	25 50	355-0175-0000
7 / 178-180	7.52	10.35 (19.30)	6.64 (10.93)	5.47	1.930	25 50	-	355-0180-0000
8 / 200-203	8.39	9.35 (17.40)	4.43 (10.63)	6.14	2.095	25 50	-	355-0200-0000
- / 225	9.37	8.35 (15.45)	3.84 (8.27)	6.83	2.350	-	25	355-0225-0000
- / 250	10.35	7.55 (13.90)	3.54 (6.50)	7.52	2.605	-	25	355-0250-0000
10 / 254	10.51	7.40 (13.70)	3.40 (6.35)	7.64	2.655	25	-	355-0254-0000
- / 275	11.34	6.80 (12.70)	3.25 (5.32)	8.21	2.860	-	25	355-0275-0000
11 / 280	11.54	6.75 (12.45)	3.10 (5.17)	8.35	2.910	25	-	355-0280-0000
- / 300	12.32	6.30 (11.60)	2.66 (5.76)	8.90	3.465	-	25	355-0300-0000
12 / 305	12.52	6.15 (11.45)	2.66 (5.61)	9.06	3.525	25	-	355-0305-0000
- / 315	12.91	5.95 (11.10)	2.51 (5.17)	9.31	3.635	-	25	355-0315-0000
- / 325	13.31	5.80 (10.75)	2.51 (4.72)	9.59	3.750	-	25	355-0325-0000
13 / 330	13.50	5.75 (10.60)	2.36 (4.58)	9.70	3.810	-	25	355-0330-0000
- / 350	14.29	5.35 (10.00)	2.21 (3.84)	10.28	4.030	-	25	355-0350-0000
- / 400	16.26	4.70 (8.70)	2.07 (3.54)	11.65	5.390	-	25	355-0400-0000
- / 450	18.23	4.20 (7.75)	1.92 (2.66)	13.03	6.050	-	25	355-0450-0000
- / 500	20.24	3.75 (6.95)	1.62 (2.07)	14.45	6.720	-	25	355-0500-0000

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

### Accessories



CLAMP 212



CLAMP 216



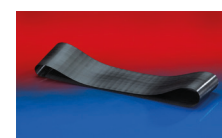
CLAMP 212 EC



CLAMP 217



CLAMP 213



CONNECT 228

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



CONNECT SAFETY CLAMP ASSEMBLY 231



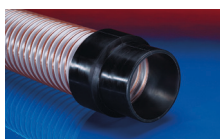
CONNECT PRESS ASSEMBLY 232



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



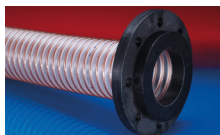
CONNECT 240 + 241



CONNECT 242



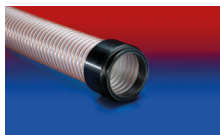
CONNECT 243



CONNECT 244



CONNECT 245 VAC-TRUCK



CONNECT 245



CONNECT 246



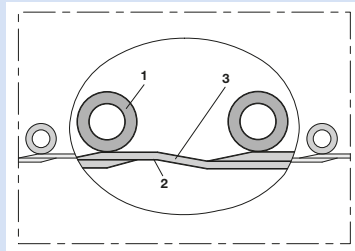
CONNECT 223



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





Crush resistant hose

**Applications**

- airport, airplane, rail vehicle, train, railway, boat, ship/ vessel, yacht: lavatory waste
- municipal vehicle: sweeper, sweeping machine
- municipal vehicle: lawn mower, slope mower, leaf blower/ leaf collector

**Properties**

- medium-heavy duty
- highly flexible
- highly abrasion resistant
- crush 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

- microbe and hydrolysis resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- conforms to RoHS guideline

**Temperature range**

- -40°F to 195°F
- short time to 255°F

**Design, material**

patented PROTAPE® tape hose

1. special plastic-profile supporting spiral
2. wall: special premium ether-polyurethane (Pre-PUR®)
3. wall thickness 0.025 inch approximate

**Delivery variants**

- further diameters and lengths available on request
- transparent + partially black colored (standard)
- special colors: partially colored, completely colored
- customer-specific branding

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
2 / 50-51	2.83	20.22 (-)	14.35 (-)	1.38	0.310	25	-	327-0050-0000
4 / 100-102	4.8	10.15 (-)	2.65 (-)	2.76	0.620	25	-	327-0100-0000
5 / 125-127	5.79	8.82 (-)	2.05 (-)	3.35	0.800	25	-	327-0125-0000
6 / 150-152	6.77	7.25 (-)	1.50 (-)	3.94	0.960	25	-	327-0150-0000
7 / 178-180	7.95	6.54 (-)	0.60 (-)	4.72	1.150	25	-	327-0180-0000
8 / 200-203	8.74	5.80 (-)	0.40 (-)	5.12	1.280	25	-	327-0200-0000

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

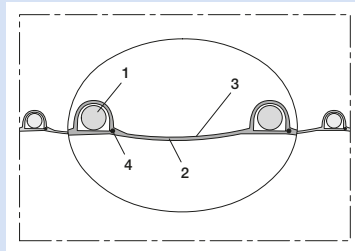
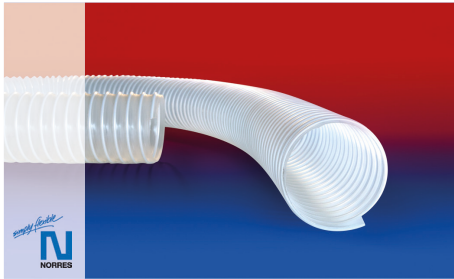


CONNECT 228



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Crush resistant hose

**Applications**

- municipal vehicle: sweeper, sweeping machine
- municipal vehicle: lawn mower, slope mower, leaf blower/ leaf collector
- magnetic resonance scanner, MRI / computer tomography scanner, CT: air supply hose

**Properties**

- super-light weight
- highly flexible
- highly abrasion resistant
- crush resistant
- microbe resistant
- good resistance to oil, gasoline, and chemicals

- very good low temperature flexibility
- grounding wire for discharging of electrostatic charging
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$
- conforms to RoHS guideline

**Temperature range**

- -40°F to 195°F

**Design, material**

patented PROTAPE® tape hose

1. special plastic-profile supporting spiral

2. wall: special premium ester-polyurethane (Pre-PUR®)
3. wall thickness 0.02 inch approximate
4. grounding wire

**Delivery variants**

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

I.D. in / mm	O.D. in	Pressure psi	Vacuum inHG	Bending Radius in	Weight lbs./ft	Further production lengths ft	Order No.
2 / 50-51	2.44	8.75 (-)	0.14 (-)	0.79	0.168	25	327-0050-2100
2.36 / 60	2.38	7.30 (-)	0.32 (-)	0.87	0.195	25	327-0060-2100
3 / 75-76	3.43	5.86 (-)	0.26 (-)	1.02	0.235	25	327-0075-2100
- / 80	3.62	5.50 (-)	0.26 (-)	1.14	0.262	25	327-0080-2100
4 / 100-102	4.47	4.40 (-)	0.21 (-)	1.38	0.329	25	327-0100-2100
4.5 / 114-115	5	3.80 (-)	0.18 (-)	1.614	0.363	25	327-0115-2100
4.72 / 120	5.197	3.65 (-)	0.18 (-)	1.693	0.376	25	327-0120-2100
5 / 125-127	5.453	3.55 (-)	0.15 (-)	1.772	0.390	25	327-0125-2100
5.5 / 140	5.984	3.15 (-)	0.15 (-)	2.008	0.423	25	327-0140-2100
6 / 150-152	6.378	2.95 (-)	0.15 (-)	2.165	0.450	25	327-0150-2100
6.5 / 165	6.969	2.70 (-)	0.12 (-)	2.402	0.504	25	327-0165-2100
7 / 178-180	7.559	2.45 (-)	0.12 (-)	2.634	0.538	25	327-0180-2100
8 / 200-203	8.347	2.20 (-)	0.09 (-)	3.347	0.659	25	327-0200-2100

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

**Accessories**



CLAMP 212



CLAMP 217



CLAMP 213

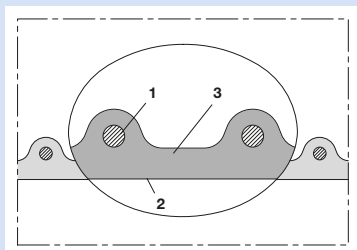
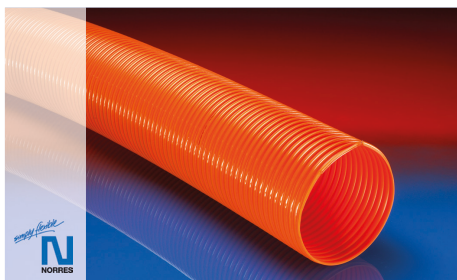


CONNECT 228



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Vacuum truck hose, heavy duty and reinforced, very flexible

### Applications

- suction excavator
- municipal vehicle: sweeper, sweeping machine

### Properties

- heavy duty and reinforced
- highly abrasion resistant
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility

- conforms to RoHS guideline

### Temperature range

- -40°F to 195°F
- short time to 255°F

### Design, material

AIRDUC® profile hose

1. spring steel wire firmly embedded in the wall
2. wall: special premium polyurethane (Pre-PUR®)
3. wall thickness 0.10 inch approximate

4. reinforcement of the primary abrasion areas

### Delivery variants

- further diameters and lengths available on request
- orange (standard)
- special colors: transparent, full colored
- customer-specific branding

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
8 / 200-203	8.39	8.70	3.55	12.44	3.445	12 25	-	355-0200-5202
10 / 254	10.51	7.00	2.20	16.02	4.375	12 25	-	355-0254-5202
- / 352	14.37	4.95	1.50	21.81	6.070	-	12 25	355-0352-5202

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at [www.norres.com/us/technology-us/](http://www.norres.com/us/technology-us/)

## Accessories



CLAMP 211

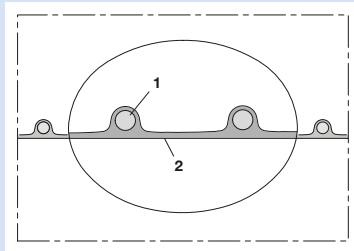
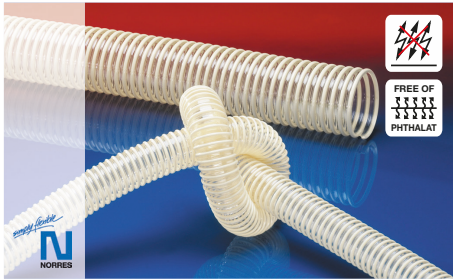


CONNECT 240 + 241



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Antistatic polyurethane hose, light, microbe resistant

**Applications**

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- welding mask: breathing air respirator, breathing hose (flexible type, black)
- textile industry, fiber extraction: spinning machine, knitting machine, weaving loom machine
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- construction industry: insulation-blowing system
- surface preparation: shot blasting/ sand blasting recovery (blasting chamber), ship yard, stripping machine, flooring preparation machine, grinding machine
- X-ray machine: cable protection conduit (special type on request)
- magnetic resonance scanner, MRI : cable protection conduit, air supply hose (special type on request)

- medical equipment/ medical technology, health-care sector: cable protection conduit, air supply hose, extraction hose
- municipal vehicle: sweeper, sweeping machine
- municipal vehicle: lawn mower, slope mower, leaf blower/ leaf collector
- scrubber, floor cleaning machine

**Properties**

- light weight
- abrasion-resistant
- microbe resistant
- good resistance to chemicals
- phthalate-free
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math>
- conforms to RoHS guideline

**Temperature range**

- 5°F to 160°F
- short time to 175°F

**Design, material**

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

**Delivery variants**

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
<b>Standard version</b>								
- / 20	1.02	14.50 (-)	7.40 (-)	0.59	0.065	-	25 50	385-0020-0000
1 / 25	1.22	14.50 (-)	7.40 (-)	0.69	0.085	<b>25 50</b>	-	385-0025-0000
- / 30	1.42	13.05 (-)	7.40 (-)	0.79	0.095	-	25 50	385-0030-0000
1.25 / 32	1.50	12.35 (-)	5.90 (-)	3/4	0.110	-	25 50	385-0032-0000
1.36 / 35	1.61	11.60 (-)	5.90 (-)	1.08	0.115	-	25 50	385-0035-0000
1.5 / 38	1.75	10.90 (-)	5.90 (-)	1.22	0.135	<b>25 50</b>	-	385-0038-0000
- / 40	1.85	10.90 (-)	5.90 (-)	1.57	0.140	-	25 50	385-0040-0000
1.75 / 44-45	2.05	9.45 (-)	5.90 (-)	1.67	0.170	-	25 50	385-0045-0000
2 / 50-51	2.28	7.25 (-)	5.90 (-)	1.75	0.195	<b>25 50</b>	-	385-0050-0000
2.36 / 60	2.68	7.25 (-)	4.70 (-)	1.97	0.290	-	25 50	385-0060-0000
2.5 / 63-65	2.80	6.55 (-)	4.70 (-)	1.91	0.310	<b>25 50</b>	-	385-0063-0000
- / 70	3.11	5.80 (-)	4.70 (-)	2.36	0.335	-	25 50	385-0070-0000
3 / 75-76	3.31	5.45 (-)	4.70 (-)	2.56	0.375	<b>25 50</b>	-	385-0075-0000
- / 80	3.50	5.10 (-)	4.70 (-)	2.76	0.395	-	25 50	385-0080-0000
3.5 / 89-90	3.94	4.35 (-)	4.15 (-)	3.15	0.450	<b>25 50</b>	-	385-0090-0000
4 / 100-102	4.33	4.05 (-)	3.85 (-)	3.54	0.505	<b>25 50</b>	-	385-0100-0000
- / 110	4.76	3.65 (-)	3.55 (-)	3.74	0.605	-	25 50	385-0110-0000
4.72 / 120	5.16	3.65 (-)	2.95 (-)	3.94	0.670	-	25 50	385-0120-0000
5 / 125-127	5.35	3.65 (-)	2.95 (-)	4.23	0.740	<b>25 50</b>	-	385-0125-0000
- / 130	5.55	2.90 (-)	2.65 (-)	4.13	0.805	-	25 50	385-0130-0000

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
5.5 / 140	6.00	2.90 (-)	2.65 (-)	4.33	0.875	-	25 50	385-0140-0000
6 / 150-152	6.38	2.60 (-)	2.35 (-)	4.92	1.010	25 50	-	385-0150-0000
<b>flexible type, black (none antistatic / none flame-retardant)</b>								
- / 40	1.85	10.90 (-)	5.90 (-)	1.57	0.140	50	-	385-0040-1029
2 / 50-51	2.28	7.25 (-)	7.25 (-)	1.75	0.195	50	-	385-0050-1029

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### Accessories



CLAMP 208



CONNECT 228



CONNECT 223



CONNECT 270-271

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





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