

NORRES INDUSTRIAL HOSES RAW MATERIAL PROCESSING







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

Recommended by NORRES customers: PROTAPE® PUR-C 335 FOOD-AS FLAT

Proven Alternatives:

PROTAPE® PUR 301 AS PROTAPE® PUR 330 AS PROTAPE® PUR 330 FOOD PROTAPE® PUR-INOX 330 FOOD-AS



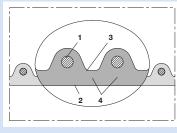
AIRDUC[®] PUR 356 AS

Image: Second state Image: Second state



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 hoseconstruction 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 (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 <109 Ω and in accordance with TRGS 727 <2,5 *108 Ω
- 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

Antistatic polyurethane hose, super-heavy duty, microbe resistant

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°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[®])
- 3. wall thickness 0.08 0.10 inch approximate
- 4. reinforcement of the primary abrasion areas

Delivery variants

- further diameters and lengths available on request
- transparent (standard)
- special colors: 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	
1.25 / 32	1.69	75.95	29.55	3.54	0.455	-	25 50	356-0032-0000
1.5 / 38	1.93	64.90	29.55	4.09	0.530	25 50	-	356-0038-0000
- / 40	2.00	61.95	29.55	4.29	0.550	25 50	-	356-0040-0000
1,75 / 45	2.20	55.50	29.55	5.06	0.610	-	25 50	356-0045-0000
- / 50	2.40	50.35	29.55	5.28	0.670	-	25 50	356-0050-0000
2 / 51	2.44	46.40	29.55	5.28	0.690	25 50	-	356-0051-0000
- / 55	2.60	46.00	29.55	5.93	0.730	-	25 50	356-0055-0000
2.36 / 60	2.80	42.35	29.55	6.14	0.795	25 50	-	356-0060-0000
2.5 / 63-65	2.91	40.75	29.55	6.42	0.830	25 50	-	356-0063-0000
- / 65	3.00	39.25	29.55	6.65	0.855	-	25 50	356-0065-0000
- / 70	3.20	36.55	29.55	7.32	0.920	25 50	-	356-0070-0000
- / 75	3.43	34.25	29.55	7.68	0.980	-	25 50	356-0075-0000
3 / 76	3.46	34.15	29.55	7.68	0.990	25 50	-	356-0076-0000
- / 80	3.62	32.20	29.55	8.07	1.040	-	25 50	356-0080-0000
- / 90	4,06	31.85	29.55	9.84	1.385	-	25 50	356-0090-0000
- / 100	4,45	28.70	29.55	10.71	1.525	-	25 50	356-0100-0000
4 / 102	4,53	27.40	29.55	10.71	1.550	25 50	-	356-0102-0000
- / 110	4,84	26.20	29.55	11.81	1.665	-	25 50	356-0110-0000
4,5 / 115	5,04	25.10	28.79	12.48	1.735	-	25 50	356-0115-0000



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	
4.72 / 120	5,24	24.10	27.46	12.99	1.810	-	25 50	356-0120-0000
- / 125	5,43	23.15	26.43	13.23	1.880	-	25 50	356-0125-0000
5 / 127	5,51	22.70	26.28	13.23	1.910	25 50	-	356-0127-0000
- / 130	5,63	22.25	25.40	13.98	1.950	-	25 50	356-0130-0000
5.5 / 140	6,02	20.75	23.62	15.75	2.090	25 50	-	356-0140-0000
- / 150	6,42	19.35	22.00	17.13	2.475	-	25 50	356-0150-0000
6 / 152	6,50	18.95	24.66	17.13	2.500	25 50	-	356-0152-0000
6.3 / 160	6,81	18.20	20.67	18.50	2.625	-	25 50	356-0160-0000
- / 170	7,20	17.10	19.49	23.62	2.790	-	25 50	356-0170-0000
- / 175	7,40	16.70	18.90	27.56	2.865	-	25 50	356-0175-0000
- / 180	7,60	16.25	18.31	32.68	2.945	-	25 50	356-0180-0000
- / 200	8,43	14.65	16.54	37.40	3.991	-	25	356-0200-0000
8 / 203	8,50	13.85	16.24	37.40	4.045	25 50	-	356-0203-0000
- / 225	9.41	13.05	14.62	46.26	4.469	-	25	356-0225-0000
- / 250	10.39	11.75	13.14	51.18	4.940	-	25	356-0250-0000
- / 275	11.38	10.65	11.96	57.18	5.425	-	25	356-0275-0000
- / 300	12.36	9.80	11.07	62.01	5.900	-	25	356-0300-0000

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/

Accessories



CLAMP 216



CLAMP 211



CONNECT 228



CONNECT SAFETY CLAMP ASSEMBLY



CONNECT 243



CONNECT PRESS ASSEMBLY 232





CONNECT 245 VAC-TRUCK



CONNECT 245

CONNECT THREAD

FITTING 234



CONNECT 240 + 241



CONNECT 246



CONNECT 242







CONNECT 244



conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.

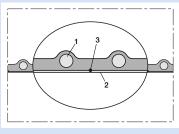
NORPLAST® PUR-C 386 AS





Applications

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



 wood pellet heating system: conveying of wood pellets

Properties

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

Antistatic polyurethane hose, heavy duty, grounding wire

Temperature range

- -5°F to 160°F
- short time to 175°F

Design, material

- NORPLAST® full plastic hose
- 1. hard plastic spiral integrated in the wall; spiral: rigid PVC
- smooth interior; wall: antistatic polyurethane inside layer 0.079 inch approximate, exterior soft PVC
- 3. grounding wire

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	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	lengths ft	
1.25 / 32	1.54	72.50 (-)	20.65 (-)	6.51	0.300	-	50 100	386-0032-0000
1.5 / 38	1.81	72.50 (-)	20.65 (-)	7.70	0.395	50 100	-	386-0038-0000
- / 40	1.92	72.50 (-)	20.65 (-)	8.07	0.415	-	50 100	386-0040-0000
1.75 / 44-45	2.09	72.50 (-)	20.65 (-)	8.99	0.505	-	50 100	386-0045-0000
2 / 50-51	2.32	72.50 (-)	20.65 (-)	10.00	0.590	50 100	-	386-0050-0000
2.36 / 60	2.72	72.50 (-)	20.65 (-)	11.83	0.710	-	50 100	386-0060-0000
2.5 / 63-65	2.83	72.50 (-)	20.65 (-)	12.39	0.760	50 100	-	386-0063-0000
- / 70	3.11	72.50 (-)	20.65 (-)	13.67	0.860	-	50 100	386-0070-0000
3 / 75-76	3.35	72.50 (-)	20.65 (-)	14.77	0.980	50 100	-	386-0076-0000
- / 80	3.54	58.00 (-)	20.65 (-)	15.59	1.095	-	50 100	386-0080-0000
3.5 / 89-90	3.94	58.00 (-)	20.65 (-)	17.43	1.305	50 100	-	386-0090-0000
4 / 100-102	4.41	58.00 (-)	20.65 (-)	19.63	1.550	50 100	-	386-0102-0000

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/

NORPLAST® PUR-C 386 AS



Accessories

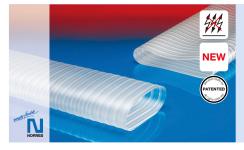


CLAMP 211



CONNECT 270-271



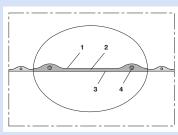


Applications

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

Properties

- highly flexible
- abrasion-resistant
- vibration resistant



- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004, incl. the latest EU-Directive 2015/174, FDA 21 CFR 177.2600
- odorless and tasteless
- microbe and hydrolysis resistant
- $\ensuremath{\,\bullet\,}$ good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <109 Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- manufacturing process acc. GMP EC 2023/2006
 conforms to RoHS guideline

Temperature range

• -40°F to 195°F

Screening machine hose and compensator, vibration resistant

• short time to 255°F

Design, material

- patented PROTAPE® tape hose
- 1. wall interior and exterior smooth
- 2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- 3. wall thickness 0.04 inch approximate; wall interior smooth
- 4. grounding wire

Delivery variants

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

I.D.	O.D.	Pressure	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	lbs./ft	ft	ft	
2 / 50-51	2.17	8.40 (-)	0.210	6	-	335-0050-0000
2.36 / 60	2.56	8.10 (-)	0.250	6	-	335-0060-0000
- / 80	3.35	7.40 (-)	0.315	16	8	335-0080-0000
- / 85	3.54	6.95 (-)	0.335	16	8	335-0085-0000
4 / 100-102	4.13	5.95 (-)	0.395	16	8	335-0100-0000
- / 110	4.50	5.45 (-)	0.435	16	8	335-0110-0000
4.5 / 114-115	4.72	5.15 (-)	0.450	-	8 16	335-0115-0000
4.72 / 120	4.92	4.95 (-)	0.470	16	8	335-0120-0000
5 / 125-127	5.12	4.80 (-)	0.490	16	8	335-0125-0000
6 / 150-152	6.10	4.00 (-)	0.590	16	8	335-0150-0000
- / 155	6.30	3.85 (-)	0.605	16	8	335-0155-0000
6.3 / 160	6.50	3.70 (-)	0.625	-	8 16	335-0160-0000
6.5 / 165	6.69	3.65 (-)	0.645	16	8	335-0165-0000
7 / 178-180	7.28	3.35 (-)	0.705	16	8	335-0180-0000
8 / 200-203	8.07	2.95 (-)	0.765	16	8	335-0200-0000
- / 205	8.27	2.90 (-)	0.800	16	8	335-0205-0000
- / 220	8.86	2.70 (-)	0.860	-	8 16	335-0220-0000
- / 250	10.04	2.40 (-)	0.975	16	8	335-0250-0000
- / 275	11.00	2.20 (-)	1.070	16	8	335-0275-0000
12 / 305	12.20	1.95 (-)	1.190	16	8	335-0305-0000
- / 350	13.98	1.65 (-)	1.365	-	8 16	335-0350-0000
16 / 405-406	16.14	1.50 (-)	1.570	16	8	335-0405-0000



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/

Accessories









CONNECT 270-271

CLAMP 208

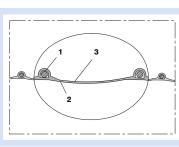
CLAMP 211

CONNECT 228

PROTAPE® PUR 301 AS







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

Applications

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

Properties

super-light weight

• highly flexible + compressible 3:1

- abrasion-resistant
- microbe resistant
- · good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁹ O
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 1
- conforms to RoHS guideline
- Temperature range
- -40°F to 195°F

• short time to 255°F

Design, material

- patented PROTAPE® tape hose
- 1. spring steel wire integrated in the wall
- 2. wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 0.02 inch approximate

Delivery variants

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

I.D.	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	
1.5 / 38	1.81	9.15 (27.05)	7.23 (21.41)	1.06	0.150	25 50	-	301-0038-0000
- / 40	1.89	8.70 (25.65)	6.94 (19.34)	1.10	0.155	-	25 50	301-0040-0000
1.75 / 44-45	2.09	7.75 (22.85)	6.20 (15.36)	1.20	0.170	-	25 50	301-0045-0000
2 / 50-51	2.28	6.95 (20.60)	5.02 (25.10)	1.30	0.190	25 50	-	301-0050-0000
2.36 / 60	2.68	5.85 (17.20)	4.28 (17.42)	1.50	0.230	-	25 50	301-0060-0000
2.5 / 63-65	2.87	5.35 (15.90)	3.84 (14.91)	1.57	0.240	25 50	-	301-0065-0000
- / 70	3.07	5.00 (14.70)	3.69 (12.99)	1.69	0.255	-	25 50	301-0070-0000
3 / 75-76	3.27	4.70 (13.80)	3.40 (11.37)	1.77	0.275	25 50	-	301-0075-0000
- / 80	3.46	4.40 (12.90)	3.25 (10.04)	1.89	0.295	-	25 50	301-0080-0000
3.5 / 89-90	3.86	3.90 (11.45)	2.81 (7.97)	2.09	0.330	25 50	-	301-0090-0000
4 / 100-102	4.25	3.55 (10.35)	1.62 (8.86)	2.28	0.345	25 50	-	301-0100-0000
- / 110	4.65	3.20 (9.45)	1.48 (7.38)	2.50	0.375	-	25 50	301-0110-0000
4.5 / 114-115	4.84	3.05 (9.00)	1.48 (6.79)	2.58	0.390	25 50	-	301-0115-0000
4.72 / 120	5.04	2.95 (8.65)	1.33 (6.20)	2.68	0.410	-	25 50	301-0120-0000
5 / 125-127	5.24	2.85 (8.25)	1.33 (5.76)	2.78	0.425	25 50	-	301-0125-0000
- / 130	5.43	2.70 (8.00)	1.18 (5.32)	2.87	0.445	-	25 50	301-0130-0000
5.5 / 140	5.83	2.55 (7.40)	1.18 (4.58)	3.07	0.475	25 50	-	301-0140-0000
6 / 150-152	6.22	2.30 (6.90)	1.03 (3.99)	3.27	0.510	25 50	-	301-0150-0000
6.3 / 160	6.61	2.20 (6.45)	1.03 (3.40)	3.46	0.545	-	25 50	301-0160-0000
6.5 / 165	6.81	2.20 (6.30)	1.03 (3.25)	3.56	0.560	-	25 50	301-0165-0000
7 / 178-180	7.40	1.95 (5.75)	0.89 (2.66)	3.86	0.605	25 50	-	301-0180-0000
8 / 200-203	8.19	1.75 (5.20)	0.74 (3.25)	4.25	0.690	25 50	-	301-0200-0000
- / 225	9.21	1.60 (4.65)	0.59 (2.36)	4.78	0.780	-	25	301-0225-0000

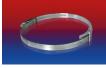


I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
- / 250	10.20	1.45 (4.15)	0.59 (1.92)	5.35	0.860	-	25	301-0250-0000
10 / 254	10.35	1.40 (4.05)	0.59 (1.77)	5.65	0.875	25	-	301-0254-0000
11 / 280	11.38	1.25 (3.70)	0.59 (1.48)	5.87	0.960	-	25	301-0280-0000
- / 300	12.17	1.15 (3.50)	0.44 (1.18)	6.26	1.140	-	25	301-0300-0000
12 / 305	12.40	1.15 (3.40)	0.44 (1.18)	6.40	1.165	25	-	301-0305-0000
- / 315	12.80	1.10 (3.25)	0.44 (1.03)	6.59	1.205	-	25	301-0315-0000
- / 350	14.17	1.00 (2.95)	0.44 (0.74)	7.28	1.345	-	25	301-0350-0000
14 / 356	14.41	1.00 (2.90)	0.44 (0.74)	7.48	1.410	25	-	301-0356-0000
- / 400	16.14	0.85 (2.60)	0.44 (0.59)	8.27	1.520	-	25	301-0400-0000
- / 450	18.11	0.80 (2.30)	0.30 (0.44)	9.25	1.695	-	25	301-0450-0000
- / 500	20.08	0.75 (2.10)	0.30 (0.44)	10.24	1.870	-	25	301-0500-0000

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/

Accessories













CLAMP 212

CLAMP 210 BRIDGE CLAMP

CLAMP 217

CLA

CLAMP 213

CONNECT 228

CONNECT 223



CONNECT 270-271

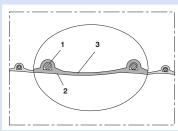
PROTAPE® PUR 330 AS





Applications

- flexible hose/ ducting for gases and for abrasive dust, powder, fibers
- printed circuit board drilling machines (PCB)
- extraction unit, dust collection systems, filter system, oil mist extraction
- extraction arm
- 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
- surface preparation: shot blasting/ sand blasting recovery (blasting chamber), ship yard, stripping machine, flooring preparation machine, grinding machine
- heating hose: exterior hose as protection hose



Properties

• lightweight and reinforced

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

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

Temperature range

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

Design, material

- patented PROTAPE® tape hose
- 1. spring steel wire integrated in the wall
- 2. wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 0.025 inchapproximate

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.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight Ibs./ft	Stock length ft	Further production lengths ft	Order No.
1 / 25	1.25	23.30 (60.65)	15.95 (29.53)	3/4	0.101	25 50	-	330-0025-1002
-/30	1.46	19.60 (50.75)	13.29 (29.53)	7/8	0.121	-	25 50	330-0030-1002
1,25 / 32	1.54	18.35 (47.65)	12.40 (29.53)	0.91	0.128	-	25 50	330-0032-1002
1.5 / 38	1.75	15.60 (40.25)	10.48 (22.74)	1.02	0.148	25 50	-	330-0038-1002
- / 40	1.85	14.80 (38.30)	9.89 (20.52)	1.06	0.155		25 50	330-0040-1002
2 / 50-51	2.28	11.90 (30.75)	6.50 (25.69)	1.30	0.249	25 50	-	330-0050-1002
2,36 / 60	2.68	9.95 (25.65)	5.32 (17.87)	1.50	0.289	-	25 50	330-0060-1002
2.5 / 63-65	2.87	9.20 (23.70)	4.87 (15.36)	1.59	0.309	25 50	-	330-0065-1002
- / 70	3.07	8.55 (22.05)	4.58 (13.29)	1.69	0.336	-	25 50	330-0070-1002
3 / 75-76	3.27	8.00 (20.60)	4.28 (11.66)	1.79	0.356	25 50	-	330-0075-1002
- / 80	3.46	7.45 (19.30)	3.99 (10.34)	1.89	0.383	-	25 50	330-0080-1002
3.5 / 89-90	3.86	6.65 (17.20)	3.54 (8.27)	2.09	0.423	25 50	-	330-0090-1002
4 / 100-102	4.25	6.00 (15.50)	2.36 (9.15)	2.28	0.45	25 50	-	330-0100-1002
-/110	4.65	5.45 (14.05)	2.07 (7.68)	2.50	0.491	-	25 50	330-0110-1002
4.5 / 114-115	4.84	5.20 (13.50)	2.07 (6.94)	2.58	0.511	25 50	-	330-0115-1002
4,72 / 120	5.04	5.00 (12.90)	1.92 (6.50)	2.68	0.531	-	25 50	330-0120-1002
5/125-127	5.24	4.85 (12.40)	1.92 (5.91)	2.78	0.558	25 50	-	330-0125-1002
-/130	5.43	4.65 (11.95)	1.77 (5.46)	2.87	0.578	-	25 50	330-0130-1002
5.5 / 140	5.83	4.30 (11.10)	1.62 (4.72)	3.07	0.618	25 50	-	330-0140-1002
6 / 150-152	6.22	4.00 (10.35)	1.62 (4.13)	3.27	0.665	25 50	-	330-0150-1002
6,3 / 160	6.61	3.75 (9.70)	1.48 (3.69)	3.46	0.706	-	25 50	330-0160-1002
-/170	7.00	3.55 (9.15)	1.33 (3.25)	3.66	0.746	-	25 50	330-0170-1002
-/175	7.20	3.50 (8.85)	1.33 (3.10)	3.76	0.766	-	25 50	330-0175-1002



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	
7 / 178-180	7.40	3.35 (8.65)	1.33 (2.95)	3.86	0.786	25 50	-	330-0180-1002
8 / 200-203	8.19	3.05 (7.75)	0.89 (3.25)	4.25	0.894	25 50	-	330-0200-1002
-/225	9.17	2.70 (6.90)	0.74 (2.51)	4.74	0.995	-	25	330-0225-1002
-/250	10.16	2.40 (6.25)	0.74 (1.92)	5.24	1.102	-	25	330-0250-1002
10/254	10.31	2.40 (6.10)	0.74 (1.92)	5.31	1.115	25	-	330-0254-1002
11 / 280	11.34	2.20 (5.60)	0.59 (1.48)	5.83	1.230	-	25	330-0280-1002
-/300	12.17	2.05 (5.20)	0.59 (1.48)	6.26	1.438	-	25	330-0300-1002
12/305	12.36	1.95 (5.10)	0.59 (1.48)	6.36	1.458	25	-	330-0305-1002
-/315	12.76	1.95 (4.95)	0.59 (1.33)	6.56	1.505	-	25	330-0315-1002
-/350	14.13	1.75 (4.40)	0.59 (1.03)	7.24	1.673	-	25	330-0350-1002
14 / 356	14.37	1.65 (4.35)	0.44 (1.03)	7.36	1.700	25	-	330-0356-1002
-/400	16.10	1.50 (3.90)	0.44 (0.74)	8.23	1.908	-	25	330-0400-1002
-/450	18.07	1.40 (3.50)	0.44 (0.74)	9.21	2.144	-	25	330-0450-1002
-/500	20.08	1.25 (3.10)	0.44 (0.59)	10.24	2.950	-	25	330-0500-1002

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/

Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP

CLAMP 217

217

CLAMP 213





CONNECT 223



CONNECT 270-271

PROTAPE® PUR 330 FOOD



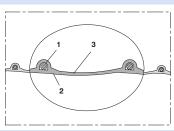


Applications

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

Properties

· lightweight and reinforced



- highly flexible + compressible 3:1
- abrasion-resistant
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 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
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

Temperature range

• -40°F to 195°F

Food hose and pharmaceutical hose, light weight

• short time to 255°F

Design, material

- patented PROTAPE® tape hose
- 1. spring steel wire integrated in the wall
- 2. wall: special premium ether-polyurethane (Pre-PUR®)
- 3. wall thickness 0.025 inchapproximate

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	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1 / 25	1.25	23.30 (60.65)	15.95 (29.53)	3/4	0.101	25 50	-	330-0025-0000
- / 30	1.46	19.60 (50.75)	13.29 (29.53)	7/8	0.121	-	25 50	330-0030-0000
1.25 / 32	1.54	18.35 (47.65)	12.40 (29.53)	0.91	0.128	-	25 50	330-0032-0000
1.5 / 38	1.75	15.60 (40.25)	10.48 (22.74)	1.02	0.148	25 50	-	330-0038-0000
- / 40	1.85	14.80 (38.30)	9.89 (20.52)	1.06	0.155	-	25 50	330-0040-0000
1.75 / 44-45	2.05	13.20 (34.10)	8.86 (16.24)	1.16	0.175	-	25 50	330-0045-0000
2 / 50-51	2.28	11.90 (30.75)	6.50 (25.69)	1.30	0.249	25 50	-	330-0050-0000
2.36 / 60	2.68	9.95 (25.65)	5.32 (17.87)	1.50	0.289	-	25 50	330-0060-0000
2.5 / 63-65	2.87	9.20 (23.70)	4.87 (15.36)	1.59	0.309	25 50	-	330-0065-0000
- / 70	3.07	8.55 (22.05)	4.58 (13.29)	1.69	0.336	-	25 50	330-0070-0000
3 / 75-76	3.27	8.00 (20.60)	4.28 (11.66)	1.79	0.356	25 50	-	330-0075-0000
- / 80	3.46	7.45 (19.30)	3.99 (10.34)	1.89	0.383	-	25 50	330-0080-0000
3.5 / 89-90	3.86	6.65 (17.20)	3.54 (8.27)	2.09	0.423	25 50	-	330-0090-0000
4 / 100-102	4.25	6.00 (15.50)	2.36 (9.15)	2.28	0.450	25 50	-	330-0100-0000
- / 110	4.65	5.45 (14.05)	2.07 (7.68)	2.50	0.491	-	25 50	330-0110-0000
4.5 / 114-115	4.84	5.20 (13.50)	2.07 (6.94)	2.58	0.511	25 50	-	330-0115-0000
4.72 / 120	5.04	5.00 (12.90)	1.92 (6.50)	2.68	0.531	-	25 50	330-0120-0000
5 / 125-127	5.24	4.85 (12.40)	1.92 (5.91)	2.78	0.558	25 50	-	330-0125-0000
- / 130	5.43	4.65 (11.95)	1.77 (5.46)	2.87	0.571	-	25 50	330-0130-0000
5.5 / 140	5.83	4.30 (11.10)	1.62 (4.72)	3.07	0.618	25 50	-	330-0140-0000
6 / 150-152	6.22	4.00 (10.35)	1.62 (4.13)	3.27	0.665	25 50	-	330-0150-0000
6.3 / 160	6.61	3.75 (9.70)	1.48 (3.69)	3.46	0.699	-	25 50	330-0160-0000
- / 170	7.00	3.55 (9.15)	1.33 (3.25)	3.66	0.746	-	25 50	330-0170-0000
- / 175	7.20	3.50 (8.85)	1.33 (3.10)	3.76	0.766	-	25 50	330-0175-0000
7 / 178-180	7.40	3.35 (8.65)	1.33 (2.95)	3.86	0.786	25 50	-	330-0180-0000

PROTAPE® PUR 330 FOOD



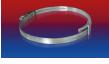
I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
8 / 200-203	8.19	3.05 (7.75)	0.89 (3.25)	4.25	0.894	25	-	330-0200-0000
- / 225	9.17	2.70 (6.90)	0.74 (2.51)	4.74	0.988	-	25 50	330-0225-0000
- / 250	10.16	2.40 (6.25)	0.74 (1.92)	5.24	1.095	-	25	330-0250-0000
10 / 254	10.31	2.40 (6.10)	0.74 (1.92)	5.31	1.115	25	-	330-0254-0000
11 / 280	11.34	2.20 (5.60)	0.59 (1.48)	5.83	1.223	-	25	330-0280-0000
- / 300	12.17	2.05 (5.20)	0.59 (1.48)	6.26	1.431	-	25	330-0300-0000
- / 315	12.76	1.95 (4.95)	0.59 (1.33)	6.56	1.498	-	25	330-0315-0000
- / 325	13.15	1.90 (4.80)	0.59 (1.33)	6.75	1.546	-	25	330-0325-0000
- / 350	14.13	1.75 (4.40)	0.59 (1.03)	7.24	1.666	-	25	330-0350-0000
- / 400	16.10	1.50 (3.90)	0.44 (0.74)	8.23	1.902	-	25	330-0400-0000
- / 450	18.07	1.40 (3.50)	0.44 (0.74)	9.21	2.137	-	25	330-0450-0000
- / 500	20.08	1.25 (3.10)	0.44 (0.59)	10.24	2.943	-	25	330-0500-0000

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/

Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

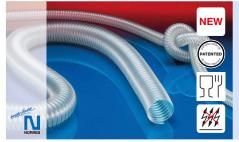


CONNECT 223



CONNECT 270-271



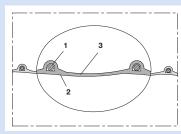


Applications

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

Properties

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



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

- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odorless 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 <10⁹ Ω and in accordance with TRGS 727 <2,5*10⁸ Ω
- 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

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

- Temperature range
- -40°F to 195°F

Design, material

patented PROTAPE® tape hose

- spring steel wire integrated in the wall; spiral: stainless steel wire (INOX)
- 2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- 3. wall thickness 0.025 inchapproximate

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	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1.5 / 38	1.75	15.60 (40.25)	10.48 (22.74)	1.02	0.148	25	-	330-0038-1018
- / 40	1.85	14.80 (38.30)	9.89 (20.52)	1.06	0.161	-	25	330-0040-1018
2 / 50-51	2.28	11.90 (30.75)	6.50 (25.69)	1.30	0.255	25	-	330-0050-1018
2.36 / 60	2.68	9.95 (25.65)	5.32 (17.87)	1.50	0.296	-	25	330-0060-1018
2.5 / 63-65	2.87	9.20 (23.70)	4.87 (15.36)	1.59	0.316	25	-	330-0065-1018
- / 70	3.07	8.55 (22.05)	4.58 (13.29)	1.69	0.343	-	25	330-0070-1018
3 / 75-76	3.27	8.00 (20.60)	4.28 (11.66)	1.79	0.370	25	-	330-0075-1018
- / 80	3.46	7.45 (19.30)	3.99 (10.34)	1.89	0.390	-	25	330-0080-1018
4 / 100-102	4.25	6.00 (15.50)	2.36 (9.15)	2.28	0.464	25	-	330-0100-1018
5 / 125-127	5.24	4.85 (12.40)	1.92 (5.91)	2.78	0.571	25	-	330-0125-1018
6 / 150-152	6.22	4.00 (10.35)	1.62 (4.13)	3.27	0.679	25	-	330-0150-1018
6.3 / 160	6.61	3.75 (9.70)	1.48 (3.69)	3.46	0.719	-	25	330-0160-1018
7 / 178-180	7.40	3.35 (8.65)	1.33 (2.95)	3.86	0.806	25	-	330-0180-1018
8 / 200-203	8.19	3.05 (7.75)	0.89 (3.25)	4.25	0.907	25	-	330-0200-1018
- / 250	10.16	2.40 (6.25)	0.74 (1.92)	5.24	1.122	-	25	330-0250-1018
- / 300	12.13	2.05 (5.20)	0.59 (1.48)	6.22	1.458	-	25	330-0300-1018

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/



Accessories



CLAMP 212

CLAMP 210 BRIDGE CLAMP



CLAMP 217







CONNECT 228



CONNECT 223



CONNECT 270-271

AIRDUC® PUR 356 EC



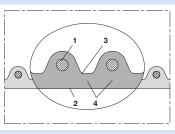


Applications

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

Properties

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



- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- electrically conductive wall: electrical and surface resistance <103 Ω
- 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

Electrically conductive polyurethane hose, super-heavy duty

Temperature range • -40°F to 195°F

Design, material

AIRDUC® profile hose

- spring steel wire firmly embedded in the wall
 wall: electrically conductive premium ester-polyurethane (Pre-PUR[®])
- 3. wall thickness 0.08 0.10 inch approximate
- 4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1.5 / 38	1.93	55.25	29.55	4.09	0.530	25 50	-	356-0038-1003
- / 40	2.00	52.70	29.55	4.29	0.550	-	25 50	356-0040-1003
- / 50	2.40	42.80	29.55	5.28	0.670	-	25 50	356-0050-1003
2 / 50-51	2.44	40.60	29.55	5.28	0.680	25 50	-	356-0051-1003
2.36 / 60	2.80	36.05	29.55	6.14	0.795	-	25 50	356-0060-1003
2.5 / 63-65	2.91	34.75	29.55	6.42	0.835	25 50	-	356-0063-1003
- / 65	3.00	33.45	29.55	6.65	0.855	-	25 50	356-0065-1003
- / 70	3.20	31.10	29.55	7.32	0.920	-	25 50	356-0070-1003
- / 75	3.43	29.15	29.55	7.68	0.980	-	25 50	356-0075-1003
3 / 76	3,46	28.95	29.55	7.68	0.995	25 50	-	356-0076-1003
- / 80	3.62	27.40	29.53	8.07	1.040	-	25 50	356-0080-1003
- / 100	4.45	24.45	29.55	10.71	1.525	-	25 50	356-0100-1003
4 / 102	4.50	24.00	29.55	10.71	1.550	25 50	-	356-0102-1003

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/

AIRDUC[®] PUR 356 EC

Accessories



CLAMP 216



CLAMP 211







CONNECT 228



CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT PRESS ASSEMBLY 232





CONNECT MOULD ASSEMBLY 233



CONNECT 240 + 241



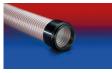
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245

FITTING 234

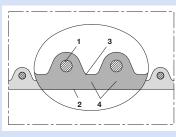


CONNECT 246

AIRDUC[®] PUR 356 FOOD







Applications

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- 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
- pelleting machines/ tablet presses
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- agricultural industry: pneumatic grain conveyer
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- paper mill, paper and pulp industry: waste water, air extraction
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of e.g. rice, dry food, cereals, sugar,

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

Properties

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

Food hose and pharmaceutical hose, superheavy duty

- 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
- 1. spring steel wire firmly embedded in the wall
- 2. wall: special premium ether-polyurethane (Pre-PUR®)
- 3. wall thickness 0.08 0.10 inch approximate
- 4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1.25 / 32	1.69	71.05	29.55	3.54	0.455	25 50	-	356-0032-1001
1.5 / 38	1.93	60.75	29.55	4.09	0.530	25 50	-	356-0038-1001
- / 40	2.00	57.95	29.55	4.29	0.550	-	25 50	356-0040-1001
- / 50	2.40	47.05	29.55	5.28	0.670	-	25 50	356-0050-1001
2 / 51	2.44	45.75	29.55	5.28	0.690	25 50	-	356-0051-1001
2.36 / 60	2.80	39.65	29.55	6.14	0.795	-	25 50	356-0060-1001
2,5 / 63	2.91	38.25	29.55	6.42	0.830	25 50	-	356-0063-1001
- / 65	3.00	36.75	29.55	6.65	0.855	-	25 50	356-0065-1001
- / 70	3.20	34.25	29.55	7.32	0.920	-	25 50	356-0070-1001
- / 75	3.43	32.05	29.55	7.68	0.980	-	25 50	356-0075-1001
3 / 76	3.46	32.00	29.55	7.68	0.990	25 50	-	356-0076-1001
- / 80	3.62	30.10	29.53	8.07	1.040	-	25 50	356-0080-1001
- / 100	4.45	26.90	26.60	10.71	1.525	-	25 50	356-0100-1001
4 / 102	4.50	24.65	29.55	10.71	1.550	25 50	-	356-0102-1001
- / 125	5.43	21.70	23.90	13.23	1.880	-	25 50	356-0125-1001
5 / 127	5.50	19.85	24.36	13.23	1.910	25 50	-	356-0127-1001
- / 150	6.42	18.15	22.30	17.13	2.475	-	25 50	356-0150-1001
6 / 152	6.50	17.55	20.23	17.13	2.500	25 50	-	356-0152-1001

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/

AIRDUC[®] PUR 356 FOOD

Accessories



CLAMP 216





CLAMP 211





CONNECT 228



CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT ASEPTIC FITTING 249



CONNECT PRESS ASSEMBLY 232

CONNECT 240 + 241

FOOD





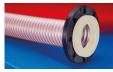
CONNECT 243 FOOD

CONNECT MOULD

ASSEMBLY 233



CONNECT THREAD FITTING 234



CONNECT 244 FOOD



CONNECT 245 FOOD





CONNECT 246 FOOD



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. 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.

Image: Pre-FUR* Image: Pre

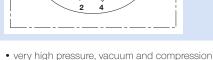


Applications

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- 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
- pelleting machines/ tablet presses
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- agricultural industry: pneumatic grain conveyer
- animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
- paper mill, paper and pulp industry: waste water, air extraction
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging

Properties

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



 very high pressure, vacuum and compression resistance

Ø

(INOX)

- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odorless 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 <10⁹ Ω and in accordance with TRGS 727 <2,5*10⁸Ω
- 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

Antistatic food hose and pharmaceutical hose, super-heavy duty, stainless steel

- manufacturing process acc. GMP EC 2023/2006
- 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; spiral: stainless steel wire (INOX)
- 2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- 3. wall thickness 0.08 0.10 inch approximate
- 4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1.25 / 32	1.69	75.15	29.55	3.54	0.455	25	-	356-0032-1018
1.5 / 38	1.93	64.20	29.55	4.09	0.530	25	-	356-0038-1018
- / 40	2.00	61.30	29.55	4.29	0.550	-	25	356-0040-1018
- / 50	2.40	49.75	29.55	5.28	0.670	-	25	356-0050-1018
2 / 51	2.44	45.75	29.55	5.28	1.275	25	-	356-0051-1018
2.36 / 60	2.80	41.90	29.55	6.14	0.795	-	25	356-0060-1018
2.5 / 63-65	2.91	40.35	29.55	6.42	1.485	25	-	356-0063-1018
- / 65	3.00	38.80	29.55	6.65	0.855	-	25	356-0065-1018
- / 70	3.20	36.20	29.55	7.32	0.920	-	25	356-0070-1018
- / 75	3.43	33.85	29.55	7.68	0.980	-	25	356-0075-1018
3 / 76	3.46	33.80	29.55	7.68	2.170	25	-	356-0076-1018
- / 80	3.62	31.85	29.55	8.07	1.040	-	25	356-0080-1018
3.5 / 89-90	3.98	31.45	29.55	9.84	2.375	25	-	356-0089-1018
- / 90	4.06	31.45	29.55	9.84	1.385	-	25	356-0090-1018
- / 100	4.45	28.45	29.55	10.71	1.525	-	25	356-0100-1018
4 / 102	4.53	27.40	29.55	10.71	2.730	25	-	356-0102-1018
- / 125	5.43	22.90	26.00	13.23	1.880	-	25	356-0125-1018
5 / 127	5.51	21.05	25.70	13.23	4.055	25	-	356-0127-1018
- / 150	6.42	19.15	21.70	17.13	2.475	-	25	356-0150-1018
6 / 152	6.50	19.95	21.40	17.13	0.455	25	-	356-0152-1018

AIRDUC[®] PUR-INOX 356 FOOD-AS



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/

Accessories



CLAMP 216





CONNECT 228



CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT PRESS ASSEMBLY 232



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



CONNECT 243 FOOD









CONNECT 245 FOOD

CONNECT 246 FOOD

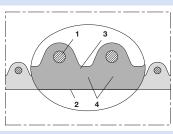


 Image: Second second



Applications

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



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

Properties

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

Food hose and pharmaceutical hose, superheavy duty and reinforced

• 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®)
- 3. wall thickness 0.12 0.14 inch approximate
- 4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
- / 50	2.64	58.95	29.55	7.44	1.000	-	25 50	356-0050-5100
2 / 51	2.68	55.85	29.55	7.58	1.010	25 50	-	356-0051-5100
2.36 / 60	3.03	50.10	29.55	8.50	1.185	-	25 50	356-0060-5100
2.5 / 63-65	3.15	48.30	29.55	8.84	1.220	25 50	-	356-0063-5100
- / 65	3.20	46.55	29.55	9.04	1.270	-	25 50	356-0065-5100
- / 75	3.62	40.85	29.55	10.10	1.370	-	25 50	356-0075-5100
3 / 76	3.43	40.60	29.55	10.24	1.400	25 50	-	356-0076-5100
- / 80	3.82	38.50	29.55	10.63	1.545	-	25 50	356-0080-5100
3.5 / 89-90	4.17	34.50	29.55	11.59	1.910	25 50	-	356-0089-5100
- / 90	4.21	34.50	29.55	11.69	1.950	-	25 50	356-0090-5100
- / 100	4.61	31.25	29.55	12.76	2.150	-	25 50	356-0100-5100
4 / 102	4.69	29.10	29.55	12.99	2.190	25 50	-	356-0102-5100
4.5 / 114-115	5.20	27.40	27.17	14.35	2.445	25 50	-	356-0115-5100
- / 125	5.59	25.30	24.95	15.43	2.655	-	25 50	356-0125-5100
5 / 127	5.67	24.85	24.81	15.65	2.695	25 50	-	356-0127-5100
- / 150	6.57	21.25	22.44	18.09	3.395	-	25 50	356-0150-5100
6 / 152	6.65	19.65	22.15	18.31	3.435	25 50	-	356-0152-5100

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/



Accessories



CLAMP 211



CONNECT 230

 Image: Second state
 Image: Second state

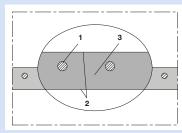


Applications

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

Properties

• super-heavy duty



- highly abrasion resistant
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odorless 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 <10⁹ Ω and in accordance with TRGS 727 <2,5*10⁸Ω
- 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-

hose, super-heavy duty and reinforced, smooth interior and exterior, stainless steel (INOX)

Antistatic food hose and pharmaceutical

veying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)

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

Temperature range

• -40°F to 195°F

Design, material

BARDUC® design

- 1. spring steel wire spiral embedded in the wall; spiral: stainless steel wire (INOX)
- 2. smooth interior and exterior; wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
- 3. wall thickness 0.16 0.24 inch approximate depending on diameter

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	
1.25 / 32	1.57	79.75 (-)	29.53 (-)	5.67	0.300	25	382-0032-1014
1.5 / 38	1.81	79.75 (-)	29.53 (-)	6.73	0.395	25	382-0038-1014
- / 40	1.89	79.75 (-)	29.53 (-)	7.09	0.435	25 50	382-0040-1014
2 / 50-51	2.28	72.50 (-)	29.53 (-)	8.86	0.645	25 50	382-0050-1014
2.36 / 60	2.68	72.50 (-)	29.53 (-)	10.63	0.755	25 50	382-0060-1014
2.5 / 63-65	2.87	72.50 (-)	29.53 (-)	11.52	0.815	25 50	382-0065-1014
- / 70	3.07	72.50 (-)	29.53 (-)	12.40	0.865	25 50	382-0070-1014
3 / 75-76	3.27	72.50 (-)	29.53 (-)	13.29	0.925	25 50	382-0075-1014
- / 80	3.46	58.00 (-)	26.58 (-)	14.17	0.980	25	382-0080-1014
4 / 100-102	4.33	58.00 (-)	23.62 (-)	19.69	1.210	25	382-0100-1014

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/



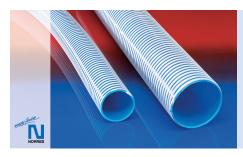
Accessories



CLAMP 211

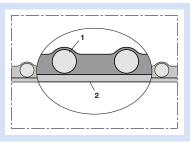
NORPLAST® PUR 387





Applications

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



Properties

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

Temperature range

-5°F to 160°F
short time to 175°F

Polyurethane hose, super-heavy duty

Design, material

NORPLAST® full plastic hose

- 1. hard plastic spiral integrated in the wall; spiral: rigid PVC
- 2. smooth interior; wall: premium polyurethane (Pre-PUR®), inside layer 0.079 inch approximate exterior soft PVC

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	
				inlines blue			
			standard type				
3 / 75-76	3.54	87.00 (-)	26.60 (-)	20.16	1.480	50 100	387-0076-0000
3.5 / 89-90	4.13	79.75 (-)	26.60 (-)	23.43	1.745	50 100	387-0090-0000
4 / 100-102	4.65	58.00 (-)	26.60 (-)	31.46	2.215	50 100	387-0102-0000
5 / 125-127	5.71	43.50 (-)	26.60 (-)	40.81	2.820	50 100	387-0127-0000
6 / 150-152	6.81	43.50 (-)	26.60 (-)	52.13	4.300	50 100	387-0152-0000
			flexible type,	inliner yellow			
5 / 125-127	5.71	43.50 (-)	26.60 (-)	40.81	2.820	50 100	387-0127-6007
			smooth exterior	type, inliner red			
5 / 125-127	5.71	43.50 (-)	26.60 (-)	40.81	2,820	50 100	387-0127-6008

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/

NORPLAST® PUR 387

Accessories



CLAMP 211

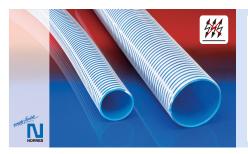






NORPLAST® PUR-C 387 AS



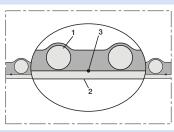


Applications

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

Properties

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



- very high pressure, vacuum and compression resistance
- good resistance to chemicals
- very good low temperature flexibility
 grounding wire for discharging of electrostatic charging
- electrical and surface resistance of the inliner $<10^9 \Omega$
- 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 RoHS guideline

Temperature range

• -5°F to 160°F

Antistatic polyurethane hose, super-heavy duty, grounding wire

• short time to 175°F

Design, material

- NORPLAST® full plastic hose
- 1. hard plastic spiral integrated in the wall; spiral: rigid PVC
- smooth interior; wall: antistatic polyurethane inside layer 0.079 inch approximate, exterior soft PVC
- 3. grounding wire

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending	Weight	Stock	Order No.
				Radius		length	
in / mm	in	psi	inHG	in	lbs./ft	ft	
3 / 75-76	3.62	87.00 (-)	26.60 (-)	20.16	1.480	50 100	387-0076-2878
3.5 / 89-90	4.21	79.75 (-)	26.60 (-)	23.43	1.745	50 100	387-0090-2878
4 / 100-102	4.72	58.00 (-)	26.60 (-)	31.46	2.215	50 100	387-0102-2878
5 / 125-127	5.79	43.50 (-)	26.60 (-)	40.81	2.820	50 100	387-0127-2878
6 / 150-152	6.89	43.50 (-)	26.60 (-)	52.13	4.300	50 100	387-0152-2878

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/

Accessories



CLAMP 211

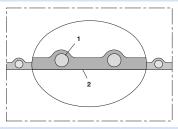
NORPLAST® PVC 384 FOOD





Applications

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



PVC hose, food hose and pharmaceutical hose, heavy duty

Properties

heavy duty

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

Temperature range

- 25°F to 160°F
- short time to 175°F

Design, material

NORPLAST® full plastic hose

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

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	
- / 20	1.02	72.50 (-)	20.65 (-)	4.17	0.170	50 100	384-0020-1001
1 / 25	1.22	72.50 (-)	20.65 (-)	5.07	0.200	50 100	384-0025-1001
- / 30	1.42	72.50 (-)	20.65 (-)	5.98	0.240	50 100	384-0030-1001
1.25 / 32	1.54	72.50 (-)	20.65 (-)	6.43	0.260	50 100	384-0032-1001
1.36 / 35	1.65	72.50 (-)	20.65 (-)	6.97	0.295	50 100	384-0035-1001
1.5 / 38	1.75	72.50 (-)	20.65 (-)	7.52	0.350	50 100	384-0038-1001
- / 40	1.89	72.50 (-)	20.65 (-)	7.97	0.370	50 100	384-0040-1001
1.75 / 44-45	2.09	72.50 (-)	20.65 (-)	8.87	0.450	50 100	384-0045-1001
2 / 50-51	2.36	72.50 (-)	20.65 (-)	9.96	0.540	50 100	384-0051-1001
2.36 / 60	2.72	72.50 (-)	20.65 (-)	11.68	0.650	50 100	384-0060-1001
2.5 / 63-65	2.83	72.50 (-)	20.65 (-)	12.22	0.700	50 100	384-0063-1001
- / 70	3.15	72.50 (-)	20.65 (-)	13.58	0.805	50 100	384-0070-1001
3 / 75-76	3.39	72.50 (-)	20.65 (-)	13.76	0.925	50 100	384-0076-1001
- / 80	3.58	58.00 (-)	20.65 (-)	15.48	1.040	50 100	384-0080-1001
3.5 / 89-90	4.00	58.00 (-)	20.65 (-)	17.39	1.245	50 100	384-0090-1001
4 / 100-102	4.49	58.00 (-)	20.65 (-)	19.56	1.480	50 100	384-0102-1001
- / 110	4.84	58.00 (-)	20.65 (-)	21.10	1.715	50 100	384-0110-1001
4.72 / 120	5.24	43.50 (-)	16.25 (-)	22.91	1.880	50 100	384-0120-1001
5 / 125-127	5.43	43.50 (-)	16.25 (-)	23.81	2.015	50 100	384-0125-1001
6 / 150-152	6.50	43.50 (-)	14.75 (-)	28.34	2.890	50	384-0150-1001

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/

NORPLAST® PVC 384 FOOD



Accessories



CLAMP 211



CONNECT 270-271





NORRES Schlauchtechnik GmbH

Am Stadthafen 12-16 45881 Gelsenkirchen GERMANY Phone +49 209 8 00 00 0 Fax +49 209 8 00 00 99 99 E-Mail info@norres.de www.norres.com

NORRES France SARL

27 D rue des Blancs Monts Z.A.C. Les Blancs Monts 51350 Cormontreuil FRANCE Phone +33 3 26 35 95 41 E-Mail info@norres.fr www.norres.fr

NORRES Polska Sp. z o.o.

ul. Rolna 9 Sady k. Poznania 62-080 Tarnowo Podgórne POLAND Phone +48 61 293 31 80 E-Mail info@norres.pl www.norres.pl

NORRES Hose Technology (Shanghai) Co., Ltd. NORRES Taiwan Co,. Ltd. 诺锐软管科技(上海)有限公司

上海浦东新区上丰路955号4幢一层西首 West of Floor 1, Building 4, No. 955, Shang Feng Rd., Pudong, 201201 Shanghai P.R. CHINA Phone +86 21 50308958 E-Mail info@norres.cn www.norres.cn www.sh-norres.com

NORRES UK LTD

Unit 10, Mount Street Business Park Nechells, Birmingham, B7 5QU UNITED KINGDOM Phone +44 121 328 5426 info@norres.co.uk E-Mail www.norres.co.uk

NORRES North America Inc.

2520 Foundation Drive South Bend, IN 46628 UNITED STATES Phone +1 574 232 90 61 Toll Free +1 855 NORRES 0 E-Mail info@norres.us www.norres.us

NORRES Czech s.r.o

Novoveská 552/5j 709 00 Ostrava, Mariánské Hory CZECH REPUBLIC Phone +420 555 501 902 E-Mail info@norres.cz www.norres.cz

台灣諾銳有限公司

桃園市蘆竹區經國路892號5樓 5F., No. 892, Jingguo Rd., Luzhu Dist. Taoyuan City 33858 TAIWAN (R.O.C.) Phone +886 3 356 0696 E-Mail info@norres.tw www.norres.tw





